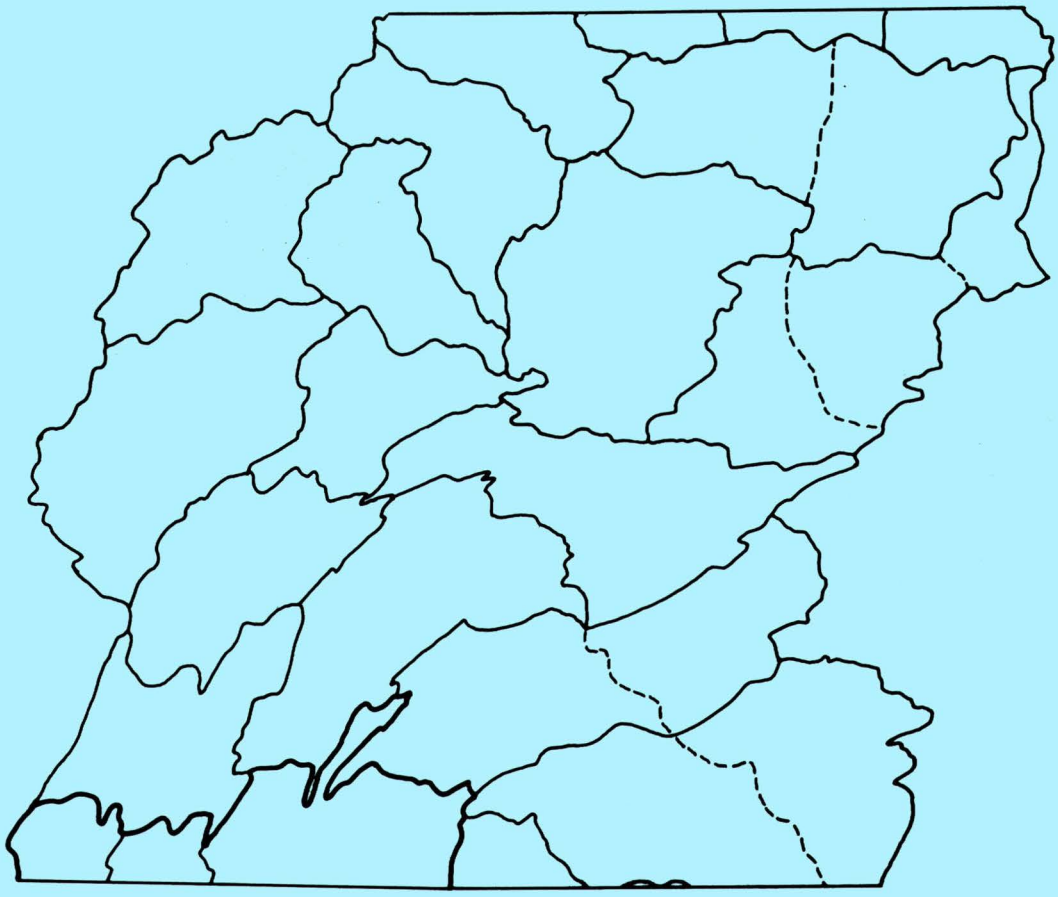
GROUND-WATER QUALITY AND DATA ON WELLS AND SPRINGS IN PENNSYLVANIA, VOLUME II--SUSQUEHANNA AND POTOMAC RIVER BASINS

U.S. GEOLOGICAL SURVEY

Open-File Report 81-329



Prepared in cooperation with the
Pennsylvania Department of Environmental Resources

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By Harry E. Koester and Denise R. Miller

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM (SI) UNITS

Multiply inch-pound unit	By	To obtain SI units
feet (ft)	0.3048	meters (m)
miles (mi)	1.609	kilometers (km)
gallons per minute (gal/min) (gpm)	0.06309	liters per second (L/s)

GROUND-WATER QUALITY AND DATA ON WELLS AND SPRINGS IN PENNSYLVANIA, VOLUME II--SUSQUEHANNA AND POTOMAC RIVER BASINS

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ABSTRACT

Volume II presents ground-water quality and physical data on about 1,400 wells and springs in the Susquehanna and Potomac River basins in Pennsylvania. Locations are shown on site-location maps derived from the hydrologic unit map. Codes showing the geologic age and aquifer are provided.

INTRODUCTION

The U.S. Geological Survey, in cooperation with the Bureau of Water Quality Management, Pennsylvania Department of Environmental Resources, began a statewide ground-water study in September 1977. A growing interest in a background appraisal of Pennsylvania's ground-water supply was caused by the Three Mile Island nuclear reactor accident in March 1979 and by recent Federal and State legislation concerning performance standards on protection from ground-water pollution. Results from the cooperative program will aid ground-water users in locating problem areas relative to land-use planning and management and will be useful to well drillers, water-supply engineers, community planners, consultants, and local residents.

Ground-water investigations have been made cooperatively between the U.S. Geological Survey and the Pennsylvania Department of Environmental Resources since 1925. From numerous investigations of the past, data on ground-water quality have been collected from about 4,000 wells and springs in Pennsylvania, and these data are presented in three volumes. This volume presents data from about 1,400 sites in the Susquehanna and Potomac River basins. Two other volumes include ground-water quality in the Ohio and St. Lawrence River basins and the Delaware River basin.

The reports are compilations of data on ground-water quality and much of the physical well data for the period of record. Analyses and well information from both U.S. Geological Survey and Commonwealth files have been entered into the National computer system and are available to potential users. Data for sampled sites include locations and altitudes (elevation of land surface datum), records of water levels, well depths, depth to top of sampled interval (commonly the casing depth), and yields of wells and springs. Except where noted, chemical analyses were done in laboratories of the U.S. Geological Survey through 1979. Analyses done after 1979 will be published in the annual series titled "Water Resources Data for Pennsylvania."

The tabulated wells and springs with analyses of major chemical constituents may have trace-element analyses at the end of each table. No trace-element data will be found for wells or springs that are not also listed with the major ions.

ACKNOWLEDGMENTS

The ground-water data included in this report have been obtained primarily by cooperative water-resources investigations with the Pennsylvania Department of Environmental Resources. The authors are grateful to the Bureau of Water Quality Management for cooperative support, and special thanks are extended to Kathleen Older, William E. Kochanov, Nicholas Molina, and Charles M. Swokel for their efforts in locating many of the county wells on base maps and in supplying missing data to the tables from well schedules. Well sites were plotted on the 1:500,000 scale hydrologic unit base map by use of the U.S. Geological Survey, Ohio District, drum plotter.

WELL-NUMBERING SYSTEM

Records of wells or springs are listed first by county well number, and second, by station identification number (combination of latitude, longitude and sequential number). The number has 15 digits, denoting the degrees, minutes, and seconds of latitude and longitude within a 1-second grid from the southeast corner. Locations within each watershed area (hydrologic unit) can be found on the site-location maps.

Data sites in a hydrologic unit are numbered in each county in the order in which they were inventoried; thus, AD-69 is the 69th data site inventoried in Adams County, Pennsylvania. The county prefixes are not shown on the location maps but are included in the tables. County prefixes used in well numbering in the Susquehanna and Potomac River basins of Pennsylvania are shown in table 1.

Table 1.--County prefixes to Pennsylvania's numbering system (as shown in tables)

AD - Adams	LK - Lackawanna
BD - Bedford	LN - Lancaster
BE - Berks	LB - Lebanon
BA - Blair	LU - Luzerne
BR - Bradford	LY - Lycoming
CA - Cambria	MF - Mifflin
CM - Cameron	MT - Montour
CE - Center	NU - Northumberland
CH - Chester	PE - Perry
CF - Clearfield	PO - Potter
CN - Clinton	SC - Schuylkill
CO - Columbia	SN - Snyder
CU - Cumberland	SO - Somerset
DA - Dauphin	SU - Sullivan
EK - Elk	SQ - Susquehanna
FR - Franklin	TI - Tioga
FU - Fulton	UN - Union
HU - Huntingdon	WN - Wayne
IN - Indiana	WY - Wyoming
JU - Juniata	YO - York

UNITS AND TERMS IN TABLES

The results of chemical analyses and water temperatures are given in metric units. Other tabular data are in inch-pound units.

Chemical concentrations in solution are given in milligrams per liter (mg/L, MG/L) or in micrograms per liter (µg/L, UG/L). Milligrams per liter is the unit of weight (milligrams) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. For concentrations of about 7,000 milligrams per liter or less, the values are equal to parts per million.

Water temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) by the equation: °F = 9/5 (°C) + 32. Temperatures are reported to the nearest 0.1°C.

Specific conductance is a measure of the ability of water to carry an electric current and is expressed in micromhos per centimeter at 25°C. For most waters, the specific conductance multiplied by 0.6 to 0.7 is an approximation of the concentration of dissolved solids (residue at 180°C) in milligrams per liter.

The pH is an expression of the concentration of hydrogen ions in solution (reciprocal) and provides an effective and convenient measure of acidity or basicity of a solution. A pH 7 is considered neutral, less than 7 acidic, and more than 7 basic.

Hardness as calcium and magnesium is reported in milligrams per liter as an equivalent amount of calcium carbonate. It is commonly recognized as a physico-chemical characteristic that prevents the lathering of soap.

Depth of well, depth to top of sample interval, and water-level depth are given in feet with reference to the elevation of land-surface datum (LSD). They are all based on the National Geodetic Vertical Datum of 1929 (NGVD) that represents the average sea level over many years.

CODING OF NAMES OF GEOLOGIC UNITS

The geologic units used in this report are the aquifers (water-bearing formations) from which the water was obtained for the analyses in the chemical tables. The lithologic and hydrologic characteristics of these geologic units are briefly described in the Commonwealth geologic map (1960, and in press, 1980) and in many Pennsylvania Geological Survey publications. The geologic units, age, and codes listed in table 2, are the usage of the Pennsylvania Geological Survey and differ somewhat from the usage of the U.S. Geological Survey. Some names have not been adopted; rank and age designations of some units differ.

Table 2.--Names and codes of geologic units

Erathem, System, or series	Code	Geologic Unit
Quaternary	110QRNR	Quaternary System
Holocene	111ALVM	Alluvium
	111CLVM	Colluvium
Pleistocene	112PLSC	Pleistocene Series
	112OTSH	Outwash
	112DRFT	Drift
	112SFDF	Stratified Drift
	112TILL	Till
Upper Triassic	231DIBS	Diabase dikes and sills (intrusions)
	231HMCK	Hammer Creek Formation
	231GBRG	Gettysburg Shale
	231HDBG	Heidlersburg Member of Gettysburg Shale
	231NOXF	New Oxford Formation
Upper Pennsylvanian	321MNGL	Monongahela Formation
	321CNMG	Conemaugh Formation
	321MNNGU	Mahoning Sandstone - upper member
	321MNNGL	Mahoning Sandstone - lower member
	321BFFL	Buffalo Sandstone Member of Conemaugh Formation
	321BRCK	Brush Creek Limestone
	321LLLN	Llewellyn Formation
Middle Pennsylvanian	324ALGN	Allegheny Group
	324GLRC	Glen Richey Formation
	324FRPR	Freeport Formation
	324KNNG	Kittanning Formation
	324PSVL	Pottsville Formation
Lower Pennsylvanian	327MCCK	Mauch Chunk Formation
Upper Mississippian	331MCCKL	Mauch Chunk Formation - lower member

Table 2.--Names and codes of geologic units (Continued)

Erathem, System or series	Code	Geologic Unit
Lower Mississipian	337POCN	Pocono Formation
	337BRGN	Burgoon Member of Pocono Formation
Upper Devonian	341SSQN	Susquehanna Group
	341OSWY	Oswayo Formation
	341CSKL	Catskill Formation
	341CSKLU	Catskill Formation - upper redbeds member
	341CSKLS	Catskill Formation - upper sandstone member
	341TMRK	Trimmers Rock Formation
	341TRKH	Trimmers Rock and Harrell Formations
	341CMNG	"Chemung" Formation
	341CMNGR	"Chemung" Formation - marine beds
	341LKHV	Lock Haven Formation - formerly "Chemung" Formation
	341BRLR	Brailler Formation
	341RUSH	Rush Formation
	341GRDU	Gardeau Formation
Middle Devonian	344HMLN	Hamilton Group
	344MNNG	Mahantango Formation
	344SMRG	Sherman Ridge Member of Mahantango Formation
	344MRCL	Marcellus Shale
	344ONDG	Onondaga Limestone
Lower Devonian	347ORSK	Oriskany Group
	347RDGL	Ridgeley Sandstone
	347SRVR	Shriver Chert
	347HDBG	Helderberg Group
	347OLDP	Old Port Formation
	347KYSR	Keyser Limestone
Upper Silurian	351TNLY	Tonoloway Limestone
	351WLCK	Wills Creek Formation
	351WLCKU	Wills Creek Formation - upper member
	351WLCKL	Wills Creek Formation - lower member
	351BMBG	Bloomsburg Formation
	351BDGP	Bridgeport Member of Bloomsburg Formation

Table 2.--Names and codes of geologic units (Continued)

Erathem, System, or series	Codes	Geologic Unit
Middle Silurian	354MCKZ	McKenzie Formation
	354MFLN	Mifflintown Formation
	354RSHL	Rose Hill Formation
	354CLNN	Clinton Formation (Group)
Lower Silurian	357TCRR	Tuscarora Sandstone
Ordovician	360PCBM	Peach Bottom Slate (USGS - Precambrian)
Upper Ordovician	361JUNT	Juniata Formation
	361BDEG	Bald Eagle Formation
	361MRBG	Martinsburg Shale
	361MRBGU	Martinsburg Shale - upper member
	361MRBGM	Martinsburg Shale - middle member
	361MRBGC	Martinsburg Shale - C-unit
	361MRBGL	Martinsburg Shale - lower member
	361RDVL	Reedsville Formation
Middle Ordovician	364TRNN	Trenton Limestone
	364ANTS	Antes Formation
	364CBRN	Coburn Formation
	364CBBG	Chambersburg Formation
	364NLMN	Nealmont Formation
	364RDMN	Rodman Limestone Member of Nealmont Formation
	364LDHL	Linden Hall Formation
	364CRTN	Curtin Formation
	364LVLL	Lowville Formation
	364HTTR	Hatter Formation
	364STPL	St. Paul Group
	364HMBG	Hamburg sequence
	364HMBG3	Hamburg sequence - subunit 3
	364HMBG1	Hamburg sequence - subunit 1
	364BKMN	Beekmantown Group
	364ONLN	Ontelaunee Formation
Lower Ordovician	367CNSG	Conestoga Formation
	367PBGS	Pinesburg Station Dolomite (USGS - Middle Ordovician)
	367BLFN	Bellefonte Formation
	367AXMN	Axemann Formation
	367NTTN	Nittany Formation (USGS - Dolomite)
	367EPLR	Epler Formation (USGS - Lower and Middle Ordovician)

Table 2.--Names and codes of geologic units (Continued)

Erathem, System, or series	Codes	Geologic Unit
Upper Cambrian	371GRBG	Gatesburg Formation
	371GRBGU	Gatesburg Formation - upper sandy member
	371MINS	Mines Formation (or Member) of Gatesburg Formation
	371CCCG	Conococheague Group
	371RCLD	Richland Formation
	371SDGV	Shadygrove Formation
	371ZLGR	Zullinger Formation
	371MLBC	Milbach Formation
	371SCFR	Schaefferstown Formation
	371SZCK	Snitz Creek Formation
	371ELBK	Elbrook Formation
Middle Cambrian	374BSPG	Buffalo Springs Formation (USGS - Upper Cambrian)
	374ZKCR	Zooks Corner Formation
Lower Cambrian	377WSBR	Waynesboro Formation
	377LDGR	Ledger Formation (USGS - Dolomite)
	377KZRS	Kinzers Formation (USGS - Lower and Middle Cambrian)
	377VNTG	Vintage Formation (USGS - Dolomite)
	377TMSN	Tomstown Formation
	377ANTM	Antietam Formation
	377HRPR	Harpers Formation
	377CCKS	Chickies Formation
	377HLLM	Hellam Member of Chickies Formation
	377WVRN	Weverton Formation
Paleozoic	300PRCK	Peters Creek Schist (USGS - Lower Cambrian and(or) Precambrian)
	300WSCK	Wissahickon Formation
	300WSCKA	Wissahickon Formation - albite-chlorite schist
	300WSCK4	Wissahickon Formation - subunit 4
	300WSCK3	Wissahickon Formation - subunit 3
	300WSCK2	Wissahickon Formation - subunit 2
	300WSCK1	Wissahickon Formation - subunit 1
	300WSCKV	Wissahickon Formation - metavolcanics
	300MRBG	Marburg Schist (abandoned by USGS)
	300WKFD	Wakefield Marble

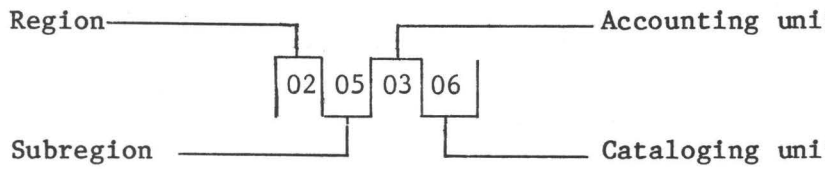
Table 2.--Names and codes of geologic units (Continued)

Erathem, System, or series	Codes	Geologic Unit
Precambrian	400BLMR	Baltimore Gneiss
Unknown age	000GRGS	Granite gneiss
	000GRPC	Graphitic gneiss
	000MBSL	Metabasalt
	000MTRL	Metarhyolite
	000SRPN	Serpentinite

CODING OF HYDROLOGIC UNITS

The hydrologic unit (from the "Hydrologic Unit Map," 1974, U.S. Government Printing Office) is identified by an 8-digit number (fig. 1). The hydrologic unit, as delineated by the Office of Water Data Coordination, has distinct hydrographic boundaries of basins, subbasins, and parts of basins that are basically uniform watershed areas.

The hydrologic unit code is broken down as follows:



Region and Subregion	0205 - Susquehanna River basin
	0207 - Potomac River basin

SITE LOCATION MAPS AND DATA TABLES

The symbols appearing in the figures and data tables that follow are explained in figure 2.

REFERENCES

Pennsylvania Department of Environmental Resources, 1960, Geologic map of Pennsylvania: Pennsylvania Topographic and Geologic Survey.

U.S. Geological Survey, 1974, Hydrologic unit map, 1974, State of Pennsylvania: Prepared in cooperation with the Water Resources Council, U.S. Government Printing Office, 19740-585-467.

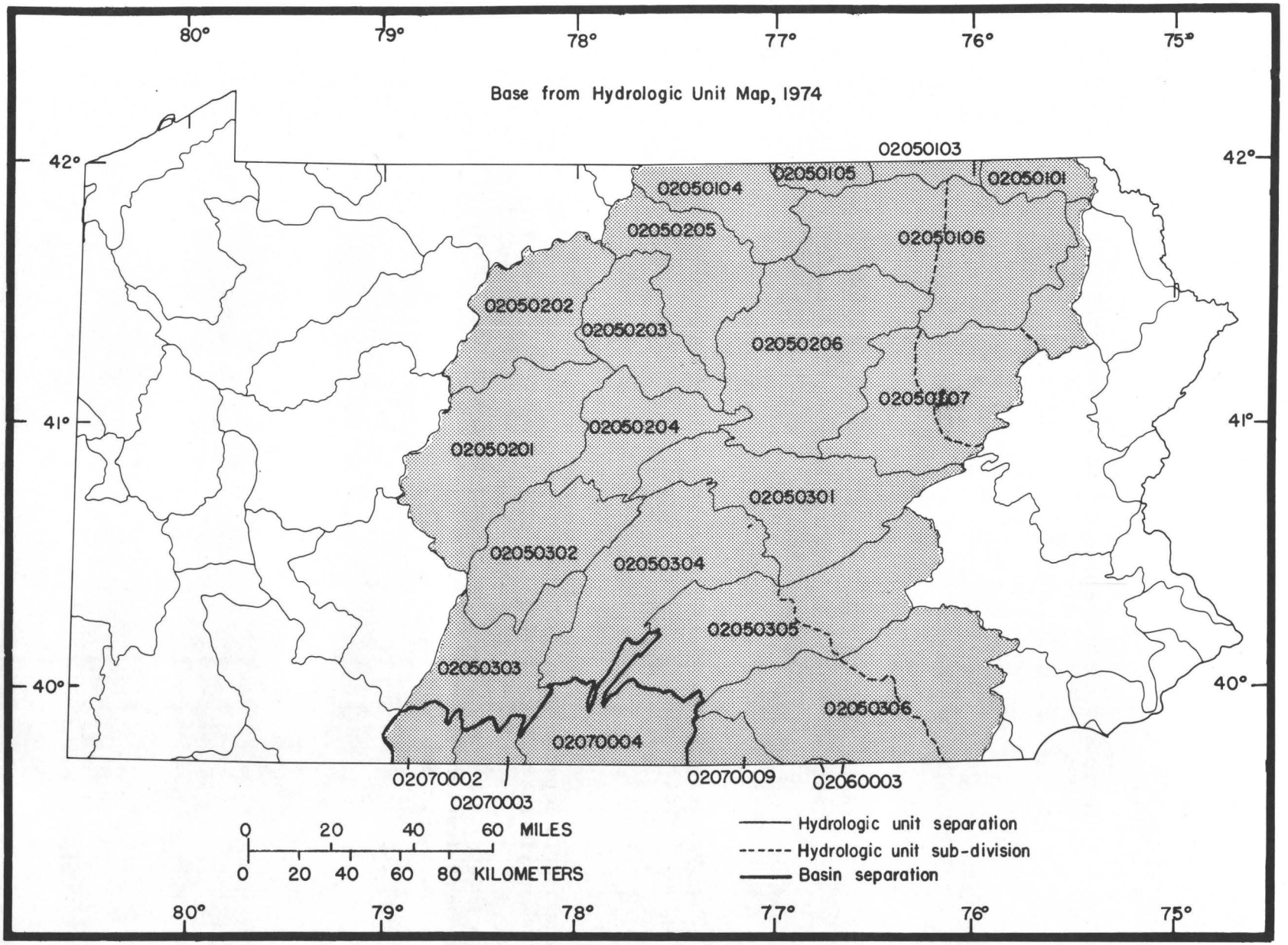


Figure 1.--Hydrologic unit map of the Susquehanna and Potomac River basins.

Figure 2.--Explanation for site-location maps and data tables.

Map Explanation

_____	Hydrologic unit boundary
02050306	Hydrologic unit code (see fig. 1)
•10	Selected well site and county-location number
~•3	Selected spring site and county-location number
~•(3),10	Selected spring and well site and county-location numbers

Table Explanation

S	Spring
1/	Chemical analysis of major ions and trace elements by State agencies
2/	Chemical analysis of major ions and trace elements by private laboratories
*	Chemical analysis of major ions and trace elements with no corresponding data-site location on map
<	Less than value shown
>	More than value shown
--	Not determined
E	Estimated

NOTE: All following maps are based on the Hydrologic Unit Map, 1974.

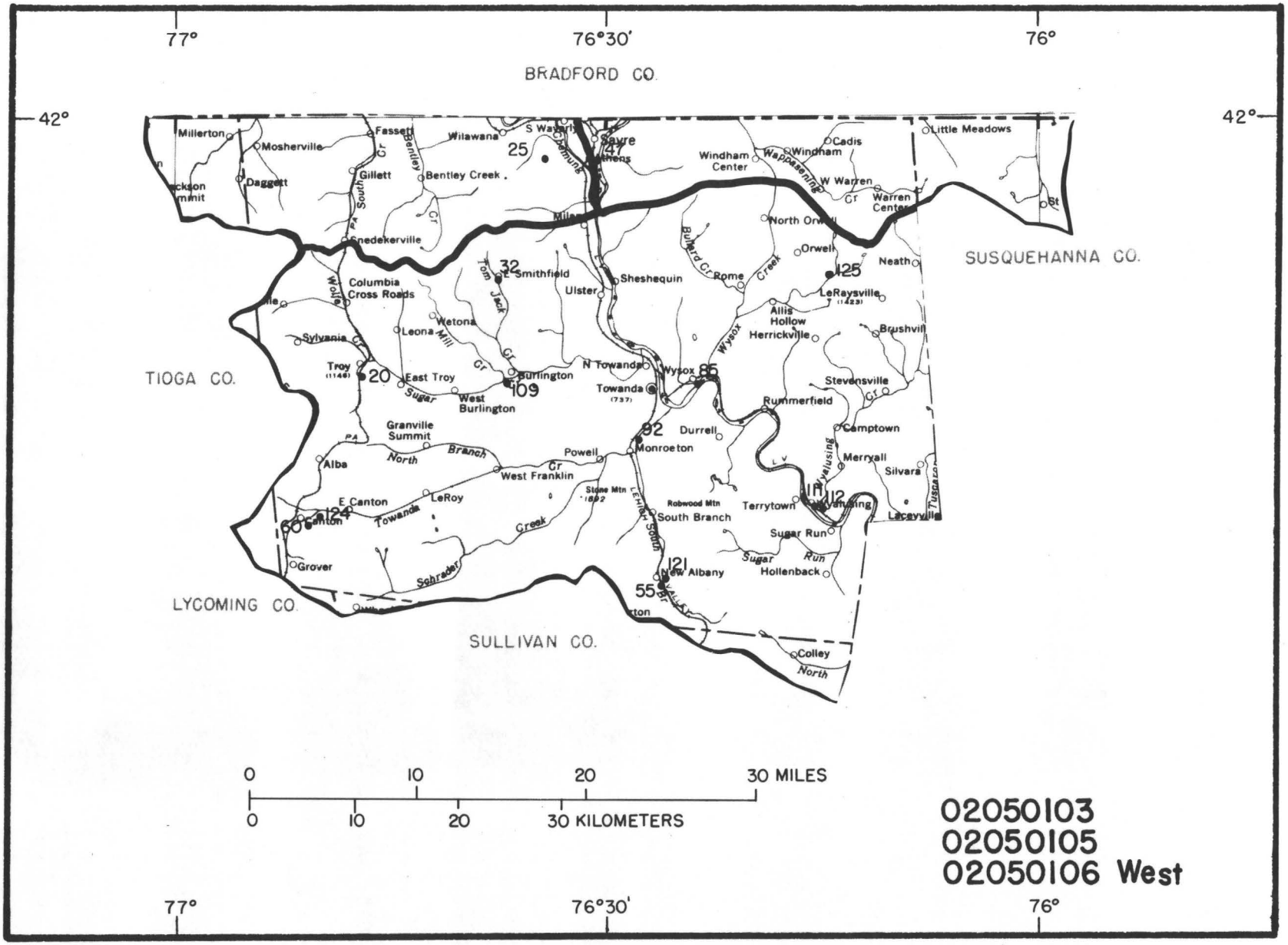


Figure 3.--Site location map for hydrologic units 02050101, 02050103, 02050105, and 02050106.

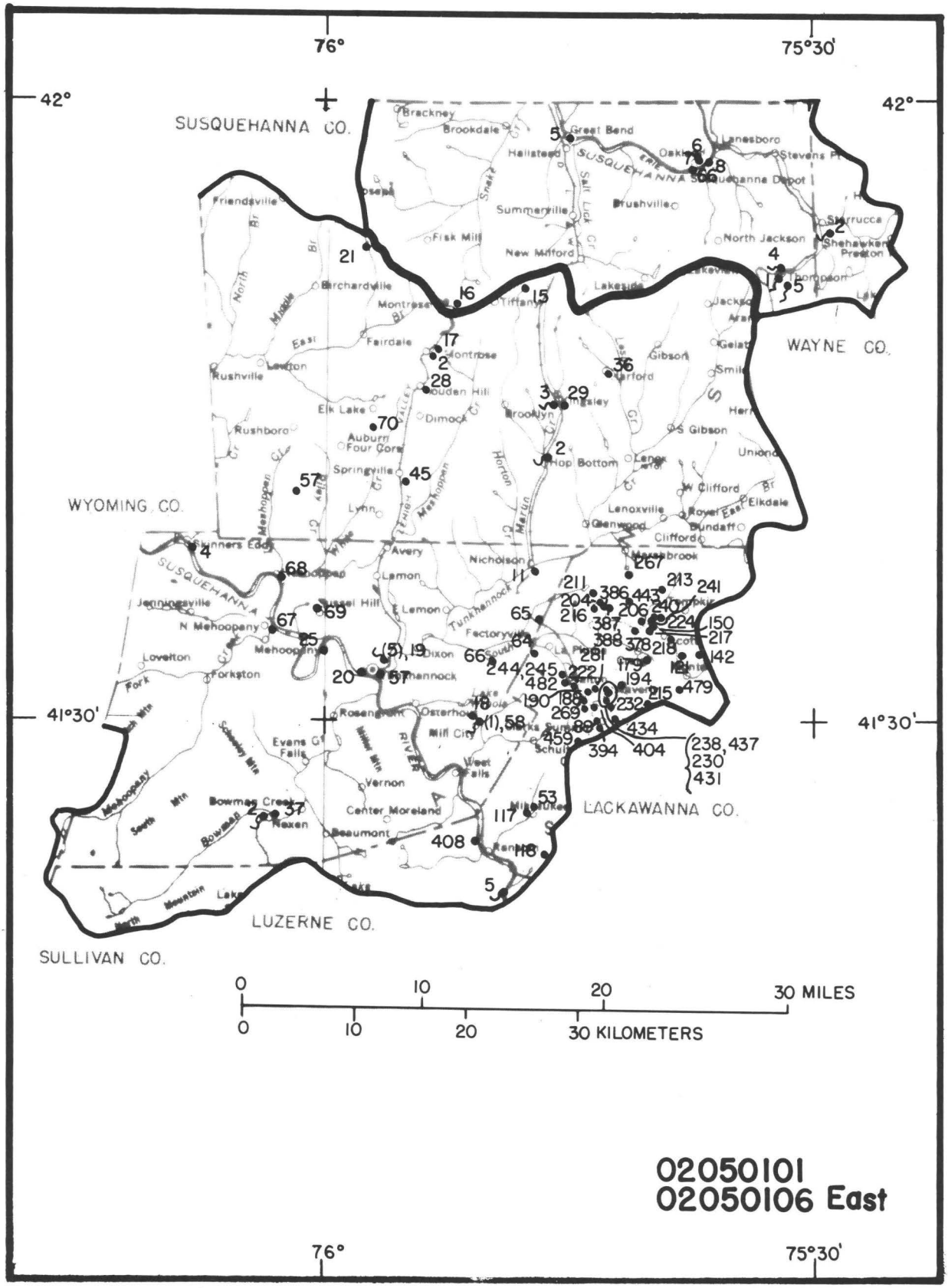


Figure 3.--Site location map for hydrologic units 02050101, 02050103, 02050105, and 02050106--continued.

TABLE 3.--HYDROLOGIC UNITS 02050101, 02050103, 02050105, and 02050106
(follows on next page)

Table 3.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050101, 02050103, 02050105, and 02050106

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				BRADFORD										
BR 20		414649076472201	35-08-12	341CMNG	1140.00	2.00	300	100	130	--	--	--	64	--
32		415145076375301	35-08-14	341CSKL	1220.00	0.00	230	100	85	--	--	--	154	42
47		415757076311101	35-08-09	112PLSC	770.00	27.00	44	44	160	--	--	--	347	101
55		413610076263101	35-08-08	341CMNG	1230.00	20.00	138	20	16	--	--	10.0	87	29
60		413905076510301	35-08-08	112PLSC	1140.00	11.00	175	175	45	--	--	--	150	48
85		414617076240501	35-08-10	341CMNG	710.00	50.00	600	50	50	--	--	12.0	272	86
92		414330076280501	68-07-11	341GRDU	750.00	8.00	117	55	40	--	--	11.0	35	10
109	1/	414625076372401	75-01-16	112OTSH	880.00	0.00	132	132	14	220	6.6	--	80	20
111	1/	413952076155901	74-11-18	112OTSH	685.00	10.00	94	90	600	--	7.6	--	66	--
112	1/	413947076153301	70-03-09	341CSKL	675.00	6.00	175	102	38	--	8.1	--	66	--
121	1/	413554076263801	74-02-07	341CSKL	1231.00	0.00	265	24	48	--	7.0	--	92	--
124	1/	413927076501801	77-09-29	112OTSH	1135.00	15.00	120	105	366	--	7.7	--	150	--
125	1/	415141076140901	76-05-17	341CMNG	1160.00	--	140	--	80	--	7.2	--	90	16
				LACKAWANNA										
LK 53		412558075470901	68-11-21	341CSKL	1140.00	200.00	325	55	12	277	7.4	12.0	127	43
89		413010075425301	70-02-23	341CSKL	1130.00	43.00	300	71	25	763	7.9	26.6	183	--
			70-02-23		1130.00	--	300	--	--	792	7.9	28.8	170	--
			70-02-24		1130.00	--	300	--	--	675	7.3	28.8	209	--
			70-02-24		1130.00	--	300	--	--	656	7.8	8.7	202	--
			70-02-24		1130.00	--	300	--	--	609	7.6	9.0	197	--
			70-02-25		1130.00	43.00	300	43	25	559	7.9	9.2	187	--
			70-02-25		1130.00	--	300	--	--	554	--	--	194	69
			70-06-17		1130.00	--	300	--	--	--	--	--	210	74
117		412550075471301	69-09-18	341CSKL	1140.00	226.00	310	101	6.0	250	8.1	11.0	112	34
118		412348075460501	69-09-30	341CSKL	1600.00	40.00	260	40	10	175	7.7	10.0	68	--
121		413326075372801	68-11-07	341CSKL	1210.00	26.00	178	110	15	259	7.7	10.5	108	36
142		413334075362101	69-07-10	341CSKL	1680.00	306.00	595	306	55	215	7.5	11.0	82	30
150		413441075393701	68-11-08	341CSKL	1100.00	2.00	175	100	15	625	9.5	11.0	32	11
			68-11-14		1100.00	--	175	100	15	671	9.4	11.0	36	12
179		413318075392901	68-10-16	341CSKL	1180.00	3.00	190	100	30	219	8.1	12.0	90	30
188	1/	413114075434701	74-04-15	341CSKL	1100.00	60.00	175	23	12	--	6.6	--	80	--
190		413145075432101	68-10-30	341CSKL	1160.00	88.00	300	23	37	304	7.8	12.0	110	35
194		413203075411701	68-10-30	341CSKL	1350.00	147.00	425	50	50	251	7.7	12.0	106	35
204		413552075425301	69-07-11	341CSKL	1230.00	78.00	215	78	20	355	7.7	12.0	148	49
206		413505075400801	69-06-25	341CSKL	1290.00	166.00	230	166	8.0	260	7.9	11.0	107	33
211		413627075431001	68-10-30	341CSKL	1140.00	30.00	247	36	9.0	278	7.7	13.0	121	40
213		413637075385701	68-10-15	341CSKL	1305.00	104.00	195	104	4.0	289	7.7	12.3	128	44
215		413052075393401	68-10-17	341CSKL	1600.00	125.00	182	125	25	268	7.6	11.7	120	39
216		413550075425701	68-10-17	341CSKL	1260.00	58.00	150	58	10	294	7.4	13.0	122	42
217		413439075393701	69-01-02	341CSKL	1100.00	0.00	105	30	40	174	6.5	10.0	74	--
218		413413075382001	68-11-22	341CSKL	1100.00	5.00	140	106	10	246	7.9	22.7	100	35
222		413202075441701	69-02-03	341CSKL	980.00	0.00	381	285	125	355	8.1	8.7	42	12
			69-02-11		980.00	--	381	285	--	670	8.2	--	44	15
			69-02-11		980.00	--	381	285	--	645	8.2	10.2	32	10
224		413519075384101	69-02-04	341CSKL	1330.00	213.00	520	213	100	179	6.8	8.7	78	--
230		413127075421701	69-03-25	341CSKL	1260.00	95.00	600	200	175	310	7.5	10.4	104	--
232		413100075420401	70-09-10	341CSKL	1190.00	16.00	576	20	21	535	7.6	10.7	110	36
			70-09-10		1190.00	--	576	--	--	398	7.8	9.7	127	41
			70-09-10		1190.00	--	576	--	--	535	7.6	10.7	110	36
			70-09-10		1190.00	--	576	--	--	448	7.8	10.2	127	41
238		413138075422601	69-03-25	341CSKL	1260.00	50.00	320	80	57	270	7.1	10.7	118	39
240		413510075392801	66-02-09	111ALVM	1070.00	7.00	125	50	302	105	6.3	--	52	17
			66-02-11		1070.00	7.00	125	50	302	--	6.4	--	56	16
241		413458075393001	66-02-07	341CSKL	1070.00	0.00	323	80	230	1600	7.9	--	190	53
244		413235075450701	62-08-10	341CSKL	1160.00	185.00	575	185	4.0	6100	8.0	11.2	264	--
			69-01-08		1160.00	185.00	575	185	4.0	257	7.9	11.4	102	--
245		413232075450301	68-11-19	341CSKL	1200.00	300.00	565	300	10	308	7.7	11.5	112	38
267		413721075405001	69-11-07	341CSKL	1380.00	114.00	350	167	7.0	449	7.9	9.9	115	--
269		413050075434101	69-10-23	341CSKL	1100.00	57.00	285	57	13	352	7.9	9.5	42	--
281		413147075430701	69-11-13	341CSKL	1095.00	12.00	240	62	34	349	7.8	9.4	134	--
378		413444075402301	70-04-07	341CSKL	1170.00	116.00	255	--	100	319	7.2	--	110	38
386		413552075422301	70-03-18	341CSKL	1310.00	155.00	450	--	46	340	7.4	--	162	59
387		413549075420701	70-04-15	341CSKL	1290.00	180.00	545	81	160	353	7.3	--	119	44
388		413543075422201	70-04-15	341CSKL	1280.00	151.00	500	30	223	330	7.2	11.2	141	43
			70-04-22		1280.00	--	500	--	--	286	8.0	10.2	105	34
			70-05-01		1280.00	--	500	--	--	304	7.4	10.2	114	38
394		413002075424701	74-03-11	341CSKL	1220.00	57.00	620	90	110	--	7.2	--	150	--

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											BRADFORD				
--	--	--	--	232	2.0	620	--	--	.00	--	--	--	--	--	--
12	--	30	--	193	8.0	38	--	--	.10	--	--	310	--	225	--
23	21	22	1.1	278	60	41	--	16	49	--	--	90	--	467	449
3.6	--	87	--	163	2.0	100	--	--	.30	--	--	110	--	302	--
7.6	--	5.0	--	110	38	12	--	--	19	--	--	100	--	184	--
14	--	322	--	204	15	560	--	--	.50	--	--	210	--	1099	--
2.4	210	214	3.5	259	1.0	168	--	--	.20	--	--	3300	--	580	--
7.5	16	18	1.6	87	8.0	28	.2	15	1.2	--	.67	12900	2360	172	156
--	--	--	--	61	--	13	.1	--	.00	--	.03	290	--	135	--
--	--	--	--	181	--	7.5	.2	--	.00	--	.06	90	--	190	--
--	--	--	--	161	--	39	.1	--	11	--	.09	210	100	238	--
--	9.1	--	--	109	37	21	.0	--	13	--	.03	830	10	218	--
12	1.5	--	--	68	14	12	.2	--	4.2	--	.09	220	70	118	--
											LACKAWANNA				
4.8	8.7	--	--	146	15	4.9	--	--	5.7	--	--	20	130	--	164
--	--	--	--	134	--	131	--	--	--	--	--	--	--	--	--
--	--	--	--	136	--	127	--	--	--	--	--	--	--	--	--
--	--	--	--	114	--	118	--	--	--	--	--	--	--	--	--
--	--	--	--	108	--	104	--	--	--	--	--	--	--	--	--
--	--	--	--	142	--	82	--	--	--	--	--	--	--	--	--
--	--	--	--	108	--	83	--	--	--	--	--	--	--	--	--
6.6	31	37	5.8	110	--	87	--	--	9.2	--	--	--	--	--	--
6.5	--	--	--	--	15	--	--	--	--	--	--	10	0	--	--
6.6	--	--	--	140	--	3.6	--	--	--	--	--	60	1200	--	--
--	--	--	--	--	--	--	--	--	--	--	--	2600	100	--	--
4.4	13	14	1.2	158	6.7	1.6	--	8.3	.30	--	--	170	40	--	150
1.7	12	--	--	93	27	1.3	--	--	2.9	--	--	530	30	--	132
1.2	95	99	3.6	39	--	--	--	--	--	--	--	720	10	--	--
1.3	103	107	3.7	25	1.0	179	.1	.7	.10	--	.00	240	10	--	325
3.7	9.0	10	1.1	139	3.9	2.0	.3	10	.10	--	--	1300	260	--	130
--	--	10	--	54	22	20	.0	--	6.2	--	.18	210	20	132	--
4.8	--	22	--	179	3.9	2.7	--	--	.40	--	--	20	40	167	--
4.4	7.4	--	--	132	8.2	2.5	--	--	2.0	--	--	0	0	--	134
6.2	--	--	--	91	--	40	--	--	--	--	--	0	0	--	--
6.0	--	--	--	126	--	3.6	--	--	--	--	--	30	10	--	--
5.1	11	--	--	166	7.7	1.1	--	--	.70	--	--	10	10	--	157
4.5	8.7	--	--	150	13	3.0	.3	9.3	8.9	--	--	20	--	--	166
5.6	9.2	--	--	164	3.9	.0	.3	8.6	1.4	--	--	30	--	--	149
4.3	9.1	--	--	128	11	14	.2	9.6	7.3	--	--	20	--	--	161
--	--	--	--	73	17	6.4	--	--	--	--	--	150	--	--	--
2.9	18	--	--	150	9.1	4.5	--	--	1.0	--	--	170	170	--	153
3.0	57	60	3.0	161	6.9	32	--	9.2	.20	--	--	800	40	--	206
1.5	130	137	6.7	168	3.2	132	.2	8.9	.40	--	--	700	40	--	382
1.6	--	--	--	168	--	126	--	--	--	--	--	1100	50	--	--
--	6.2	--	--	75	24	3.2	--	--	1.5	--	--	500	--	--	--
--	23	--	--	172	7.7	5.8	--	--	.00	--	--	1100	--	--	--
5.0	83	--	--	160	26	89	.2	9.2	9.8	--	--	600	260	--	338
6.0	29	--	--	152	32	21	.1	9.5	8.0	--	--	90	60	--	222
5.0	83	--	--	160	26	89	.2	9.2	9.8	--	--	600	260	--	338
6.0	36	--	--	154	2.5	31	--	--	11	--	--	500	280	--	--
5.0	8.7	--	--	133	15	7.2	--	--	3.4	--	--	50	0	--	153
2.3	--	--	--	44	--	30	--	--	--	--	--	--	--	79	--
3.9	--	--	--	48	--	4.0	--	--	--	--	--	40	0	84	--
14	--	--	--	141	--	570	--	--	--	--	--	80	150	1150	--
--	--	--	--	96	13	1900	--	--	8.8	--	--	--	--	--	--
--	7.8	--	--	110	11	15	--	--	3.7	--	--	3400	--	--	--
4.1	19	--	--	173	4.8	4.1	--	--	1.2	--	--	0	0	--	166
--	--	--	--	238	--	.6	--	--	--	--	--	410	190	--	--
--	--	--	--	183	--	20	--	--	--	--	--	0	0	--	--
--	--	--	--	219	--	1.8	--	--	--	--	--	130	80	--	--
4.2	--	--	--	112	--	30	--	--	13	--	--	100	--	--	--
3.4	--	--	--	206	24	5.0	--	--	.20	--	--	50	--	185	--
2.4	--	--	--	224	35	8.0	--	--	.40	--	--	80	--	202	--
8.0	14	15	1.4	196	10	1.1	.1	8.9	1.9	--	.01	90	--	--	185
4.7	15	18	2.9	159	8.9	5.7	.1	12	.20	--	.01	--	--	--	163
4.5	16	19	2.6	173	9.2	6.3	.2	11	.90	--	.01	140	90	--	174
--	--	57	--	137	23	95	.1	--	7.5	--	.12	60	10	328	--

Table 3.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050101, 02050103, 02050105, and 02050106--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				LACKAWANNA										
LK 404		413057075425201	70-09-11	341CSKL	1110.00	7.00	235	123	24	396	8.0	10.0	83	26
431	1/	413113075421601	75-01-27	341CSKL	1270.00	75.00	600	61	50	--	7.7	--	170	--
434		413020075414501	30-09-17	341CSKL	1400.00	50.00	260	50	--	--	--	11.0	160	50
437		413138075422501	30-09-17	341CSKL	1260.00	50.00	450	100	75	--	--	12.0	130	41
			69-08-08		1260.00	50.00	450	100	--	310	7.8	11.0	119	39
			74-04-17		1260.00	50.00	450	100	75	--	7.0	--	120	--
443		413606075405801	30-09-17	341CSKL	1365.00	--	500	250	18	--	--	11.0	110	37
459		412857075442001	30-09-17	341CSKL	1340.00	56.00	457	56	105	--	--	11.0	100	34
	1/		74-04-09		1340.00	56.00	457	--	105	--	7.3	--	130	--
479	1/	413149075373701	74-04-10	341CSKL	1620.00	40.00	532	40	60	--	7.0	--	130	--
482	1/	413214075445901	71-04-12	341CSKL	1210.00	--	620	--	70	--	7.6	--	160	--
				LUZERNE										
LU 119		410950076054601	66-12-22	321LLLN	942.00	--	901	--	--	--	8.1	9.4	120	40
			67-01-05		942.00	--	901	--	--	--	7.9	9.4	230	72
			67-01-06		942.00	--	901	--	--	--	--	9.4	210	61
			67-02-18		942.00	--	901	--	--	--	--	11.0	2000	47
			67-02-18		942.00	--	901	--	--	--	--	--	3000	472
			67-02-18		942.00	--	901	--	--	--	--	11.0	3000	474
			67-03-10		942.00	--	901	--	--	5290	2.4	11.6	3000	523
			67-03-10		942.00	--	901	--	--	--	--	11.0	3000	520
			67-03-10		942.00	--	901	--	--	--	--	12.0	3000	521
			67-03-10		942.00	342.00	901	901	10	--	--	--	--	--
408	1/	412428075503601	76-03-03	341CSKL	767.00	107.00	463	42	58	--	7.6	--	82	--
				SUSQUEHANNA										
SQ 1	S	415145075311501	30-07-21	112OTSH	1730.00	0.00	--	--	93	--	--	--	--	--
2	S	414257075460701	30-07-21	341CSKL	910.00	0.00	--	--	2.4	--	--	--	--	--
2		414749075533201	55-05-10	341CSKL	1645.00	40.00	505	40	35	--	7.8	11.0	96	28
3	S	413500075453501	30-07-21	341CSKL	--	0.00	--	--	10	--	--	9.4	42	20
4	S 1/	415203075311801	76-03-03	112DRFT	1820.00	0.00	--	--	15	--	6.4	--	33	--
5		415819075444401	30-07-21	112OTSH	885.00	--	155	155	45	--	--	--	130	38
5	S 1/	415122075304201	76-03-03	112DRFT	1780.00	0.00	--	--	4.0	--	6.6	--	20	--
6	1/	415725075363001	73-10-17	341CSKL	1200.00	--	280	--	20	--	6.8	--	44	12
7	1/	415722075362802	73-10-17	341CMNG	1160.00	--	500	--	35	300	7.7	--	87	20
8		415711075354501	30-07-21	112OTSH	910.00	--	22	--	--	--	--	11.0	36	10
	1/		73-10-17		910.00	--	22	--	90	800	7.7	--	34	6.4
15		415107075473701	30-07-22	341CSKL	1550.00	60.00	125	--	--	--	--	--	50	12
16		415016075515201	30-07-22	341CSKL	1640.00	25.00	165	25	30	--	--	--	106	18
17		414755075533001	30-07-22	341CSKL	1650.00	60.00	417	60	20	--	--	11.0	98	26
21		415302075575101	30-07-22	341CSKL	1560.00	10.00	90	--	--	--	--	--	103	26
28		414608075540001	30-07-22	341SSQN	1550.00	--	598	--	40	--	--	11.0	106	28
29		414528075451301	30-07-21	341CSKL	950.00	--	198	2.0	10	--	--	10.0	83	20
36		414701075421001	30-07-21	341CSKL	1280.00	5.00	175	5.0	13	--	--	--	123	35
45		414148075550901	30-07-22	341CSKL	--	3.00	4.0	3.0	--	--	--	10.0	51	16
57		414120076021501	30-07-22	341SSQN	1350.00	60.00	160	60	8.0	--	--	--	170	50
66	1/	415658075365201	73-10-17	341CMNG	1160.00	--	700	--	21	350	7.2	--	63	18
70	1/	414420075572401	73-01-11	341CSKL	1405.00	--	500	65	45	--	7.5	--	77	--
				WAYNE										
WN 2	S	415350075280001	30-09-12	112DRFT	1320.00	0.00	--	--	--	--	--	12.0	87	32
				WYOMING										
WY 1	S	413012075502701	30-09-17	112SFDF	--	0.00	--	--	--	--	--	--	--	--
2	S	412503076040001	30-09-16	112OTSH	1005.00	0.00	--	--	--	--	--	--	34	11
4		413829076084901	30-07-22	341SSQN	647.00	7.00	122	96	3.0	--	--	--	139	41
5	S 1/	413304075563101	74-03-14	341CSKL	780.00	0.00	--	--	3.5	--	7.0	--	83	--
11		413730075465501	30-07-21	341CSKL	730.00	--	150	--	--	--	--	12.0	123	39
18		413030075504501	30-07-17	341CSKL	--	72.00	148	72	19	--	--	--	101	28
19		413300075563001	30-07-22	112SFDF	--	18.00	60	60	--	--	--	--	61	19
20	1/	413237075574701	75-01-27	341CSKL	740.00	100.00	415	--	120	--	7.1	--	160	--
25		413340076002001	30-07-21	341CSKL	--	22.00	144	44	33	--	--	12.0	154	46
37		412533076033201	30-09-16	341CSKL	1000.00	40.00	385	40	300	--	--	11.0	130	43
57	1/	413230075564101	74-03-14	341CSKL	615.00	30.00	344	--	42	--	7.6	--	110	--
58	1/	413012075502801	74-04-08	341CSKL	980.00	30.00	285	44	50	--	6.1	--	30	--
64		413337075465701	69-03-26	341CSKL	910.00	--	195	--	--	253	7.7	--	77	--
			70-08-19		910.00	81.00	195	120	14	--	--	--	--	--
65		413509075464301	70-03-17	341CSKL	910.00	11.00	183	43	200	278	7.7	10.1	94	--
66		413305075493501	70-08-19	341CSKL	785.00	0.00	1000	--	3.0	912	8.3	13.1	33	10
67	1/	413434076034701	68-06-21	341CSKL	640.00	45.00	160	35	11	--	6.0	--	19	--
	1/		74-01-16		640.00	--	160	--	--	--	7.6	--	100	--
68	1/	413649076030201	74-01-16	341CSKLL	640.00	0.00	315	108	90	--	6.8	--	46	--
69	1/	413537076004901	74-01-24	341CSKLL	1060.00	73.00	438	63	9.0	--	7.9	--	100	--

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											LACKAWANNA				
4.3	58	--	--	216	11	14	.2	11	.00	--	--	70	60	--	231
--	--	--	--	137	32	20	.1	--	6.6	--	.12	100	10	230	--
9.0	13	15	2.4	197	11	7.0	--	11	2.5	--	--	40	--	199	203
5.6	--	10	--	140	9.0	7.0	--	--	16	--	--	--	--	--	--
5.2	--	--	--	134	--	8.4	--	--	--	--	--	170	0	--	--
--	--	10	--	126	12	14	.1	--	6.6	--	.09	60	20	168	--
5.0	15	17	2.2	168	4.5	2.2	--	12	1.5	--	--	20	--	162	162
4.4	--	6.0	--	128	5.0	2.0	--	--	2.8	--	--	--	--	--	--
--	--	--	--	120	15	15	.1	--	9.3	--	.03	40	20	182	--
--	--	--	--	102	18	20	.1	--	11	--	.31	220	40	174	--
--	128	--	--	144	8.5	264	.0	--	5.8	--	.06	70	70	590	--
											LUZERNE				
5.0	3.7	6.2	2.5	77	51	--	--	--	--	--	--	20	--	--	--
12	6.4	24	18	103	125	--	--	--	--	--	--	180	--	--	--
14	6.8	26	19	--	--	--	--	--	--	--	--	--	150	--	--
448	--	--	--	--	--	--	--	.9	--	--	--	--	--	--	--
432	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
440	8.8	13	3.8	--	4760	--	--	--	--	--	--	750000	--	--	--
406	7.6	13	5.4	1150	4700	--	--	--	--	--	--	731000	87000	--	--
404	7.8	14	6.0	--	--	--	--	--	--	--	--	--	86000	--	--
404	7.7	13	5.5	--	--	--	--	--	--	--	--	--	86000	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	26	--	--	113	15	21	.2	--	2.5	--	.06	10	40	174	--
											SUSQUEHANNA				
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6.4	5.8	6.7	.9	90	16	8.3	.1	11	1.0	--	--	120	10	136	122
--	--	7.0	--	29	28	2.0	--	--	1.5	--	--	--	--	70	--
--	16	--	--	40	16	15	.0	--	.90	--	.06	30	20	100	--
7.5	--	--	.8	159	4.8	5.0	--	22	.10	--	--	100	--	162	--
--	--	9.4	--	24	16	3.0	.0	--	.50	--	.31	50	10	68	--
2.3	3.6	4.8	1.2	38	15	5.0	.1	23	1.5	--	.12	110	30	75	84
9.0	24	27	2.7	161	12	5.0	.3	10	.50	--	.12	80	60	170	164
2.7	3.1	3.5	.4	26	14	1.9	--	10	.90	--	--	40	--	57	56
4.5	150	174	24	278	9.0	113	.8	10	1.6	--	.61	120	50	470	458
--	--	8.0	--	55	9.0	8.0	--	--	2.2	--	--	--	--	--	--
--	--	15	--	126	8.1	8.0	--	--	4.2	--	--	--	--	--	--
8.0	--	6.0	--	102	12	4.0	--	--	4.2	--	--	--	--	--	--
9.2	13	15	1.8	116	24	8.0	--	13	1.5	--	--	3710	--	151	157
88	--	9.0	--	127	4.0	4.0	--	--	3.3	--	--	--	--	--	--
--	--	23	--	110	26	6.0	--	--	.10	--	--	--	--	--	--
8.6	--	7.0	--	153	10	1.0	--	--	.50	--	--	--	--	--	--
--	--	11	--	55	24	1.0	--	--	4.3	--	--	--	--	--	--
12	--	15	--	218	12	1.0	--	--	.10	--	--	--	--	--	--
4.5	--	53	--	194	15	2.0	.2	12	1.5	--	.12	100	10	210	--
--	--	21	--	134	5.0	4.0	.4	--	1.5	--	.06	60	0	136	--
											WAYNE				
--	--	7.0	--	21	74	1.0	--	--	8.0	--	--	--	--	--	--
											WYOMING				
--	--	--	--	44	6.0	3.0	--	--	--	--	--	--	--	--	--
--	--	6.0	--	31	10	4.0	--	--	7.1	--	--	--	--	--	--
8.8	165	167	1.8	173	5.3	254	--	23	.10	--	--	320	--	589	585
--	--	9.4	--	44	19	24	.1	--	16	--	.15	50	10	136	--
6.3	--	32	--	115	26	42	--	--	1.0	--	--	--	--	--	--
7.5	--	3.0	--	63	16	8.0	--	--	34	--	--	--	--	--	--
3.3	14	15	1.1	76	21	5.0	--	10	2.5	--	--	20	--	111	113
--	--	14	--	134	33	31	.1	--	8.4	--	.06	60	40	233	--
9.5	23	25	1.7	183	12	28	--	16	.80	--	--	40	--	223	227
5.6	--	44	--	102	5.0	92	--	--	.50	--	--	--	--	--	--
--	--	39	--	137	17	39	.1	--	12	--	.15	60	90	241	--
--	--	6.0	--	21	9.0	10	.1	--	2.6	--	.09	50	20	50	--
--	22	--	--	132	2.4	11	--	--	.10	--	--	200	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	130	60	--	--
2.0	205	210	5.0	222	1.2	230	.8	8.3	.40	--	--	50	90	--	572
--	--	12	--	6	6.0	23	.1	--	1.4	--	.06	410	210	62	--
--	--	29	--	177	6.0	10	.1	--	2.4	--	--	40	100	186	--
--	--	26	--	76	6.0	24	.2	--	.40	--	.06	190	60	136	--
--	--	45	--	187	5.5	28	.2	--	1.8	--	.71	140	50	241	--

Table 3.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050101, 02050103, 02050105, and 02050106--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			BRADFORD										
BR 109 1/	414625076372401	1120TSH	132	132	14	220	--	10	3	50	--	--	--
121 1/	413554076263801	341CSKL	265	24	48	--	--	--	--	--	--	--	--
124 1/	413927076501801	1120TSH	120	105	366	--	--	--	--	50	--	--	--
125 1/	415141076140901	341CMNG	140	--	80	--	--	--	--	--	--	--	--
			LACKAWANNA										
LK 53	412558075470901	341CSKL	325	55	12	277	--	--	--	--	--	--	--
89	413010075425301	341CSKL	300	--	--	--	--	--	--	--	--	--	--
117	412550075471301	341CSKL	310	101	6.0	250	--	--	--	--	--	--	--
118	412348075460501	341CSKL	260	40	10	175	--	150	--	--	--	--	--
150	413441075393701	341CSKL	175	100	15	671	--	--	--	--	--	--	--
179	413318075392901	341CSKL	190	100	30	219	--	10	--	--	--	--	--
188 1/	413114075434701	341CSKL	175	23	12	--	--	--	--	50	--	--	--
218	413413075382001	341CSKL	140	106	10	246	--	--	--	--	--	--	--
222	413202075441701	341CSKL	381	285	125	355	--	0	--	--	--	--	--
			381	285	--	670	--	0	--	--	--	--	--
232	413100075420401	341CSKL	576	20	21	535	--	0	--	--	--	--	--
			576	--	--	398	--	0	--	--	--	--	--
			576	--	--	535	--	0	--	--	--	--	--
245	413232075450301	341CSKL	565	300	10	308	--	--	--	--	--	--	--
267	413721075405001	341CSKL	350	167	7.0	449	--	20	--	--	--	--	--
269	413050075434101	341CSKL	285	57	13	352	--	0	--	--	--	--	--
281	413147075430701	341CSKL	240	62	34	349	--	100	--	--	--	--	--
394 1/	413002075424701	341CSKL	620	90	110	--	--	--	--	100	--	--	--
404	413057075425201	341CSKL	235	123	24	396	--	0	--	--	--	--	--
431 1/	413113075421601	341CSKL	600	61	50	--	--	--	--	500	--	--	--
437	413138075422501	341CSKL	450	100	75	--	--	--	--	--	--	--	--
459	412857075442001	341CSKL	457	--	105	--	--	--	--	--	--	--	--
479 1/	413149075373701	341CSKL	532	40	60	--	--	--	--	500	--	--	--
482 1/	413214075445901	341CSKL	620	--	70	--	--	--	--	2500	--	--	--
			LUZERNE										
LU 119	410950076054601	321LLLN	901	--	--	--	--	100	--	--	--	--	--
			901	--	--	--	--	500	--	--	--	--	--
			901	--	--	--	--	7000	--	--	--	--	--
			901	--	--	5290	--	1200	--	--	--	--	--
			901	--	--	--	--	--	--	--	--	--	--
			901	--	--	--	--	--	--	--	--	--	--
408 1/	412428075503601	341CSKL	463	42	58	--	--	--	--	50	--	--	--
			SUSQUEHANNA										
SQ 2	414749075533201	341CSKL	505	40	35	--	--	0	--	--	--	--	--
4 S 1/	415203075311801	112DRFT	--	--	15	--	--	10	--	--	--	--	--
5 S 1/	415122075304201	112DRFT	--	--	4.0	--	--	10	--	--	--	--	--
6 1/	415725075363001	341CSKL	280	--	20	--	--	450	--	100	--	--	25
7 1/	415722075362802	341CMNG	500	--	35	300	--	180	5	100	--	--	25
8	415711075354501	1120TSH	22	--	90	800	--	460	--	100	--	--	250
66 1/	415658075365201	341CMNG	700	--	21	350	--	140	--	100	--	--	250
			WYOMING										
WY 65	413509075464301	341CSKL	183	43	200	278	--	0	--	--	--	--	--
66	413305075493501	341CSKL	1000	--	3.0	912	--	0	--	--	--	--	--

CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	TIN, DIS-SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI-TANIUM, DIS-SOLVED (UG/L AS TI)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
												BRADFORD			
3	30	8	10	5	50	.0	--	10	--	1	--	--	--	--	20
3	10	--	60	0	--	.5	--	10	--	--	--	--	--	--	20
5	3	--	10	--	--	--	--	--	--	--	--	--	--	--	10
0	0	--	60	0	--	.0	--	--	--	--	--	--	--	--	40
												LACKAWANNA			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	1800	0	--	--	--	--	--	--	--	--	--	--	3800
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0	10	--	--	0	--	.0	--	--	--	0	--	--	--	--	60
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	50
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	20
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	340
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	10
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	20
0	3	--	30	0	--	.0	--	--	--	1	--	--	--	--	40
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0	0	--	10	0	--	.0	--	50	--	--	--	--	--	--	30
0	0	--	30	0	--	.0	--	10	--	1	--	--	--	--	220
0	--	--	20	5	--	.0	--	500	--	1	--	--	--	--	50
0	0	--	50	5	--	.5	--	--	--	2	--	--	--	--	120
2	10	--	20	8	--	1.5	--	10	--	2	--	--	--	--	300
												LUZERNE			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	7000
--	--	--	--	--	--	--	--	--	--	--	4700	--	--	--	18000
--	--	--	10	--	--	--	--	180	--	--	4800	--	--	--	7800
0	10	--	90	5	--	.0	--	4	--	0	--	--	--	--	10
												SUSQUEHANNA			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0	0	--	20	0	--	--	--	20	--	--	--	--	--	--	5
0	0	--	60	5	--	--	--	--	--	--	--	--	--	--	0
3	20	70	40	--	50	.0	--	40	--	5	--	--	--	--	60
0	8	60	40	0	50	.2	--	70	--	0	--	--	--	--	150
3	10	110	40	--	50	.2	--	80	--	3	--	--	--	--	90
3	10	80	40	--	50	.5	--	70	--	2	--	--	--	--	70
												WYOMING			
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	20

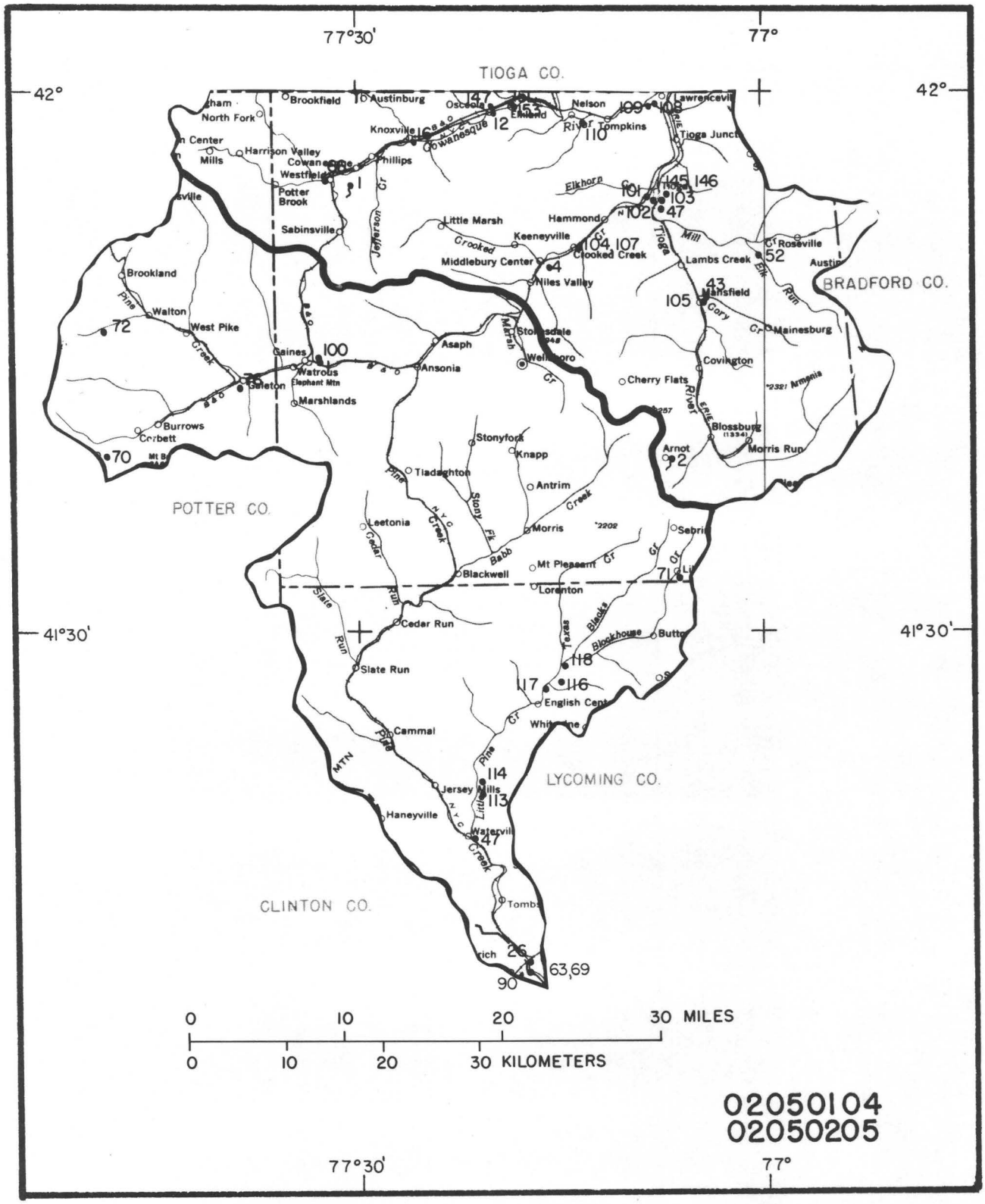


Figure 4.--Site location map for hydrologic units 02050104 and 02050205.

TABLE 4.--HYDROLOGIC UNITS 02050104 and 02050205
(follows on next page)

Table 4.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050104 and 02050205

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CLINTON										
CN 26	411149077173701	34-07-31	112OTSH	540.00	0.00	16	16	33	--	--	--	74	20
63	411117077174201	77-03-16	112ALVM	551.00	25.00	48	--	108	250	7.0	12.0	110	34
69 1/	411120077174202	73-03-30	112OTSH	550.00	19.00	36	20	180	220	6.4	9.0	81	30
90	411046077181501	77-03-15	344MNNG	555.00	--	220	153	--	445	6.7	12.5	190	56
			LYCOMING										
LY 47	411843077215101	68-02-26	341CSKL	620.00	--	85	60	11	417	8.2	--	140	41
113	412110077211501	67-10-19	341CSKL	720.00	50.00	109	74	30	242	8.1	9.0	88	28
		68-05-01		720.00	--	109	--	--	257	7.9	10.0	91	30
114	412150077211701	68-05-01	341CSKL	760.00	60.00	131	60	30	120	7.1	13.0	46	12
116	412725077153201	68-08-06	110QRNR	960.00	6.00	43	--	--	71	7.5	--	27	8.0
117	412701077164501	68-08-06	112OTSH	960.00	11.00	30	--	--	23	6.8	--	4	1.1
118	412822077150501	68-08-06	112OTSH	940.00	38.00	56	--	--	59	7.1	--	19	5.8
			POTTER										
PO 70	413945077492201	35-08-29	337POCN	2285.00	12.00	169	25	40	--	--	--	15	--
72	414640077493801	71-10-13	341CSKL	1810.00	19.00	110	22	--	82	6.8	--	39	11
76 1/	414339077392901	72-07-14	341CSKL	1350.00	4.30	218	66	205	--	7.6	--	66	--
			TIOGA										
TI 1	414510077333301	74-05-22	111ALVM	1290.00	15.00	23	--	--	--	--	--	--	--
		74-05-22		1290.00	--	23	--	--	285	9.5	9.5	68	22
1 S 1/	415501077311901	75-02-27	341CSKL	1440.00	0.00	--	--	15	--	7.3	--	44	--
2 S 1/	413949077072601	74-05-01	337POCN	1700.00	0.00	--	--	300	--	7.0	--	54	--
4	415030077162701	35-08-20	341CSKL	1160.00	20.00	285	130	10	--	--	12.0	180	56
12 1/	415902077203301	74-03-26	341CMNG	1170.00	90.00	225	--	35	--	7.5	--	200	--
16 1/	415719077263501	74-03-27	112PLSC	1230.00	8.00	100	100	25	--	7.5	--	60	--
43	414841077045801	35-08-19	112OTSH	1140.00	18.00	60	40	120	--	--	--	210	64
47	415345077080301	35-08-19	341CMNG	1050.00	20.00	410	40	25	--	--	12.0	280	82
52	415106077005501	35-08-19	112OTSH	1300.00	2.00	102	102	5.0	--	--	11.0	270	75
66 1/	415512077330501	73-02-06	112PLSC	1380.00	4.00	78	78	80	--	7.1	--	130	--
71	413313077063801	35-08-21	341CSKL	1520.00	18.00	200	40	50	--	--	10.0	85	26
100	414513077333701	73-05-16	341OSWY	1310.00	36.00	77	67	2.5	386	8.2	--	180	59
		73-10-18		1310.00	36.00	77	67	2.0	--	--	--	--	--
		73-10-18		1310.00	--	77	--	--	375	7.8	--	140	44
		74-05-22		1310.00	--	77	67	2.0	340	7.8	10.0	140	44
		74-05-22		1310.00	--	77	--	--	--	--	--	--	--
		74-10-09		1310.00	--	77	--	--	435	7.7	10.5	180	60
		74-10-09		1310.00	--	77	--	--	--	--	--	--	--
		75-05-21		1310.00	--	77	--	--	440	7.6	10.5	190	62
		75-05-21		1310.00	--	77	--	--	--	--	10.5	--	--
		75-10-08		1310.00	--	77	--	--	400	6.8	10.5	190	64
101	415422077091101	73-06-07	341CMNG	1070.00	15.00	32	32	--	342	7.2	--	140	45
		73-11-09		1070.00	15.00	32	32	--	--	--	--	--	--
		73-11-09		1070.00	15.00	32	32	--	339	7.2	--	160	52
		74-05-21		1070.00	--	32	--	--	--	--	--	--	--
		74-05-21		1070.00	--	32	--	--	565	7.1	11.0	240	76
		74-10-08		1070.00	--	32	--	--	525	7.2	14.0	230	74
		74-10-08		1070.00	--	32	--	--	--	--	--	--	--
		75-05-20		1070.00	--	32	--	--	480	7.4	10.0	150	50
		75-05-20		1070.00	--	32	--	--	--	--	--	--	--
		75-10-08		1070.00	--	32	--	--	280	6.3	14.0	78	26
		75-10-08		1070.00	--	32	--	--	260	6.3	14.0	--	--
		76-05-18		1070.00	--	32	--	--	--	--	--	48	16
		76-05-18		1070.00	--	32	--	--	--	--	--	--	--
		76-10-18		1070.00	--	32	--	--	198	6.5	12.5	--	--
		76-10-18		1070.00	--	32	--	--	198	6.5	12.5	54	18
		77-05-04		1070.00	--	32	--	--	265	6.4	10.0	61	20
		77-10-04		1070.00	--	32	--	--	260	6.6	14.0	76	25
		78-05-22		1070.00	--	32	--	--	160	6.3	11.0	63	21
		78-11-06		1070.00	--	32	--	--	185	6.7	14.0	72	24
		79-05-30		1070.00	--	32	--	--	105	6.5	9.0	39	13
		79-10-23		1070.00	--	32	--	--	13	6.5	13.0	42	14
102	415411077083901	73-06-07	112OTSH	1060.00	8.00	26	26	--	327	7.8	--	150	52
		73-11-09		1060.00	--	26	--	--	464	7.1	--	200	65
		73-11-28		1060.00	8.00	26	26	--	--	--	--	--	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CLINTON				
--	--	12	--	65	14	24	.1	--	.10	--	--	5800	--	--	--
5.0	6.0	8.0	2.0	66	26	14	.1	7.6	17	.01	.09	10	0	162	145
1.5	4.5	6.5	2.0	46	28	8.0	.0	8.0	27	--	.12	80	40	132	132
11	4.8	5.6	.8	140	71	7.9	.1	9.4	5.7	.01	.03	80	60	264	238
											LYCOMING				
9.2	18	23	4.5	102	17	63	.1	6.9	1.7	--	.03	24000	3900	244	240
4.0	20	21	.3	156	2.0	5.0	--	--	.10	--	--	--	--	--	--
3.8	21	22	.7	158	.8	5.0	.0	7.7	.00	--	.09	30	220	151	147
3.8	5.5	6.2	.7	61	10	.6	.1	13	.00	--	.00	--	--	75	76
1.8	3.5	4.3	.8	26	8.0	4.0	.0	4.9	.50	--	--	--	--	56	44
.2	4.8	--	--	13	2.0	1.2	--	--	.00	--	--	--	--	--	--
1.2	5.8	--	--	14	15	3.2	--	--	.60	--	--	--	--	--	--
											POTTER				
--	--	--	--	12	5.0	.6	--	--	2.1	--	--	250	--	--	--
2.8	2.3	3.6	1.3	35	10	1.8	.0	4.7	3.7	--	.01	50	20	67	55
--	--	54	--	56	11	89	.0	--	1.3	--	--	300	60	264	--
											TIOGA				
--	--	--	--	--	--	--	--	--	--	--	--	250	<3	--	--
3.2	17	29	12	48	23	25	.1	5.1	21	--	.09	90	30	152	152
--	--	11	--	44	24	4.5	.1	--	.40	--	.06	140	20	104	--
--	--	6.4	--	17	48	2.5	.1	--	.30	--	.03	420	--	100	--
9.8	--	183	--	170	15	300	--	--	.00	--	--	180	--	648	--
--	--	--	--	221	--	125	.2	--	.00	--	.37	210	270	430	--
--	--	--	--	151	--	21	.1	--	.30	--	.12	280	110	200	--
12	8.9	11	1.6	205	46	6.5	--	15	.40	--	--	70	--	258	255
17	--	1132	--	197	7.0	1820	--	--	.00	--	--	480	--	3155	--
20	--	278	--	263	2.0	465	--	--	.50	--	--	6100	--	972	--
--	--	--	--	129	--	11	.0	--	.20	--	.03	1000	630	235	--
4.8	--	20	--	110	13	14	--	--	4.4	--	--	100	--	137	--
7.4	9.6	11	1.4	157	18	32	.2	10	.00	--	.00	330	350	236	216
--	--	--	--	--	--	--	--	--	--	--	--	16000	320	--	--
8.4	11	13	2.0	153	15	32	.3	8.6	.10	--	.00	23000	340	228	220
8.4	13	15	2.2	144	13	27	.1	8.0	.10	--	.00	6300	170	188	193
--	--	--	--	--	--	--	--	--	--	--	--	4500	150	--	--
8.1	9.5	11	1.2	156	24	39	.2	9.7	.04	--	.03	650	340	196	230
--	--	--	--	--	--	--	--	--	--	--	--	1000	30	--	--
8.2	9.7	11	1.5	161	23	40	.0	10	.04	.00	.03	810	300	269	236
--	--	--	--	--	--	--	--	--	--	--	--	1100	390	--	--
8.0	9.9	11	1.5	164	22	43	.1	10	.00	.01	.03	650	330	310	242
5.4	9.8	14	4.5	121	37	22	.2	5.4	20	5.9	.01	2600	370	199	218
--	--	--	--	--	--	--	--	--	--	--	--	2200	2700	--	--
6.4	4.7	6.3	1.6	201	12	3.8	.3	10	.00	--	.01	1600	4100	204	196
--	--	--	--	--	--	--	--	--	--	--	--	1700	2000	--	--
11	11	20	8.6	280	13	24	.2	10	.09	--	.00	1400	2100	302	296
11	11	19	8.0	275	13	24	.2	9.9	.04	--	.00	3700	1900	296	292
--	--	--	--	--	--	--	--	--	--	--	--	2200	2800	--	--
6.7	19	43	24	195	23	16	.2	8.8	.04	--	.00	260	770	275	245
--	--	--	--	--	--	--	--	--	--	--	--	600	900	--	--
3.1	24	51	27	128	32	6.3	.3	6.6	3.2	--	.03	920	140	237	193
--	--	--	--	--	--	--	--	--	--	--	--	2300	130	--	--
2.0	5.3	21	16	68	10	5.7	.1	3.6	5.2	--	.46	7200	330	170	106
--	--	--	--	--	--	--	--	--	--	--	--	6000	400	--	--
--	--	--	--	--	--	--	--	--	--	--	--	>480	80	--	--
2.2	6.9	24	17	78	14	6.8	.1	4.1	6.0	--	.40	530	230	150	115
2.7	8.0	30	22	76	25	8.6	.1	4.4	7.5	.04	.49	250	80	167	137
3.3	7.8	29	21	83	25	11	.1	4.7	14	.03	.49	40	20	174	155
2.5	3.8	10	6.2	66	16	5.9	.0	2.7	13	.01	.37	50	20	96	105
2.9	4.2	10	5.8	59	14	7.0	.1	3.0	14	.03	.49	0	340	120	105
1.6	1.0	8.5	7.5	46	7.5	2.6	.1	3.0	.93	.04	.34	60	30	77	60
1.8	1.4	9.3	7.9	--	7.6	3.1	.1	3.4	1.2	.19	.52	400	490	66	65
5.8	4.6	6.1	1.5	160	17	3.9	.3	11	12	--	.04	2800	3800	197	193
9.1	11	18	7.3	242	10	23	.3	7.9	.00	--	.00	2000	2200	274	259
--	--	--	--	--	--	--	--	--	--	--	--	550	6000	--	--

Table 4.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050104 and 02050205--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			TIOGA										
TI 102	415411077083901	74-05-21	1120TSH	1060.00	--	26	--	--	--	--	--	--	--
		74-05-21		1060.00	--	26	--	--	480	7.4	10.0	--	--
		74-10-08		1060.00	--	26	--	--	400	7.1	12.5	210	69
		74-10-08		1060.00	--	26	--	--	--	--	--	--	--
		75-05-20		1060.00	--	26	--	--	445	7.4	10.0	220	73
		75-05-20		1060.00	--	26	--	--	--	--	--	--	--
		75-10-08		1060.00	--	26	--	--	420	5.9	12.0	200	64
		75-10-08		1060.00	--	26	--	--	420	5.9	12.0	--	--
		76-05-18		1060.00	--	26	--	--	--	--	--	190	64
		76-05-18		1060.00	--	26	--	--	--	--	--	--	--
		76-10-18		1060.00	--	26	--	--	355	6.7	10.5	110	36
		76-10-18		1060.00	--	26	--	--	355	6.7	10.5	--	--
		77-05-04		1060.00	--	26	--	--	400	7.7	8.5	180	58
		77-10-04		1060.00	--	26	--	--	325	7.3	14.0	170	56
		78-05-22		1060.00	--	26	--	--	310	7.3	11.0	170	55
		78-11-06		1060.00	--	26	--	--	340	7.8	11.0	170	55
		79-05-31		1060.00	--	26	--	--	320	7.8	9.0	170	55
		79-10-23		1060.00	--	26	--	--	340	7.8	12.0	160	53
103	415407077080401	73-06-06	1120TSH	1020.00	9.00	22	22	--	261	7.1	--	120	36
		73-11-09		1020.00	--	22	--	--	341	4.7	--	130	40
		73-11-28		1020.00	9.00	22	22	--	--	--	--	--	--
		74-05-21		1020.00	--	22	--	--	--	--	--	--	--
		74-05-21		1020.00	--	22	--	--	720	7.1	9.5	280	93
		74-10-08		1020.00	--	22	--	--	652	6.8	13.0	280	92
		74-10-08		1020.00	--	22	--	--	--	--	--	--	--
		75-05-20		1020.00	--	22	--	--	700	7.1	9.0	280	91
		75-05-20		1020.00	--	22	--	--	--	--	--	--	--
		75-10-08		1020.00	--	22	--	--	565	6.2	14.0	240	80
		75-10-08		1020.00	--	22	--	--	565	6.2	14.0	--	--
		76-05-18		1020.00	--	22	--	--	--	--	--	230	75
		76-05-18		1020.00	--	22	--	--	--	--	--	--	--
		76-10-18		1020.00	--	22	--	--	500	6.8	12.0	220	74
		76-10-18		1020.00	--	22	--	--	500	6.8	12.0	--	--
		77-05-04		1020.00	--	22	--	--	500	7.2	9.0	210	68
		77-10-04		1020.00	--	22	--	--	390	7.1	13.5	200	66
		78-05-22		1020.00	--	22	--	--	340	7.1	10.0	170	57
		78-11-06		1020.00	--	22	--	--	390	7.2	15.0	170	56
		79-05-31		1020.00	--	22	--	--	390	7.1	11.0	170	57
104	415129077141601	73-06-07	1120TSH	1130.00	16.00	27	27	--	--	7.4	--	91	27
		73-11-09		1130.00	16.00	27	--	--	--	--	--	--	--
		73-11-09		1130.00	--	27	--	--	285	5.2	--	100	31
		74-05-21		1130.00	--	27	--	--	--	--	--	--	--
		74-05-21		1130.00	--	27	--	--	535	5.5	11.0	190	58
		74-10-08		1130.00	--	27	--	--	620	6.7	16.5	220	67
		74-10-08		1130.00	--	27	--	--	--	--	--	--	--
		75-05-20		1130.00	--	27	--	--	785	6.7	10.0	260	79
		75-05-20		1130.00	--	27	--	--	--	--	--	--	--
		75-10-08		1130.00	--	27	--	--	610	6.0	16.0	220	68
		75-10-08		1130.00	--	27	--	--	610	6.0	16.0	--	--
		76-05-18		1130.00	--	27	--	--	--	--	--	190	56
		76-05-18		1130.00	--	27	--	--	--	--	--	--	--
		76-10-18		1130.00	--	27	--	--	420	6.7	14.5	170	54
		76-10-18		1130.00	--	27	--	--	420	6.7	14.5	--	--
		77-05-04		1130.00	--	27	--	--	425	6.8	9.5	140	41
		77-10-04		1130.00	--	27	--	--	345	6.8	16.5	150	47
		78-11-06		1130.00	--	27	--	--	280	7.1	14.5	130	39
		79-05-30		1130.00	--	27	--	--	270	7.1	10.0	130	38
		79-10-24		1130.00	--	27	--	--	280	7.3	12.0	110	34
105	414835077045701	73-06-06	1120TSH	1120.00	4.00	29	29	--	472	7.2	--	210	65
		73-11-09		1120.00	--	29	--	--	485	7.9	--	200	62
		73-11-28		1120.00	4.00	29	--	--	--	--	--	--	--
		74-05-21		1120.00	--	29	--	--	490	7.1	12.5	250	75
		74-05-21		1120.00	--	29	--	--	--	--	--	--	--
		74-10-08		1120.00	--	29	--	--	505	7.3	13.5	240	73
		74-10-08		1120.00	--	29	--	--	--	--	--	--	--
		75-05-20		1120.00	--	29	--	--	560	7.5	9.0	260	78
		75-05-20		1120.00	--	29	--	--	--	--	--	--	--
		75-10-08		1120.00	--	29	--	--	495	6.5	13.0	250	76
		75-10-08		1120.00	--	29	--	--	495	6.5	13.0	--	--
		76-05-18		1120.00	--	29	--	--	--	--	--	250	75
		76-05-18		1120.00	--	29	--	--	--	--	--	--	--
		76-10-18		1120.00	--	29	--	--	500	7.2	11.5	250	75

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											TIOGA				
--	--	--	--	--	--	--	--	--	--	--	--	2500	6000	--	--
--	4.6	5.9	1.3	--	4.5	--	.3	14	.00	--	.00	2500	5200	270	--
9.0	4.5	5.5	1.0	278	3.1	2.7	.2	14	.04	--	.00	1900	4900	240	247
--	--	--	--	--	--	--	--	--	--	--	--	2600	9400	--	--
9.1	4.5	5.9	1.4	248	9.0	3.4	.2	14	4.4	--	.00	260	4300	253	246
--	--	--	--	--	--	--	--	--	--	--	--	310	5300	--	--
8.6	4.2	5.5	1.3	252	8.5	2.7	.1	14	3.5	--	.03	780	420	266	232
--	--	--	--	--	--	--	--	--	--	--	--	900	5000	--	--
8.3	3.8	4.9	1.1	227	7.8	2.7	.2	14	1.9	--	.03	240	210	225	216
--	--	--	--	--	--	--	--	--	--	--	--	500	340	--	--
4.6	2.3	3.0	.7	217	9.2	3.9	.2	14	2.3	--	.03	160	150	202	181
--	--	--	--	--	--	--	--	--	--	--	--	50	40	--	--
7.8	4.4	5.8	1.4	210	10	3.5	.1	13	1.7	.08	.00	160	220	202	204
7.6	3.7	5.1	1.4	200	7.5	3.0	.2	13	1.9	.01	.00	170	50	204	194
7.1	4.2	5.4	1.2	190	15	2.5	.1	12	1.5	.03	.03	0	20	193	193
6.9	4.2	5.5	1.3	190	12	2.6	.2	13	1.7	.00	.00	0	10	192	191
7.0	4.4	5.5	1.1	190	14	2.8	.1	12	1.4	.01	.00	0	3	195	192
7.0	5.2	6.3	1.1	--	13	2.7	.2	13	1.7	.04	.09	0	8	181	188
6.0	6.1	10	4.3	107	40	6.3	.3	8.9	.00	--	.07	10000	4700	303	175
6.8	6.2	11	5.2	120	21	7.5	.2	9.3	.00	--	.06	21000	6400	273	183
--	--	--	--	--	--	--	--	--	--	--	--	25000	8500	--	--
--	--	--	--	--	--	--	--	--	--	--	--	53000	10000	--	--
12	7.0	13	6.2	253	6.6	7.5	.1	12	.00	--	.00	46000	8100	322	323
12	6.5	12	5.3	352	4.5	8.0	.1	10	.04	--	.06	27000	8000	294	347
--	--	--	--	--	--	--	--	--	--	--	--	43000	12000	--	--
12	6.0	11	5.2	371	2.1	7.0	.2	11	.04	--	.00	26000	5900	299	349
--	--	--	--	--	--	--	--	--	--	--	--	32000	8000	--	--
10	5.6	11	4.9	334	3.1	5.7	.3	11	.18	--	.03	16000	400	313	302
--	--	--	--	--	--	--	--	--	--	--	--	17000	6000	--	--
9.9	5.4	10	4.9	326	2.0	5.4	.3	11	.22	--	.03	3300	3500	280	282
--	--	--	--	--	--	--	--	--	--	--	--	4200	3400	--	--
9.0	5.5	10	4.6	311	2.4	7.2	.3	11	1.7	--	.03	3900	3000	261	276
--	--	--	--	--	--	--	--	--	--	--	--	>1200	240	--	--
9.0	5.9	11	4.7	280	5.2	6.1	.3	11	.18	9.1	.00	20	2400	247	261
8.8	5.0	9.4	4.4	270	3.1	8.1	.3	11	4.3	7.1	.00	2200	2100	241	257
7.6	5.4	9.0	3.6	180	28	4.7	.3	9.6	6.6	3.7	.00	10	1400	227	218
7.5	5.3	9.2	3.9	170	28	5.5	.4	10	3.1	2.7	.03	10	10	227	209
7.7	--	--	--	170	26	6.0	.2	--	3.9	2.6	.00	0	0	220	--
5.7	6.5	9.7	3.2	117	8.5	7.5	.3	9.7	.00	--	.06	12000	3200	--	141
--	--	--	--	--	--	--	--	--	--	--	--	28000	5700	--	--
6.5	6.5	10	3.7	71	6.1	12	.2	11	.00	--	.03	22000	3800	282	138
--	--	--	--	--	--	--	--	--	--	--	--	60000	15000	--	--
11	7.3	11	4.1	192	18	8.4	.0	17	.00	--	.03	56000	11000	288	285
12	6.5	10	3.5	244	3.1	8.4	.2	9.8	.13	--	.03	48000	14000	277	293
--	--	--	--	--	--	--	--	--	--	--	--	53000	19000	--	--
14	7.0	11	4.0	368	1.0	9.3	.2	9.9	.09	--	.06	65000	16000	317	387
--	--	--	--	--	--	--	--	--	--	--	--	<70000	24000	--	--
13	5.8	9.4	3.6	302	4.4	8.1	.1	10	.84	--	.03	34000	980	305	298
--	--	--	--	--	--	--	--	--	--	--	--	45000	12000	--	--
11	5.0	8.6	3.6	210	.0	7.5	.3	11	.35	--	.00	39000	9900	290	247
--	--	--	--	--	--	--	--	--	--	--	--	45000	12000	--	--
9.4	5.0	8.4	3.4	251	1.5	9.0	.3	13	.93	--	.03	35000	8600	275	264
--	--	--	--	--	--	--	--	--	--	--	--	>1100	>1100	--	--
9.2	5.4	9.2	3.8	230	2.9	8.7	.3	12	1.2	8.2	.00	0	7300	208	214
8.7	4.8	8.4	3.6	180	2.6	9.4	.3	11	18	2.8	.00	0	5800	209	203
7.3	5.0	7.8	2.8	120	7.9	9.0	.4	11	15	.03	.03	0	10	171	157
7.3	5.6	8.2	2.6	130	7.5	8.9	.4	11	9.7	.09	.00	1	30	153	155
6.5	4.9	7.4	2.5	--	8.8	9.4	.4	10	8.4	.04	.00	0	5	142	145
11	10	15	5.3	149	68	29	.2	7.6	8.4	1.9	.02	1100	2200	325	283
12	11	17	5.7	170	65	28	.2	6.8	.00	--	.01	1200	1900	315	278
--	--	--	--	--	--	--	--	--	--	--	--	600	2500	--	--
15	14	18	4.2	286	28	17	.1	12	.10	--	.00	1700	2100	309	310
--	--	--	--	--	--	--	--	--	--	--	--	1900	2400	--	--
15	14	18	3.8	290	26	16	.2	12	.31	--	.00	450	1800	315	306
--	--	--	--	--	--	--	--	--	--	--	--	470	2700	--	--
16	14	18	3.9	283	28	16	.1	13	5.8	--	.00	500	1500	339	316
--	--	--	--	--	--	--	--	--	--	--	--	600	1900	--	--
14	14	18	3.6	284	25	15	.1	14	5.3	--	.03	440	1200	333	309
--	--	--	--	--	--	--	--	--	--	--	--	750	1900	--	--
15	13	17	3.9	282	26	14	.1	13	4.9	--	.00	190	80	308	304
--	--	--	--	--	--	--	--	--	--	--	--	220	60	--	--
14	14	18	3.6	277	30	16	.1	14	4.8	--	.00	250	80	315	308

Table 4.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050104 and 02050205--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			TIOGA										
TI 105	414835077045701	76-10-18	112OTSH	1120.00	--	29	--	--	500	7.2	11.5	--	--
		77-05-04		1120.00	--	29	--	--	550	7.7	8.0	240	70
		77-10-05		1120.00	--	29	--	--	450	7.8	12.0	240	71
		78-05-22		1120.00	--	29	--	--	390	7.8	11.0	230	67
		78-11-06		1120.00	--	29	--	--	500	7.8	13.0	230	70
		79-05-31		1120.00	--	29	--	--	480	7.8	9.0	230	67
		79-10-24		1120.00	--	29	--	--	470	7.9	11.5	210	63
107	415129077141701	74-05-21	341OSWY	1130.00	--	170	--	--	--	--	--	--	--
		74-05-21		1130.00	--	170	--	--	1020	8.2	--	34	10
108	415931077083701	77-10-04	341LKHV	1020.00	17.00	102	75	10	325	7.1	12.5	170	41
		78-11-06		1020.00	--	102	--	--	455	7.2	12.0	210	59
		79-05-30		1020.00	--	102	--	--	150	8.9	11.0	64	6.0
		79-10-23		1020.00	--	102	--	--	180	7.5	12.0	68	7.4
109	415921077090201	77-10-04	111ALVM	1000.00	6.00	17	17	--	605	6.1	15.0	390	130
		78-11-06		1000.00	--	17	--	--	655	6.9	14.0	350	120
		79-05-30		1000.00	--	17	--	--	455	6.9	11.5	200	67
		79-10-23		1000.00	--	17	--	--	390	7.0	15.0	190	64
110	415834077135601	78-11-06	112ALVM	1110.00	6.00	33	33	--	1900	6.9	13.5	1100	340
		79-05-30		1110.00	--	33	--	--	1600	7.0	13.5	880	260
145 1/	415427077074601	75-02-26	112PLSC	1025.00	8.00	15	10	30	--	6.6	--	130	--
146 1/	415428077074601	72-08-10	112PLSC	1030.00	10.00	19	--	12	--	6.2	--	130	--
147 1/	415918077204501	73-02-06	341CSKL	1250.00	25.00	175	45	11	--	7.4	--	210	--
151 1/	415926077190301	74-08-28	112PLSC	1135.70	12.50	99	97	210	--	7.7	--	130	--
153 1/	415925077191101	75-02-27	112PLSC	1133.00	10.00	82	63	530	--	7.4	--	180	42

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			CLINTON										
CN 63	411117077174201	112ALVM	48	--	108	250	.1	0	1	100	--	--	0
69 1/	411120077174202	112OTSH	36	20	180	220	--	0	0	--	--	--	0
90	411046077181501	344MNNG	220	153	--	445	.0	0	0	100	--	--	10
			LYCOMING										
LY 47	411843077215101	341CSKL	85	60	11	417	--	--	--	--	--	--	--
113	412110077211501	341CSKL	109	--	--	257	--	--	--	--	--	--	--
			POTTER										
PO 72	414640077493801	341CSKL	110	22	--	82	--	0	--	--	--	--	--
			TIOGA										
TI 1	414510077333301	111ALVM	23	--	--	--	--	60	--	100	<1	<3	25
			23	--	--	285	--	--	--	--	--	--	--
1 S 1/	415501077311901	341CSKL	--	--	15	--	--	--	--	100	--	--	--
12 1/	415902077203301	341CMNG	225	--	35	--	--	--	--	100	--	--	--
16 1/	415719077263501	112PLSC	100	100	25	--	--	--	--	100	--	--	--
100	414513077333701	341OSWY	77	67	2.0	--	--	800	--	400	<2	<6	30
			77	67	2.0	340	--	--	--	--	--	--	--
			77	--	--	--	--	60	--	240	<2	<5	26
			77	--	--	--	--	420	--	390	0	<2	20
			77	--	--	440	.1	60	2	400	--	--	20
			77	--	--	--	--	310	--	350	0	<2	22
			77	--	--	400	.1	230	2	400	--	--	60
101	415422077091101	341CMNG	32	15	--	--	--	650	--	160	<3	<7	32
			32	--	--	--	--	30	--	140	<3	<7	23
			32	--	--	565	--	--	--	--	--	--	--
			32	--	--	--	--	30	--	180	0	<3	38
			32	--	--	--	--	120	--	90	0	<2	20
			32	--	--	260	--	2800	--	60	<0	<2	30

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											TIOGA				
--	--	--	--	--	--	--	--	--	--	--	--	>1400	160	--	--
15	15	19	4.0	270	30	15	.1	13	3.6	.04	.00	120	60	306	301
15	14	18	3.8	270	24	15	.1	13	3.9	.03	.00	630	100	300	296
14	14	17	3.4	260	35	14	.1	13	2.8	.01	.00	90	20	284	293
14	14	18	3.5	260	32	14	.1	13	3.1	.06	.00	20	0	300	294
14	16	19	3.4	250	33	13	.1	13	2.6	.04	.00	0	10	278	287
13	14	17	3.3	--	31	12	.1	13	2.6	.04	.00	0	2	280	280
--	--	--	--	--	--	--	--	--	--	--	--	180	20	--	--
2.1	180	182	2.4	169	4.5	210	.2	7.4	.00	--	.00	180	40	501	500
16	6.7	8.9	2.2	220	1.9	1.6	.1	6.1	.13	.06	.00	6600	290	189	191
15	6.0	7.7	1.7	270	1.6	2.1	.1	8.7	.00	.04	.00	15000	250	227	243
12	6.4	8.1	1.7	91	1.0	1.7	.1	.6	.00	.05	.00	170	50	67	77
12	6.7	8.6	1.9	--	1.6	2.3	.1	.5	.04	.13	.00	30	70	76	79
16	16	20	3.9	460	1.5	8.1	.1	11	.04	.39	.03	2900	5100	--	423
12	16	20	3.5	440	2.8	4.1	.1	13	.00	4.1	.00	6700	8500	381	409
8.1	13	16	3.1	260	14	3.4	.1	10	.31	4.0	.00	2300	4900	256	256
7.9	13	16	3.4	--	11	4.7	.2	11	.13	3.3	.00	2400	4300	259	261
70	27	34	7.2	1280	4.2	18	.1	24	.00	.24	.00	21000	2900	1300	1150
55	29	38	8.8	1110	3.0	18	.0	25	.09	3.9	.00	21000	1300	783	971
--	--	13	--	51	57	26	.1	--	24	--	.37	120	50	185	--
--	--	10	--	51	59	28	.1	--	11	--	.15	0	10	232	--
--	--	--	--	217	--	54	.0	--	.20	--	.21	220	--	350	--
--	--	51	--	227	30	21	.1	--	.00	--	.03	1930	320	276	--
19	--	31	--	190	80	9.7	.1	--	.10	--	.06	70	150	284	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
											CLINTON			
0	<10	0	0	1	0	--	--	0	0	120	--	--	--	20
0	0	0	10	0	--	.0	--	--	0	--	10	20	20	60
1	10	1	0	4	10	--	--	2	0	2100	--	--	--	10
											LYCOMING			
--	--	--	780	0	--	--	--	--	--	--	--	--	--	40
--	--	--	0	0	--	--	--	--	--	--	--	--	--	250
											POTTER			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
											TIOGA			
<2	<2	<3	3	<3	<1	--	<2	--	0	53	<3	<4	<2.0	18
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--
0	10	--	50	5	--	.5	--	--	3	--	--	--	--	15
0	10	--	70	5	--	.0	--	--	2	--	--	--	--	100
0	0	--	60	0	--	.0	--	--	2	--	--	--	--	80
4	3	<6	47	50	10	--	<3	--	0	430	<6	50	6.0	70
--	--	--	10	16	--	--	--	--	--	--	--	--	--	--
<2	<2	<4	5	<4	10	--	<2	--	0	390	<5	<5	<2.0	16
<6	<2	<2	5	2	8	--	<1	--	0	380	<2	30	<1.0	10
0	<10	0	0	1	10	--	--	0	0	--	--	--	--	20
<4	<1	<2	1	<2	8	--	<1	--	0	380	<2	20	<2.0	<4
0	0	3	0	4	10	--	--	0	1	450	--	--	--	20
3	2	<7	20	80	10	--	<3	--	0	300	<7	40	3.0	65
<3	<3	<6	5	6	7	--	<3	--	0	350	<8	<7	<3.0	20
--	--	--	20	15	--	--	--	--	--	--	--	--	--	--
<8	<3	<3	10	20	9	--	1	--	0	400	<3	<2	<2.0	25
9	<1	<2	8	3	9	--	2	--	0	330	<2	10	<2.0	15
<4	2	<2	25	20	8	--	3	--	<0	130	<2	70	2.0	40

Table 4.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050104 and 02050205--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			TIOGA										
TI 101	415422077091101	341CMNG	32	--	--	--	--	8500	--	80	<1	<4	30
			32	--	--	198	--	1100	--	30	2	<1	10
			32	--	--	265	.0	160	2	100	--	--	30
			32	--	--	260	.1	0	1	0	--	--	1300
			32	--	--	160	.1	50	4	0	--	--	80
			32	--	--	185	.0	30	1	0	--	--	40
			32	--	--	105	.2	40	1	30	--	--	9
			32	--	--	13	.2	40	2	20	--	--	30
102	415411077083901	112OTSH	26	26	--	--	--	80	--	270	<2	<5	12
			26	--	--	--	--	75	16	340	<2	<6	13
			26	--	--	480	--	--	--	--	--	--	--
			26	--	--	--	--	120	--	440	0	<2	27
			26	--	--	--	--	120	--	300	0	<2	10
			26	--	--	420	--	400	--	400	<1	<3	20
			26	--	--	--	--	500	--	300	<2	<6	20
			26	--	--	355	--	60	--	100	<2	<2	20
			26	--	--	400	.0	100	4	100	--	--	0
			26	--	--	325	.0	10	2	200	--	--	40
			26	--	--	310	.0	20	4	300	--	--	40
			26	--	--	340	.0	10	2	300	--	--	0
			26	--	--	320	.3	20	5	300	--	--	0
			26	--	--	340	.2	20	5	300	--	--	20
103	415407077080401	112OTSH	22	22	--	--	--	1900	--	390	<2	<6	32
			22	--	--	--	--	170	15	490	<3	<10	54
			22	--	--	720	--	--	--	--	--	--	--
			22	--	--	--	--	530	--	530	0	<3	100
			22	--	--	--	--	600	--	440	0	<3	50
			22	--	--	565	--	120	--	400	<1	<3	40
			22	--	--	--	--	370	--	400	<3	<8	30
			22	--	--	500	--	240	--	100	9	<2	40
			22	--	--	500	.1	50	1	200	--	--	10
			22	--	--	390	.1	30	5	200	--	--	50
			22	--	--	340	.1	30	2	300	--	--	30
			22	--	--	390	.1	20	2	200	--	--	9
			22	--	--	390	.2	30	2	0	--	--	10
104	415129077141601	112OTSH	27	--	--	--	--	2100	--	290	<2	<5	32
			27	--	--	--	--	500	10	290	<3	<7	40
			27	--	--	535	--	--	--	--	--	--	--
			27	--	--	--	--	230	--	320	0	<3	120
			27	--	--	--	--	4000	--	390	0	<4	60
			27	--	--	610	--	70	--	200	<1	<3	40
			27	--	--	--	--	70	--	300	<5	<30	30
			27	--	--	420	--	330	--	100	110	<2	20
			27	--	--	425	.1	50	0	200	--	--	0
			27	--	--	345	.1	0	0	100	--	--	20
			27	--	--	280	.1	20	1	0	--	--	7
			27	--	--	270	.0	20	1	60	--	--	10
			27	--	--	280	.1	20	1	50	--	--	20
105	414835077045701	112OTSH	29	--	--	--	--	120	--	300	<3	<7	86
			29	--	--	490	--	--	--	--	--	--	--
			29	--	--	--	--	620	--	260	<3	<8	110
			29	--	--	--	--	61	--	250	0	<3	110
			29	--	--	--	--	250	--	250	0	<3	130
			29	--	--	495	--	310	--	300	<1	<3	160
			29	--	--	--	--	100	--	200	<3	<8	160
			29	--	--	500	--	860	--	100	4	<3	130
			29	--	--	550	.1	70	7	300	--	--	0
			29	--	--	450	.1	80	4	200	--	--	120
			29	--	--	390	.1	60	9	300	--	--	110
			29	--	--	500	.1	10	6	300	--	--	120
			29	--	--	480	.5	20	8	300	--	--	70
			29	--	--	470	.2	20	6	200	--	--	90
106	415417077081901	--	--	--	--	--	--	--	--	--	--	--	--
107	415129077141701	341OSWY	170	--	--	--	--	70	1	240	<4	<10	130
			170	--	--	1020	--	--	--	--	--	--	--
108	415931077083701	341LKHV	102	75	10	325	.0	0	1	100	--	--	20
			102	--	--	455	.0	0	0	100	--	--	0
			102	--	--	150	.2	30	1	10	--	--	2
			102	--	--	180	.2	20	1	10	--	--	160
109	415921077090201	111ALVM	17	17	--	605	.1	40	1	200	--	--	80
			17	--	--	655	.1	0	3	300	--	--	710
			17	--	--	455	.4	100	3	200	--	--	300
			17	--	--	390	.1	100	3	100	--	--	360
110	415834077135601	112ALVM	33	33	--	1900	.1	0	2	800	--	--	80
			33	--	--	1600	.4	100	6	600	--	--	70
145 1/	415427077074601	112PLSC	15	10	30	--	--	--	--	200	--	--	--
153 1/	415925077191101	112PLSC	82	63	530	--	--	--	--	50	--	--	--

CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	TIN, DIS- SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI- TANIUM, DIS- SOLVED (UG/L AS TI)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
												TIOGA			
2	10	<4	30	50	20	--	2	14	--	<0	90	<4	340	10	100
2	<1	<1	19	>48	10	--	<1	18	--	<0	40	<1	10	2.6	70
0	5	0	29	19	10	--	--	7	0	0	160	--	--	--	80
2	9	0	10	17	0	--	--	5	0	0	110	--	--	--	60
2	1	0	12	3	0	--	--	3	0	0	140	--	--	--	60
7	0	1	12	41	0	--	--	5	0	0	110	--	--	--	50
1	5	1	18	9	3	--	--	3	0	0	50	--	--	--	80
2	1	2	10	10	2	--	--	5	0	0	50	--	--	--	100
<3	<3	<5	54	100	4	--	<3	20	--	0	100	<5	<4	<4.0	200
1	<3	<6	17	50	3	--	<3	15	--	0	160	<6	<6	<3.0	80
--	--	--	10	160	--	--	--	--	--	--	--	--	--	--	--
<7	<2	<2	27	50	4	--	<1	50	--	0	140	<2	7	<1.0	140
<4	<1	<2	12	12	2	--	1	20	--	0	120	<2	7	<2.0	40
<5	<3	<3	20	35	3	--	3	35	--	<0	120	<3	30	<3.0	100
1	<6	<6	20	50	10	--	3	8	--	<1	150	<6	70	<6.0	30
1	<2	<2	10	11	0	--	<2	11	--	<1	70	<3	<2	<3.9	50
0	3	0	43	40	10	--	--	5	0	0	200	--	--	--	60
0	8	0	18	17	0	--	--	3	0	0	120	--	--	--	20
1	0	0	25	3	0	--	--	2	0	0	240	--	--	--	100
10	0	0	11	160	0	--	--	0	0	0	190	--	--	--	20
0	12	0	18	3	5	--	--	1	0	0	140	--	--	--	30
1	2	0	11	2	7	--	--	1	0	0	140	--	--	--	50
7	2	50	390	500	15	--	<3	70	--	0	180	<6	50	5.0	1000
<10	<5	24	30	40	10	--	<4	27	--	<1	410	<10	<10	<5.0	80
--	--	--	50	72	--	--	--	--	--	--	--	--	--	--	--
<10	<3	5	40	40	11	--	<2	17	--	0	420	<3	30	<2.0	140
<4	<3	<3	27	30	10	--	<2	10	--	0	420	<4	30	<3.0	70
<5	<3	<3	12	10	10	--	5	30	--	<0	380	<3	6	<3.0	40
1	<7	<7	30	60	20	--	<2	15	--	<1	380	<7	30	<7.0	30
0	<2	<2	8	30	10	--	<2	23	--	<1	120	<4	<2	<4.8	30
0	4	0	8	0	10	--	--	4	0	0	400	--	--	--	20
0	6	0	29	22	0	--	--	7	0	0	410	--	--	--	40
2	0	4	10	3	10	--	--	16	0	0	400	--	--	--	40
6	0	1	6	89	10	--	--	9	0	0	480	--	--	--	20
0	12	1	8	7	10	--	--	7	0	0	0	--	--	--	0
5	3	35	100	600	12	--	4	57	--	0	130	<5	90	10	330
<10	<3	40	17	80	10	--	<3	50	--	0	180	<8	15	<3.0	90
--	--	--	20	52	--	--	--	--	--	--	--	--	--	--	--
<10	<3	20	22	30	8	--	1	40	--	0	200	<3	<2	<2.0	100
1	<4	10	30	25	20	--	6	20	--	2	250	7	200	4.0	50
<6	<3	3	20	10	4	--	2	17	--	<0	140	3	4	<3.0	70
2	<20	<20	30	75	10	--	<10	<20	--	<3	210	<20	<20	--	30
1	<2	<2	>1100	>110	0	--	17	12	--	3	100	<3	<2	<4.4	30
0	5	0	9	0	10	--	--	7	0	0	210	--	--	--	30
0	5	0	4	6	0	--	--	8	0	0	140	--	--	--	20
5	0	0	8	77	0	--	--	1	0	0	200	--	--	--	0
1	7	0	18	1	4	--	--	2	0	0	120	--	--	--	30
2	2	0	7	0	5	--	--	1	0	0	120	--	--	--	20
<4	<4	<7	25	14	7	--	<4	<7	--	0	MO	<7	7	4.0	100
--	--	--	30	44	--	--	--	--	--	--	--	--	--	--	--
<4	<4	<7	15	25	9	--	<3	13	--	<1	550	<8	50	<4.0	26
<8	<3	--	22	20	7	--	<1	6	--	0	450	<3	4	<2.0	76
4	<3	<3	80	50	8	--	<1	50	--	0	500	<3	30	<2.0	2500
<6	<3	<3	50	40	8	--	3	40	--	<0	420	<3	30	<3.0	1100
0	<7	<7	60	23	10	--	<2	17	--	1	530	<7	10	<7.0	1000
2	<3	<3	67	200	10	--	<3	71	--	<1	240	<4	40	<5.7	1300
0	1	0	81	28	10	--	--	18	0	0	520	--	--	--	740
2	7	0	73	55	0	--	--	19	0	0	550	--	--	--	600
2	0	0	6	26	10	--	--	16	0	0	630	--	--	--	370
5	0	0	50	45	10	--	--	12	0	0	540	--	--	--	320
1	11	0	44	8	10	--	--	10	0	0	580	--	--	--	220
2	1	0	46	5	20	--	--	9	0	0	550	--	--	--	210
--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--
<5	<5	<7	<3	<10	240	--	<5	<7	--	<2	660	<10	<10	<10	<10
--	--	--	0	2	--	--	--	--	--	--	--	--	--	--	--
0	7	0	17	5	0	--	--	3	0	0	40	--	--	--	0
1	0	1	4	31	10	--	--	2	0	0	130	--	--	--	50
0	11	1	3	6	10	--	--	0	0	0	6	--	--	--	0
2	1	0	16	2	10	--	--	3	0	0	9	--	--	--	20
0	10	6	10	10	0	--	--	30	0	0	230	--	--	--	60
4	0	0	2	60	10	--	--	1	0	0	300	--	--	--	30
0	10	3	26	10	7	--	--	6	0	0	170	--	--	--	30
2	1	2	2	2	8	--	--	6	0	0	170	--	--	--	10
2	0	1	4	51	20	--	--	4	0	0	870	--	--	--	20
1	3	22	9	11	30	--	--	6	0	0	780	--	--	--	60
3	10	--	40	5	--	.5	--	--	--	2	--	--	--	--	130
0	0	--	30	0	--	.0	--	--	--	2	--	--	--	--	250

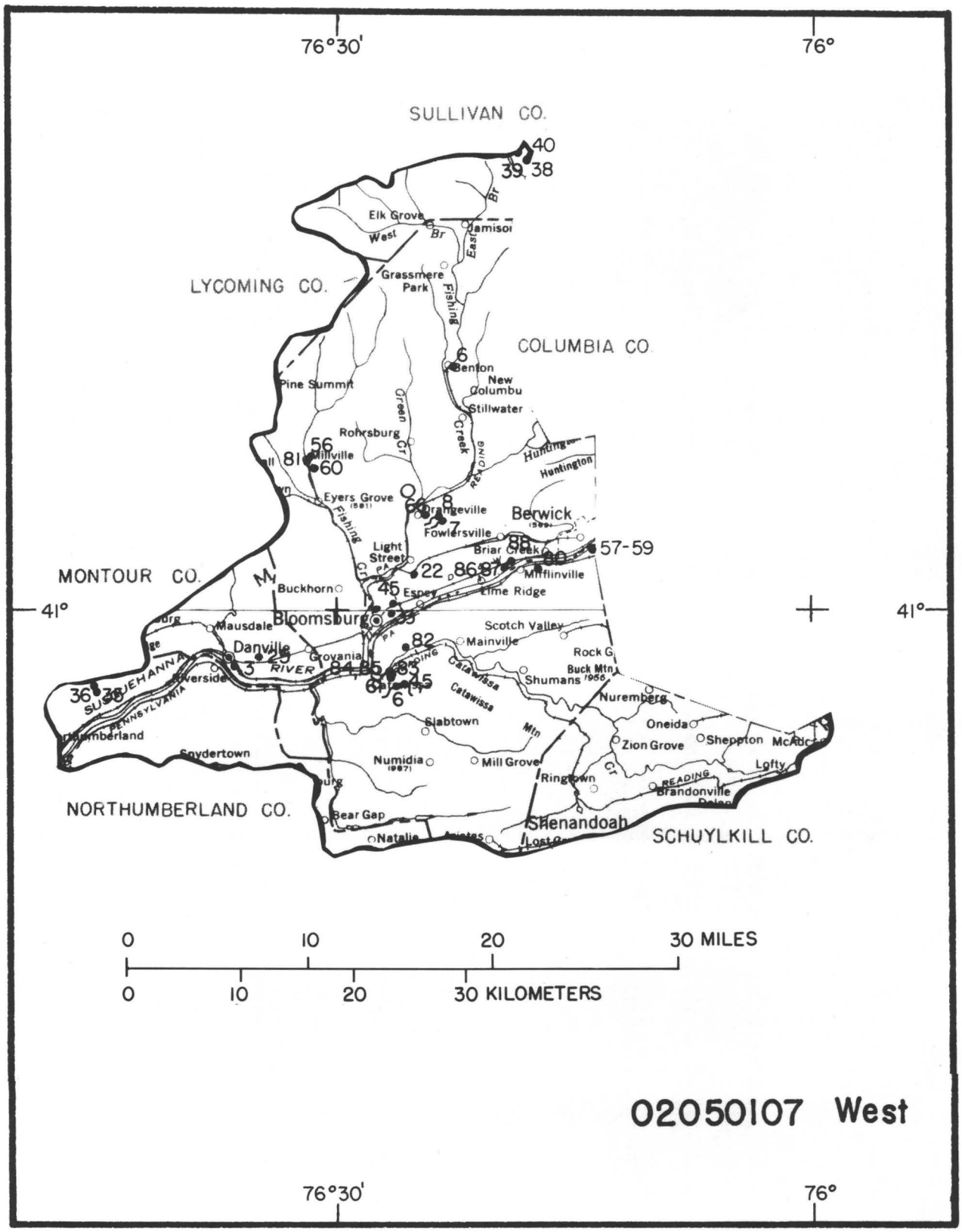


Figure 5.--Site location map for hydrologic unit 02050107.

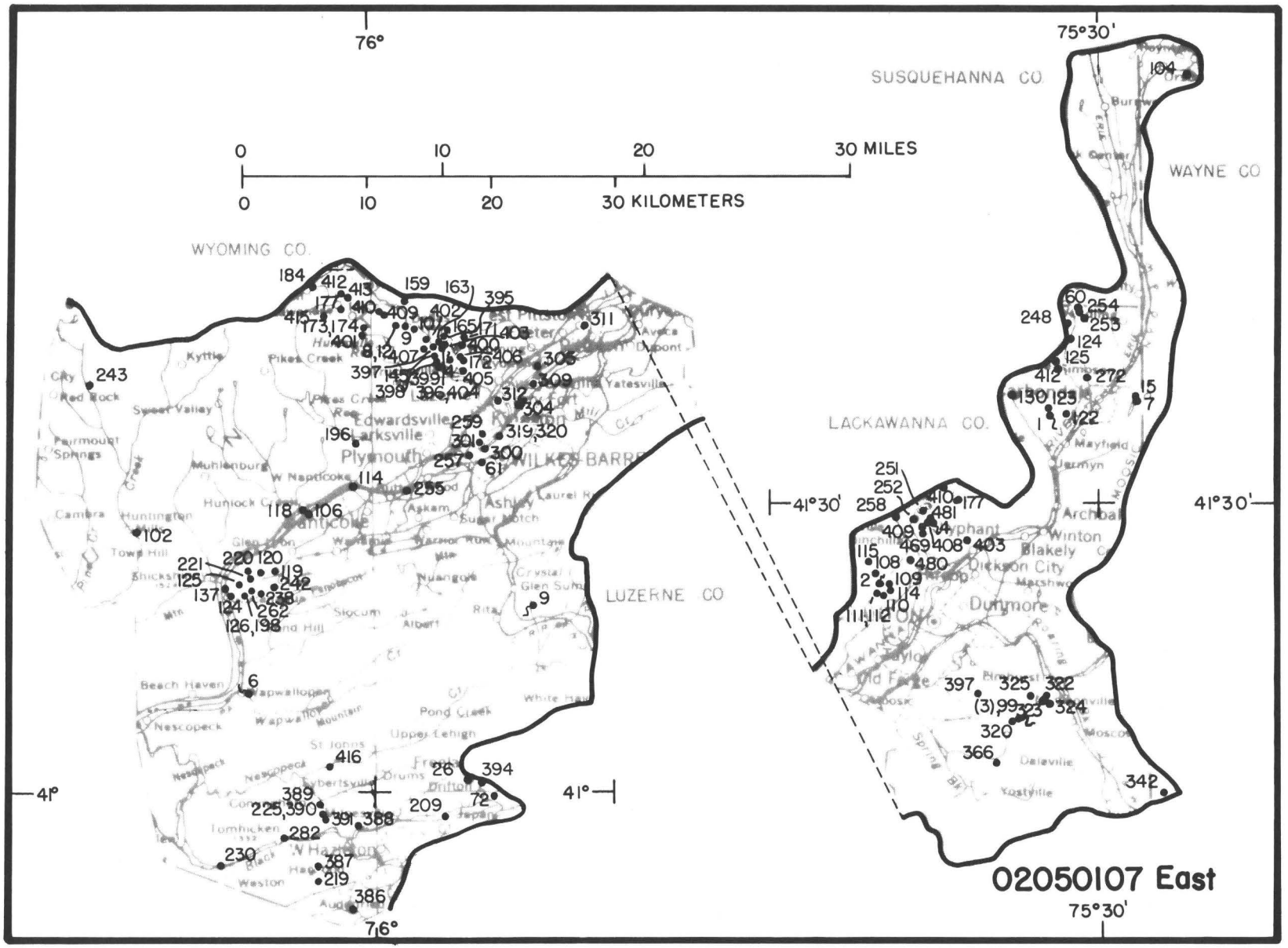


Figure 5.--Site location map for hydrologic unit 02050107--continued.

TABLE 5.--HYDROLOGIC UNIT 02050107
(follows on next page)

Table 5.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050107

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			COLUMBIA										
CO 4 S 1/	405639076260901	68-02-08	341CSKLU	1300.00	0.00	--	--	14	--	6.0	--	8	--
5 S 1/	405639076261301	68-02-08	341CSKLU	1230.00	0.00	--	--	14	--	4.8	--	20	--
6	411147076225801	30-10-30	112OTSH	768.00	10.00	44	44	140	--	--	--	6	2.0
6 S 1/	405637076263401	68-02-08	341CSKLU	890.00	0.00	--	--	10	--	5.3	--	20	--
7 S 1/	410432076234401	68-08-01	341CSKL	910.00	0.00	--	--	2.0	--	5.8	--	15	--
8 S 1/	410433076234701	68-08-01	341CSKL	920.00	0.00	--	--	7.0	--	5.8	--	10	--
22	410152076252901	30-09-30	351BMBG	560.00	30.00	145	90	20	--	--	12.0	34	9.0
33	410000076265501	31-09-04	347HDBG	490.00	12.00	360	--	250	--	--	17.0	164	48
45	410033076264901	70-11-17	351BMBG	690.00	87.00	282	32	1.0	289	8.1	--	123	35
56 1/	410723076320501	73-12-18	344HMLN	640.00	--	500	21	39	820	8.0	--	80	26
57 1/	410315076135501	68-04-01	344ONDG	490.00	34.00	160	63	--	--	7.3	--	120	--
58 1/	410316076135501	68-04-01	344ONDG	490.00	34.00	90	60	--	--	7.2	--	170	--
59 1/	410316076135401	68-04-01	344ONDG	490.00	34.00	87	58	--	--	7.4	--	140	--
60	410700076315001	30-10-30	344HMLN	630.00	20.00	512	20	--	--	--	--	72	11
61	405650076270001	31-09-04	341CSKL	--	13.00	375	13	70	--	--	--	91	26
66 1/	410439076244101	68-01-08	341CSKL	680.00	64.00	465	16	--	--	7.8	--	46	--
80 1/	410213076174301	71-08-10	112DRFT	490.00	--	64	--	105	--	6.9	--	110	--
81 1/	410720076320501	73-12-18	112TILL	635.00	6.00	10	10	--	--	6.2	--	73	--
82 1/	405830076260401	68-12-31	341TMRK	770.00	--	--	--	--	--	6.6	--	50	--
83 1/	405702076265801	68-02-08	341CSKLS	480.00	60.00	208	28	50	--	6.0	--	60	--
84 1/	405703076270301	76-06-23	341CSKLS	475.00	50.00	250	28	135	--	6.5	--	60	--
85 1/	405703076270501	76-06-23	341CSKLS	480.00	130.00	305	30	275	--	6.8	--	83	--
86 1/	410214076194901	73-05-13	351BMBG	605.00	--	190	--	--	--	5.0	--	110	--
87 1/	410215076194901	73-05-13	351BMBG	610.00	--	402	--	--	--	5.0	--	110	--
88 1/	410226076193201	73-05-13	351BMBG	675.00	--	410	--	--	--	5.0	--	64	--
			LACKAWANNA										
LK 1 S	413355075331501	68-12-12	341CSKL	1710.00	0.00		--	4.0	65	5.9	10.0	24	5.8
2 S	412632075425201	69-01-02	337POCN	1855.00	0.00		--	11	38	5.9	12.7	13	--
3 S	412042075345401	70-03-05	341CSKL	1640.00	0.00	--	--	2.0	45	6.2	--	--	--
4 S	412904075395901	30-09-17	112DRFT	1300.00	0.00	--	--	--	--	--	11.0	--	--
7	413441075282301	68-12-13	341CSKL	1370.00	0.00	--	--	70	72	6.8	9.2	30	9.0
15	413443075283401	68-12-13	341CSKL	1360.00	0.00	--	--	4.0	130	7.1	9.4	52	16
99	412043075345201	70-08-04	341CSKL	1670.00	--	283	--	--	159	7.2	11.3	82	28
		70-08-05		1670.00	--	283	--	--	189	7.9	9.3	84	28
		70-08-05		1670.00	55.00	283	120	105	205	7.7	10.2	105	35
		70-09-29		1670.00	--	283	--	--	262	--	--	110	32
		70-09-29		1670.00	--	283	--	--	--	--	--	--	--
		70-09-29		1670.00	--	283	--	--	--	--	--	--	--
		70-09-29		1670.00	--	283	--	--	--	--	--	--	--
		70-09-29		1670.00	--	283	--	--	--	--	--	--	--
		70-09-30		1670.00	--	283	--	--	205	7.6	--	101	34
1/		74-02-08		1670.00	55.00	283	120	105	226	7.6	--	100	34
108	412657075431401	68-12-12	341CSKL	1720.00	10.00	118	23	6.0	283	6.6	11.2	111	36
109	412625075421801	68-12-12	337POCN	1440.00	0.00	142	90	30	54	5.7	8.6	19	5.7
110	412603075423301	69-01-02	337POCN	1540.00	0.00	189	14	10	58	6.2	11.7	25	--
111	412604075425401	69-01-02	337POCN	1720.00	10.00	430	200	70	137	6.8	27.7	64	--
112	412605075425401	69-01-02	337POCN	1730.00	0.00	457	200	90	100	6.3	9.9	44	--
114	412607075422001	69-09-24	337POCN	1350.00	50.00	281	50	6.0	117	6.7	9.0	50	13
115	412721075433701	69-09-18	341CSKL	1480.00	114.00	400	38	8.0	415	7.4	11.0	168	54
122	413358075322701	68-11-22	324PSVL	1650.00	0.00	150	40	50	86	6.5	8.9	30	5.3
123	413407075331701	68-12-12	341CSKL	1740.00	80.00	260	110	10	249	7.7	10.6	100	33
124	413718075323101	68-12-12	341CSKL	1710.00	25.00	130	69	25	316	7.5	10.4	143	41
125	413611075330001	69-01-14	341CSKL	1580.00	20.00	165	65	20	249	7.1	10.3	107	--
130	413450075351001	69-01-16	341CSKL	1570.00	40.00	135	40	20	229	6.3	11.2	87	--
177	413010075383001	68-11-01	341CSKL	1460.00	0.00	100	56	5.0	201	7.5	12.0	86	28
248	413749075324301	69-02-05	341CSKL	1650.00	0.00	46	15	30	188	7.4	10.0	85	--
251	412935075403201	68-12-19	341CSKL	1280.00	29.00	376	58	200	--	7.5	--	40	12
		69-08-13		1280.00	29.00	376	58	200	--	8.1	11.0	90	28
1/		74-03-11		1280.00	29.00	376	58	200	250	7.6	--	90	28
252	412922075405801	69-12-27	341CSKL	1170.00	30.00	647	37	160	--	7.5	--	84	17
1/		74-03-11		1170.00	30.00	647	37	160	305	7.4	--	150	--
253	413803075313201	69-09-26	341CSKL	1695.00	25.00	118	62	30	118	7.3	11.0	49	15
254	413828075315001	69-11-07	341CSKL	1755.00	34.00	180	34	5.0	308	8.0	11.1	138	--
258 1/	412933075421101	74-03-11	341CSKL	1250.00	8.00	565	76	352	--	7.3	--	220	--
272	413542075311001	69-10-10	341CSKL	1360.00	7.00	145	70	15	265	7.9	11.1	108	--
320	412041075350201	70-04-22	341CSKL	1640.00	16.00	198	125	27	216	8.2	9.3	110	36
322 1/	412139075330101	74-02-28	341CSKL	1650.00	26.00	255	40	110	--	7.1	--	76	--

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											COLUMBIA				
--	--	4.1	--	13	5.5	.5	.0	--	.40	--	--	150	0	24	--
--	--	1.4	--	20	6.0	.0	.0	--	.40	--	--	120	0	26	--
--	--	4.0	--	10	5.0	1.0	--	--	.80	--	--	--	--	--	--
--	--	.9	--	2	18	1.0	.0	--	.40	--	--	250	0	26	--
--	--	--	--	12	2.5	1.0	.0	--	1.8	--	--	220	0	23	--
--	--	2.5	--	11	3.5	1.0	.0	--	1.8	--	--	230	0	18	--
--	--	4.0	--	44	1.0	2.0	--	--	4.4	--	--	--	--	--	--
--	--	32	--	219	32	14	--	--	2.2	--	--	6600	--	--	--
8.5	5.0	6.1	1.1	63	28	26	.2	10	29	--	--	1800	80	178	174
3.6	107	134	27	134	15	172	.2	8.5	1.3	--	.31	860	40	420	429
--	--	133	--	152	78	132	.0	--	21	--	--	0	--	434	--
--	--	--	--	142	--	20	.0	--	22	--	--	100	--	296	--
--	--	--	--	139	--	20	.0	--	31	--	--	0	--	274	--
--	--	79	--	199	2.0	55	--	--	.00	--	--	--	--	--	--
6.3	3.8	5.7	1.9	25	61	2.8	--	12	13	--	--	80	--	146	139
--	--	--	--	92	--	8.0	.0	--	6.2	--	--	200	--	110	--
--	--	6.7	--	93	31	10	.1	--	1.8	--	--	100	70	144	--
--	5.2	7.6	2.4	49	14	18	--	5.1	19	--	.80	140	30	140	--
--	--	--	--	100	--	1.0	.2	--	.10	--	--	0	--	94	--
--	--	--	--	24	51	4.0	.0	--	16	--	--	150	0	108	--
--	--	2.1	--	32	12	6.5	.0	--	21	--	.06	10	10	90	--
--	--	27	--	56	51	16	.0	--	24	--	.06	550	10	162	--
--	--	15	--	128	15	18	.0	--	.50	--	--	20	50	220	--
--	--	19	--	134	12	19	.0	--	.60	--	--	20	50	219	--
--	--	13	--	82	20	2.5	.0	--	.40	--	--	250	30	130	--
											LACKAWANNA				
2.3	1.0	1.8	.8	16	11	.9	--	4.6	1.0	--	--	20	0	--	44
--	1.0	--	--	8	7.7	.2	--	--	.00	--	--	80	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	2200	500	--	--
--	--	--	--	52	11	2.0	--	--	--	--	--	--	--	--	--
1.9	2.4	2.8	.4	34	5.7	1.5	--	5.2	.30	--	--	10	0	--	44
2.8	6.2	6.8	.6	--	--	--	--	--	--	--	--	20	0	--	--
2.8	--	--	--	78	9.8	2.5	.2	--	1.1	--	--	--	30	--	--
3.4	--	--	--	99	6.5	3.1	.2	--	1.4	--	--	--	30	--	--
4.2	--	--	--	108	11	2.8	.2	--	1.3	--	--	70	10	--	117
8.5	--	--	--	109	--	--	--	--	--	--	--	70	50	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	650	--	--
--	--	--	--	--	--	--	--	--	--	--	--	68000	6200	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	4500	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	2000	--	--
3.8	3.3	4.3	1.0	108	6.7	5.0	.0	7.7	1.0	--	--	10	10	--	116
3.8	3.3	4.4	1.1	107	7.5	5.0	.1	8.0	2.3	--	.06	80	80	120	118
5.1	3.6	4.7	1.1	59	51	6.7	--	8.0	12	--	--	70	10	153	154
1.2	1.2	1.9	.7	7	13	.3	--	4.1	3.2	--	--	0	20	--	33
--	1.0	--	--	31	13	2.4	--	--	.00	--	--	9900	--	--	--
--	1.2	--	--	79	12	2.0	--	--	.20	--	--	7700	--	--	--
--	1.0	--	--	46	14	1.0	--	--	.20	--	--	4500	--	--	--
4.3	--	--	--	--	--	--	--	--	--	--	--	2200	250	--	--
8.1	--	--	--	111	--	41	--	--	--	--	--	20	0	--	--
4.3	.4	--	--	53	7.7	1.0	--	--	1.6	--	--	10000	1500	--	64
4.2	11	12	1.0	134	8.5	2.3	--	8.0	4.6	--	--	0	0	--	139
9.9	11	12	1.0	198	5.0	.0	--	8.2	1.4	--	--	30	0	--	176
--	6.0	--	--	95	21	13	--	--	1.9	--	--	40	--	--	--
--	13	--	--	60	37	17	--	--	4.2	--	--	170	--	--	--
3.8	5.2	--	--	98	11	3.0	--	--	1.8	--	--	370	0	--	110
--	6.4	--	--	98	12	1.6	--	--	5.1	--	--	30	--	--	--
2.4	31	--	--	90	9.0	12	--	--	8.0	--	--	--	--	126	--
4.9	14	--	--	113	9.0	9.0	--	--	8.4	--	--	430	0	--	--
4.9	--	20	--	110	9.0	21	.1	--	5.8	--	.09	40	10	144	--
10	29	--	--	132	5.5	20	--	--	8.4	--	--	100	0	182	--
--	--	7.6	--	128	22	26	.0	--	3.5	--	.12	80	20	182	--
2.8	--	--	--	--	--	--	--	--	--	--	--	580	80	--	--
--	--	--	--	133	--	19	--	--	--	--	--	170	0	--	--
--	--	67	--	134	11	169	.1	--	7.5	--	.12	10	70	431	--
--	--	--	--	126	--	22	--	--	--	--	--	60	380	--	--
3.9	2.3	2.9	.6	103	13	7.1	--	7.8	4.0	--	--	7900	500	--	134
--	--	--	--	77	5.0	4.0	.0	--	4.9	--	.21	170	60	86	--

Table 5.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050107--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				LACKAWANNA										
LK 323	1/	412128075332001	74-02-28	341CSKL	1710.00	65.00	169	62	60	135	7.0	--	65	--
324	1/	412126075325901	74-02-28	341CSKL	1690.00	69.00	369	40	45	--	7.0	--	73	--
325	1/	412147075340101	75-02-04	341CSKL	1700.00	92.00	225	110	40	--	7.7	--	87	--
342		411749075260501	69-10-02	341CSKL	1940.00	69.00	150	69	6.0	68	--	9.2	34	--
366		411852075354801	69-10-22	341CSKL	1510.00	56.00	107	98	11	91	7.5	9.0	38	--
397		412149075364801	69-10-22	341CSKL	1695.00	10.00	190	35	20	126	7.9	9.3	61	--
403		412827075375401	70-08-18	324PSVL	1210.00	350.00	600	500	40	295	5.6	13.1	79	20
			70-08-20		1210.00	--	600	--	--	792	2.9	12.4	--	--
408	1/	412906075402201	75-02-06	341CSKL	1315.00	80.00	250	133	35	--	7.5	--	110	--
409	1/	412854075403001	71-03-03	341CSKL	1230.00	75.00	270	31	20	--	7.5	--	110	--
410	1/	412947075401701	72-01-21	341CSKL	1400.00	--	--	--	15	--	7.1	--	78	--
412		413601075325701	30-09-17	341CSKL	1560.00	50.00	90	18	30	--	--	10.0	93	31
469		412848075402201	30-09-17	341CSKL	1265.00	--	368	--	30	--	--	11.0	98	25
480	1/	412732075410801	74-02-07	337POCN	1362.60	0.00	125	55	4.0	200	6.4	--	54	12
481	1/	412916075401201	74-02-26	341CSKL	1375.00	100.00	297	61	48	--	7.5	--	120	--
				LUZERNE										
LU 4	S	411852075554301	30-09-16	112DRFT	1060.00	0.00	--	--	--	--	--	--	32	12
6	S	410435076073201	30-09-16	112DRFT	600.00	0.00	--	--	--	--	--	--	10	2.0
8	1/	412025075583901	74-02-05	341CSKL	1180.00	27.00	235	60	85	--	7.2	--	120	--
9	S	410812075510801	30-09-15	112DRFT	1720.00	0.00	--	--	50	--	--	--	3	1.0
	1/		73-04-13		1720.00	0.00	--	--	50	--	5.7	--	11	--
9	1/	412020075581201	74-02-05	341CSKL	1150.00	8.00	90	90	124	--	7.3	--	83	--
10	1/	412012075574601	72-12-20	341CSKL	1120.00	--	498	103	65	220	6.9	10.5	110	25
12	1/	412025075584201	72-12-20	341CSKL	1200.00	70.00	500	26	85	320	6.7	12.5	120	40
26		410043075545601	30-09-15	327MCCK	1820.00	50.00	600	60	100	--	--	9.4	45	11
61		411431075535801	30-09-16	112OTSH	520.00	17.00	45	45	--	--	--	13.0	200	53
72	1/	410001075532901	73-04-13	331MCCK	1843.00	15.00	200	32	25	410	5.7	--	150	38
102		411130076135301	30-09-16	341CMNG	800.00	0.00	249	60	12	--	--	--	110	33
106		411222076035901	30-09-16	337POCN	540.00	14.00	375	65	6.0	--	--	--	32	10
114		411325076011701	30-09-16	337POCN	640.00	0.00	298	52	7.0	--	--	--	20	4.0
118		411223076041002	55-08-22	112OTSH	525.00	21.00	48	38	100	--	5.8	--	103	--
120		410944076063601	67-04-19	321LLLN	--	171.00	405	395	10	--	--	11.0	550	79
			67-04-27		--	--	405	--	--	--	--	12.0	540	76
			67-05-08		--	--	405	--	--	2700	2.7	15.0	1600	320
124		410842076082701	66-11-22	324PSVL	602.00	57.00	170	57	10	98	6.7	10.5	45	11
125		410907076075801	67-03-14	321LLLN	704.00	--	485	190	--	--	3.0	--	1000	138
			67-03-20		704.00	--	485	190	--	--	3.1	--	1000	146
			67-04-26		704.00	185.00	485	--	10	1650	3.1	11.6	1000	138
			67-04-26		704.00	--	485	--	--	--	3.1	--	--	--
126		410847076073401	67-01-11	321LLLN	1076.00	--	305	--	--	--	--	7.8	180	23
			67-01-13		1076.00	155.00	305	10	10	1540	--	7.7	200	19
			67-01-17		1076.00	--	305	--	--	--	2.6	11.0	200	21
137		410901076084001	67-08-14	324PSVL	540.00	22.00	55	6.0	10	498	4.1	--	180	48
			75-04-14		540.00	--	55	--	--	1610	--	--	570	100
			75-04-14		540.00	--	55	--	--	--	--	--	--	--
145		411907075563701	30-09-16	341CSKL	1060.00	--	205	--	18	--	--	--	--	--
	1/		74-02-05		1060.00	--	205	60	18	--	7.4	--	110	--
159		412128075581601	30-09-16	341CSKL	1300.00	70.00	188	70	50	--	--	--	27	8.6
163	1/	411935075562601	73-01-08	341CSKL	1080.00	40.00	244	18	18	--	7.6	--	82	--
165	1/	412002075560701	74-02-05	341CSKL	1320.00	--	580	75	12	--	7.2	--	66	--
171	1/	411955075550501	72-08-25	341CSKL	1280.00	100.00	500	63	150	250	7.5	--	99	22
172	1/	411852075550501	73-10-10	341CSKL	1060.00	35.00	403	103	42	150	6.2	--	60	17
173	1/	412015076005001	75-02-11	341CSKL	1360.00	60.00	229	14	12	--	6.9	--	76	--
174	1/	412015076005002	73-04-02	341CSKL	1360.00	--	400	12	65	--	6.8	--	88	--
177	1/	412112076015601	72-12-20	341CSKL	1240.00	0.00	212	115	25	220	6.3	10.0	81	20
184		412214076033201	30-09-16	341CSKL	1440.00	135.00	278	135	--	--	--	11.0	64	12
196	1/	411633076011501	73-01-16	341CSKL	1119.00	16.00	435	50	325	--	7.7	--	100	--
198		410847076073402	67-03-24	321LLLN	1076.00	--	315	--	--	--	--	--	160	13
			67-03-24		1076.00	--	315	--	--	--	--	--	150	11
			67-03-27		1076.00	152.00	315	152	--	895	2.9	8.3	160	13
209		405912075561901	30-09-16	324PSVL	1560.00	0.00	171	14	50	--	--	--	4	2.0
219	1/	405620076033501	73-03-09	324PSVL	1760.00	4.00	587	--	140	--	5.8	10.0	48	--
220		410946076072701	67-01-07	324PSVL	1072.00	0.00	235	12	1.0	144	7.7	8.8	96	22
221		410928076072401	67-04-11	324PSVL	744.00	118.00	185	25	10	585	--	8.8	--	--
225		405915076032701	30-09-15	327MCCK	1040.00	80.00	266	--	33	--	--	--	68	25
230		405705076091101	30-09-15	324PSVL	1280.00	27.00	687	25	35	--	--	--	46	11
	1/		74-05-09		1280.00	20.00	687	26	35	--	6.1	10.0	46	--
238		410852076065301	66-12-08	327MCCK	812.00	1.00	80	18	10	189	4.0	10.5	51	11
242		410907076054701	66-11-30	327MCCK	945.00	--	73	--	--	--	--	12.0	54	18
			66-12-01		945.00	18.00	73	18	10	216	8.1	11.6	99	35

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											LACKAWANNA				
--	--	--	--	70	4.5	2.5	.1	--	2.9	--	.06	60	40	80	--
--	--	--	--	71	8.5	3.5	.1	--	5.3	--	.34	70	50	85	--
--	--	--	--	88	12	3.0	.1	--	1.2	--	.03	90	10	100	--
--	--	--	--	--	--	--	--	--	--	--	--	280	20	--	--
--	--	--	--	34	--	1.6	--	--	--	--	--	380	20	--	--
--	--	--	--	75	--	.4	--	--	--	--	--	2800	70	--	--
7.0	--	--	--	25	13	1.0	.0	12	1.1	--	--	29000	2400	--	225
--	--	--	--	--	--	1.0	--	--	1.1	--	--	29000	2400	202	--
--	9.1	--	--	124	8.0	12	.1	--	6.6	--	.03	120	10	156	--
--	7.7	--	--	115	16	14	.1	--	3.8	--	.06	30	30	158	--
--	--	7.6	--	85	13	6.0	.1	--	3.1	--	--	400	20	116	--
3.7	--	1.0	--	102	5.0	3.0	--	--	3.0	--	--	--	--	--	--
8.6	7.2	10	3.0	126	9.7	1.2	--	9.8	.00	--	--	40	--	121	127
5.8	16	18	1.7	18	23	36	.2	--	1.0	--	.09	1320	30	109	--
--	--	--	--	132	6.0	9.0	.1	--	5.3	--	.18	110	70	142	--
											LUZERNE				
--	--	7.0	--	31	9.0	3.0	--	--	--	--	--	--	--	--	--
--	--	4.0	--	11	8.0	1.0	--	--	.10	--	--	--	--	--	--
--	--	11	--	127	20	7.2	.1	--	6.2	--	.09	140	70	199	--
--	--	2.0	--	7	1.0	1.0	.0	--	--	--	--	--	--	--	--
--	--	3.4	--	9	2.0	6.0	.0	--	.80	--	.06	120	0	26	--
--	--	103	--	139	19	118	.1	--	6.2	--	.25	150	60	425	--
11	7.2	8.1	.9	82	17	28	.1	10	4.9	--	.64	100	20	150	146
5.0	16	17	.9	89	32	24	.0	11	17	--	.06	70	40	200	191
--	--	11	--	64	12	2.0	--	--	.10	--	--	--	--	--	--
16	--	42	--	59	97	68	--	--	53	--	--	--	--	--	--
13	22	24	2.0	20	11	95	.0	9.2	32	--	.09	80	80	232	233
6.8	35	36	1.0	121	9.9	53	--	16	.00	--	--	60	--	224	214
--	146	--	--	133	6.0	168	--	--	.50	--	--	--	--	393	--
--	2.0	--	--	25	4.0	.5	--	--	.10	--	--	--	--	27	--
--	--	--	--	--	160	8.0	--	--	--	--	--	--	--	270	--
85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
205	4.7	8.2	3.5	608	2670	--	--	--	--	--	--	36500	43000	--	--
4.3	1.0	3.2	2.2	14	34	--	--	--	--	--	--	210	20	--	--
165	3.5	10	6.7	--	--	--	--	--	--	--	--	--	12000	--	--
162	4.4	14	9.2	--	1180	--	--	--	--	--	--	66000	11000	--	--
165	2.6	5.4	2.8	--	1140	--	--	--	--	--	--	46000	12000	--	--
--	2.7	5.4	2.7	288	114	--	--	--	--	--	--	53000	--	--	--
30	2.5	7.9	5.4	--	--	--	--	--	--	--	--	--	5100	--	--
38	2.3	6.8	4.5	--	--	--	--	--	--	--	--	--	6300	--	--
35	14	22	8.2	--	492	--	--	--	--	--	--	7100	7	--	--
15	--	--	--	56	--	--	--	--	--	--	--	18000	4400	--	--
78	2.7	4.6	1.9	0	680	.5	.3	19	.09	--	.00	60000	12000	1130	959
--	--	--	--	--	--	--	--	--	--	--	--	59000	14000	--	--
--	--	--	--	94	11	2.0	--	--	--	--	--	--	--	97	--
--	--	17	--	107	24	18	.1	--	8.4	--	.06	90	60	219	--
1.4	3.1	4.1	1.0	24	13	2.5	--	6.3	.90	--	--	50	--	48	49
--	--	19	--	102	20	12	.1	--	2.3	--	.03	90	40	152	--
--	--	13	--	54	19	17	.1	--	5.8	--	.09	80	30	119	--
11	11	13	2.4	105	17	9.0	.2	2.0	6.6	--	5.2	60	40	160	139
4.3	4.4	5.6	1.2	37	20	6.5	.1	9.1	15	--	.28	640	40	96	98
--	--	15	--	68	32	9.0	.0	--	9.7	--	.09	80	20	159	--
--	11	--	--	81	8.7	14	.1	--	17	--	.06	60	10	158	--
7.5	9.6	10	.7	98	8.3	10	.0	11	3.5	--	.09	140	20	124	120
--	--	10	--	94	3.0	3.0	--	--	1.5	--	--	--	--	--	--
--	12	--	--	129	22	10	.0	--	2.1	--	.12	430	280	154	--
30	.8	2.7	1.9	--	--	--	--	--	--	--	--	--	5600	--	--
29	.6	2.6	2.0	--	--	--	--	--	--	--	--	--	4200	--	--
32	.6	2.3	1.7	--	380	--	--	--	--	--	--	51000	5300	--	--
--	4.0	--	--	10	--	--	--	--	--	--	--	--	--	13	--
--	--	10	--	68	4.3	5.5	.0	--	3.1	--	.03	40	40	86	--
10	1.1	2.7	1.6	78	9.8	--	--	--	--	--	--	10	870	--	--
--	3.1	7.4	4.3	--	274	--	--	--	--	--	--	90	7700	--	--
--	8.0	--	--	86	2.0	2.0	--	--	11	--	--	--	--	93	--
--	4.0	--	--	56	6.0	1.0	--	--	.20	--	--	--	--	57	--
--	18	--	--	88	9.3	.7	.0	--	.10	--	.06	70	180	90	--
5.8	.7	1.6	.9	--	63	--	--	--	--	--	--	10	2000	--	--
2.2	1.4	4.6	3.2	--	--	--	--	--	--	--	--	--	--	--	--
2.8	2.7	3.6	.9	83	28	--	--	--	--	--	--	10	180	--	--

Table 5.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050107--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				LUZERNE										
LU 243		411800076162501	69-03-19	341CSKL	1266.00	43.00	160	43	20	80	7.8	--	32	11
255		411315075582001	65-09-16	1120TSH	520.00	21.00	26	21	260	311	6.7	--	136	38
257		411449075543801	66-07-11	1120TSH	560.00	24.00	30	24	600	673	6.9	11.1	351	114
259		411540075540401	65-03-25	1120TSH	535.00		19	17	5.0	460	6.4	--	179	50
262		410858076070301	67-03-31	321LLLN	986.00	60.00	115	60	12	930	3.0	--	140	8.8
			67-03-31		986.00	--	115	--	--	--	--	--	150	12
282	1/	405814076053001	74-05-09	324PSVL	1410.00	11.00	289	50	45	--	5.8	10.0	13	--
300		411509075535801	65-08-04	1120TSH	525.00	10.00	21	19	90	618	6.9	12.2	295	91
301		411522075540301	65-06-05	1120TSH	530.00	16.00	24	20	--	523	6.2	--	227	66
304		411653075514801	65-03-24	1120TSH	535.00	21.00	29	29	--	361	6.3	--	144	37
305		411835075503701	66-08-02	1120TSH	546.00	16.00	25	16	93	213	6.3	10.0	85	25
309		411757075505801	66-05-21	1120TSH	540.00	30.00	40	35	--	185	6.9	--	78	22
311		412019075475801	66-05-23	1120TSH	570.00		38	36	--	845	7.1	15.5	437	106
312		411706075525701	66-05-24	1120TSH	555.00	22.00	40	36	--	518	7.1	13.3	256	90
319		411535075530601	72-05-10	1120TSH	534.00	9.00	82	82	--	--	--	--	--	8.0
320		411535075530602	72-05-10	321LLLN	534.00	10.00	363	110	--	--	--	--	--	13
386	1/	405508076013401	72-11-20	324PSVL	1680.00	4.00	500	159	12	--	6.3	--	18	6.4
387	1/	405703076033701	77-08-25	324PSVL	1670.00	6.00	326	--	98	--	6.4	9.5	26	--
388	1/	405848076010901	72-10-18	324PSVL	1580.00	13.00	255	--	93	--	6.3	10.5	45	--
389	1/	405936076033001	74-04-22	331MCCK	920.00	5.00	247	67	25	--	7.3	--	71	--
390	1/	405935076032801	74-04-22	331MCCK	930.00	15.00	255	52	20	--	7.2	--	51	--
391	1/	405900076031501	74-04-22	324PSVL	1170.00	22.00	230	50	35	--	7.3	--	48	--
394	1/	410052075543101	74-01-30	331MCCK	1900.00	0.00	500	87	250	160	6.3	--	44	10
395	1/	411947075561701	74-02-05	341CSKL	1190.00	--	302	100	82	--	7.9	--	66	--
396	1/	411922075562401	73-01-08	341CSKL	1060.00	27.00	285	110	35	--	7.5	--	87	--
397	1/	411924075564201	74-03-05	341CSKL	1035.00	29.00	398	24	60	195	7.4	--	62	20
398	1/	411847075563301	74-02-05	341CSKL	1070.00	27.00	388	200	60	--	7.2	--	95	--
399	1/	411836075561601	72-12-20	341CSKL	1030.00	0.00	420	90	82	550	6.2	11.0	110	33
400	1/	411940075550401	73-03-26	341CSKL	1196.00	80.00	500	120	15	--	7.5	--	46	--
401	1/	412009076005001	73-04-02	341CSKL	1325.00	98.00	400	22	150	--	6.9	--	84	--
402	1/	411947075570701	75-02-06	341CSKL	1090.00	--	179	80	14	--	6.9	--	148	--
403	1/	411934075555701	75-02-06	341CSKL	1175.00	--	350	27	16	--	6.9	--	120	--
404	1/	411924075561301	75-02-06	341CSKL	1140.00	--	408	180	9.0	--	6.8	--	110	--
405	1/	411829075550201	75-02-04	341CSKL	1310.00	--	303	--	15	--	7.6	--	130	--
406	1/	411855075551301	75-02-04	341CSKL	1070.00	28.00	395	32	29	--	7.1	--	61	--
407	1/	411927075570901	75-02-06	341CSKL	1170.00	--	525	--	30	--	6.9	--	97	--
409	1/	412057075592901	74-03-07	341CSKL	1360.00	--	365	60	15	--	7.4	--	85	--
410	1/	412103075594201	74-03-07	341CSKL	1320.00	--	182	42	15	--	6.7	--	47	--
412	1/	412148076015201	75-02-11	341CSKL	1380.00	75.00	750	38	55	--	7.5	--	67	--
413	1/	412138076013701	72-05-02	341CSKL	1460.00	65.00	550	38	45	--	6.7	--	70	--
415	1/	412055076025801	75-02-04	341CSKL	1320.00	90.00	210	41	60	--	6.5	--	48	--
416	1/	410113076025401	70-11-05	331MCCK	993.00	--	125	55	73	--	7.3	--	220	--
				MONTOUR										
MT 3		405730076364501	31-09-04	351TNLY	520.00	52.00	118	60	11	--	--	--	130	30
25	1/	405802076344201	71-05-24	351TNLY	615.00	46.30	328	92	200	416	7.7	--	210	65
				NORTHUMBERLAND										
NU 35		405619076452501	30-10-28	351BMBG	620.00	24.00	644	--	71	--	--	--	95	28
36	1/	405625076452701	73-11-20	354CLNN	630.00	0.00	600	--	71	200	7.8	--	81	24
				SULLIVAN										
SU 38		412134076173401	58-08-28	337POCN	2320.00	170.00	500	170	350	104	6.3	--	49	15
			59-08-25		2320.00	--	500	--	--	104	6.1	--	47	15
			60-09-27		2320.00	--	500	--	--	163	6.8	10.0	84	27
			62-01-11		2320.00	--	500	--	--	100	6.6	--	47	15
			63-02-07		2320.00	--	500	--	--	130	6.8	10.0	57	18
			64-01-08		2320.00	--	500	--	--	109	6.9	10.6	50	16
			65-01-21		2320.00	--	500	--	--	109	6.9	11.1	49	16
			65-01-21		2320.00	--	500	--	--	100	6.5	11.1	45	14
			66-01-12		2320.00	--	500	--	--	176	6.8	--	84	29
			67-01-10		2320.00	--	500	--	--	109	6.5	--	49	16
			68-01-11		2320.00	--	500	--	--	107	6.5	11.0	51	16
			69-03-27		2320.00	--	500	--	--	100	6.7	--	46	15
			72-08-10		2320.00	--	500	--	--	100	7.3	--	46	15
39		412154076190801	62-01-11	337POCN	2300.00	102.00	310	102	80	143	7.2	10.6	66	21
			63-02-08		2300.00	--	310	--	--	142	6.8	11.1	66	19
			64-01-08		2300.00	--	310	--	--	135	6.9	--	63	20
			65-02-12		2300.00	--	310	--	--	132	6.9	11.1	64	20

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											LUZERNE				
1.1	2.7	3.2	.5	36	9.0	2.5	.0	7.7	.10	--	.00	10000	260	55	53
9.7	4.1	6.0	1.9	34	86	10	.1	14	24	--	--	0	200	222	204
16	12	14	2.0	217	120	24	.0	15	34	--	.10	20	0	465	444
13	16	21	5.0	81	101	23	.0	10	28	--	.00	210	0	286	286
29	.6	2.4	1.8	166	304	--	--	--	--	--	--	31000	4300	--	--
29	.7	3.4	2.7	--	--	--	--	--	--	--	--	--	--	--	--
--	6.4	--	--	33	5.3	2.3	.0	--	.10	--	.09	20	30	54	--
16	14	16	2.0	141	142	24	.0	19	31	--	--	70	100	441	409
15	14	17	2.9	72	164	18	.0	17	10	--	.00	1000	--	342	343
12	9.0	11	2.4	46	102	19	.0	7.0	1.6	--	.00	190	0	252	213
5.5	6.0	7.8	1.8	63	36	8.9	.0	9.1	.20	--	--	870	1200	135	124
5.6	4.9	6.6	1.7	46	31	9.5	.1	5.6	5.1	--	--	40	0	115	108
42	11	16	4.8	325	173	18	.1	15	.80	--	--	50	0	545	531
7.6	10	12	2.2	186	107	9.7	.0	13	.30	--	--	60	0	347	331
--	--	--	--	--	--	--	--	--	--	--	--	3100	100	--	--
--	--	--	--	--	--	--	--	--	--	--	--	5000	150	--	--
.5	2.2	2.6	.4	15	7.0	4.0	.0	3.4	1.2	--	--	50	30	26	33
--	1.8	--	--	16	10	3.5	.0	--	.50	--	.00	90	150	45	--
--	--	--	--	32	5.5	10	.1	--	5.3	--	.09	60	40	58	--
--	10	--	--	81	7.5	6.8	.0	--	11	--	.12	70	20	112	--
--	--	15	--	34	14	28	.1	--	1.5	--	.15	70	10	128	--
--	--	11	--	41	10	18	.1	--	2.4	--	.21	90	10	102	--
4.6	10	15	5.4	18	15	26	.1	5.5	10	--	1.2	110	20	112	97
--	--	34	--	115	24	13	.1	--	2.2	--	.06	110	120	168	--
--	--	25	--	109	22	19	.1	--	2.7	--	.09	20	60	158	--
3.0	13	15	1.6	93	11	10	.1	12	7.1	--	.06	70	30	130	124
--	--	21	--	112	25	22	.1	--	8.4	--	.06	40	40	174	--
7.2	84	92	8.3	139	27	97	.2	10	10	--	.12	140	40	382	346
--	--	27	--	110	4.0	6.5	.1	--	2.2	--	.09	50	160	126	--
--	13	--	--	99	12	9.5	.0	--	10	--	.06	30	10	160	--
--	--	26	--	122	20	56	.1	--	5.3	--	.06	70	10	256	--
--	--	12	--	100	14	27	.1	--	13	--	.09	110	10	173	--
--	--	27	--	115	14	37	.1	--	9.7	--	.06	60	10	190	--
--	--	5.5	--	132	16	8.5	.2	--	3.9	--	.06	130	30	172	--
--	--	--	--	59	12	3.5	.1	--	.70	--	.03	110	30	84	--
--	--	--	--	83	16	14	.0	--	5.3	--	.03	90	100	147	--
--	--	20	--	139	6.0	4.3	.1	--	2.7	--	.09	60	10	145	--
--	--	4.4	--	52	3.0	5.0	.1	--	4.4	--	.09	90	10	72	--
--	6.6	--	--	88	7.5	2.0	.1	--	.80	--	.03	70	10	104	--
--	--	11	--	82	21	3.0	.0	--	1.8	--	--	100	200	116	--
--	--	22	--	83	9.5	9.7	.1	--	5.3	--	.09	80	10	120	--
--	--	19	--	120	99	18	.0	--	42	--	--	120	0	378	--
											MONTOUR				
13	1.9	2.9	1.0	135	10	2.1	--	7.2	6.6	--	--	90	--	152	138
11	8.7	--	--	204	20	20	.1	6.6	18	--	.03	40	10	310	250
											NORTHUMBERLAND				
6.1	--	--	--	129	9.0	2.0	--	--	.40	--	--	--	--	--	--
5.1	14	18	3.5	115	12	3.0	.2	7.2	1.2	--	.15	90	10	120	128
											SULLIVAN				
--	--	--	--	56	6.3	1.2	.2	6.9	.70	--	--	1500	280	66	--
--	--	--	--	47	6.5	2.4	.0	7.6	.20	--	--	1100	290	71	--
4.1	1.2	2.2	1.0	94	7.9	1.8	.1	6.4	1.6	--	--	1500	100	100	99
--	1.1	2.3	1.2	50	6.7	2.0	.1	6.1	.10	--	--	1600	570	64	--
2.9	.8	1.6	.8	60	7.1	3.0	.0	6.4	.00	--	--	870	550	80	70
2.4	1.3	1.3	.0	56	7.0	2.0	.0	5.7	.40	--	--	660	340	68	63
2.2	1.6	3.0	1.4	56	6.6	1.8	.0	6.3	.20	--	--	--	--	70	64
2.4	1.3	3.0	1.7	52	6.6	1.4	.0	5.5	.00	--	--	--	--	68	59
2.7	1.2	1.8	.6	90	10	1.9	.0	5.1	1.5	--	--	370	130	103	97
2.2	1.0	2.2	1.2	54	7.7	1.5	.0	5.5	.40	--	--	3700	450	69	66
2.8	1.0	2.3	1.3	51	8.6	2.0	.0	5.0	.20	--	--	2000	550	70	65
2.0	1.3	2.5	1.2	50	7.1	.7	.0	5.0	.10	--	--	1100	500	66	59
2.0	1.1	1.9	.8	45	7.8	3.2	.1	5.3	.20	--	--	50	580	54	58
3.4	1.0	2.2	1.2	82	3.4	.7	.1	5.2	.10	--	--	3600	830	85	81
4.4	.8	1.6	.8	74	5.9	1.2	.1	4.6	.00	--	--	8900	1000	83	83
--	1.3	1.3	.0	80	5.8	.4	.0	4.7	.00	--	--	6500	1000	82	--
3.4	1.2	2.0	.8	80	5.7	.6	.1	4.7	.10	--	--	--	--	78	76

Table 5.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050107--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			SULLIVAN										
SU 39	412154076190801	66-01-12	337POCN	2300.00	--	310	--	--	127	6.7	10.0	63	20
		67-01-10		2300.00	--	310	--	--	127	6.6	--	61	20
		68-01-11		2300.00	--	310	--	--	113	6.5	--	54	17
		69-01-14		2300.00	--	310	--	--	136	6.8	4.4	64	21
		72-08-10		2300.00	--	310	--	--	122	7.7	--	56	18
40	412130076174001	53-06-16	337POCN	2360.00	250.00	301	250	6.0	129	7.9	--	62	21
		54-09-13		2360.00	--	301	--	--	138	7.0	--	59	21
		55-05-05		2360.00	--	301	--	--	160	7.9	10.0	68	25
		55-11-23		2360.00	--	301	--	--	165	8.1	8.9	73	28
		56-11-07		2360.00	--	301	--	--	186	6.4	8.9	86	30
		57-09-25		2360.00	--	301	--	--	89	7.2	8.9	39	13
		58-08-28		2360.00	--	301	--	--	211	6.2	10.0	110	37
		59-08-25		2360.00	--	301	--	--	101	6.9	10.6	46	14
		60-09-27		2360.00	--	301	--	--	239	6.5	10.0	120	46
		62-01-11		2360.00	--	301	--	--	211	6.4	10.0	100	38
		62-01-11		2360.00	--	301	--	--	107	6.7	11.1	51	16
		63-02-07		2360.00	--	301	--	--	262	6.8	10.6	130	43
		64-01-08		2360.00	--	301	--	--	109	6.9	--	50	16
		64-01-08		2360.00	--	301	--	--	104	7.5	10.0	50	16
		64-01-08		2360.00	--	301	--	--	104	6.9	--	50	16
		65-01-21		2360.00	--	301	--	--	151	6.7	--	74	25
		66-01-12		2360.00	--	301	--	--	226	6.7	10.6	110	39
		67-01-10		2360.00	--	301	--	--	229	6.7	--	120	44
		68-01-11		2360.00	--	301	--	--	114	6.6	12.0	54	17
		69-01-14		2360.00	--	301	--	--	227	6.9	4.4	120	42
		71-05-12		2360.00	--	301	--	--	165	6.9	--	71	25
		72-08-10		2360.00	--	301	--	--	154	7.9	12.2	66	23
			SUSQUEHANNA										
SQ 60	413832075315101	69-01-14	341CSKL	1790.00	60.00	168	92	37	301	7.7	9.3	119	--
			WAYNE										
WN 104	414850075255001	30-09-19	341CSKL	2020.00	140.00	240	146	40	--	--	10.0	74	11

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
		COLUMBIA											
CO 56 1/	410723076320501	344HMLN	500	21	39	820	--	30	50	100	--	--	200
81 1/	410720076320501	112TILL	10	10	--	--	--	10	5	--	--	--	200
		LACKAWANNA											
LK 1 S	413355075331501	341CSKL	595	--	4.0	65	--	--	--	--	--	--	--
7	413441075282301	341CSKL	--	--	70	72	--	--	--	--	--	--	--
99	412043075345201	341CSKL	283	--	--	159	--	--	--	--	--	--	--
			283	120	105	205	--	0	--	--	--	--	--
			283	--	--	--	--	--	--	--	--	--	--
			283	--	--	--	--	--	--	--	--	--	--
			283	--	--	--	--	--	--	--	--	--	--
1/			283	120	105	226	--	10	--	50	--	--	--
108	412657075431401	341CSKL	118	23	6.0	283	--	--	--	--	--	--	--
109	412625075421801	337POCN	142	90	30	54	--	--	--	--	--	--	--
114	412607075422001	337POCN	281	50	6.0	117	--	50	--	--	--	--	--
122	413358075322701	324PSVL	150	40	50	86	--	--	--	--	--	--	--
123	413407075331701	341CSKL	260	110	10	249	--	--	--	--	--	--	--
124	413718075323101	341CSKL	130	69	25	316	--	--	--	--	--	--	--
251 1/	412935075403201	341CSKL	376	58	200	250	--	--	--	100	--	--	--
252 1/	412922075405801	341CSKL	647	37	160	305	--	--	--	100	--	--	--
253	413803075313201	341CSKL	118	62	30	118	--	30	--	--	--	--	--
254	413828075315001	341CSKL	180	34	5.0	308	--	20	--	--	--	--	--
258 1/	412933075421101	341CSKL	565	76	352	--	--	--	--	100	--	--	--
272	413542075311001	341CSKL	145	70	15	265	--	0	--	--	--	--	--
320	412041075350201	341CSKL	198	125	27	216	--	--	--	--	--	--	--
322 1/	412139075330101	341CSKL	255	40	110	--	--	--	--	--	--	--	--
323 1/	412128075332001	341CSKL	169	62	60	135	--	--	--	--	--	--	--
324 1/	412126075325901	341CSKL	369	40	45	--	--	--	--	--	--	--	--
325 1/	412147075340101	341CSKL	225	110	40	--	--	--	--	--	--	--	--
342	411749075260501	341CSKL	150	69	6.0	68	--	200	--	--	--	--	--
366	411852075354801	341CSKL	107	98	11	91	--	20	--	--	--	--	--
397	412149075364801	341CSKL	190	35	20	126	--	60	--	--	--	--	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											SULLIVAN				
3.2	.8	1.3	.5	71	6.4	.8	.0	5.8	.50	--	--	3700	900	78	78
2.7	.5	1.8	1.3	72	4.9	.5	.0	4.6	.20	--	--	3800	810	78	75
2.8	1.0	2.2	1.2	58	7.6	1.3	.0	3.1	.50	--	--	4500	960	70	70
2.8	.8	2.0	1.2	74	6.5	.5	.0	5.5	.20	--	--	1600	600	91	77
2.7	.7	1.7	1.0	63	7.0	1.0	.1	5.4	.00	--	.00	--	--	70	67
2.2	--	4.0	--	67	7.9	4.0	.1	6.9	1.3	--	--	40	--	82	--
1.7	7.8	--	--	58	20	5.0	.1	5.4	.80	--	--	0	--	101	90
1.4	7.1	--	--	78	9.4	5.5	.1	5.4	2.2	--	--	0	--	102	95
.7	--	4.7	--	84	9.2	1.5	.1	7.6	2.8	--	--	20	--	120	--
2.6	--	4.2	--	87	15	2.7	.2	8.1	4.4	--	--	20	--	123	--
1.7	--	2.8	--	45	6.3	1.0	.1	6.6	.20	--	--	940	1000	68	--
3.4	--	.5	--	101	17	3.0	.0	6.6	17	--	--	1200	140	128	--
2.6	--	.9	--	47	6.7	1.6	.0	6.8	.20	--	--	3700	510	72	--
1.5	2.0	3.1	1.1	124	15	4.0	.0	6.4	2.6	--	--	3000	90	140	143
2.3	1.6	2.8	1.2	102	15	3.3	.1	5.7	1.7	--	--	7900	170	130	127
2.6	1.1	2.3	1.2	52	6.9	2.8	.1	6.3	.70	--	--	1900	340	70	66
5.4	.8	1.3	.5	129	13	3.4	.1	4.6	.60	--	--	5800	190	148	141
2.4	1.3	1.3	.0	56	7.0	2.0	.0	5.7	.40	--	--	660	340	68	64
2.4	1.3	1.3	.0	55	7.0	2.0	.0	6.0	.60	--	--	1500	570	65	64
2.4	1.3	1.3	.0	56	7.0	2.0	.0	5.4	.40	--	--	870	450	66	63
2.7	1.3	2.7	1.4	81	7.8	2.4	.0	4.1	.80	--	--	7100	430	95	93
2.9	1.9	2.4	.5	113	17	3.2	.0	4.7	2.9	--	--	2900	900	132	132
2.7	1.0	2.2	1.2	124	11	2.5	.0	7.8	2.3	--	--	3700	250	138	138
2.8	1.0	2.2	1.2	55	8.8	2.0	.0	5.2	.60	--	--	3400	500	75	70
3.4	4.3	6.3	2.0	122	9.1	2.5	.0	4.6	1.8	--	--	19000	800	138	150
2.0	3.5	4.5	1.0	76	9.3	6.8	1.4	5.8	1.9	--	--	100	50	111	94
2.0	5.7	6.7	1.0	74	9.0	4.2	.1	5.3	.90	--	.03	120	40	78	88
											SUSQUEHANNA				
--	19	--	--	189	2.9	1.2	--	--	.50	--	--	160	--	--	--
											WAYNE				
--	--	13	--	117	3.0	1.0	--	--	1.8	--	--	--	--	--	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												COLUMBIA			
3	60	10	260	50	310	.5	--	20	--	2	--	--	--	--	10
0	5	10	10	5	10	.0	--	10	--	0	--	--	--	--	30
												LACKAWANNA			
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3400
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3100
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3500
0	10	--	30	0	--	.0	--	40	--	2	--	--	--	--	60
--	--	--	1300	0	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	5500
--	--	--	3100	0	--	--	--	--	--	--	--	--	--	--	110
-	--	--	500	0	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--
0	10	--	40	0	--	.2	--	--	--	0	--	--	--	--	60
0	10	--	40	0	--	.0	--	--	--	0	--	--	--	--	50
--	--	--	600	--	--	--	--	--	--	--	--	--	--	--	30
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	20
0	10	--	40	0	--	.0	--	--	--	0	--	--	--	--	80
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	10
--	--	--	200	30	--	--	--	--	--	--	--	--	--	--	50
0	30	--	80	0	--	.0	--	60	--	1	--	--	--	--	20
0	30	--	180	0	--	.0	--	40	--	1	--	--	--	--	20
0	20	--	350	0	--	.0	--	40	--	2	--	--	--	--	120
0	20	--	10	5	--	.0	--	10	--	--	--	--	--	--	80
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	10
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	10

Table 5.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050107--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			LACKAWANNA										
LK 403	412827075375401	324PSVL	600	500	40	295	--	250	--	--	--	--	--
			600	--	--	792	--	250	--	--	--	--	--
408 1/	412906075402201	341CSKL	250	133	35	--	--	--	--	10	--	--	--
409 1/	412854075403001	341CSKL	270	31	20	--	--	--	--	50	--	--	--
480 1/	412732075410801	337POCN	125	55	4.0	200	--	50	1	680	--	--	--
481 1/	412916075401201	341CSKL	297	61	48	--	--	--	--	--	--	--	--
			LUZERNE										
LU 8 1/	412025075583901	341CSKL	235	60	85	--	.4	--	--	--	--	--	--
9 S 1/	410812075510801	112DRFT	--	--	50	--	--	--	--	--	--	--	--
9 1/	412020075581201	341CSKL	90	90	124	--	--	--	--	--	--	--	--
10 1/	412012075574601	341CSKL	498	103	65	220	--	330	0	50	--	--	0
12 1/	412025075584201	341CSKL	500	26	85	320	--	330	0	50	--	--	0
72 1/	410001075532901	331MCCK	200	32	25	410	--	180	10	70	--	--	0
120	410944076063601	321LLLN	405	--	--	2700	--	3000	--	--	--	--	--
124	410842076082701	324PSVL	170	57	10	98	--	200	--	--	--	--	--
125	410907076075801	321LLLN	485	190	--	--	--	--	--	--	--	--	--
			485	190	--	--	--	5100	--	--	--	--	--
			485	--	10	1650	--	2000	--	--	--	--	--
			485	--	--	--	--	26000	--	--	--	--	--
126	410847076073401	321LLLN	305	--	--	--	--	19000	--	--	--	--	--
137	410901076084001	324PSVL	55	6.0	10	498	--	420	--	--	--	--	--
			55	--	--	1610	--	--	1	--	--	--	--
			55	--	--	--	--	6000	--	19	10	<6	20
145 1/	411907075563701	341CSKL	205	60	18	--	--	--	--	--	--	--	--
165 1/	412002075560701	341CSKL	580	75	12	--	--	--	--	--	--	--	--
171 1/	411955075550501	341CSKL	500	63	150	250	--	0	0	--	--	--	150
172 1/	411852075550501	341CSKL	403	103	42	150	--	170	20	100	--	--	0
173 1/	412015076005001	341CSKL	229	14	12	--	--	--	--	75	--	--	--
174 1/	412015076005002	341CSKL	400	12	65	--	--	--	--	75	--	--	--
177 1/	412112076015601	341CSKL	212	115	25	220	--	90	0	50	--	--	0
196 1/	411633076011501	341CSKL	435	50	325	--	--	--	--	50	--	--	--
198	410847076073402	321LLLN	315	--	--	--	--	--	--	--	--	--	--
			315	--	--	--	--	--	--	--	--	--	--
			315	152	--	895	--	1900	--	--	--	--	--
219 1/	405620076033501	324PSVL	587	--	140	--	--	--	--	--	--	--	--
220	410946076072701	324PSVL	235	12	1.0	144	--	10	--	--	--	--	--
221	410928076072401	324PSVL	185	25	10	585	--	480	--	--	--	--	--
230 1/	405705076091101	324PSVL	687	26	35	--	--	30	--	50	0	--	--
238	410852076065301	327MCCK	80	18	10	189	--	20	--	--	--	--	--
242	410907076054701	327MCCK	73	18	10	216	--	0	--	--	--	--	--
262	410858076070301	321LLLN	115	60	12	930	--	1100	--	--	--	--	--
282 1/	405814076053001	324PSVL	289	50	45	--	--	60	--	50	10	--	--
319	411535075530601	112DTSH	82	82	--	--	--	--	--	--	--	--	--
320	411535075530602	321LLLN	363	110	--	--	--	200	--	--	--	--	--
386 1/	405508076013401	324PSVL	500	159	12	--	--	0	0	50	--	--	0
387 1/	405703076033701	324PSVL	326	--	98	--	--	80	0	10	5	--	--
389 1/	405936076033001	331MCCK	247	67	25	--	--	--	--	100	--	--	--
390 1/	405935076032801	331MCCK	255	52	20	--	--	--	--	100	--	--	--
391 1/	405900076031501	324PSVL	230	50	35	--	--	--	--	100	--	--	--
394 1/	410052075543101	331MCCK	500	87	250	160	--	300	--	100	--	--	--
395 1/	411947075561701	341CSKL	302	100	82	--	--	--	--	--	--	--	--
397 1/	411924075564201	341CSKL	398	24	60	195	--	90	--	100	--	--	250
398 1/	411847075563301	341CSKL	388	200	60	--	--	--	--	--	--	--	--
399 1/	411836075561601	341CSKL	420	90	82	550	--	83	0	50	--	10	0
400 1/	411940075550401	341CSKL	500	120	15	--	--	--	--	--	--	--	--
401 1/	412009076005001	341CSKL	400	22	150	--	--	--	--	100	--	--	--
402 1/	411947075570701	341CSKL	179	80	14	--	--	--	--	50	--	--	--
403 1/	411934075555701	341CSKL	350	27	16	--	--	--	--	50	--	--	--
404 1/	411924075561301	341CSKL	408	180	9.0	--	--	--	--	50	--	--	--
405 1/	411829075550201	341CSKL	303	--	15	--	--	--	--	100	--	--	--
406 1/	411855075551301	341CSKL	395	32	29	--	--	--	--	50	--	--	--
407 1/	411927075570901	341CSKL	525	--	30	--	--	--	--	50	--	--	--
409 1/	412057075592901	341CSKL	365	60	15	--	--	--	--	40	--	--	--
410 1/	412103075594201	341CSKL	182	42	15	--	--	--	--	10	--	--	--
412 1/	412148076015201	341CSKL	750	38	55	--	--	--	--	75	--	--	--
415 1/	412055076025801	341CSKL	210	41	60	--	--	--	--	50	--	--	--
			NORTHUMBERLAND										
NU 36 1/	405625076452701	354CLNN	600	--	71	200	--	110	50	200	--	--	25
			SULLIVAN										
SU 39	412154076190801	337POCN	310	--	--	135	--	200	--	--	--	--	--
40	412130076174001	337POCN	301	--	--	109	--	200	--	--	--	--	--

CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	TIN, DIS-SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI-TANIUM, DIS-SOLVED (UG/L AS TI)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
												LACKAWANNA			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0	10	--	30	0	--	.3	--	10	--	1	--	--	--	--	3000
0	1	--	30	0	--	.0	--	5	--	0	--	--	--	--	100
0	0	0	260	0	0	.0	--	10	--	1	--	--	--	--	30
														10	80
0	10	--	60	0	--	.5	--	70	--	1	--	--	--	--	550
												LUZERNE			
--	10	--	40	--	--	.5	--	10	--	--	--	--	--	--	90
--	--	--	0	0	--	--	--	--	--	0	--	--	--	--	20
3	10	--	30	5	--	--	--	10	--	1	--	--	--	--	50
3	30	0	50	5	50	.5	--	40	--	0	--	--	--	--	20
4	30	0	70	5	50	.5	--	30	--	0	--	--	--	--	120
0	2	0	0	5	25	.5	--	--	--	0	--	--	--	--	30
--	--	--	7000	--	--	--	--	--	--	--	--	--	--	--	3500
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	40	--	--	--	--	320	--	--	820	--	--	--	520
--	--	--	50	--	--	--	--	350	--	--	--	--	--	--	400
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0	<6	370	13	10	120	--	<3	340	--	0	360	<6	<3	<4.0	530
3	10	--	20	5	--	.5	--	10	--	1	--	--	--	--	70
3	10	--	30	5	--	.5	--	10	--	3	--	--	--	--	40
5	30	0	40	0	10	.0	--	60	--	0	--	--	--	--	130
3	10	10	20	5	50	.5	--	20	--	4	--	--	--	--	920
3	10	--	25	--	--	.5	--	10	--	0	--	--	--	--	70
3	10	--	30	5	--	.5	--	30	--	1	--	--	--	--	50
0	10	0	40	--	50	.0	--	20	--	0	--	--	--	--	80
3	10	--	15	--	--	.5	--	--	--	0	--	--	--	--	40
--	--	--	190	--	--	--	--	--	--	--	--	--	--	--	1200
--	--	--	240	--	--	--	--	280	--	--	100	--	--	--	910
--	--	--	500	--	--	--	--	--	--	--	--	--	--	--	5100
--	--	--	20	0	--	--	--	--	--	1	--	--	--	--	10
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0	0	--	10	0	--	.0	--	50	--	1	--	--	--	--	190
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
0	0	--	10	0	--	.0	--	20	--	0	--	--	--	--	2700
--	--	10	--	--	--	--	--	0	--	--	--	--	--	--	50
--	--	10	--	--	--	--	--	10	--	--	--	--	--	--	20
															30
5	20	60	10	0	50	.0	--	0	--	0	--	--	--	--	20
0	0	--	10	5	--	.0	--	5	--	0	--	--	--	--	30
0	10	--	40	0	--	.5	--	--	--	0	--	--	--	--	90
3	10	--	50	0	--	.5	--	--	--	0	--	--	--	--	160
3	10	--	50	0	--	.5	--	--	--	0	--	--	--	--	160
0	3	2	10	5	50	.0	--	10	--	2	--	--	--	--	30
3	10	--	30	0	--	.5	--	10	--	1	--	--	--	--	50
3	10	5	40	2	50	.0	--	10	--	1	--	--	--	--	50
0	3	--	50	0	--	--	--	10	--	2	--	--	--	--	50
3	20	0	35	0	50	.5	--	60	--	0	--	--	--	--	110
10	0	--	30	0	--	.0	--	5	--	0	--	--	--	--	550
0	0	--	20	0	--	.0	--	20	--	0	--	--	--	--	50
3	10	--	10	5	--	--	--	--	--	1	--	--	--	--	30
--	10	--	20	0	--	.5	--	--	--	1	--	--	--	--	190
0	0	--	30	--	--	.0	--	--	--	1	--	--	--	--	270
3	10	--	10	0	--	.5	--	--	--	0	--	--	--	--	130
0	10	--	10	0	--	.0	--	10	--	1	--	--	--	--	120
0	0	--	130	3	--	.0	--	--	--	0	--	--	--	--	100
0	10	--	10	5	--	3.5	--	--	--	3	--	--	--	--	80
0	0	--	10	5	--	.0	--	--	--	0	--	--	--	--	90
3	10	--	30	0	--	.0	--	--	--	1	--	--	--	--	330
3	0	--	70	0	--	.5	--	0	--	1	--	--	--	--	50
												NORTHUMBERLAND			
3	20	30	10	0	50	.5	--	50	--	17	--	--	--	--	40
												SULLIVAN			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

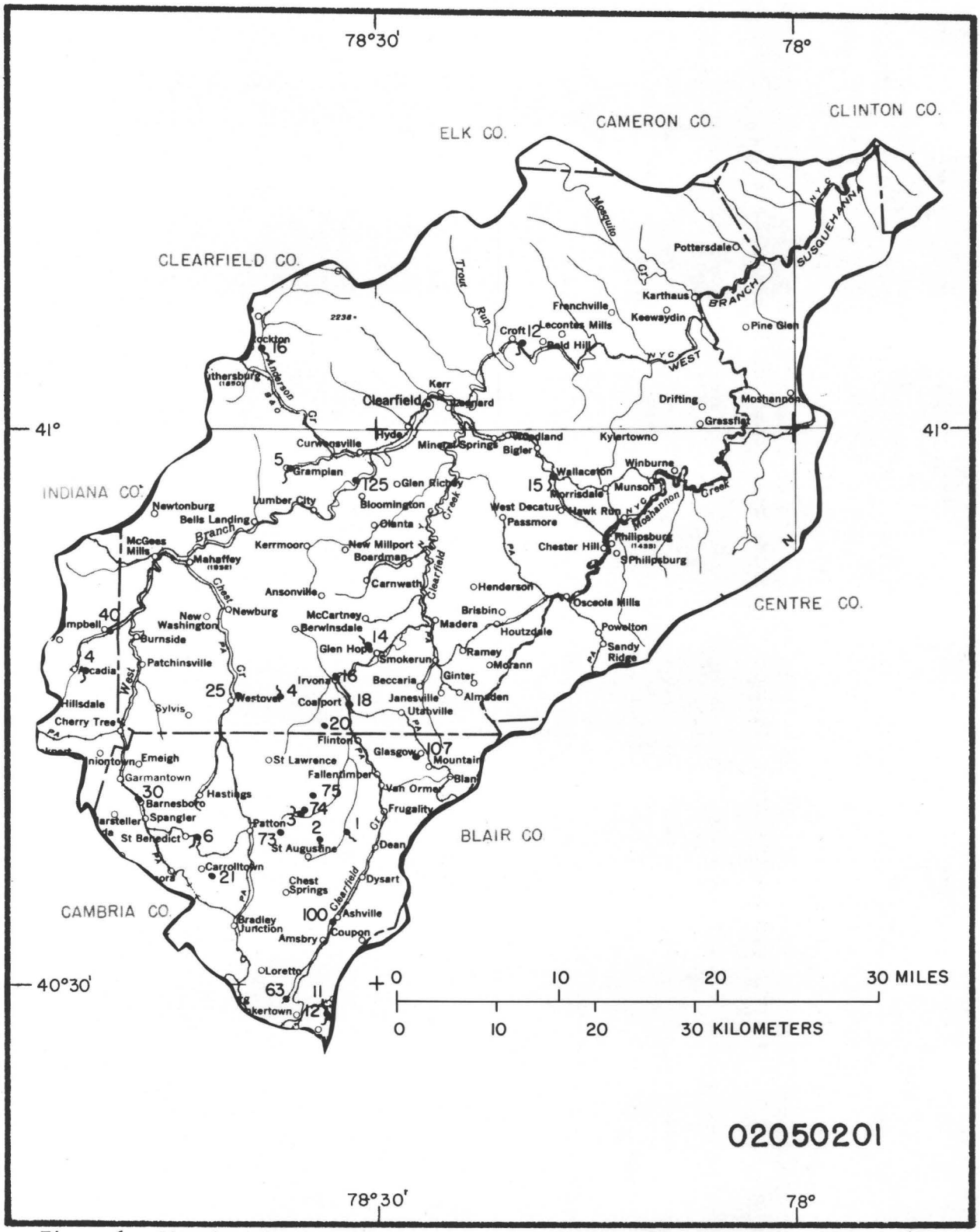

Figure 6.--Site location map for hydrologic unit 02050201.

TABLE 6.--HYDROLOGIC UNIT 02050201
(follows on next page)

Table 6.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050201

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CAMBRIA										
CA 1 S	403816078321802	68-06-26	321CNMG	1490.00	0.00	--	--	--	50	7.1	11.0	--	--
2 S	403753078341501	68-06-27	321CNMG	1490.00	0.00	--	--	--	149	6.8	14.0	52	11
3 S	403907078353501	68-06-27	321CNMG	1570.00	0.00	--	--	--	138	7.5	16.0	55	16
6 S 1/	403750078425701	73-10-11	321BRCK	1910.00	0.00	--	--	45	--	5.4	--	150	--
11 S 1/	402809078332201	70-06-03	321CNMG	2250.00	0.00	--	--	10	--	6.2	--	31	--
12 S 1/	402807078331201	70-06-03	321CNMG	2260.00	0.00	--	--	25	--	5.6	--	14	--
21	403544078415201	33-10-11	324KNNG	1940.00	--	208	--	30	--	--	11.1	--	38
30	403952078471001	33-10-11	324KNNG	1440.00	16.00	126	80	150	--	--	--	300	87
63	402904078363401	33-10-10	321BFFL	1800.00	0.00	125	40	25	--	--	8.9	--	26
73	403809078370101	68-06-27	321CNMG	1770.00	--	--	--	--	109	7.0	17.0	26	6.4
74	403918078352101	68-06-27	321CNMG	1560.00	10.00	85	40	--	302	8.2	16.0	150	44
75	404005078344601	68-06-27	321CNMG	1590.00	--	90	--	--	395	8.2	16.0	140	32
100	403320078331501	66-04-28	324ALGN	1620.00	--	75	--	--	700	7.9	8.9	290	76
107 1/	404218078272001	70-10-06	324ALGN	1750.00	--	210	--	28	--	7.5	--	150	--
			CLEARFIELD										
CF 4 S	404528078370801	34-06-20	321MNNGU	1840.00	0.00	--	--	5.0	--	--	--	39	11
5 S	405753078363601	34-06-19	324GLRC	1640.00	0.00	--	--	10	--	--	11.7	26	6.0
12 S 1/	410445078195701	74-08-20	324PSVL	1220.00	0.00	--	--	15	--	6.7	--	180	--
14 S 1/	404818078304901	69-01-14	324FRPR	1620.00	0.00	--	--	18	--	6.8	--	150	--
15 S 1/	405727078173901	77-03-17	324PSVL	1730.00	0.00	--	--	19	--	4.5	--	76	--
16	404638078330901	34-06-22	324PSVL	1500.00	50.00	165	--	2.0	--	--	--	120	33
16 S 1/	410422078383601	74-01-23	337BRGN	1610.00	0.00	--	--	20	40	6.5	--	14	2.4
18	404503078320701	34-06-19	324PSVL	1400.00	16.00	100	--	70	--	--	--	310	75
20	404357078335701	34-06-22	321MNNGL	1760.00	9.00	32	--	--	--	--	--	66	18
25	404528078400201	34-06-20	324PSVL	1460.00	6.00	175	--	50	--	--	--	110	33
125	405719078315301	73-07-12	111ALVM	1140.00	8.40	14	--	--	498	6.6	--	200	43
		73-11-08		1140.00	--	14	--	--	--	--	--	--	--
		73-11-08		1140.00	--	14	--	--	560	6.5	--	240	43
		74-05-23		1140.00	--	14	--	--	640	5.8	13.0	310	50
		74-05-23		1140.00	--	14	--	--	--	--	--	--	--
		74-10-09		1140.00	--	14	--	--	630	6.1	16.5	300	51
		74-10-09		1140.00	--	14	--	--	--	--	--	--	--
		75-05-22		1140.00	--	14	--	--	680	5.8	--	320	58
		75-05-22		1140.00	--	14	--	--	--	--	--	--	--
		75-10-07		1140.00	--	14	--	--	648	5.9	15.5	320	54
		75-10-07		1140.00	--	14	--	--	648	5.9	15.5	--	--
		76-05-19		1140.00	--	14	--	--	--	--	--	290	50
		76-05-19		1140.00	--	14	--	--	--	--	--	--	--
		76-10-19		1140.00	--	14	--	--	620	5.5	15.0	290	52
		76-10-19		1140.00	--	14	--	--	620	5.5	15.0	--	--
		77-05-10		1140.00	--	14	--	--	775	5.4	10.0	360	68
		77-10-05		1140.00	--	14	--	--	625	5.4	17.5	310	54
		78-05-23		1140.00	--	14	--	--	520	5.4	11.0	240	43
		79-05-29		1140.00	--	14	--	--	530	--	11.5	220	41
		79-10-22		1140.00	--	14	--	--	510	5.4	16.5	190	34
			INDIANA										
IN 4 S 1/	404648078510501	73-04-10	321CNMG	1530.00	0.00	--	--	7.0	31	5.7	--	14	.8
40 1/	404857078492001	72-11-15	324ALGN	1380.00	45.00	205	74	37	--	7.4	--	120	--

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
		CAMBRIA											
CA 100	403320078331501	324ALGN	75	--	--	700	--	0	--	--	--	--	--
		CLEARFIELD											
CF 16 S 1/	410422078383601	337BRGN	--	--	20	40	--	500	10	10	--	--	100
125	405719078315301	111ALVM	14	--	--	--	--	2500	--	65	<2	<7	25
			14	--	--	--	--	1700	7	43	<3	<7	24
			14	--	--	--	--	90	--	40	0	<3	23
			14	--	--	--	--	190	--	30	0	<3	10
			14	--	--	648	--	60	--	30	<1	<3	20
			14	--	--	--	--	400	--	40	<3	<8	20
			14	--	--	620	--	450	--	20	<3	<3	30
			14	--	--	775	.1	30	1	100	--	--	0
			14	--	--	625	.1	10	2	100	--	--	30
			14	--	--	520	.1	30	2	0	--	--	30
			14	--	--	530	.3	30	2	30	--	--	20
			14	--	--	510	.2	20	3	30	--	--	50

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CAMBRIA				
--	1.6	2.4	.8	8	11	2.3	.0	7.5	1.6	--	.31	0	0	39	--
5.9	--	3.7	--	7	22	8.5	--	--	24	--	--	--	--	--	--
3.7	4.6	--	--	44	15	5.0	--	--	8.0	--	--	--	--	--	--
--	--	--	--	12	--	32	.0	--	7.1	--	.06	120	130	235	--
--	--	--	--	23	8.8	1.8	.0	--	1.3	--	--	0	50	36	--
--	--	--	--	5	4.2	3.0	.3	--	2.2	--	--	0	30	19	--
--	--	3.0	--	114	8.0	2.0	--	--	.40	--	--	--	--	--	--
21	--	30	--	163	210	12	--	--	.00	--	--	--	--	--	--
--	--	27	--	187	7.0	1.0	--	--	.00	--	--	--	--	--	--
2.5	3.5	4.6	1.1	15	5.3	3.4	.1	9.3	17	--	.00	--	20	61	39
10	2.9	3.4	.5	162	23	2.5	.2	9.1	5.8	--	.00	--	--	184	178
15	6.5	8.6	2.1	165	15	4.5	.3	15	1.2	--	.00	0	170	195	173
25	5.4	7.5	2.1	0	281	3.0	.1	7.4	.80	--	--	1200	590	537	403
--	--	7.6	--	174	12	3.0	.0	--	4.4	--	.03	1200	230	182	--
											CLEARFIELD				
--	--	8.0	--	14	6.0	6.0	--	--	38	--	--	110	--	--	--
2.6	--	--	3.0	14	12	1.4	--	--	7.1	--	--	110	--	--	--
--	--	14	--	29	151	15	.2	--	3.3	--	--	20	600	235	--
--	--	5.3	--	40	108	11	.3	--	1.5	--	--	0	100	256	--
--	--	5.3	--	5	34	34	.1	--	1.2	--	.00	80	350	136	--
9.8	5.0	6.7	1.7	150	9.2	2.5	--	7.6	.20	--	--	400	--	140	143
1.9	.4	2.0	1.6	12	5.5	1.5	.0	4.4	4.9	--	.03	40	50	30	29
29	51	54	2.7	134	260	31	--	6.4	.00	--	--	28	--	566	521
--	--	9.0	--	14	16	3.0	--	--	66	--	--	1300	--	--	--
7.6	57	59	2.1	175	19	58	--	8.4	.00	--	--	2600	--	269	274
22	17	20	2.7	20	200	8.2	.2	8.1	.00	--	.02	4000	5500	356	321
--	--	--	--	--	--	--	--	--	--	--	--	2100	9200	--	--
31	10	13	2.7	23	230	7.0	.2	7.4	.30	--	.00	310	7500	390	351
45	11	14	2.7	20	260	6.7	.1	8.0	.70	--	.00	1300	5500	470	401
--	--	--	--	--	--	--	--	--	--	--	--	2100	7300	--	--
41	12	15	2.6	20	290	6.1	.1	8.0	.80	--	.00	210	5100	456	427
--	--	--	--	--	--	--	--	--	--	--	--	240	7600	--	--
43	15	18	3.0	15	330	7.6	.1	8.6	.31	--	.00	400	5100	541	479
--	--	--	--	--	--	--	--	--	--	--	--	600	4500	--	--
44	15	18	3.1	18	340	7.4	.0	8.7	.31	--	.03	360	450	485	482
--	--	--	--	--	--	--	--	--	--	--	--	400	7000	--	--
39	15	18	3.2	16	290	7.7	.1	8.5	.31	--	.03	630	3700	466	426
--	--	--	--	--	--	--	--	--	--	--	--	2000	3800	--	--
40	16	19	3.2	19	310	8.7	.1	9.3	.62	--	.00	390	3700	478	453
--	--	--	--	--	--	--	--	--	--	--	--	>1500	>1500	--	--
47	17	21	3.6	11	370	7.8	.0	9.2	.35	.01	.00	100	2600	604	534
43	16	20	3.5	12	310	8.1	.0	9.3	.44	.01	.00	20	2700	504	457
33	14	17	3.0	14	250	6.1	.0	8.6	.66	.04	.00	0	1900	405	370
29	16	19	2.6	10	230	7.8	.1	8.2	2.9	.73	.00	30	2800	375	348
26	15	18	2.8	--	190	7.8	.1	8.9	.62	.17	.00	10	2300	332	297
											INDIANA				
3.0	--	4.4	--	7	4.0	10	.0	--	.80	--	--	20	0	22	--
--	--	54	--	183	5.2	54	.2	--	.90	--	.12	290	150	312	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												CAMBRIA			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
												CLEARFIELD			
0	2	20	20	5	--	.0	--	20	--	2	--	--	--	--	30
10	<3	50	130	1600	6	--	<2	600	--	0	240	<7	120	5.0	500
5	<3	30	120	800	4	--	<3	310	--	0	200	<7	>70	<3.0	500
8	<3	25	130	1200	4	--	<2	280	--	0	200	<3	<2	<2.0	2000
<5	<1	20	110	700	3	--	<1	150	--	0	140	<3	<5	<2.0	700
10	<3	17	350	1800	3	--	3	400	--	<0	150	<3	3	<3.0	2000
2	<7	16	240	1400	0	--	<2	370	--	<1	150	<7	20	<7.0	640
6	<3	30	150	>150	0	--	<3	>150	--	5	90	<5	90	<6.0	1200
5	4	6	240	850	10	--	--	430	0	0	220	--	--	--	620
5	9	5	250	2000	0	--	--	690	0	0	140	--	--	--	750
4	0	5	200	900	0	--	--	610	0	0	240	--	--	--	530
2	0	9	250	900	7	--	--	240	0	0	130	--	--	--	620
6	1	7	260	680	9	--	--	500	0	0	120	--	--	--	780

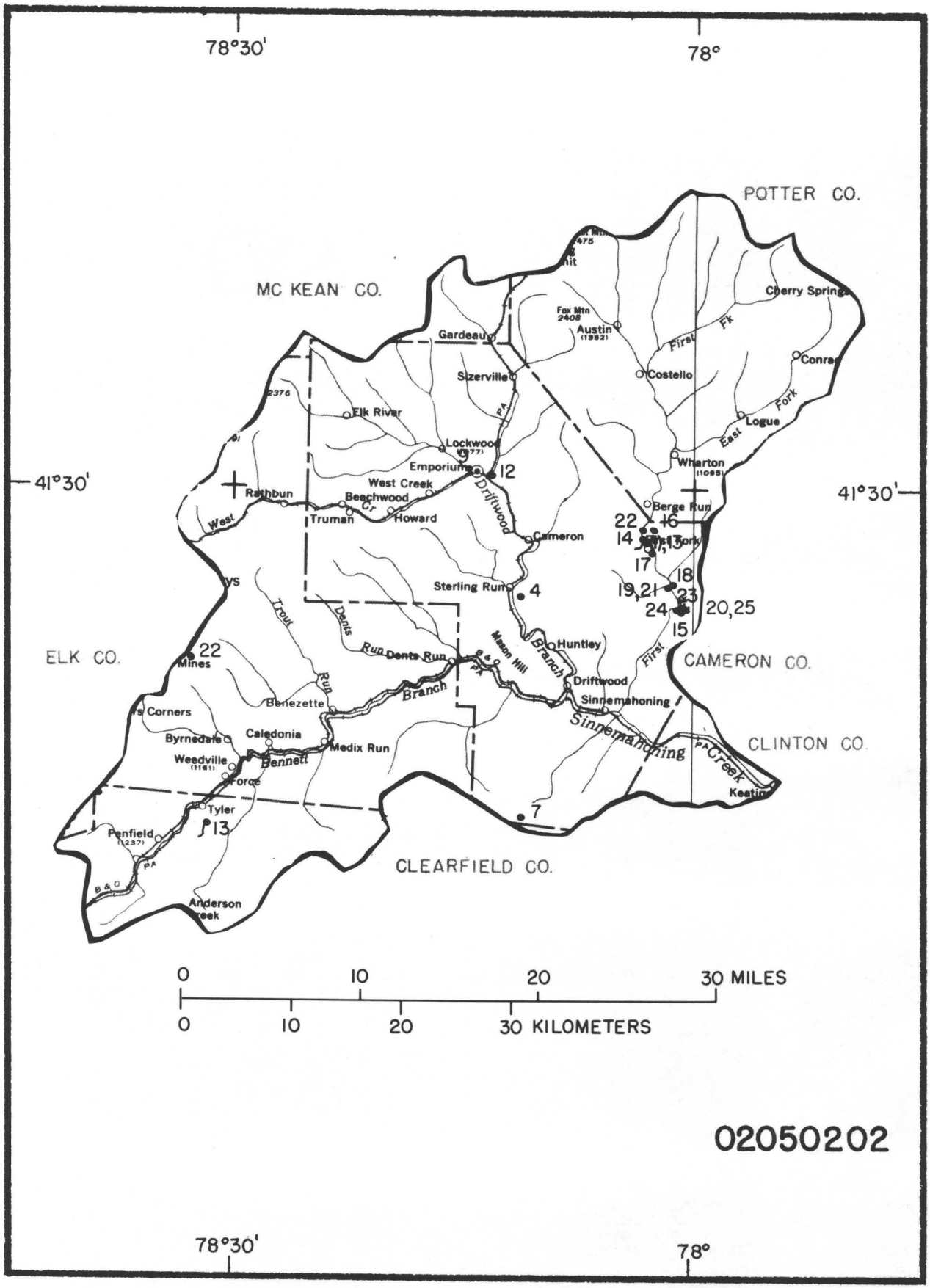

Figure 7.--Site location map for hydrologic unit 02050202.

TABLE 7.--HYDROLOGIC UNIT 02050202
(follows on next page)

Table 7.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050202

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CAMERON										
CM 1 S	412732078034101	68-04-10	341CSKL	990.00	0.00	--	--	--	120	6.9	--	28	7.0
		68-07-23		990.00	0.00	--	--	--	82	7.3	--	31	8.8
4 S	412446078114201	35-09-14	341CSKL	920.00	15.00	52	11	15	--	--	--	85	25
7	411400078112701	35-09-14	337POCN	1980.00	82.00	292	29	40	--	--	--	33	--
9	413100078151201	35-09-14	112PLSC	1040.00	35.00	73	69	20	--	--	--	220	55
12	413040078134301	35-09-14	341CMNG	1030.00	25.00	67	56	10	--	--	--	22	5.5
13	412732078034201	67-11-13	341CSKL	1010.00	26.00	102	57	10	156	7.6	9.0	31	8.5
		68-04-10		1010.00	--	102	--	--	151	7.9	12.0	33	8.0
14	412737078034401	67-10-11	341CSKL	1005.00	26.00	60	52	20	101	7.6	9.0	30	6.3
		68-04-29		1005.00	--	60	--	--	104	7.5	8.0	28	6.0
15	412410078012001	67-10-12	341CSKL	900.00	40.00	44	40	--	190	7.8	10.0	63	16
		68-04-10		900.00	--	44	--	--	147	7.6	10.0	53	14
16	412805078031101	67-10-17	341CSKL	1150.00	40.00	60	40	--	111	6.8	14.0	34	7.5
		68-04-29		1150.00	--	60	--	--	113	6.8	10.0	29	6.5
17	412701078031201	68-04-10	341CSKL	1145.00	--	272	--	--	449	7.7	12.0	14	4.3
18	412524078014801	67-10-19	341CSKL	930.00	5.20	70	17	40	161	7.4	11.0	84	18
		68-04-11		930.00	--	70	--	--	142	7.1	9.0	48	14
19	412519078015501	67-10-19	341CSKL	950.00	--	123	40	40	198	7.6	9.0	51	13
		68-04-11		950.00	--	123	--	--	151	7.0	9.0	44	12
20	412414078010701	68-04-29	341CSKL	920.00	27.00	33	--	--	288	6.6	11.0	72	18
21	412517078015601	68-04-29	341CSKL	960.00	--	167	23	15	292	7.6	--	64	17
22	412800078034101	67-11-13	341CSKL	1010.00	4.10	8.0	4.1	--	58	6.0	12.0	19	3.5
		68-04-29		1010.00	--	8.0	--	--	67	6.5	10.0	18	4.0
23	412419078011501	67-11-13	341CSKL	--	--	148	--	--	188	7.7	10.0	85	20
		68-04-30		--	--	148	--	--	199	7.4	11.0	83	20
24	412409078012601	68-05-16	341CSKL	920.00	--	120	--	--	3390	7.8	--	830	230
25	412417078010701	67-10-11	341CSKL	930.00	47.00	133	47	--	781	8.4	--	96	17
			CLEARFIELD										
CF 13 S 1/	411326078315201	74-09-17	324PSVL	1360.00	0.00	--	--	5.0	--	6.7	--	50	--
			ELK										
EK 22	412135078330701	35-09-16	324PSVL	2150.00	--	112	--	--	--	--	--	32	--

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
		CAMERON											
CM 1 S	412732078034101	341CSKL	--	--	--	120	--	--	--	--	--	--	--
			--	--	--	82	--	--	--	--	--	--	--
13	412732078034201	341CSKL	102	--	--	151	--	0	--	--	--	--	--
15	412410078012001	341CSKL	44	--	--	147	--	--	--	--	--	--	--
17	412701078031201	341CSKL	272	--	--	449	--	0	--	--	--	--	--
18	412524078014801	341CSKL	70	--	--	142	--	--	--	--	--	--	--
19	412519078015501	341CSKL	123	--	--	151	--	0	--	--	--	--	--
23	412419078011501	341CSKL	148	--	--	199	--	--	--	--	--	--	--
25	412417078010701	341CSKL	133	47	--	781	--	--	--	--	--	--	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CAMERON				
2.5	10	11	1.3	22	17	12	.1	5.3	.40	--	.00	140	10	70	66
2.2	2.4	3.7	1.3	26	10	4.3	.0	4.0	1.3	--	--	970	340	50	49
5.4	--	7.0	--	101	10	4.0	--	--	.20	--	--	190	--	101	--
--	--	--	--	41	5.0	.0	--	--	.00	--	--	12000	--	--	--
20	--	80	--	306	10	93	--	--	.90	--	--	6500	--	410	--
1.9	1.6	2.5	.9	18	8.8	1.1	.0	5.9	.10	--	--	270	--	35	35
2.4	24	26	2.0	104	1.5	.5	--	9.6	.10	--	--	1200	80	--	101
3.0	21	23	1.8	96	.2	.6	.0	10	.40	--	.40	580	10	97	92
3.4	21	22	.6	58	2.0	3.5	--	8.2	.10	--	--	--	--	--	74
3.2	10	10	.4	56	.8	4.1	.0	7.6	.00	--	.00	0	30	61	60
5.6	14	15	1.0	81	3.9	19	--	8.0	1.1	--	--	--	--	--	109
4.4	8.6	9.8	1.2	56	4.5	14	.0	7.6	2.6	--	.00	30	0	86	84
3.6	12	13	1.0	37	8.8	12	--	6.8	--	--	--	--	--	--	70
3.2	9.5	11	1.0	29	8.2	14	.0	5.2	.00	--	.00	0	140	69	62
.9	86	88	2.2	130	12	54	.2	6.9	.10	--	.10	0	50	254	231
9.6	13	15	1.7	55	16	9.5	--	5.9	4.9	--	.00	20	20	--	106
3.1	8.2	9.4	1.2	36	15	14	.0	5.5	1.0	--	.00	2900	30	82	80
4.6	24	25	1.1	69	6.9	20	--	7.9	--	--	--	--	--	--	111
3.4	12	13	1.1	59	3.3	14	.0	7.4	1.0	--	.00	1600	20	88	83
6.5	20	24	3.5	22	11	55	.0	5.2	18	--	.00	20	20	203	148
5.2	31	33	1.7	81	8.2	46	.0	7.2	.80	--	.00	0	0	157	157
2.4	6.5	7.6	1.1	6	14	4.5	--	6.3	.00	--	.92	580	20	--	43
2.0	3.8	4.7	.9	7	11	8.1	.0	4.8	.00	--	.00	40	20	44	38
8.4	5.5	6.6	1.1	85	16	5.5	--	8.2	--	--	--	--	--	--	107
8.0	6.0	7.0	1.0	86	13	9.5	.0	8.3	2.7	--	.00	240	30	123	111
61	367	373	6.2	94	1.0	1040	.0	8.9	.10	--	.00	--	--	2100	1760
13	105	108	2.7	218	2.0	108	.0	--	.20	--	--	870	740	--	--
											CLEARFIELD				
--	--	--	--	43	64	7.0	.0	--	.70	--	--	80	1100	210	--
											FLK				
--	--	--	--	33	4.0	1.1	--	--	.10	--	--	2600	--	35	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												CAMERON			
--	--	--	0	80	--	--	--	--	--	--	--	--	--	--	0
--	--	--	20	--	--	--	--	0	--	--	--	--	--	--	150
--	--	--	--	50	--	--	--	--	--	--	--	--	--	--	40
--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	10
--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	70
--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	520
--	--	--	20	0	--	--	--	--	--	--	--	--	--	--	3500
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	0	--	--	--	0	--	--	--	--	--	--	210

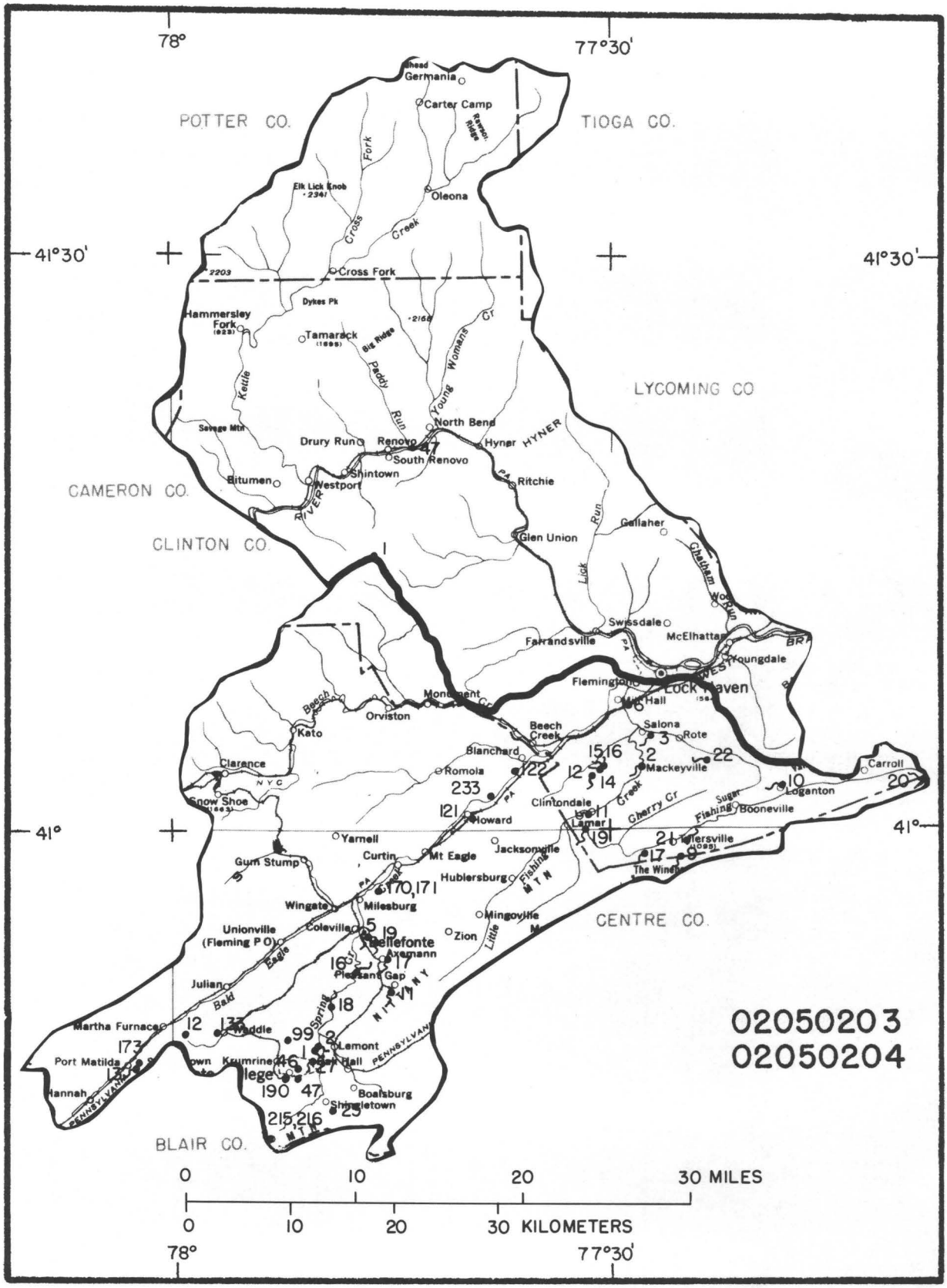

Figure 8.--Site location map for hydrologic units 02050203 and 02050204.

TABLE 8.--HYDROLOGIC UNITS 02050203 and 02050204
(follows on next page)

Table 8.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050203 and 02050204

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CENTRE										
CE 1 S	404808077504902	71-11-09	367AXMN	1010.00	0.00	--	--	5060	446	7.8	10.0	210	51
2 S	404844077503101	63-05-10	367NTTN	1000.00	0.00	--	--	520	--	7.6	--	255	--
		71-11-09		1000.00	0.00	--	--	--	572	7.9	11.0	260	60
5 S	405432077465401	34-07-10	367BLFN	740.00	0.00	--	--	18	--	--	--	120	27
1/		68-02-07		740.00	0.00	--	--	12000	--	7.5	11.7	120	--
		71-11-11		740.00	0.00	--	--	--	262	7.8	10.0	120	27
11 S	405145077452601	71-11-09	367BLFN	900.00	0.00	--	--	--	468	7.7	10.0	140	39
12	404930077592201	34-07-16	361JUNT	1720.00	0.00	110	23	2.0	--	--	--	150	32
13 S	404746078024301	34-07-16	351TNLY	1250.00	--	--	--	25	--	--	--	180	60
16 S	405248077474001	44-08-12	371GBRG	830.00	0.00	--	--	2580	367	7.6	11.5	190	46
		71-11-10		830.00	0.00	--	--	--	468	7.7	10.0	210	51
17 S	405324077453701	71-11-10	367NTTN	840.00	0.00	--	--	2030	535	7.8	10.0	280	67
18 S	405105077492101	44-08-12	371MINS	910.00	0.00	--	--	7300	287	7.8	10.0	150	37
		71-11-10		910.00	0.00	--	--	--	345	7.7	10.0	160	46
19 S	405420077464201	44-08-12	367NTTN	765.00	0.00	--	--	3000	272	7.7	--	140	32
		71-11-10		765.00	0.00	--	--	--	299	7.9	--	110	27
25	404536077491801	34-06-14	367BLFN	1200.00	30.00	301	246	500	--	--	--	51	14
27 S 1/	404851077502001	69-05-21	367NTTN	970.00	0.00	--	--	500	--	7.2	12.0	260	--
46	404740077514401	34-06-14	367NTTN	1140.00	80.00	365	--	500	--	--	11.7	230	49
47	404714077514501	34-06-14	367NTTN	1221.00	213.00	580	213	185	--	--	--	190	43
99 1/	404915077522001	68-06-20	371GBRGU	1038.00	45.00	310	64	500	--	7.5	10.0	110	--
121	410048077394801	73-07-13	111ALVM	630.00	9.00	20	--	--	402	7.5	--	170	61
		73-11-09		630.00	--	20	--	--	549	7.2	--	190	54
		73-11-09		630.00	--	20	--	--	--	--	--	--	--
		74-05-23		630.00	--	20	--	--	--	--	--	--	--
		74-05-23		630.00	--	20	--	--	580	7.0	11.0	350	110
		74-10-10		630.00	--	20	--	--	760	6.9	16.0	360	110
		74-10-10		630.00	--	20	--	--	--	--	--	--	--
		75-05-21		630.00	--	20	--	--	900	7.1	--	360	110
		75-05-21		630.00	--	20	--	--	--	--	--	--	--
		75-10-07		630.00	--	20	--	--	700	6.6	16.0	330	100
		75-10-07		630.00	--	20	--	--	700	6.6	16.0	--	--
		76-05-19		630.00	--	20	--	--	--	--	--	330	100
		76-05-19		630.00	--	20	--	--	--	--	--	--	--
		76-10-19		630.00	--	20	--	--	740	7.2	9.0	330	100
		76-10-19		630.00	--	20	--	--	680	6.9	11.0	--	--
		77-05-09		630.00	--	20	--	--	750	6.8	9.0	320	98
		77-10-05		630.00	--	20	--	--	625	6.7	17.0	320	98
		78-11-07		630.00	--	20	--	--	650	6.9	14.0	300	91
		79-05-30		630.00	--	20	--	--	750	--	10.5	320	96
		79-10-23		630.00	--	20	--	--	710	7.2	15.0	280	85
122	410317077365401	73-07-13	111ALVM	620.00	3.50	26	--	--	332	7.6	--	150	47
		73-11-09		620.00	--	26	--	--	--	--	--	--	--
		73-11-09		620.00	--	26	--	--	406	7.8	--	150	50
		74-05-23		620.00	--	26	--	--	--	--	--	--	--
		74-05-23		620.00	--	26	--	--	450	7.7	18.0	180	65
		74-10-10		620.00	--	26	--	--	450	7.8	15.0	190	68
		74-10-10		620.00	--	26	--	--	--	--	--	--	--
		75-05-21		620.00	--	26	--	--	--	--	--	--	--
		75-05-21		620.00	--	26	--	--	510	7.8	--	210	74
		75-10-07		620.00	--	26	--	--	465	6.9	14.0	210	76
		75-10-07		620.00	--	26	--	--	465	6.9	14.0	--	--
		76-05-19		620.00	--	26	--	--	--	--	--	220	78
		76-05-19		620.00	--	26	--	--	--	--	--	--	--
		76-10-19		620.00	--	26	--	--	435	7.2	12.0	230	83
		76-10-19		620.00	--	26	--	--	435	7.2	12.0	--	--
		77-05-09		620.00	--	26	--	--	525	6.9	10.0	250	90
		77-10-05		620.00	--	26	--	--	455	7.4	16.5	250	90
		78-05-23		620.00	--	26	--	--	440	7.1	12.0	250	90
		78-11-07		620.00	--	26	--	--	500	7.6	13.0	260	95
		79-05-30		620.00	--	26	--	--	520	7.1	10.0	270	100
		79-10-23		620.00	--	26	--	--	510	7.4	14.0	240	91
133 1/	404933077570801	68-06-12	367BLFN	1320.00	105.00	219	37	19	--	7.2	12.0	290	--
170 1/	405702077461201	71-03-31	347HDBG	685.00	20.00	385	73	550	--	7.3	--	360	--
171 1/	405703077461301	71-06-09	347HDBG	685.00	20.20	385	76	500	--	7.4	--	220	70
173 1/	404753078024201	68-04-21	351TNLY	1340.00	--	249	71	60	--	6.9	--	120	--
190 1/	404717077523402	74-11-27	367NTTN	1150.00	114.00	275	165	500	--	7.4	--	230	50
215 1/	404338077530101	69-09-09	361BDEG	1460.00	7.00	75	30	15	60	5.9	9.5	33	--
216 1/	404340077530101	67-07-12	361BDEG	1480.00	5.00	75	42	25	--	6.0	--	20	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CENTRE				
21	--	5.5	--	230	14	7.3	--	--	15	--	.03	--	--	--	--
--	--	--	--	274	--	9.0	--	--	--	--	--	0	--	300	--
26	--	8.7	--	266	28	7.9	--	--	23	--	.03	--	--	--	--
13	4.7	5.7	1.0	135	7.7	6.2	.2	11	2.4	--	--	--	--	--	140
--	--	19	--	176	9.0	6.2	.0	--	--	--	--	20	--	200	--
13	--	8.7	--	140	6.3	11	--	--	4.0	--	.00	--	--	--	--
11	--	40	--	199	51	1.8	--	--	14	--	.28	--	--	--	--
17	--	2.0	--	161	20	.8	.1	--	.00	--	--	--	--	--	--
6.2	2.3	3.3	1.0	193	16	1.1	.1	8.6	.30	--	--	20	--	--	191
19	--	4.1	--	220	11	2.5	.1	6.4	7.5	--	--	20	--	207	--
20	--	8.5	--	222	20	5.3	--	--	23	--	1.0	--	--	--	--
27	--	1.4	--	276	28	3.0	--	--	27	--	.03	--	--	--	--
14	--	2.9	--	171	5.8	1.9	.0	5.4	9.3	--	--	20	--	162	--
12	--	2.1	--	120	11	33	--	--	15	--	.00	--	--	--	--
14	--	4.8	--	161	5.8	4.5	1.0	6.0	4.1	--	--	80	--	150	--
11	--	23	--	158	7.2	13	--	--	7.5	--	.00	--	--	--	--
3.8	1.3	2.0	.7	55	6.3	.6	.0	5.5	.20	--	--	10	--	59	60
--	--	2.3	--	260	20	16	.1	--	12	--	--	0	--	295	--
27	5.4	6.6	1.2	239	12	10	.0	7.2	20	--	--	30	--	257	249
21	3.5	4.6	1.1	202	9.4	4.8	.0	7.2	18	--	--	30	--	206	208
--	--	2.5	--	122	6.5	2.5	--	--	3.5	--	--	40	--	132	--
4.7	12	25	13	197	34	6.0	.4	9.1	.00	--	.02	280	90	253	238
13	16	34	18	200	59	23	.2	3.6	.00	--	.00	760	70	343	286
--	--	--	--	--	--	--	--	--	--	--	--	1100	65	--	--
--	--	--	--	--	--	--	--	--	--	--	--	100	<9	--	--
19	18	48	30	334	79	34	.0	5.0	19	--	.00	110	10	518	479
21	15	44	29	328	79	30	.1	4.9	21	--	.00	140	20	433	472
--	--	--	--	--	--	--	--	--	--	--	--	70	20	--	--
20	21	47	26	341	75	46	.1	4.8	12	--	.00	80	10	553	483
--	--	--	--	--	--	--	--	--	--	--	--	75	10	--	--
19	17	44	27	314	73	36	.0	5.0	17	--	.03	50	20	491	449
--	--	--	--	--	--	--	--	--	--	--	--	140	10	--	--
19	14	40	26	314	65	31	.1	5.2	22	--	.00	130	20	445	437
--	--	--	--	--	--	--	--	--	--	--	--	220	20	--	--
19	14	40	26	305	68	32	.1	5.6	21	--	.00	70	10	436	436
--	--	--	--	--	--	--	--	--	--	--	--	20	5	--	--
18	14	43	29	320	64	24	.0	4.8	16	.01	.00	50	20	457	427
19	12	35	23	320	60	23	.1	4.6	16	.00	.00	50	10	431	416
18	7.3	32	25	290	55	20	.1	4.8	23	.03	.03	30	10	436	389
19	19	44	25	290	56	51	.1	4.6	13	.06	.00	0	5	464	428
17	14	39	25	--	50	41	.1	4.4	16	.09	.03	0	6	401	399
7.8	6.5	17	10	142	32	8.5	.2	4.4	4.4	--	.13	30	80	203	191
--	--	--	--	--	--	--	--	--	--	--	--	400	32	--	--
4.9	13	25	12	160	39	6.4	.4	8.3	.00	--	.00	570	60	316	213
--	--	--	--	--	--	--	--	--	--	--	--	200	12	--	--
5.2	12	24	12	203	44	5.7	.4	10	.90	--	.00	250	20	266	255
5.4	11	22	11	207	52	5.1	.3	9.8	.84	--	.00	120	20	275	266
--	--	--	--	--	--	--	--	--	--	--	--	120	5	--	--
--	--	--	--	--	--	--	--	--	--	--	--	110	8	--	--
5.3	10	20	10	212	53	6.1	.2	10	.84	--	.00	180	10	280	274
5.2	10	21	11	220	53	5.4	.2	9.7	1.1	--	.00	100	40	294	280
--	--	--	--	--	--	--	--	--	--	--	--	70	10	--	--
5.4	8.8	19	9.7	220	57	5.2	.3	9.3	1.2	--	.00	90	20	286	283
--	--	--	--	--	--	--	--	--	--	--	--	220	30	--	--
5.4	8.3	17	8.9	222	62	5.3	.3	9.9	1.2	--	.00	70	80	300	294
--	--	--	--	--	--	--	--	--	--	--	--	150	70	--	--
5.5	6.0	15	8.5	230	63	4.1	.2	9.4	.75	.01	.00	110	100	308	303
5.6	5.8	14	8.2	230	62	4.6	.2	9.2	1.2	.00	.00	120	60	309	302
5.2	5.4	12	6.2	240	70	3.7	.2	8.7	.84	.04	.00	0	90	345	310
5.4	5.0	11	5.5	240	66	3.8	.2	8.4	1.2	.04	.03	10	70	314	310
4.4	3.6	7.8	4.2	240	67	3.4	.2	7.4	.89	.03	.00	0	10	320	311
4.2	3.3	6.9	3.6	--	62	3.5	.2	7.1	.62	.05	.00	0	30	300	297
--	--	5.5	--	329	9.5	10	--	--	5.8	--	--	400	--	370	--
--	--	29	--	192	236	12	.4	--	5.3	--	.80	380	50	633	--
12	--	29	--	183	96	21	.1	--	1.8	--	3.7	450	30	320	--
--	--	22	--	184	10	1.5	.1	--	.70	--	.06	50	--	219	--
26	--	15	--	253	16	14	.1	--	24	--	.09	190	10	337	--
--	--	4.4	--	16	2.0	8.0	.0	--	20	--	.09	40	10	49	--
--	--	7.1	--	38	1.5	2.0	.0	--	.00	--	.00	0	--	38	--

Table 8.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050203 and 02050204--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CENTRE										
CE 233 1/	410200077383201	70-09-14	347HDBG	720.00	88.60	300	120	120	--	7.9	--	82	--
			CLINTON										
CN 1	411424077462201	71-11-18	337POCN	2050.00	49.00	78	49	5.0	17	7.1	--	9	2.0
2 S	410324077281101	71-11-11	364BKMN	660.00	0.00	--	--	2000	249	7.8	9.5	110	29
3 S	410504077272801	71-11-11	364CRTN	620.00	0.00	--	--	1000	211	7.7	10.0	82	21
6	410630077290601	34-07-20	354MCKZ	570.00	5.00	101	90	--	--	--	--	280	61
9 S 1/	405847077253201	69-02-06	361JUNT	1300.00	0.00	--	--	20	--	6.4	--	12	--
10 S	410228077183001	34-07-20	361BDEG	1420.00	0.00	--	--	20	--	--	--	8	2.0
11 S	410013077320101	71-11-09	364BKMN	830.00	0.00	--	--	1760	132	7.7	10.5	49	14
12 S	410258077313201	71-11-10	364BKMN	720.00	0.00	--	--	1000	274	7.9	11.0	140	30
14 S	410312077310301	71-11-10	364BKMN	705.00	0.00	--	--	980	300	8.0	11.0	150	34
15 S	410317077305801	71-11-10	364BKMN	700.00	0.00	--	--	4170	298	7.9	11.0	150	35
16 S	410322077305501	71-11-10	364BKMN	695.00	0.00	--	--	890	439	8.0	11.0	220	50
17 S	405857077280001	71-11-08	361BDEG	1040.00	0.00	--	--	5100	208	7.6	9.5	90	25
19 S	410058077315201	71-11-19	364TRNN	790.00	0.00	--	--	1440	356	8.0	9.5	180	44
20 S	410250077083801	71-11-16	361JUNT	1450.00	0.00	--	--	21	22	5.7	10.0	5	1.5
21 S	405938077250301	71-11-09	361RDVL	1100.00	0.00	--	--	29	201	7.9	8.5	85	22
22 S 1/	410342077234601	73-09-10	361BDEG	1170.00	0.00	--	--	8.0	--	6.4	12.0	18	3.2
47	411951077434001	34-07-28	337POCN	660.00	20.00	88	80	10	--	--	11.1	64	20

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			CENTRE										
CE 5 S 1/	405432077465401	367BLFN	--	--	12000	--	--	--	--	--	--	--	--
121	410048077394801	111ALVM	20	--	--	--	--	330	--	65	<3	<8	40
			20	--	--	--	--	30	--	74	<4	<10	37
			20	--	--	--	--	60	--	83	<7	<4	25
			20	--	--	--	--	50	--	85	0	<4	45
			20	--	--	700	--	30	--	80	<1	<4	50
			20	--	--	--	--	100	--	80	<3	<10	50
			20	--	--	680	--	20	--	40	<4	<4	60
			20	--	--	750	.1	30	0	100	--	--	0
			20	--	--	625	.1	0	0	0	--	--	70
			20	--	--	650	.1	10	0	100	--	--	50
			20	--	--	750	.3	30	1	80	--	--	40
			20	--	--	710	.2	20	1	50	--	--	50
122	410317077365401	111ALVM	26	--	--	--	--	160	--	130	<2	<6	60
			26	--	--	--	--	85	--	120	<2	<6	80
			26	--	--	--	--	56	--	140	0	<2	80
			26	--	--	--	--	55	--	110	0	<2	100
			26	--	--	465	--	20	--	200	<0	<1	5
			26	--	--	--	--	110	--	100	<2	<7	100
			26	--	--	435	--	180	--	70	<2	<2	110
			26	--	--	525	.0	40	0	200	--	--	0
			26	--	--	455	.0	10	0	200	--	--	70
			26	--	--	440	.0	10	2	200	--	--	50
			26	--	--	500	.0	10	1	100	--	--	40
			26	--	--	520	.2	70	2	100	--	--	20
			26	--	--	510	.2	20	1	90	--	--	20
190	404717077523402	367NTTN	275	165	500	--	--	--	--	--	--	--	--
215	404338077530101	361BDEG	75	30	15	60	--	--	--	--	--	--	--
			CLINTON										
CN 22 S 1/	410342077234601	361BDEG	--	--	8.0	--	--	190	10	--	--	--	150

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CENTRE				
--	--	1.8	--	94	2.0	2.0	.0	--	4.4	--	.43	100	0	100	--
											CLINTON				
1.0	2.5	3.2	.7	11	1.8	1.0	.3	6.4	.10	--	.10	920	80	11	22
9.7	--	7.1	--	121	17	4.9	--	--	5.3	--	.09	--	--	--	--
7.2	--	11	--	88	16	8.1	--	--	7.1	--	.06	--	--	--	--
31	5.9	7.9	2.0	196	100	14	.0	13	3.3	--	--	10	--	343	327
--	--	--	--	22	--	1.5	.0	--	.90	--	--	0	--	30	--
--	--	4.0	--	12	5.0	.5	.0	--	.30	--	--	--	--	--	--
3.4	--	6.0	--	56	11	3.1	--	--	.00	--	.09	--	--	--	--
15	--	13	--	156	28	2.8	--	--	5.3	--	.12	--	--	--	--
16	--	15	--	172	30	4.2	--	--	6.6	--	.09	--	--	--	--
14	--	5.5	--	163	11	4.6	--	--	6.6	--	.00	--	--	--	--
23	--	11	--	220	33	14	--	--	12	--	.00	--	--	--	--
6.7	--	5.7	--	97	15	4.5	--	--	3.1	--	.06	--	--	--	--
17	--	4.8	--	191	14	8.3	--	--	11	--	.00	--	--	--	--
.4	--	.9	--	4	2.3	.4	--	--	.40	--	.09	--	--	--	--
7.2	--	7.6	--	94	14	5.1	--	--	3.1	--	.06	--	--	--	--
2.4	2.8	3.9	1.1	13	6.5	1.5	.0	6.2	5.8	--	.12	840	20	38	37
--	--	17	--	53	7.0	35	.0	--	.70	--	--	140	--	--	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												CENTRE			
--	10	--	0	--	--	--	--	0	--	--	--	--	--	--	0
<4	<4	<8	25	90	5	--	<4	17	--	0	170	<8	18	<4.0	80
<5	<5	<9	8	<10	<3	--	<5	<10	--	<1	250	<10	<10	<5.0	120
<10	<4	<4	12	30	2	--	<2	<4	--	0	220	<4	2	<2.0	140
1	<4	<4	10	10	0	--	<2	<4	--	0	280	<4	6	<4.0	40
<7	<4	<4	40	35	<2	--	2	5	--	<0	200	<4	3	<4.0	130
0	<10	<10	25	45	0	--	<2	<10	--	<1	230	<10	10	<10	60
1	<4	<4	19	130	0	--	<4	17	--	<2	110	11	<4	<7.5	80
0	5	0	36	37	0	--	--	6	1	0	250	--	--	--	460
2	3	0	130	46	0	--	--	11	3	0	190	--	--	--	1900
10	0	0	180	140	0	--	--	4	3	0	240	--	--	--	910
1	1	1	140	38	7	--	--	2	3	0	210	--	--	--	560
3	3	0	200	38	7	--	--	4	2	0	180	--	--	--	880
<3	<3	<6	14	35	10	--	30	8	--	0	150	<6	7	<3.0	100
<3	<3	<5	130	25	14	--	30	<6	--	0	180	<6	8	<3.0	1300
<6	<2	<4	140	55	14	--	32	5	--	0	170	<2	3	<1.0	3000
<3	<2	<2	110	30	12	--	30	5	--	0	200	<3	2	<2.0	2000
2	<1	<1	30	50	2	--	<1	90	--	<0	50	<1	2	<1.0	130
0	<6	<6	140	50	10	--	40	8	--	<1	210	<6	10	<6.0	850
1	<2	<2	73	110	10	--	<2	37	--	<1	110	<4	9	<4.9	1100
0	4	0	140	30	10	--	--	9	1	0	250	--	--	--	920
0	7	0	4	35	0	--	--	10	0	0	200	--	--	--	1300
2	0	0	120	15	10	--	--	9	1	0	230	--	--	--	1000
6	0	1	120	78	10	--	--	8	1	0	280	--	--	--	850
0	1	0	120	19	10	--	--	7	1	0	220	--	--	--	860
2	2	0	130	17	10	--	--	8	0	0	200	--	--	--	700
0	0	--	10	0	--	--	--	20	--	--	--	--	--	--	20
0	0	--	--	5	--	--	--	--	--	--	--	--	--	--	20
												CLINTON			
0	3	80	90	5	--	.5	--	20	--	2	--	--	--	--	10

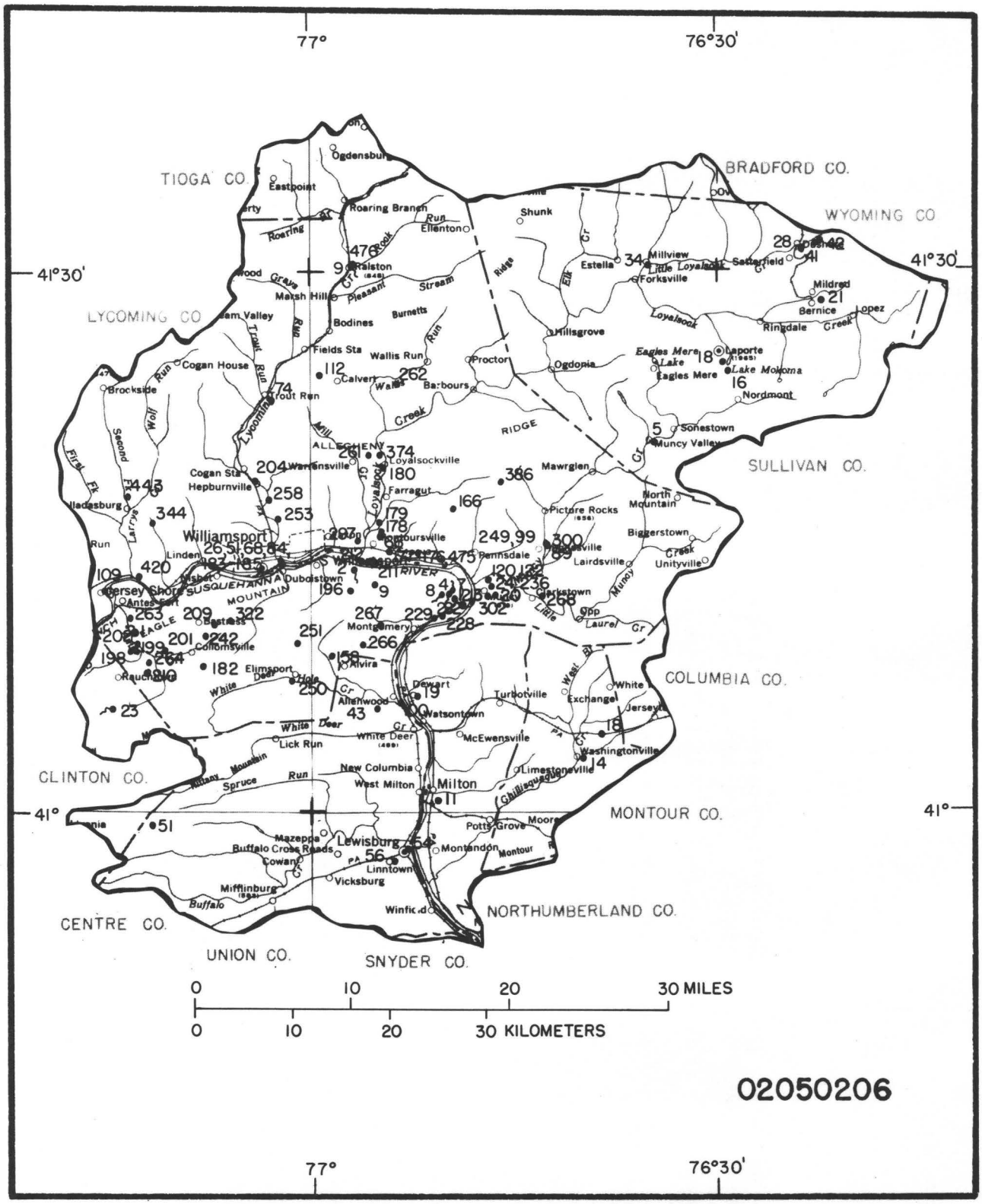

Figure 9.--Site location map for hydrologic unit 02050206.

TABLE 9.--HYDROLOGIC UNIT 02050206
(follows on next page)

Table 9.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050206

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CLINTON										
CN 23 S 1/	410553077145301	74-02-04	361JUNT	1420.00	0.00	--	--	12	30	6.1	--	14	2.4
			LYCOMING										
LY 1 S	410925077131301	71-11-12	364RDMN	640.00	0.00	--	--	--	177	7.7	9.0	71	21
		77-03-14		640.00	--	--	--	--	145	7.0	7.5	63	20
2 S 1/	411336076571801	73-03-14	357TCRR	850.00	0.00	--	--	200	50	6.4	--	15	3.2
4 S 1/	411222076501701	74-06-25	354RSHL	740.00	0.00	--	--	2.0	18	5.2	15.0	8	2.4
7 S 1/	411223076501301	73-03-23	354RSHL	750.00	0.00	--	--	3.5	22	6.6	9.5	6	1.6
8 S 1/	411219076504201	73-03-23	354RSHL	850.00	0.00	--	--	2.0	25	6.2	8.0	9	3.2
9	411252076554101	35-07-27	357TCRR	1200.00	4.00	48	40	18	--	--	--	15	--
9 S 1/	413028076572701	73-03-20	337POCN	960.00	0.00	--	--	12	--	6.4	7.0	10	2.4
12 1/	411207076495001	73-03-23	112ALVM	535.00	10.00	71	71	150	66	6.3	11.0	17	--
13 1/	411207076495201	73-03-23	112ALVM	555.00	12.00	30	30	75	60	6.1	10.0	14	1.6
20	411218076470701	35-07-25	351WLCK	505.00	13.00	302	45	130	--	--	--	540	152
24 1/	411244076471302	74-05-16	351BMBG	485.00	7.00	80	30	100	--	6.9	--	130	--
26 1/	411404077022901	74-05-06	112ALVM	515.00	7.00	22	22	800	--	6.7	--	68	--
51 1/	411401077023201	74-05-06	112ALVM	515.00	8.00	28	28	350	--	6.6	--	66	--
66 1/	411528076552301	74-04-11	112ALVM	535.00	18.00	30	30	350	--	5.9	--	56	--
68 1/	411359077023501	74-05-06	112ALVM	515.00	8.00	28	28	3014	--	6.2	--	82	--
74	412302077031701	35-07-29	341CSKL	665.00	12.00	72	30	20	--	--	--	32	--
84 1/	411400077022801	74-05-06	112ALVM	515.00	8.50	30	30	500	--	6.2	--	90	--
89	411500076430001	35-07-25	1120TSH	595.00	5.00	96	96	200	--	--	--	29	8.6
99 1/	411504076430401	73-03-22	112ALVM	585.00	10.00	48	38	275	110	6.3	10.0	35	12
		77-03-16		585.00	--	48	--	--	120	6.1	10.5	35	10
109	411232077153001	35-07-29	3440NDG	585.00	50.00	117	50	38	--	--	--	250	80
112	412427076594401	71-11-17	341CSKL	1400.00	23.00	200	23	2.0	308	7.9	--	120	44
120	411301076472001	77-03-30	112ALVM	480.00	10.00	28	22	180	320	6.7	11.5	130	42
122 1/	411302076471601	73-03-22	112ALVM	480.00	10.00	27	23	275	370	6.5	--	130	43
158	410853076585801	77-03-15	344MRCL	580.00	60.00	273	20	2.0	120	7.6	11.5	44	13
166	411707076494901	77-03-15	341LKHV	1030.00	0.00	134	31	30	245	7.2	9.5	69	18
176 1/	411445076523501	73-08-30	351TNLY	665.00	120.00	699	142	80	370	7.0	10.5	150	42
177 1/	411440076544001	74-04-17	112ALVM	530.00	33.00	62	52	350	--	6.5	--	120	--
178 1/	411537076552101	73-03-14	112ALVM	530.00	9.00	43	32	310	158	6.0	--	58	14
		77-03-16		530.00	--	43	--	--	158	5.5	12.0	51	15
179 1/	411616076552201	73-09-12	341BRLR	540.00	20.00	560	28	100	240	7.6	12.0	86	14
		77-03-15		540.00	--	560	--	--	240	7.8	12.0	77	22
180	411919076550501	77-03-15	341LKHV	615.00	21.00	105	52	12	205	6.5	12.5	48	13
182	410822077082301	73-11-09	364CBRN	940.00	41.00	250	41	17	460	8.1	--	140	30
183 1/	411410077023601	73-03-08	112ALVM	515.00	8.00	30	30	2000	220	6.7	--	87	26
184 1/	411406077023701	74-05-06	112ALVM	515.00	8.00	28	28	1300	--	7.0	--	81	--
185 1/	411408077023001	74-05-06	112ALVM	515.00	8.00	32	32	300	--	6.7	--	97	--
196	411233076572501	77-03-15	361JUNT	1982.00	69.00	250	--	--	80	6.5	8.0	13	2.3
198	410907077133401	73-11-28	364LDHL	805.00	157.00	300	157	3.5	357	7.5	--	210	61
199	410826077122001	73-11-29	364BKMN	775.00	73.00	105	--	8.0	457	7.8	--	290	60
201	410908077110501	73-11-08	364HTTR	805.00	139.00	205	139	8.0	--	7.8	--	880	170
202	410909077130301	73-12-06	364HTTR	665.00	25.00	115	--	59	219	8.0	--	100	31
204	411835077042101	77-03-14	341CSKL	600.00	20.00	92	60	5.5	510	7.1	12.0	170	47
209	411038077073201	77-03-14	361RDVL	1400.00	76.00	232	--	7.6	180	7.9	11.0	71	18
210	410753077122201	73-11-29	364LDHL	790.00	120.00	360	120	6.0	550	7.8	--	280	86
211 1/	411402076555201	73-03-08	112ALVM	500.00	11.00	44	34	510	130	6.6	--	59	18
212	411403076560101	77-03-16	112ALVM	502.00	14.00	50	--	500	50	6.4	11.0	59	16
228	411103076504901	77-03-16	347OLDP	495.00	0.00	455	--	390	3000	7.0	13.5	1200	290
229	411058076512301	77-03-16	347OLDP	515.00	0.00	250	--	350	185	7.0	12.0	79	23
236 1/	411243076471301	73-03-22	351BMBG	485.00	10.00	500	40	140	1100	7.2	--	96	18
242	410957077081401	77-03-14	364ANTS	960.00	0.00	65	40	8.0	210	7.0	11.5	120	44
249 1/	411504076430402	74-03-06	112ALVM	585.00	10.00	49	39	450	105	6.6	12.8	36	--
250	410732077014501	77-03-30	351TNLY	560.00	16.00	409	168	21	500	6.7	12.0	250	56
251	410937077012301	77-03-15	354RSHL	820.00	0.00	100	50	10	140	7.0	11.5	55	15
253	411635077025001	77-03-15	341LKHV	635.00	100.00	400	33	34	280	7.1	13.0	19	5.1
258	411733077032801	77-03-14	341LKHV	570.00	14.00	124	61	200	450	7.2	13.0	120	38
261	412006076560101	77-03-14	341CSKL	860.00	--	110	--	--	90	6.1	9.5	23	5.5
262 2/	412357076535401	75-04-10	341CSKL	865.00	3.00	183	24	5.0	160	--	8.8	--	--
2/		75-04-10		865.00	3.00	183	--	5.0	8500	--	9.8	--	--
263	411055077134401	75-07-11	354RSHL	570.00	3.00	127	26	5.0	--	--	--	--	--
		75-07-11		570.00	--	127	--	--	4000	8.1	11.5	220	68
264	410754077122401	77-03-14	364LDHL	790.00	118.00	360	--	20	580	7.5	11.5	350	72
266	410928076563701	77-03-15	344MNNG	610.00	0.00	300	--	200	180	8.0	11.5	87	25
267 1/	410955076555401	73-03-30	344MNNG	660.00	26.15	300	--	17	220	7.8	9.0	76	27

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											CLINTON				
1.9	2.8	3.2	.4	11	6.8	2.0	.1	5.6	.30	--	.15	160	10	25	29
											LYCOMING				
4.5	--	5.5	--	75	13	4.5	--	--	1.8	--	.03	--	--	--	--
3.1	3.1	4.0	.9	53	9.6	6.6	.0	5.0	3.9	.01	.03	20	0	92	79
1.7	.6	.6	.0	7	4.0	3.0	.0	3.8	3.3	--	.09	0	20	26	23
.5	.2	.7	.5	10	.5	1.0	.0	4.5	.20	--	.12	80	30	13	15
.5	1.1	1.5	.4	7	2.2	1.8	.0	3.8	.30	--	.06	0	10	18	15
1.0	1.1	1.5	.4	10	1.5	1.5	.0	3.8	1.9	--	.06	0	30	18	20
--	--	--	--	16	2.0	1.0	--	--	.40	--	--	400	--	18	--
1.0	1.4	2.1	.7	7	3.0	2.5	.0	3.8	3.6	--	.06	0	10	22	22
--	--	7.4	--	13	.5	4.0	--	6.0	20	--	.09	280	20	43	--
2.4	2.8	5.3	2.5	9	1.5	4.0	.0	4.5	13	--	.31	310	40	31	37
40	--	129	--	105	470	175	--	--	1.6	--	--	160	--	1019	--
--	--	--	--	68	--	44	.1	--	28	--	.09	60	0	216	--
--	--	--	--	44	--	18	.1	--	13	--	.28	640	--	150	--
--	--	--	--	35	--	14	.1	--	13	--	.15	370	--	128	--
--	--	--	--	30	--	4.5	--	--	28	--	13	450	--	160	--
--	--	--	--	40	--	23	.1	--	11	--	.15	10	--	145	--
--	--	--	--	36	10	5.0	--	--	1.1	--	--	200	--	54	--
--	--	--	--	39	--	16	.1	--	18	--	.18	10	--	158	--
1.8	3.1	3.8	.7	19	10	4.1	.0	6.6	5.3	--	--	10	--	53	50
1.2	--	11	--	28	7.0	10	.0	7.6	16	--	1.4	80	20	75	--
2.3	4.0	4.6	.6	18	9.4	8.6	.0	5.5	5.8	.01	.06	0	0	65	55
12	--	6.0	--	220	65	10	--	--	.10	--	--	200	--	282	--
3.5	6.7	8.1	1.4	65	11	45	.0	9.4	12	--	.15	--	--	186	165
7.0	6.6	7.3	.7	47	44	19	.1	5.5	17	.13	.03	10	0	--	166
4.5	9.4	17	7.6	57	22	30	.0	4.5	71	--	.06	0	200	225	220
2.8	4.4	4.7	.3	59	7.5	1.0	.1	18	.18	.04	.03	420	80	82	77
5.6	20	21	.5	122	9.0	1.3	.2	13	.04	.10	.06	150	70	131	129
11	27	33	5.5	193	33	7.0	.1	8.2	8.9	--	.18	150	10	230	239
--	--	8.5	--	63	15	31	.1	--	29	--	.15	40	--	186	--
5.6	3.4	4.6	1.2	23	12	10	.0	6.0	25	--	.21	10	10	95	89
3.3	2.4	3.5	1.1	16	20	7.1	.0	5.3	11	.06	.09	830	10	93	75
12	17	19	2.4	123	15	6.0	.2	16	.30	--	.15	80	30	145	144
5.0	17	17	.4	117	7.3	4.9	.1	13	.04	.05	.03	110	40	135	129
3.6	15	16	.9	39	11	26	.1	7.5	6.6	.14	.03	740	100	107	105
15	41	42	1.3	227	4.8	33	.7	12	2.3	--	.00	0	0	259	252
5.3	8.8	11	2.1	39	32	26	.0	8.0	15	--	.12	100	0	150	143
--	--	--	--	45	--	17	.1	--	11	--	.15	120	--	143	--
--	--	--	--	45	--	30	.1	--	16	--	.18	190	--	164	--
1.7	.1	.5	.4	23	.0	.1	.1	2.6	.00	.03	.03	4500	40	42	29
14	2.1	3.8	1.7	214	18	16	.3	7.4	23	--	.00	0	0	273	249
34	2.8	4.7	1.9	214	20	9.3	.3	6.6	44	--	.00	10	0	339	284
110	3.2	4.4	1.2	161	680	2.1	.2	10	1.2	--	.00	30	0	--	1060
6.0	2.2	3.6	1.4	96	23	4.7	.2	3.6	3.9	--	.00	30	0	139	123
12	21	22	1.4	79	1.3	90	.0	12	31	.01	.06	40	0	309	256
6.2	10	12	1.9	103	11	.8	.1	10	.22	.01	.03	10	0	110	110
15	3.6	4.9	1.3	316	27	6.3	.2	6.5	15	--	.00	0	0	338	316
3.4	14	15	1.0	68	9.0	6.0	.0	8.0	7.1	--	.15	160	0	99	100
4.7	2.0	2.6	.6	39	14	4.7	.0	6.9	4.4	.00	.03	30	0	84	73
100	290	292	2.0	110	1100	470	1.0	9.7	1.3	.19	.03	360	40	2530	2330
5.2	5.5	5.9	.4	63	28	7.0	.1	7.0	8.4	.04	.03	0	0	121	116
12	195	207	12	68	17	290	.0	9.0	8.4	--	.06	430	40	610	596
1.6	1.3	1.7	.4	116	5.1	2.5	.1	7.9	14	.01	.15	90	0	142	135
--	4.0	--	--	26	9.0	8.5	.1	--	5.8	--	.09	40	20	65	--
26	1.1	1.6	.5	264	26	1.6	.2	5.9	.18	.03	.00	570	20	179	249
4.2	4.3	5.6	1.3	75	2.9	4.2	.1	8.0	.04	.10	.03	170	70	--	78
1.5	48	48	.4	102	18	8.7	.2	13	.71	.08	.12	100	20	156	147
7.0	14	15	.5	116	19	29	.1	12	.00	.08	.03	2000	440	215	182
2.2	3.0	3.9	.9	14	2.6	4.5	.0	7.2	17	.00	.03	120	10	59	51
--	--	--	--	30	16	7.0	--	--	--	--	--	--	--	125	--
--	--	--	--	111	18	2800	--	--	--	--	--	--	--	4380	--
--	--	--	--	--	--	--	--	--	--	--	--	100	10	--	--
8.6	770	786	16	206	12	1300	1.8	6.7	.04	1.5	.03	100	40	2430	2310
36	3.1	4.1	1.0	307	88	2.2	.2	8.1	3.3	.01	.03	30	10	404	387
5.8	5.5	5.7	.2	98	8.5	1.7	.1	16	.00	.14	.09	240	130	125	112
2.1	5.1	5.6	.5	110	6.0	2.0	.1	18	.30	--	.18	680	200	140	121

Table 9.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050206--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			LYCOMING										
LY 268	411208076432901	77-03-16	344MNNG	560.00	35.00	150	50	--	275	7.1	12.0	110	33
282	411151076492701	77-03-30	351BDGP	530.00	25.00	250	43	100	205	7.0	13.0	56	17
297	411516076565401	77-03-29	347RDGL	560.00	35.00	286	50	240	168	6.8	12.5	57	20
300 1/	411504076430302	72-08-31	341BRLR	590.00	14.00	148	70	22	100	6.5	--	--	--
302	411212076472801	77-03-30	351WLCK	505.00	0.00	135	40	60	1080	7.4	--	560	130
322	411045077062101	77-03-15	361BDEG	1590.00	55.00	100	20	20	55	6.5	9.0	8	1.2
344	411615077120001	77-03-14	341CSKL	880.00	20.00	200	26	1.0	225	7.2	10.5	70	18
374	412004076551501	77-03-15	112ALVM	620.00	23.00	80	80	30	140	5.0	10.5	40	11
386	411828076462301	77-03-15	341CSKL	1090.00	30.00	155	48	6.0	160	6.3	10.0	61	19
420	411308077130601	77-03-16	341BRLR	565.00	40.00	160	33	30	750	7.5	11.5	340	96
443	411740077134801	77-03-14	341CSKL	780.00	--	165	--	100	220	7.4	10.5	72	22
475 1/	411439076523501	74-03-06	351TNLY	620.00	130.00	318	90	43	--	6.9	--	160	--
476 1/	413032076572201	71-07-27	341CSKL	880.00	--	95	92	15	270	8.3	9.0	11	3.2
			MONTOUR										
MT 14	410312076402801	31-09-04	347HDBG	562.00	25.00	230	40	--	--	--	--	210	88
18	410428076391501	30-10-30	344MRCL	545.00	20.00	200	--	--	--	--	--	410	97
			NORTHUMBERLAND										
NU 11	410050076511001	31-09-04	351BMBG	480.00	10.00	260	35	80	--	--	--	1400	436
19	410632076524201	30-10-30	351WLCK	485.00	75.00	210	--	--	--	--	--	340	91
			SULLIVAN										
SU 5	412042076351301	35-08-07	112PLSC	865.00	22.00	52	52	50	--	--	--	110	35
16	412435076294301	35-08-07	337POCN	1795.00	45.00	86	45	4.0	--	--	--	32	--
18 1/	412505076295501	73-09-04	337POCN	2050.00	118.00	329	--	25	--	7.1	--	17	--
21	412829076224501	35-08-07	324PSVL	1840.00	14.00	65	14	5.0	--	--	--	80	24
28	413121076241001	35-08-07	341CSKL	1446.00	9.00	311	39	200	--	--	--	100	34
34	413026076352901	68-07-11	341CSKL	1060.00	25.00	50	34	--	217	7.2	11.0	79	26
41 1/	413144076231001	69-05-02	341CSKL	1560.00	10.00	200	84	50	--	7.8	--	64	--
42 1/	413147076225701	69-05-15	341CSKL	1580.00	15.00	182	130	52	--	7.9	--	44	--
			UNION										
UN 43	410559076553401	34-08-21	354CLNN	700.00	--	205	20	--	--	--	--	16	2.4
51	405928077115501	68-07-12	361RDVL	1550.00	40.00	115	94	--	23	7.1	9.0	9	1.8
54	405807076533201	34-08-04	351TNLY	470.00	25.00	104	25	60	--	--	--	250	76
56	405728076542801	36-10-16	351WLCK	465.00	30.00	150	30	27	--	--	--	400	91
100 1/	410617076534801	69-01-24	351BMBG	470.00	28.00	250	42	--	--	7.3	--	200	--

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
		CLINTON											
CN 23 S 1/	410553077145301	361JUNT	--	--	12	30	--	430	--	--	--	--	25
		LYCOMING											
1 S	410925077131301	364RDMN	--	--	--	145	.0	10	1	0	--	--	0
2 S 1/	411336076571801	357TCRR	--	--	200	50	--	0	10	50	--	--	0
4 S 1/	411222076501701	354RSHL	--	--	2.0	18	--	0	10	--	--	--	0
7 S 1/	411223076501301	354RSHL	--	--	3.5	22	--	0	0	--	--	--	0
8 S 1/	411219076504201	354RSHL	--	--	2.0	25	--	0	10	--	--	--	0
9 S 1/	413028076572701	337POCN	--	--	12	--	--	0	10	--	--	--	0
12 1/	411207076495001	112ALVM	71	71	150	66	--	0	--	50	--	--	0
13 1/	411207076495201	112ALVM	30	30	75	60	--	0	0	100	--	--	0
99 1/	411504076430401	112ALVM	48	38	275	110	--	0	0	0	--	--	0
			48	--	--	120	.0	10	0	0	--	--	10
120	411301076472001	112ALVM	28	22	180	320	.0	0	0	0	--	--	10
122 1/	411302076471601	112ALVM	27	23	275	370	--	0	10	0	--	--	0
158	410853076585801	344MRCL	273	20	2.0	120	.0	10	1	200	--	--	30
166	411707076494901	341LKHV	134	31	30	245	.0	0	2	200	--	--	110
176 1/	411445076523501	351TNLY	699	142	80	370	--	130	10	100	--	--	0
178 1/	411537076552101	112ALVM	43	32	310	158	--	0	10	--	--	--	0
			43	--	--	158	.0	10	0	100	--	--	0
179 1/	411616076552201	341BRLR	560	28	100	240	--	220	10	300	--	--	--
			560	--	--	240	.0	10	0	400	--	--	40
180	411919076550501	341LKHV	105	52	12	205	.1	20	0	500	--	--	30
183 1/	411410077023601	112ALVM	30	30	2000	220	--	0	1	--	--	--	0
196	411233076572501	361JUNT	250	--	--	80	.0	0	0	200	--	--	20
204	411835077042101	341CSKL	92	60	5.5	510	.3	0	1	200	--	--	80
209	411038077073201	361RDVL	232	--	7.6	180	.0	10	0	0	--	--	110
211 1/	411402076555201	112ALVM	44	34	510	130	--	0	1	--	--	--	0
212	411403076560101	112ALVM	50	--	500	50	.0	0	1	0	--	--	10
228	411103076504901	347OLDP	455	--	390	3000	.6	10	0	100	--	--	150
229	411058076512301	347OLDP	250	--	350	185	.0	0	1	0	--	--	20
236 1/	411243076471301	351BMBG	500	40	140	1100	--	0	10	20	--	--	0

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											LYCOMING				
7.5	6.4	6.9	.5	106	21	3.7	.2	12	4.8	.01	.03	10	10	157	142
3.2	8.3	9.1	.8	44	18	6.9	.1	6.5	17	.01	.03	120	0	98	101
1.8	2.6	2.9	.3	46	16	1.9	.1	13	.18	.05	.03	1500	80	94	80
--	--	--	--	22	17	8.0	--	--	--	--	--	20	0	64	--
56	7.4	8.7	1.3	107	480	7.3	.1	8.6	.09	.03	.03	200	10	769	750
1.2	3.1	3.8	.7	15	.0	5.5	.0	4.8	2.3	.01	.03	0	10	31	30
6.0	14	15	.9	90	9.5	7.0	.1	9.6	7.5	.01	.06	90	0	123	117
3.0	2.2	3.4	1.2	15	8.2	9.3	.0	5.7	21	.36	.06	110	40	90	71
3.1	3.7	4.2	.5	59	2.3	4.0	.1	12	12	.01	.06	30	0	95	86
24	18	19	.7	117	9.4	210	.1	18	.13	.23	.03	560	910	516	437
4.2	6.6	7.4	.8	58	.1	14	.1	11	25	.01	.09	50	10	130	113
--	--	6.0	--	159	33	2.0	.1	--	.70	--	.09	120	10	292	--
.7	54	57	2.5	84	14	46	.9	12	3.2	--	.64	1580	30	160	181
											MONTOUR				
--	--	106	--	248	175	39	--	--	.00	--	--	--	--	--	--
40	--	23	--	340	165	5.0	--	--	.20	--	--	--	--	--	--
											NORTHUMBERLAND				
87	--	--	--	169	1266	136	--	--	.50	--	--	1200	--	--	--
28	--	--	--	180	164	19	--	--	8.9	--	--	--	--	--	--
											SULLIVAN				
5.4	--	9.0	--	133	12	4.0	--	--	3.7	--	--	100	--	135	--
--	--	--	--	43	3.0	1.1	--	--	1.5	--	--	100	--	--	--
--	--	5.8	--	26	3.0	2.0	.1	--	1.9	--	.00	0	0	39	--
4.9	9.8	13	3.2	53	41	8.0	--	7.8	5.8	--	--	790	--	135	131
4.7	--	23	--	132	20	16	--	--	4.0	--	--	120	--	167	--
3.3	5.0	6.2	1.2	26	14	34	.2	5.5	5.3	--	--	1500	40	114	109
--	--	161	--	159	3.0	197	.7	--	1.3	--	--	300	0	490	--
--	--	56	--	146	5.0	28	.2	--	1.3	--	--	300	0	212	--
											UNION				
2.5	.9	1.5	.6	16	3.9	.6	--	5.9	.00	--	--	10	--	22	25
1.1	.8	1.3	.5	10	1.4	.2	.0	7.6	.30	--	--	450	0	21	20
14	--	--	--	201	67	9.0	--	--	9.7	--	--	--	--	279	--
42	--	--	--	296	144	6.0	--	--	.80	--	--	--	--	430	--
--	--	--	--	172	--	22	.1	--	12	--	--	200	0	283	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												CLINTON			
--	0	60	10	0	--	.0	--	10	--	9	--	--	--	--	30
												LYCOMING			
2	<10	0	0	5	0	--	--	2	0	0	160	--	--	--	0
3	7	20	30	0	--	.0	--	0	--	0	--	--	--	--	10
3	5	40	30	50	--	.0	--	0	--	0	--	--	--	--	30
0	30	50	30	50	--	.5	--	0	--	0	--	--	--	--	10
0	10	50	30	5	--	.0	--	0	--	0	--	--	--	--	20
0	30	20	40	5	--	.0	--	10	--	0	--	--	--	--	40
0	0	40	30	0	--	.0	--	0	--	0	--	--	--	--	30
0	10	40	50	5	--	.0	--	20	--	0	--	--	--	--	30
0	5	40	240	5	--	.5	--	0	--	0	--	--	--	--	1100
0	10	0	20	1	0	--	--	3	1	0	90	--	--	--	10
0	<10	0	0	1	0	--	--	2	1	0	500	--	--	--	120
3	7	40	30	5	--	.5	--	30	--	0	--	--	--	--	30
0	<10	0	0	0	10	--	--	8	0	0	110	--	--	--	20
0	10	0	0	1	20	--	--	5	0	0	510	--	--	--	0
3	10	140	70	5	--	.5	--	10	--	0	--	--	--	--	60
0	10	20	50	0	--	.5	--	0	--	0	--	--	--	--	10
0	<10	1	160	1	0	--	--	3	0	0	90	--	--	--	30
0	4	--	100	5	--	.5	--	20	--	1	--	--	--	--	10
0	<10	0	0	1	20	--	--	1	0	0	1300	--	--	--	0
0	<10	1	0	2	0	--	--	9	0	0	160	--	--	--	110
0	0	0	20	0	10	.5	--	20	--	0	--	--	--	--	10
2	<10	0	0	2	0	--	--	4	0	0	30	--	--	--	5600
0	<10	1	10	2	0	--	--	5	0	0	180	--	--	--	40
1	<10	0	0	12	10	--	--	5	0	0	320	--	--	--	180
0	0	10	30	5	0	.5	--	0	--	0	--	--	--	--	130
0	10	0	0	1	0	--	--	3	0	0	150	--	--	--	10
2	10	1	10	1	40	--	--	6	0	0	13000	--	--	--	40
0	<10	0	0	1	0	--	--	4	1	0	420	--	--	--	0
3	20	70	40	0	--	.5	--	30	--	0	--	--	--	--	10

Table 9.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050206--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
				LYCOMING										
LY 242		410957077081401	364ANTS	65	40	8.0	210	.0	20	1	0	--	--	0
249	1/	411504076430402	112ALVM	49	39	450	105	--	--	--	--	--	20	--
250		410732077014501	351TNLY	409	168	21	500	.0	20	1	100	--	--	0
251		410937077012301	354RSHL	100	50	10	140	.1	0	4	100	--	--	30
253		411635077025001	341LKHV	400	33	34	280	.0	50	0	100	--	--	160
258		411733077032801	341LKHV	124	61	200	450	.1	10	0	600	--	--	20
261		412006076560101	341CSKL	110	--	--	90	.0	10	0	0	--	--	0
263		411055077134401	354RSHL	127	26	5.0	--	--	80	--	1500	<3	<11	680
				127	--	--	4000	8.0	20	0	2600	--	--	1100
264		410754077122401	364LDHL	360	--	20	580	.0	10	1	0	--	--	50
266		410928076563701	344MNNG	300	--	200	180	.0	10	0	100	--	--	20
267	1/	410955076555401	344MNNG	300	--	17	220	--	0	0	50	--	--	20
268		411208076432901	344MNNG	150	50	--	275	.0	10	0	0	--	--	20
282		411151076492701	351BDGP	250	43	100	205	.0	0	2	0	--	--	120
297		411516076565401	347RDGL	286	50	240	168	.0	0	0	0	--	--	0
302		411212076472801	351WLCK	135	40	60	1080	.1	0	1	0	--	--	50
322		411045077062101	361BDEG	100	20	20	55	.0	10	0	0	--	--	10
344		411615077120001	341CSKL	200	26	1.0	225	.0	10	0	0	--	--	20
374		412004076551501	112ALVM	80	80	30	140	--	10	0	0	--	--	0
386		411828076462301	341CSKL	155	48	6.0	160	.0	0	3	100	--	--	0
420		411308077130601	341BRLR	160	33	30	750	.6	10	0	200	--	--	20
443		411740077134801	341CSKL	165	--	100	220	.0	10	1	0	--	--	0
475	1/	411439076523501	351TNLY	318	90	43	--	--	--	--	--	--	--	--
476	1/	413032076572201	341CSKL	95	92	15	270	--	0	10	--	--	--	0

CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	TIN, DIS- SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI- TANIUM, DIS- SOLVED (UG/L AS TI)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
												LYCOMING			
0	<10	0	50	6	0	--	--	3	1	0	350	--	--	--	0
3	10	--	40	5	--	.0	--	10	--	--	--	--	--	--	20
0	<10	0	10	1	0	--	--	3	0	0	60	--	--	--	10
34	<10	0	0	2	10	--	--	4	0	0	460	--	--	--	10
0	<10	0	120	71	20	--	--	11	0	0	180	--	--	--	80
0	<10	0	170	62	10	--	--	0	0	0	330	--	--	--	1200
0	<10	0	140	3	0	--	--	2	0	0	40	--	--	--	70
0	<11	<11	4	<11	2540	--	<6	<11	--	<2	12000	<17	<6	<11	10
1	<10	0	10	1	2400	--	--	1	0	0	8800	--	--	--	0
5	<10	0	0	9	10	--	--	5	0	0	21000	--	--	--	680
0	<10	0	0	0	10	--	--	3	0	0	500	--	--	--	0
3	0	0	10	0	--	.0	--	0	--	0	--	--	--	--	20
0	<10	1	10	2	0	--	--	3	1	0	260	--	--	--	0
1	<10	2	160	74	10	--	--	3	0	0	460	--	--	--	620
0	<10	1	0	1	0	--	--	6	0	0	60	--	--	--	10
0	<10	0	10	2	20	--	--	2	0	0	6000	--	--	--	10
3	<10	0	40	16	0	--	--	6	0	0	30	--	--	--	3400
0	<10	1	0	3	20	--	--	4	1	0	110	--	--	--	150
1	<10	0	60	16	0	--	--	4	0	0	--	--	--	--	1500
0	<10	1	70	0	0	--	--	3	0	0	200	--	--	--	30
0	<10	0	0	0	30	--	--	2	0	0	660	--	--	--	30
0	<10	0	180	8	0	--	--	5	0	0	70	--	--	--	150
3	10	--	40	5	--	.5	--	40	--	0	--	--	--	--	120
0	30	20	460	5	--	.5	--	50	--	0	--	--	--	--	70

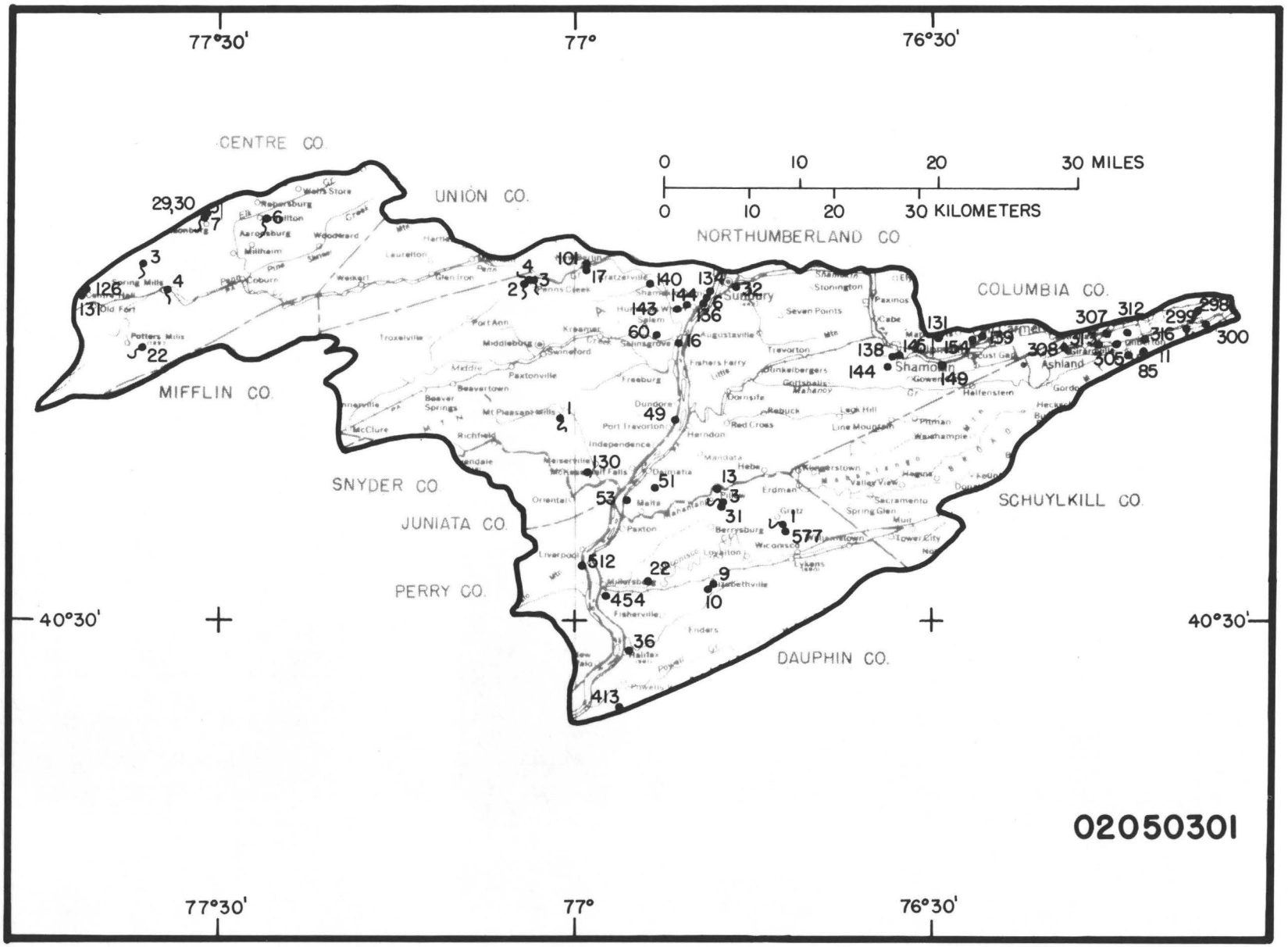

Figure 10.--Site location map for hydrologic unit 02050301.

TABLE 10.--HYDROLOGIC UNIT 02050301
(follows on next page)

Table 10.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050301

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CENTRE										
CE 3 S	405300077363101	71-11-15	364NLMN	1160.00	0.00	--	--	900	384	7.6	10.0	170	55
4 S	405121077343101	71-11-16	364NLMN	1100.00	0.00	--	--	3000	250	7.7	9.5	110	31
6 S	405551077261101	62-07-23	361BDEG	1420.00	0.00	--	--	200	--	6.8	--	12	--
7 S 1/	405601077312201	68-05-27	361BDEG	1440.00	0.00	--	--	20	--	6.1	--	26	--
22 S	404735077363901	71-11-08	361JUNT	1540.00	0.00	--	--	2.0	53	5.8	11.5	14	2.6
29 S 1/	405608077312201	68-05-27	361BDEG	1470.00	0.00	--	--	30	--	6.2	--	--	--
30 S 1/	405607077311701	68-05-27	361BDEG	1480.00	0.00	--	--	35	--	6.2	--	--	--
126 1/	405126077412401	71-03-30	361JUNT	1820.00	--	235	63	16	--	7.6	--	200	--
131 1/	405057077414001	71-03-23	361RDVL	1435.00	20.00	278	37	110	--	7.7	--	190	--
			DAUPHIN										
DA 1 S	403604076424101	31-08-31	327MCCK	735.00	0.00	--	--	--	--	--	--	9	3.0
3 S 1/	403736076475801	72-03-13	337POCN	580.00	0.00	--	--	10	--	5.9	--	26	--
9	403241076483701	31-08-31	337POCN	870.00	0.00	440	--	3.0	--	--	--	32	10
1/		72-10-13		870.00	0.00	440	15	3.0	50	6.8	--	28	5.6
10 1/	403217076491101	72-10-13	337POCN	1060.00	0.00	278	--	50	100	5.1	--	54	12
13 1/	403837076481301	73-09-24	341CSKLS	540.00	100.00	296	--	63	--	6.6	--	54	--
22	403210076553001	31-08-31	327MCCK	420.00	20.00	300	--	85	--	--	--	150	50
31 1/	403737076475401	73-09-24	331MCCKL	620.00	0.00	115	--	--	--	5.7	--	8	--
36	402813076560101	31-08-31	341CSKL	390.00	9.00	102	30	--	--	--	--	270	8.0
413 1/	402442076564201	72-10-30	341CSKLU	760.00	8.00	300	62	70	--	7.7	--	140	--
454 1/	403143076574601	73-01-04	327MCCK	560.00	0.00	270	94	55	45	5.7	--	13	4.4
577 1/	403621076424501	72-03-14	331MCCKL	740.00	35.00	350	35	60	--	7.3	--	120	--
			NORTHUMBERLAND										
NU 32	405120076465001	30-10-30	344MNNG	440.00	50.00	190	25	75	--	--	--	300	80
51	403850076532801	30-10-28	351WLCK	585.00	0.00	130	30	10	--	--	--	93	30
53	403758076555201	31-09-03	344MNNG	410.00	7.00	101	6.0	20	--	--	--	140	42
131	404814076294701	78-08-15	321LLLN	1139.00	86.00	300	173	--	85	6.7	12.0	--	--
138	404701076334501	78-08-15	321LLLN	735.00	--	325	--	--	2080	4.4	14.5	--	--
139	404807076265401	78-08-15	321LLLN	1140.00	--	520	--	--	720	5.8	14.0	--	--
144	404637076340901	78-08-15	321LLLN	780.00	1.00	270	223	--	770	7.9	14.0	--	--
145	404704076333301	78-08-15	321LLLN	739.00	10.00	175	148	--	1060	7.8	15.0	--	--
149	404618076292401	78-08-15	321LLLN	1060.00	100.00	149	149	--	155	9.5	13.0	--	--
154	404748076270301	78-08-15	321LLLN	873.00	19.00	343	300	--	540	8.1	12.5	--	--
			PERRY										
PE 512	403341076594001	72-02-08	337POCN	395.00	22.00	350	--	10	183	6.9	--	73	23
1/		73-09-06		395.00	22.00	350	17	10	--	6.0	--	62	--
			SCHUYLKILL										
SC 11	404701076140301	31-09-01	327MCCK	1460.00	8.00	402	35	120	--	--	--	140	43
85	403410076225401	31-09-02	341TRKH	580.00	8.00	66	--	--	--	--	--	42	12
298	404935076081901	78-08-14	341CLLLN	1333.00	--	154	--	--	455	4.0	10.0	--	--
299	404838076091201	77-07-20	321LLLN	1199.00	68.00	188	54	--	590	4.5	16.0	240	53
		78-08-14		1199.00	--	188	--	--	530	5.4	14.0	--	--
300	404856076073501	78-08-14	321LLLN	1259.00	--	148	--	--	420	4.5	12.0	--	--
305	404737076150701	77-07-19	321LLLN	1138.00	56.00	213	170	--	370	7.8	14.0	120	28
		77-07-19		1138.00	--	213	--	--	560	4.8	13.5	230	44
		78-08-11		1138.00	--	213	--	--	280	8.5	12.5	--	--
		78-08-14		1138.00	--	213	--	--	580	5.3	13.0	--	--
307	404819076155201	78-08-14	321LLLN	1060.00	--	202	--	--	930	5.7	11.5	--	--
308	404734076192401	78-08-15	321LLLN	986.00	--	144	--	--	895	7.3	11.0	--	--
312	404828076141401	77-07-19	321LLLN	1049.00	16.00	280	227	--	5840	7.5	16.0	460	51
		77-07-19		1049.00	--	280	--	--	1175	6.0	15.0	710	120
		78-08-14		1049.00	--	280	--	--	940	5.5	13.0	--	--
		78-08-14		1049.00	--	280	--	--	1520	6.9	12.0	--	--
313	404740076162801	77-07-20	321LLLN	972.00	--	148	--	--	--	6.1	16.3	1300	260
		77-07-20		972.00	--	148	--	--	1700	6.2	16.5	1300	270
316	404803076123301	78-08-16	321LLLN	1148.00	--	280	--	--	910	6.1	14.5	--	--
			SNYDER										
SN 1 S	404315077012001	34-08-11	344ONDG	610.00	0.00	--	--	--	--	--	--	150	54

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CENTRE				
8.0	--	16	--	200	20	7.0	--	--	13	--	.12	--	--	--	--
6.8	--	9.7	--	124	13	6.4	--	--	3.5	--	.55	--	--	--	--
--	--	--	--	13	--	.0	--	--	--	--	--	0	--	18	--
--	--	6.0	--	18	5.5	11	.0	--	2.9	--	.31	100	--	44	--
1.8	--	9.4	--	9	3.0	15	--	--	3.5	--	.12	--	--	--	--
--	--	--	--	12	8.0	5.0	.0	--	1.8	--	.61	150	--	50	--
--	--	--	--	11	6.1	9.0	.0	--	2.0	--	.31	50	--	52	--
--	--	8.3	--	235	10	6.0	.1	--	8.9	--	.55	0	20	290	--
--	--	2.3	--	206	6.0	8.0	.0	--	11	--	--	300	10	270	--
											DAUPHIN				
--	--	4.1	--	19	1.0	1.0	--	--	.00	--	--	--	--	--	--
--	--	--	--	16	--	7.8	--	--	4.9	--	--	200	--	52	--
--	--	2.4	--	40	3.0	1.0	--	--	.00	--	--	3400	--	--	--
3.3	.8	1.6	.8	26	3.5	4.0	.0	7.1	.30	--	.09	100	0	38	39
5.8	.7	2.0	1.3	34	9.0	7.8	.0	7.1	2.3	--	.34	110	0	65	64
--	--	--	--	39	--	5.0	--	--	18	--	--	180	40	86	--
5.7	12	14	2.4	120	66	2.6	--	17	2.1	--	--	150	--	218	217
--	--	--	--	11	--	2.5	--	--	.00	--	--	60	40	20	--
--	--	1.2	--	11	2.0	4.0	--	--	16	--	--	--	--	--	--
--	--	--	--	84	--	87	.1	--	4.4	--	.09	140	--	295	--
.5	1.1	2.9	1.8	11	7.0	2.0	.0	4.8	3.9	--	.09	80	10	42	31
--	--	--	--	130	--	5.0	.0	--	.90	--	--	100	--	200	--
											NORTHUMBERLAND				
24	--	--	--	101	88	98	--	--	--	--	--	--	--	--	--
4.4	--	--	--	98	13	1.0	--	--	.10	--	--	--	--	--	--
8.2	3.6	4.0	.4	87	67	2.1	--	15	3.0	--	--	120	--	198	184
--	--	--	--	--	15	--	--	--	--	--	--	1800	--	--	--
--	--	--	--	--	1800	--	--	--	--	--	--	18000	--	--	--
--	--	--	--	--	410	--	--	--	--	--	--	33000	--	--	--
--	--	--	--	--	200	--	--	--	--	--	--	14000	--	--	--
--	--	--	--	--	15	--	--	--	--	--	--	770	--	--	--
--	--	--	--	--	6.1	--	--	--	--	--	--	60	--	--	--
--	--	--	--	--	230	--	--	--	--	--	--	1600	--	--	--
											PERRY				
3.9	--	--	--	--	21	--	--	--	.00	--	.00	800	350	--	--
--	--	1.4	--	--	56	4.0	.1	--	.40	--	.09	1170	880	174	--
											SCHUYLKILL				
6.8	15	17	2.0	56	18	50	--	6.1	41	--	--	80	--	261	210
--	--	7.7	--	56	10	1.2	--	--	.90	--	--	790	--	--	--
--	--	--	--	--	200	--	--	--	--	--	--	8600	--	--	--
27	8.2	10	2.1	0	300	8.7	.1	20	.10	--	--	35000	6000	533	463
--	--	--	--	--	140	--	--	--	--	--	--	25000	--	--	--
--	--	--	--	--	130	--	--	--	--	--	--	10000	--	--	--
11	25	29	4.3	15	110	31	.1	.5	.00	--	--	190	40	228	218
29	8.2	11	2.6	0	220	9.3	.1	28	.10	--	--	33000	4000	486	381
--	--	--	--	--	64	--	--	--	--	--	--	2200	--	--	--
--	--	--	--	--	280	--	--	--	--	--	--	20000	--	--	--
--	--	--	--	--	540	--	--	--	--	--	--	56000	--	--	--
--	--	--	--	--	310	--	--	--	--	--	--	25000	--	--	--
80	29	34	4.5	25	410	53	.0	.2	.10	--	--	340	140	759	641
100	24	26	2.3	8	680	46	.0	14	.00	--	--	26000	8000	1130	1030
--	--	--	--	--	510	--	--	--	--	--	--	15000	--	--	--
--	--	--	--	--	560	--	--	--	--	--	--	95000	--	--	--
160	11	13	2.3	150	1100	6.1	.1	11	.00	--	--	34000	15000	1870	1680
160	13	15	2.3	160	1100	5.8	.1	11	.10	--	--	27000	15000	1860	1690
--	--	--	--	--	350	--	--	--	--	--	--	38000	--	--	--
											SNYDER				
3.2	--	--	--	161	12	1.2	--	--	1.4	--	--	--	--	--	--

Table 10.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050301--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPT OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			SNYDER										
SN 1 S	404315077012001	62-08-16	344ONDG	610.00	0.00	--	--	--	--	7.6	--	145	--
2 S 1/	405149077041801	74-03-25	347HDBG	780.00	0.00	--	--	8.0	--	6.4	--	9	--
3 S 1/	405153077035301	74-03-26	347HDBG	690.00	0.00	--	--	3.0	--	7.0	--	12	--
4 S 1/	405144077042601	74-03-26	347HDBG	760.00	0.00	--	--	3.0	--	5.4	--	7	--
6	405042076492501	34-08-07	344MNNG	475.00	15.00	73	54	4.0	--	--	--	84	26
16	404752076514001	34-08-07	351TNLY	425.00	5.00	48	10	125	--	--	--	210	64
49	404255076515801	34-08-07	341CMNG	460.00	36.00	116	36	4.0	--	--	--	112	28
60	404830076532001	54-09-11	347KYSR	580.00	108.00	357	218	315	--	7.6	--	190	--
		54-09-12		580.00	--	357	--	--	--	7.6	--	190	--
130	403939076591001	68-07-09	341CMNGR	740.00	17.00	100	40	12	214	8.2	12.0	91	23
		71-11-16		740.00	20.00	100	--	--	190	7.4	--	91	24
134 1/	405107076490801	67-05-18	344ONDG	505.00	25.00	301	60	175	--	7.4	--	100	--
136 1/	405036076493002	67-11-15	344MNNG	470.00	14.00	450	40	190	--	7.1	--	410	--
140 1/	405137076535601	70-04-22	341CSKL	700.00	115.00	370	--	20	--	7.4	--	88	--
143 1/	405009076514201	76-10-21	344MNNG	625.00	45.00	457	--	30	--	7.0	17.0	110	--
144 1/	405025076505601	74-07-18	344MNNG	580.00	32.20	--	--	4.5	226	7.9	12.0	93	33
			UNION										
UN 17	405242076592301	34-08-06	351TNLY	530.00	18.00	180	43	100	--	--	--	220	56
101 1/	405300076591701	71-01-26	347HDBG	580.00	6.20	216	40	50	--	7.6	--	96	23

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			DAUPHIN										
DA 9 1/	403241076483701	337POCN	440	15	3.0	50	--	0	0	50	--	--	10
10 1/	403217076491101	337POCN	278	--	50	100	--	0	0	50	--	--	40
454 1/	403143076574601	327MCCK	270	94	55	45	--	82	0	0	--	--	10
			SCHUYLKILL										
SC 299	404838076091201	321LLLN	188	54	--	590	.1	1000	1	0	0	--	0
305	404737076150701	321LLLN	213	170	--	370	.1	40	0	0	0	--	0
			213	--	--	560	.0	1000	0	0	10	--	0
312	404828076141401	321LLLN	280	227	--	5840	.1	80	0	0	0	--	0
			280	--	--	1175	.1	50	1	0	0	--	0
313	404740076162801	321LLLN	148	--	--	--	.1	20	5	0	0	--	0
			148	--	--	1700	.0	10	3	0	0	--	0
			SNYDER										
SN 143 1/	405009076514201	344MNNG	457	--	30	--	--	20	--	--	--	--	--
144 1/	405025076505601	344MNNG	--	--	4.5	226	--	10	1	--	--	--	--
			UNION										
UN 101 1/	405300076591701	347HDBG	216	40	50	--	--	120	3	--	--	--	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											SNYDER				
--	--	--	--	--	--	1.2	--	--	--	--	--	0	--	158	--
--	--	--	--	4	--	1.0	.1	--	.00	--	.12	60	--	30	--
--	--	--	--	4	--	1.5	--	--	.10	--	.21	110	--	36	--
--	--	--	--	4	--	1.0	.1	--	.00	--	.83	150	--	22	--
--	--	--	--	82	20	14	--	--	.10	--	--	16000	--	--	--
11	16	20	3.9	183	30	27	--	13	22	--	--	10	--	283	277
--	--	--	--	103	7.0	24	--	--	15	--	--	--	--	--	--
--	--	--	--	--	--	2.0	.0	--	1.2	--	--	600	--	375	--
--	--	--	--	--	--	2.0	.0	--	1.1	--	--	400	--	--	--
8.2	11	12	.9	122	8.0	.2	.1	23	.10	--	--	40	240	145	135
7.5	9.5	--	--	113	11	1.5	.2	24	.00	--	.28	920	210	114	135
--	--	53	--	151	55	24	.0	--	.00	--	--	300	100	280	--
--	--	--	--	112	--	16	--	--	.40	--	--	2070	1400	440	--
--	--	--	--	60	13	13	--	--	31	--	--	0	--	158	--
--	--	19	--	165	7.2	3.5	.2	--	3.5	--	.09	160	40	166	--
2.5	3.9	4.2	.3	115	12	1.0	.2	19	.20	--	.15	330	90	130	129
											UNION				
19	--	--	--	164	62	21	--	--	1.8	--	--	--	--	247	--
9.5	--	32	--	135	18	12	.3	--	23	--	--	350	80	192	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												DAUPHIN			
5	1	10	40	0	10	.1	--	10	--	0	--	--	--	--	200
5	1	10	10	0	10	.1	--	0	--	0	--	--	--	--	400
0	0	30	40	5	5	.5	--	10	--	0	--	--	--	--	20
												SCHUYLKILL			
0	1	180	0	17	50	--	--	200	0	0	360	--	--	--	490
0	1	0	0	12	50	--	--	3	0	0	250	--	--	--	0
2	5	160	0	65	70	--	--	210	0	0	270	--	--	--	540
0	1	0	0	12	50	--	--	4	0	0	160	--	--	--	0
0	0	250	0	15	40	--	--	440	0	0	430	--	--	--	100
0	1	150	0	10	90	--	--	160	0	0	2700	--	--	--	20
0	1	120	0	8	90	--	--	110	0	0	2800	--	--	--	30
												SNYDER			
3	10	--	10	5	--	--	--	20	--	--	--	--	--	--	110
3	20	10	10	5	--	.5	--	60	--	--	--	--	--	--	30
												UNION			
0	10	--	10	5	--	--	--	10	--	--	--	--	--	--	60

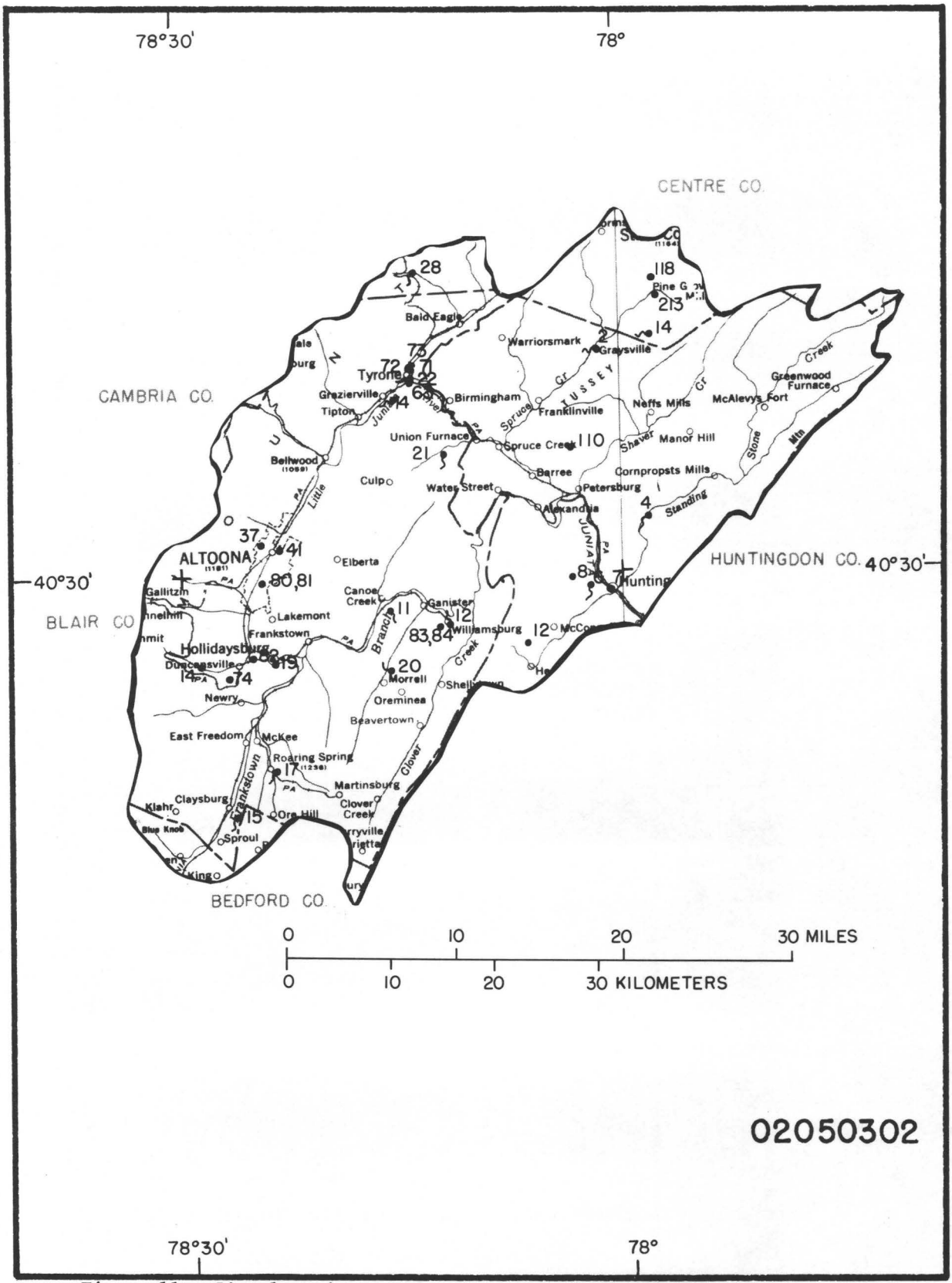

Figure 11.--Site location map for hydrologic unit 02050302.

TABLE 11.--HYDROLOGIC UNIT 02050302
(follows on next page)

Table 11.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050302

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			BLAIR										
BA 11 S	402816078160901	44-08-10	351TNLY	880.00	0.00	--	--	880	--	--	10.0	--	34
12 S	402730078121001	33-10-10	371GBRG	900.00	0.00	--	--	--	--	--	11.0	--	30
		71-11-10		900.00	0.00	--	--	396	248	8.0	10.5	134	26
14	402525078290601	33-10-11	341CMNG	1260.00	15.00	84	--	5.0	--	--	--	--	7.0
14 S	403912078153901	71-11-08	347HDBG	920.00	0.00	--	--	910	431	8.0	10.5	200	61
15 S 1/	401738078264901	67-09-01	351TNLY	1180.00	0.00	--	--	50	702	7.4	--	350	--
17 S	401959078240401	33-10-10	367NTTN	1200.00	0.00	--	--	--	--	--	--	159	35
		60-07-13		1200.00	0.00	--	--	--	--	8.1	--	170	--
		71-11-10		1200.00	0.00	--	--	4280	334	7.9	10.0	160	38
19	402537078240501	33-10-11	354CLNN	970.00	48.00	496	48	386	--	--	--	1100	310
20 S	402511078161801	71-11-10	367BLFN	1100.00	--	--	--	1410	417	8.1	10.0	220	48
21 S	403621078121801	44-08-10	364LVLL	900.00	--	--	--	7430	250	7.3	12.0	130	37
		71-11-09		900.00	0.00	--	--	13500	238	7.6	9.5	110	31
22 S	404013078143101	71-11-09	351TNLY	905.00	0.00	--	--	104	312	7.6	11.5	130	40
37	403143078244701	33-10-10	341CMNGR	1300.00	12.00	150	30	30	--	--	--	--	28
41	403126078233301	33-10-10	347RDGL	1200.00	40.00	212	40	300	--	--	--	--	17
63	404008078143001	33-10-10	354MCKZ	900.00	16.00	155	20	50	--	--	--	730	186
71 1/	404050078141901	67-12-20	351TNLY	930.00	23.00	397	23	55	--	7.3	--	220	--
72 1/	404051078142101	68-02-07	351TNLY	935.00	11.00	382	29	400	--	7.2	--	120	--
73 1/	404052078142001	68-02-20	351TNLY	930.00	11.00	370	81	100	--	7.0	--	200	--
74	402452078271301	69-08-13	341BRLR	1130.00	--	150	--	--	384	8.3	--	180	44
80 1/	402948078244901	67-10-19	351TNLY	1143.70	45.00	550	82	500	--	7.4	--	410	--
81 1/	402949078244801	67-12-20	351TNLY	1144.60	48.00	547	78	700	--	7.1	--	290	86
82 1/	402553078253001	67-06-22	347SRVR	990.00	0.00	341	70	500	--	7.0	--	340	--
83 1/	402731078123801	68-08-07	371GBRG	1060.00	210.00	487	116	392	--	7.4	--	170	--
84 1/	402730078124001	69-04-16	371GBRG	1070.00	219.00	417	254	300	--	7.5	11.0	180	--
			CENTRE										
CE 14 S	404221077580501	71-11-09	367BLFN	1160.00	0.00	--	--	1000	202	7.4	10.0	86	28
28 S 1/	404544078141201	67-08-30	337POCN	1600.00	0.00	--	--	115	--	6.2	11.0	20	--
118	404518077575501	71-11-16	371GBRG	1150.00	82.00	130	40	--	186	8.0	--	100	22
213 1/	404426077574001	67-05-02	371GBRGU	1120.00	25.14	322	60	100	--	7.4	--	72	--
			HUNTINGDON										
HU 2 S	404132078014301	71-11-08	367NTTN	1040.00	0.00	--	--	420	323	7.9	11.1	--	--
4 S	403252077582701	71-11-09	347RDGL	655.00	0.00	--	--	--	171	7.5	17.0	78	25
6 S	402925078022301	33-10-10	347RDGL	670.00	0.00	--	--	60	--	--	--	16	8.0
7	402912078010901	33-10-10	344HMLN	600.00	8.00	186	--	300	--	--	--	460	133
8	402954078033801	33-10-10	347HDBG	1020.00	65.00	94	45	5.0	--	--	--	330	114
12	402632078064801	33-10-10	351WLCK	780.00	3.00	31	10	12	--	--	--	250	80
110 1/	403639078033801	73-06-07	354CLNN	880.00	0.00	249	21	30	--	7.0	--	58	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											BLAIR				
--	3.0	--	--	164	13	1.0	.2	--	--	--	--	--	--	--	--
--	<5.0	--	--	154	3.0	.6	--	--	2.2	--	--	--	--	137	--
14	4.1	--	--	150	1.8	2.5	--	--	4.0	--	--	--	--	--	--
--	--	3.0	--	16	20	3.0	--	--	7.5	--	--	--	--	--	--
11	13	--	--	150	71	16	--	--	8.0	--	.03	--	--	--	--
--	--	--	--	196	--	7.0	.0	--	7.5	--	--	0	--	432	--
--	<5.0	--	--	174	10	1.0	--	--	8.0	--	--	--	--	--	--
--	--	--	--	--	--	2.0	--	--	--	--	--	0	--	210	--
16	6.2	--	--	184	9.1	4.4	--	--	10	--	.03	--	--	--	--
69	--	453	--	163	141	1250	--	--	--	--	--	--	--	--	--
24	3.0	--	--	217	17	6.6	--	--	25	--	.00	--	--	--	--
9.1	--	--	--	132	15	1.6	.1	6.8	4.9	--	--	40	--	141	--
7.4	3.9	--	--	107	18	4.0	--	--	6.6	--	.89	--	--	--	--
7.1	11	--	--	98	45	14	--	--	.70	--	.09	--	--	--	--
--	--	17	--	155	32	13	--	--	.50	--	--	--	--	--	--
--	--	2.0	--	61	12	6.0	--	--	2.3	--	--	--	--	--	--
65	--	5.5	--	199	523	20	--	--	9.3	--	--	--	--	--	--
--	--	--	--	190	--	66	.3	--	2.7	--	--	400	0	489	--
--	--	--	--	232	--	16	.1	--	1.8	--	--	200	--	383	--
--	--	--	--	388	--	18	.0	--	3.1	--	--	200	--	406	--
17	18	19	.7	207	32	3.9	.2	15	1.4	--	--	1400	200	224	234
--	--	107	--	254	150	196	.0	--	8.9	--	--	450	0	790	--
18	--	43	--	227	92	67	.0	--	8.9	--	.00	1200	0	422	--
--	--	--	--	287	93	8.0	.2	--	10	--	--	300	--	479	--
--	--	--	--	192	--	1.0	.0	--	2.7	--	--	200	--	228	--
--	--	4.1	--	205	20	2.5	.0	--	2.0	--	--	100	0	212	--
											CENTRE				
3.9	--	10	--	87	13	12	--	--	8.4	--	.03	--	--	--	--
--	--	6.2	--	27	8.0	2.0	.0	--	.00	--	.00	0	--	56	--
11	2.5	3.6	1.1	116	1.9	1.9	.1	5.5	.50	--	.12	20	0	85	104
--	--	1.6	--	29	42	5.0	.0	--	1.3	--	.00	0	--	128	--
											HUNTINGDON				
17	--	4.1	--	181	7.0	3.6	--	--	13	--	.06	--	37	--	--
3.7	--	3.7	--	85	14	.8	--	--	.40	--	.25	--	--	--	--
--	--	5.0	--	22	4.0	1.0	--	--	3.0	--	--	--	--	--	--
32	--	44	--	272	223	74	--	--	.00	--	--	--	--	--	--
11	--	37	--	201	20	150	--	--	17	--	--	--	--	--	--
13	<5.0	--	--	270	20	2.0	--	--	5.3	--	--	--	--	--	--
--	--	15	--	102	8.0	1.5	.0	--	.40	--	.06	270	70	98	--

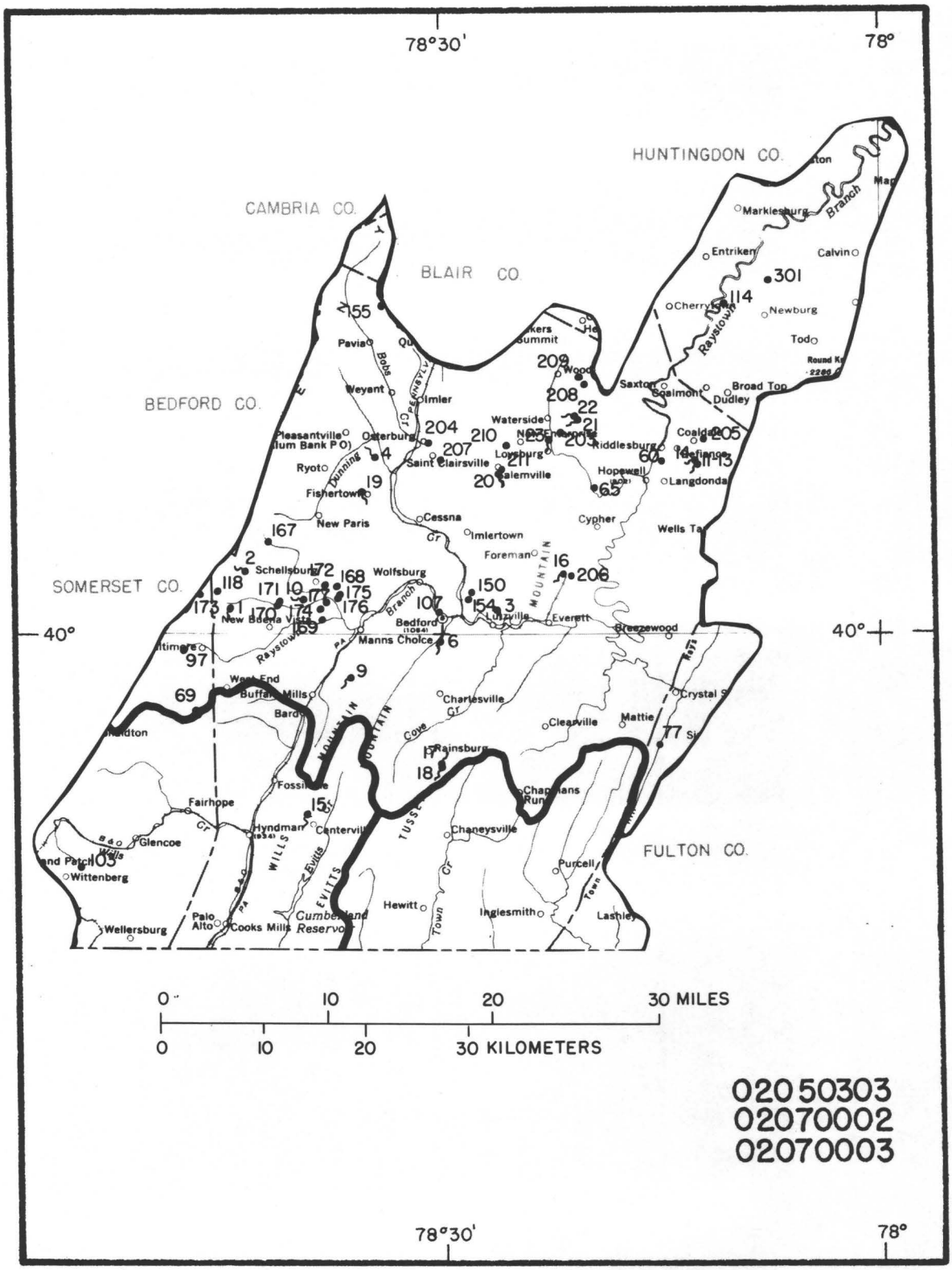

Figure 12.--Location map for hydrologic units 02050303, 02070002, and 02070003.

TABLE 12.--HYDROLOGIC UNITS 02050303, 02070002, and 02070003
(follows on next page)

Table 12.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050303, 02070002 and 02070003

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			REDFORD										
BD 1 S	400128078444201	68-07-09	341CMNG	1540.00	0.00	--	--	--	72	7.7	14.0	26	6.0
2 S	400324078434601	68-07-09	341CSKL	1680.00	0.00	--	--	--	55	7.5	20.0	20	6.4
3 S	400130078262901	33-10-13	364BKMN	1120.00	0.00	--	--	100	--	--	11.1	255	60
4 S	400926078345101	33-10-12	347RDGL	1125.00	0.00	--	--	--	--	--	--	174	50
		71-11-10		1125.00	0.00	--	--	--	464	7.6	10.5	200	58
6 S	395946078302401	33-10-13	347HDBG	1100.00	0.00	--	--	30	--	--	--	2000	558
9 S	395750078362901	33-10-13	361RDVL	1360.00	0.00	--	--	5.0	--	--	--	123	30
10 S	400201078394901	71-11-11	347RDGL	1200.00	0.00	--	--	1310	312	7.6	11.0	140	44
11 S 1/	400904078125501	73-12-31	321MNGL	1760.00	0.00	--	--	6.5	360	7.0	10.5	160	50
12 S 1/	400904078125701	72-08-23	321MNGL	1720.00	0.00	--	--	2.5	280	7.0	10.0	130	34
13 S 1/	400906078125601	72-08-23	321MNGL	1750.00	0.00	--	--	3.0	360	6.7	11.0	160	45
14 S 1/	400912078130701	76-05-26	321CNMG	1470.00	0.00	--	--	8.5	350	6.8	11.0	160	46
15 S 1/	395038078392801	72-08-15	357TCRR	1630.00	0.00	--	--	50	40	4.4	11.0	14	1.6
16 S 1/	400317078214701	69-01-29	354CLNN	1190.00	0.00	--	--	210	170	6.6	--	80	21
17 S 1/	395316078301801	72-08-15	361BDEG	1620.00	0.00	--	--	14	40	5.6	10.3	16	3.2
18 S 1/	395312078301301	72-08-15	361BDEG	1670.00	0.00	--	--	10	50	6.4	11.0	23	5.6
19 S 1/	400739078355101	72-08-10	347ORSK	1440.00	0.00	--	--	8.0	60	6.4	11.0	22	6.4
20 S 1/	400838078262801	72-08-22	361BDEG	1560.00	0.00	--	--	7.0	50	6.9	13.0	25	5.6
21 S 1/	401133078210401	72-08-16	361BDEG	1990.00	0.00	--	--	9.0	44	6.5	11.0	16	3.2
22 S 1/	401135078211301	72-08-16	361BDEG	1810.00	0.00	--	--	8.0	50	6.5	14.5	22	4.8
23 S 1/	401020078225801	72-08-16	364BKMN	1160.00	0.00	--	--	12	600	7.3	11.4	300	72
60	400919078151601	33-10-10	327MCCK	900.00	50.00	90	50	5.0	--	--	--	84	24
65	400748078195301	33-10-13	351BMBG	950.00	8.00	34	27	10	--	--	--	250	86
107	400122078302901	33-10-13	351WLCK	1070.00	22.00	180	40	60	--	--	--	880	226
118	400220078453501	33-10-12	337POCN	2440.00	--	275	40	35	--	--	--	50	10
150	400217078281901	71-09-16	344ONDG	1160.00	28.00	150	47	--	342	7.8	--	180	58
		74-11-11		1160.00	--	150	--	--	302	6.5	12.5	150	47
		74-11-11		1160.00	--	150	--	--	--	--	--	--	--
154	400225078280801	71-09-16	347RDGL	1150.00	31.00	183	183	6.0	271	8.2	--	140	35
155	401723078334901	54-09-14	337POCN	3120.00	298.00	500	298	--	67	7.6	--	23	6.7
		55-05-05		3120.00	298.00	500	298	--	225	7.8	10.0	45	12
167	400454078420901	68-07-08	341CMNG	1550.00	2.00	12	--	--	118	7.4	18.0	46	9.2
168	400231078373001	68-06-28	341CMNGR	1210.00	--	--	--	--	408	8.1	15.0	160	41
169	400102078382401	68-07-08	344MNNG	1180.00	--	140	--	--	941	7.8	14.0	383	99
170	400141078413201	68-07-09	344MNNG	1260.00	--	10	--	--	353	8.1	14.0	130	42
171	400146078412801	68-07-09	344MNNG	1280.00	--	107	--	--	360	8.6	16.0	123	34
172	400241078382001	68-06-28	344MRCL	1170.00	--	48	20	10	442	7.4	--	150	47
173	400159078483201	67-10-26	344MNNG	1160.00	4.00	50	18	4.0	335	7.8	--	180	55
174	400131078383801	67-10-26	344MNNG	1300.00	--	120	--	--	257	8.1	--	120	29
175	400212078372101	67-10-26	341CMNGR	1180.00	--	207	--	15	443	8.4	--	37	7.2
176	400208078372301	67-10-26	341CMNGR	1180.00	20.00	76	21	5.0	304	8.2	--	120	20
177	400148078381701	67-10-26	344MNNG	1200.00	--	150	--	2.0	347	--	--	170	38
203 1/	401051078220801	72-08-16	361RDVL	1300.00	25.00	300	40	42	220	7.2	11.0	88	14
204 1/	401005078311201	72-08-08	347ORSK	1138.00	--	235	150	17	120	6.6	13.0	62	13
205 1/	401022078123401	72-08-08	321CNMG	1340.00	--	315	--	34	700	6.4	--	180	34
206 1/	400314078213101	72-08-09	351WLCK	1090.00	6.00	500	66	84	680	7.3	--	340	86
207 1/	400916078302701	72-08-09	344ONDG	1280.00	0.00	190	58	75	665	6.7	12.0	180	56
208 1/	401317078203201	72-08-17	367BLFN	1530.00	--	262	42	25	180	7.2	10.5	82	24
209 1/	401339078205301	72-08-17	367NTTN	1385.00	--	320	27	45	240	7.2	10.5	82	20
210 1/	401002078254801	72-08-22	367BLFN	1331.26	70.00	165	92	150	440	5.5	11.0	220	46
211 1/	400843078262001	72-08-22	361RDVL	1480.00	--	170	--	25	190	7.4	10.0	92	19
			FULTON										
FU 77	395418078152701	33-10-04	327MCCK	1320.00	12.00	52	12	--	--	--	11.1	76	18
			HUNTINGDON										
HU 114	401731078111001	73-07-17	341CSKL	800.00	--	19	--	19	204	7.7	--	82	24
		73-11-06		800.00	--	19	--	--	261	7.3	--	110	31
		73-11-16		800.00	6.00	19	--	25	--	--	--	--	--
		74-06-13		800.00	--	19	--	--	255	7.1	--	110	33
		74-06-13		800.00	--	19	--	--	--	--	--	--	--
		74-10-21		800.00	--	19	--	--	258	6.7	14.0	100	31
		74-10-21		800.00	--	19	--	--	--	--	--	--	--
		75-05-29		800.00	--	19	--	--	220	6.4	13.0	90	27
		75-05-29		800.00	--	19	--	--	--	--	--	--	--
		75-10-06		800.00	--	19	--	--	224	6.4	15.0	88	26
		75-10-06		800.00	--	19	--	--	224	6.4	15.0	--	--
		76-05-17		800.00	--	19	--	--	--	--	--	79	23
		76-05-17		800.00	--	19	--	--	--	--	--	--	--
		76-10-19		800.00	--	19	--	--	208	6.1	13.0	79	23
		76-10-19		800.00	--	19	--	--	208	6.1	13.0	--	--
301	401843078075401	69-09-17	337BRGN	970.00	58.00	105	58	43	230	7.8	--	120	43
			SOMERSET										
SO 69	395602078465701	64-11-10	341CMNG	2040.00	60.00	207	60	5.0	283	7.7	--	120	--
97	395916078475201	64-11-10	341CSKL	1565.00	--	40	--	--	66	5.9	--	20	7.6
103 1/	394751078545301	71-05-27	341CMNG	2105.00	5.00	205	106	55	--	8.2	--	80	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											BEDFORD				
3.2	2.0	3.2	1.2	24	7.6	1.5	.7	8.3	6.4	--	.40	0	0	54	49
1.4	1.8	2.4	.6	22	6.9	1.7	.0	5.5	1.8	--	.03	0	0	38	37
--	--	<5.0	--	278	12	2.0	--	--	16	--	--	--	--	--	--
--	2.0	--	--	83	104	.4	--	--	1.8	--	--	--	--	--	--
13	--	7.4	--	83	130	5.8	--	--	2.7	--	.21	--	--	--	--
146	--	--	--	183	1764	6.0	--	--	.20	--	--	--	--	--	--
--	--	8.0	--	143	20	2.0	--	--	.00	--	--	--	--	--	--
7.8	--	4.4	--	101	48	5.0	--	--	14	--	.06	--	--	--	--
9.0	--	11	--	167	37	2.1	.1	.4	7.1	--	.37	110	40	195	--
12	4.3	5.2	.9	129	33	2.0	.1	.6	1.0	--	.55	80	40	160	152
12	--	13	--	170	38	1.0	.1	4.0	7.1	--	.52	90	50	200	--
12	4.0	5.0	1.0	152	45	1.5	.1	1.3	5.3	--	.43	110	40	190	192
2.5	.4	.5	.1	0	10	1.5	.0	4.0	1.9	--	.31	10	120	25	23
6.7	1.8	2.0	.2	73	21	1.5	.0	5.7	1.1	--	1.0	820	770	106	98
2.0	1.8	2.6	.8	10	6.0	2.5	.0	.4	1.9	--	.28	40	70	25	24
2.2	1.6	2.0	.4	13	7.8	2.5	.0	.3	.50	--	.37	60	50	28	28
1.5	1.8	4.0	2.2	23	.5	1.5	.0	5.5	8.0	--	2.0	80	60	40	41
2.7	.8	1.8	1.0	10	16	.0	.0	1.1	.30	--	.80	10	40	33	34
1.9	1.2	2.2	1.0	13	9.0	1.0	.0	.4	.20	--	.34	40	70	26	25
2.5	1.2	2.2	1.0	16	9.0	1.0	.0	.8	.40	--	.55	310	1080	30	31
29	3.7	4.1	.4	287	38	7.0	.1	.8	29	--	.28	40	70	330	322
--	--	8.0	--	112	4.0	1.0	--	--	5.3	--	--	--	--	--	--
9.4	--	<5.0	--	256	20	11	--	--	11	--	--	--	--	--	--
77	--	7.0	--	235	659	12	--	--	.80	--	--	--	--	--	--
--	--	45	--	147	24	2.0	--	--	.70	--	--	--	--	--	--
7.4	3.6	5.5	1.9	197	17	.9	.1	8.8	.60	--	.01	520	20	194	196
6.7	2.6	3.6	1.0	169	14	.8	.2	10	.00	--	.03	1800	70	176	168
--	--	--	--	--	--	--	--	--	--	--	--	1800	80	--	--
13	2.0	6.6	4.6	157	11	.6	.5	8.3	.30	--	.12	11000	490	145	164
1.5	3.5	--	--	20	6.3	5.0	.1	5.2	.20	--	--	--	--	50	38
3.7	--	24	--	43	24	26	.2	8.6	1.0	--	--	--	--	126	--
5.6	4.1	--	--	35	16	4.6	--	--	4.3	--	--	--	--	--	--
14	--	9.0	--	160	42	3.6	--	--	.20	--	.00	--	--	--	--
33	16	17	.6	144	65	166	.0	5.8	2.6	--	.00	--	--	510	459
7.0	--	20	--	124	39	11	--	--	24	--	--	--	--	--	--
9.2	30	31	1.0	206	14	1.5	.2	18	1.1	--	.00	20	20	220	216
8.4	7.2	8.6	1.4	93	86	2.0	.1	14	.00	--	.00	10	0	230	212
9.1	6.7	7.9	1.2	98	88	4.0	.0	14	.00	--	.10	60	160	226	227
11	6.4	7.5	1.1	110	26	8.0	.0	7.6	.60	--	.10	0	130	144	149
4.5	95	--	--	205	47	3.0	.3	15	.00	--	.00	200	200	277	283
17	16	17	1.0	129	46	3.0	.2	17	.20	--	.00	20	480	188	186
17	13	14	1.1	174	27	2.5	.2	13	.00	--	.10	580	80	184	208
13	4.6	5.6	1.0	77	26	4.0	.2	.4	.50	--	1.4	70	180	112	104
7.2	1.4	1.6	.2	39	22	.5	.1	7.5	1.5	--	4.3	100	20	76	77
24	73	77	4.0	128	228	1.3	.3	5.8	.70	--	.37	360	590	494	436
31	18	20	1.9	226	41	87	.2	6.2	12	--	1.0	660	50	429	397
11	48	66	18	317	59	3.0	.1	12	.90	--	1.5	4500	420	380	371
5.3	3.2	3.9	.7	100	4.0	1.0	.1	1.1	1.0	--	.49	120	110	100	91
7.8	18	20	1.6	100	20	11	.1	1.1	1.0	--	.55	50	70	140	131
24	1.7	3.9	2.2	220	29	7.0	.1	.3	.50	--	2.6	460	50	236	223
11	5.0	5.7	.7	81	26	4.0	.0	1.1	.20	--	1.3	750	140	110	109
											FULTON				
--	--	3.0	--	94	4.0	1.0	--	--	1.0	--	--	--	--	--	--
											HUNTINGDON				
5.4	3.4	13	10	81	10	7.1	.2	8.0	17	--	.06	0	40	131	125
7.2	3.5	10	6.7	86	12	9.0	.2	8.0	39	--	.00	140	10	165	159
--	--	--	--	--	--	--	--	--	--	--	--	290	20	--	--
6.0	3.5	8.7	5.2	72	19	8.2	.2	7.9	32	--	.00	550	10	164	151
--	--	--	--	--	--	--	--	--	--	--	--	640	15	--	--
6.4	3.0	10	7.0	78	18	6.9	.2	7.2	28	--	.09	30	0	153	147
--	--	--	--	--	--	--	--	--	--	--	--	180	12	--	--
5.4	2.4	7.2	4.8	53	19	7.4	.1	9.1	32	--	.03	80	10	149	134
--	--	--	--	--	--	--	--	--	--	--	--	250	21	--	--
5.6	2.6	7.2	4.6	54	20	7.1	.0	9.0	33	--	.03	80	10	156	134
--	--	--	--	--	--	--	--	--	--	--	--	90	30	--	--
5.3	2.4	7.2	4.8	50	23	5.5	.1	8.6	26	--	.03	120	20	123	123
--	--	--	--	--	--	--	--	--	--	--	--	200	150	--	--
5.3	2.7	8.3	5.6	56	23	7.2	.0	9.7	24	--	.03	60	20	133	129
--	--	--	--	--	--	--	--	--	--	--	--	90	20	--	--
2.3	1.4	2.7	1.3	109	21	1.2	.0	6.1	4.9	--	.00	250	40	140	135
											SOMERSET				
--	--	18	--	182	7.6	1.4	--	--	.20	--	--	0	--	179	--
.2	2.5	2.7	.2	12	8.6	4.1	.0	5.4	3.6	--	--	1800	0	41	40
--	--	48	--	182	7.0	13	.4	--	.30	--	5.5	700	40	222	--

Table 12.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic units 02050303, 02070002 and 02070003--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			BEDFORD										
BD 11 S 1/	400904078125501	321MNGL	--	--	6.5	360	--	0	0	--	--	--	60
12 S 1/	400904078125701	321MNGL	--	--	2.5	280	--	0	25	--	--	--	20
13 S 1/	400906078125601	321MNGL	--	--	3.0	360	--	0	0	--	--	--	140
14 S 1/	400912078130701	321CNMG	--	--	8.5	350	--	0	0	--	--	--	110
15 S 1/	395038078392801	357TCRR	--	--	50	40	--	150	0	--	--	--	5
16 S 1/	400317078214701	354CLNN	--	--	210	170	--	20	0	--	--	--	0
17 S 1/	395316078301801	361BDEG	--	--	14	40	--	0	0	--	--	--	0
18 S 1/	395312078301301	361BDEG	--	--	10	50	--	0	0	--	--	--	0
19 S 1/	400739078355101	347ORSK	--	--	8.0	60	--	20	0	--	--	--	0
20 S 1/	400838078262801	361BDEG	--	--	7.0	50	--	0	0	--	--	--	160
21 S 1/	401133078210401	361BDEG	--	--	9.0	44	--	0	0	--	--	--	0
22 S 1/	401135078211301	361BDEG	--	--	8.0	50	--	0	0	--	--	--	8
23 S 1/	401020078225801	364BKMN	--	--	12	600	--	0	0	--	--	--	90
150	400217078281901	344ONDG	150	--	--	--	--	190	--	50	0	0	10
173	400159078483201	344MNNG	50	18	4.0	335	--	--	--	--	--	--	--
174	400131078383801	344MNNG	120	--	--	257	--	--	--	--	--	--	--
175	400212078372101	341CMNGR	207	--	15	443	--	--	--	--	--	--	--
176	400208078372301	341CMNGR	76	21	5.0	304	--	--	--	--	--	--	--
177	400148078381701	344MNNG	150	--	2.0	347	--	--	--	--	--	--	--
203 1/	401051078220801	361RDVL	300	40	42	220	--	0	0	--	--	--	80
204 1/	401005078311201	347ORSK	235	150	17	120	--	10	0	--	--	--	0
205 1/	401022078123401	321CNMG	315	--	34	700	--	0	0	--	--	--	0
206 1/	400314078213101	351WLCK	500	66	84	680	--	20	0	--	--	--	0
207 1/	400916078302701	344ONDG	190	58	75	665	--	40	0	--	--	--	0
208 1/	401317078203201	367BLFN	262	42	25	180	--	0	0	--	--	--	90
209 1/	401339078205301	367NTTN	320	27	45	240	--	0	0	--	--	--	90
210 1/	401002078254801	367BLFN	165	92	150	440	--	0	0	--	--	--	90
211 1/	400843078262001	361RDVL	170	--	25	190	--	0	0	--	--	--	0
			HUNTINGDON										
HU 114	401731078111001	341CSKL	19	--	25	--	--	70	--	150	<2	<4	8
			19	--	--	--	--	540	--	140	<1	<3	6
			19	--	--	--	--	76	--	170	0	<1	9
			19	--	--	--	--	170	--	140	0	<1	5
			19	--	--	224	--	20	--	100	<0	<2	120
			19	--	--	--	--	80	--	100	<1	<3	8
			19	--	--	208	--	90	--	50	<1	<1	8

CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	TIN, DIS-SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI-TANIUM, DIS-SOLVED (UG/L AS TI)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
												BEDFORD			
0	8	30	30	5	10	.0	--	90	--	0	--	--	--	10	10
0	8	40	50	5	10	.0	--	80	--	0	--	--	--	--	20
0	8	30	40	0	10	.0	--	90	--	0	--	--	--	--	10
5	8	30	40	5	10	.0	--	80	--	0	--	--	--	--	10
0	7	4	80	0	10	.0	--	20	--	0	--	--	--	--	0
0	30	0	20	5	10	.0	--	10	--	0	--	--	--	--	20
0	7	4	50	5	10	.0	--	20	--	0	--	--	--	--	0
0	7	5	70	0	10	.0	--	5	--	0	--	--	--	--	0
5	5	0	50	5	10	.0	--	8	--	0	--	--	--	--	30
0	8	20	60	0	10	.0	--	70	--	0	--	--	--	--	10
0	6	3	60	0	10	.0	--	3	--	0	--	--	--	--	0
0	6	40	80	0	10	.0	--	30	--	0	--	--	--	--	0
0	9	40	80	0	100	.0	--	30	--	0	--	--	--	--	0
<3	0	6	3	3	9	--	0	10	--	0	36	0	20	.0	60
--	--	--	0	180	--	--	--	--	--	--	--	--	--	--	310
--	--	--	0	90	--	--	--	--	--	--	--	--	--	--	5000
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	1200
--	--	--	0	0	--	--	--	0	--	--	--	--	--	--	1600
--	--	--	0	60	--	--	--	--	--	--	--	--	--	--	1400
5	110	60	130	0	10	.5	--	40	--	0	--	--	--	--	170
5	30	0	20	0	10	.0	--	10	--	0	--	--	--	--	40
0	115	0	50	--	50	--	--	25	--	0	--	--	--	--	520
5	30	0	310	5	10	.5	--	10	--	0	--	--	--	--	30
0	2	0	--	0	100	.0	--	11	--	0	--	--	--	--	230
0	8	20	140	5	10	.0	--	30	--	3	--	--	--	--	20
0	80	20	90	5	10	.0	--	20	--	0	--	--	--	--	30
0	9	40	20	5	10	.0	--	80	--	0	--	--	--	--	5
0	9	40	30	5	10	.0	--	10	--	0	--	--	--	--	260
												HUNTINGDON			
8	<4	<4	53	400	2	--	<2	12	--	0	90	6	3	3.0	370
1	4	<3	20	140	2	--	<2	14	--	0	78	<4	50	<2.0	46
<4	<1	<1	32	130	2	--	0	110	--	0	73	<1	6	<1.0	86
3	0	<1	45	50	2	--	0	110	--	0	68	<1	18	2.0	130
<5	<2	<2	160	35	10	--	35	3	--	<0	170	<2	1	<2.0	2000
2	<3	<3	90	150	0	--	<1	350	--	<0	50	<3	8	<3.0	40
3	<1	1	81	>47	0	--	<1	38	--	<0	40	<1	<1	<1.9	70

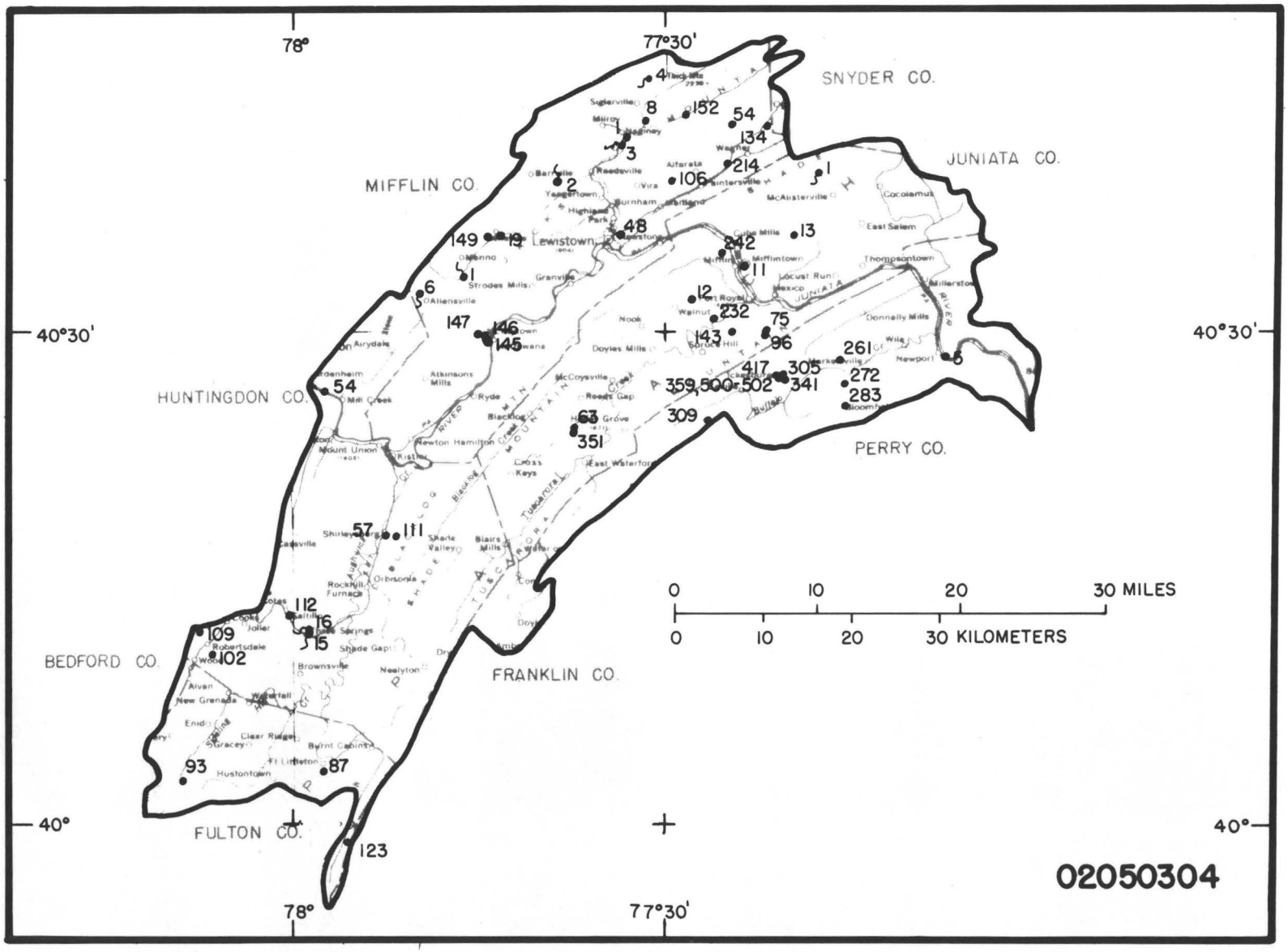

Figure 13.--Site location map for hydrologic unit 02050304.

TABLE 13.--HYDROLOGIC UNIT 02050304
(follows on next page)

Table 13.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050304

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			FULTON										
FU 87	400332077575101	33-10-04	351BMBG	840.00	34.00	66	34	--	--	--	11.7	177	65
93	400302078090401	70-06-05	337POCN	1180.00	--	191	--	--	68	7.0	--	30	9.6
		73-06-01		1180.00	3.00	191	45	--	65	7.5	--	31	9.9
123 1/	395908077555401	74-08-13	357TCRR	1355.00	12.00	220	--	60	--	6.9	--	52	--
			HUNTINGDON										
HU 15 S 1/	401158077585701	70-04-27	354CLNN	855.00	0.00	--	--	17	--	5.3	--	20	--
16 S 1/	401202077590401	70-07-27	354CLNN	900.00	0.00	--	--	8.0	--	5.3	--	18	--
54	402653077573701	33-10-10	341CSKL	620.00	20.00	150	23	5.0	--	--	--	68	28
57	401757077525701	33-10-13	344MRCL	600.00	0.50	55	37	40	--	--	--	171	45
102	401052078064801	33-10-13	327MCCK	1800.00	--	293	293	--	--	--	--	86	24
109 1/	401217078075201	75-04-02	324PSVL	1985.00	--	280	--	85	--	7.0	--	91	--
111 1/	401756077520601	74-03-28	347HDBG	680.00	10.00	290	26	44	--	7.2	--	330	--
112 1/	401308078003501	75-08-06	354MCKZ	815.00	5.00	80	64	24	--	7.0	--	170	--
			JUNIATA										
JU 1 S	403950077175001	34-08-18	354CLNN	1050.00	0.00	--	--	18	--	--	--	10	2.0
11	403407077235201	34-08-20	351TNLY	440.00	15.00	140	40	275	--	--	--	310	82
12	403209077280501	34-08-23	351TNLY	540.00	20.00	125	21	50	--	--	--	400	94
13	403602077194701	34-08-20	351BMBG	580.00	18.00	68	10	--	--	--	--	310	86
63	402418077374901	34-08-23	344MNNG	650.00	20.00	172	15	16	--	--	--	86	30
75	403007077221101	65-05-19	351WLCKL	672.00	18.00	92	60	--	139	6.9	10.5	72	21
96	402959077221001	66-04-18	351BMBG	741.00	31.00	248	--	--	214	7.5	9.4	96	27
143	403018077245601	66-04-18	347KYSR	685.00	42.00	82	72	--	443	7.5	--	216	74
232	403106077261601	66-04-18	354MFLN	610.00	39.00	74	23	--	319	7.4	11.0	156	55
242	403505077253601	66-04-20	351BMBG	625.00	58.00	128	16	--	93	6.1	12.0	34	8.0
351	402411077374801	69-05-14	344MNNG	635.00	19.00	110	18	--	221	8.5	10.5	58	15
			MIFFLIN										
MF 1 S	403347077462701	71-11-11	367BLFN	840.00	0.00	--	--	--	434	7.7	10.0	190	51
1	404210077331001	71-11-16	364NLMN	680.00	--	28	--	--	658	8.0	--	390	130
2 S	403933077385101	71-11-18	367AXMN	720.00	0.00	--	--	--	392	7.7	10.5	200	55
3 S	404147077333601	71-11-11	364CRTN	640.00	0.00	--	--	--	161	7.5	9.0	65	21
4 S	404547077313201	71-11-16	361RDVL	830.00	0.00	--	--	--	136	7.5	11.0	54	18
6 S 1/	403246077495301	73-10-30	361BDEG	1260.00	0.00	--	--	300	--	6.0	--	14	--
8	404316077314201	34-08-14	361RDVL	705.00	17.00	35	16	--	--	--	--	116	26
19	403615077433401	34-08-14	367BLFN	790.00	1.00	60	--	--	--	--	--	270	60
48	403617077335401	34-08-14	351WLCK	480.00	6.00	140	--	--	--	--	--	1700	480
54	404254077244601	34-08-14	344MRCL	765.00	35.00	86	32	--	--	--	--	190	60
106	403935077293701	66-04-20	351TNLY	655.00	70.00	225	102	--	531	7.5	--	272	66
134	404239077220201	66-04-20	344MNNG	660.00	29.00	90	33	11	213	8.0	11.6	34	8.2
145	402958077444501	73-05-16	354MCKZ	595.00	40.00	248	--	58	--	6.6	--	410	--
146 1/	403004077444601	74-09-18	354MCKZ	640.00	65.00	380	86	55	--	6.9	--	220	--
147 1/	403015077451201	77-12-29	354MCKZ	670.00	150.00	415	71	135	500	7.2	--	260	86
149 1/	403617077443001	74-12-16	367BLFN	805.00	27.00	201	32	300	--	7.2	--	290	88
152	404321077282901	65-12-29	361RDVL	812.00	25.00	250	69	--	204	7.2	--	90	26
214	404031077251001	66-03-18	344MRCL	597.00	5.00	110	39	--	427	7.5	11.1	182	50
			PERRY										
PE 5	402828077075001	34-08-28	341TMRK	380.00	25.00	300	25	100	--	--	--	170	46
261	402822077161601	66-04-15	341TMRK	745.00	--	100	--	9.0	268	6.4	--	70	14
272	402658077190301	66-04-14	344SMRG	580.00	30.00	60	18	12	168	6.9	11.1	75	24
283	402534077160501	66-04-15	341RUSH	695.00	--	80	18	18	164	6.9	--	66	18
305	402724077210201	66-10-17	351TNLY	625.00	6.00	211	--	9.0	--	--	--	--	--
309	402447077270801	66-05-16	354RSHL	970.00	15.00	117	43	--	112	6.9	--	47	9.5
341	402718077205601	66-11-17	351WLCKU	620.00	15.00	49	--	--	--	--	--	--	--
359	402721077210701	66-10-13	351TNLY	630.00	--	100	28	50	--	--	--	--	--
417	402724077212101	66-10-17	351WLCKU	650.00	24.00	81	40	12	--	--	--	--	--
500	402718077211401	66-10-13	351TNLY	640.00	7.00	43	20	--	--	--	--	--	--
501	402719077211201	66-10-13	351WLCKU	635.00	16.00	20	--	--	--	--	--	--	--
502	402721077210501	66-10-17	351TNLY	630.00	--	20	--	--	--	--	--	--	--

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
		MIFFLIN											
MF 147 1/	403015077451201	354MCKZ	415	71	135	500	--	140	1	10	--	--	100

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											FULTON				
--	--	9.0	--	153	20	12	--	--	42	--	--	--	--	--	--
1.5	.8	1.5	.7	39	.8	.5	.2	7.4	.10	--	--	500	20	55	41
1.6	.7	1.5	.8	39	.0	.3	.1	7.0	.00	--	.03	40	0	44	40
--	--	--	--	56	4.0	2.5	.1	--	.90	--	.64	180	10	60	--
											HUNTINGDON				
--	--	--	--	5	13	1.8	.1	--	4.9	--	.03	40	80	46	--
--	--	--	--	5	15	3.8	.0	--	.90	--	.03	110	70	46	--
--	--	17	--	105	17	1.0	--	--	.10	--	--	--	--	--	--
--	--	3.0	--	83	60	33	--	--	.10	--	--	6100	--	--	--
--	--	20	--	--	10	1.0	--	--	.30	--	--	--	--	--	--
--	4.4	--	--	109	4.5	3.5	.1	--	1.9	--	.09	1400	140	108	--
--	--	12	--	381	12	22	.2	--	.30	--	.06	180	10	360	--
--	--	--	--	207	--	1.8	.1	--	2.1	--	.15	120	--	200	--
											JUNIATA				
--	--	1.0	--	9	4.0	.6	--	--	.10	--	--	--	--	--	--
25	35	37	2.2	286	51	61	--	12	11	--	--	40	--	429	420
40	--	10	--	433	50	3.0	--	--	11	--	--	50	--	--	--
24	--	5.0	--	308	20	17	--	--	34	--	--	370	--	--	--
--	--	19	--	132	16	1.1	--	--	.10	--	--	--	--	--	--
4.6	.4	.6	.2	84	2.6	.7	.0	7.9	.40	--	--	410	50	83	79
6.9	6.0	6.6	.6	128	4.2	2.2	.0	11	.50	--	--	20	0	125	122
7.6	2.5	3.0	.5	176	21	11	.1	7.9	44	--	--	10	0	278	255
4.6	1.0	1.5	.5	154	10	4.8	.1	7.4	15	--	--	20	0	192	174
3.3	1.8	3.0	1.2	24	8.2	2.8	.0	8.7	11	--	--	20	0	71	57
4.9	22	23	.9	122	13	.7	.0	10	.30	--	.00	430	40	137	128
											MIFFLIN				
15	--	16	--	197	24	12	--	--	26	--	.12	--	--	--	--
16	5.7	8.0	2.3	173	212	5.9	--	5.6	8.0	--	.03	160	80	466	471
14	--	5.8	--	148	13	40	--	--	20	--	.03	--	--	--	--
3.0	--	8.0	--	67	13	8.7	--	--	1.8	--	.09	--	--	--	--
2.3	--	3.7	--	63	7.1	1.1	--	--	2.2	--	.12	--	--	--	--
--	--	1.6	--	7	10	1.0	.0	--	.20	--	.00	30	--	35	--
--	--	--	--	164	10	1.0	--	--	.10	--	--	430	--	--	--
30	11	13	1.9	254	27	28	--	8.2	22	--	--	20	--	312	313
121	--	--	--	202	1464	5.0	--	--	.00	--	--	870	--	--	--
8.5	--	--	--	151	68	10	--	--	.20	--	--	720	--	--	--
26	.6	1.3	.7	290	38	4.0	.3	7.4	5.3	--	--	180	0	323	291
3.3	34	34	.3	124	8.2	1.6	.3	12	.40	--	--	170	30	139	129
--	--	--	--	231	210	3.5	.1	--	1.3	--	.12	4920	400	606	--
--	--	--	--	249	15	1.2	.1	--	.10	--	.09	210	40	288	--
11	10	20	10	240	96	6.6	.1	13	2.3	--	.15	580	50	361	354
18	--	19	--	289	44	18	.1	3.0	31	--	.03	160	30	410	--
6.1	7.8	8.9	1.1	129	1.0	.9	.2	15	1.0	--	--	140	520	122	123
14	18	19	.8	218	48	1.1	.2	25	1.4	--	--	370	240	265	266
											PERRY				
13	--	26	--	144	81	15	--	--	.50	--	--	220	--	--	--
8.8	22	24	1.8	44	4.2	28	.1	16	49	--	--	130	0	168	166
3.6	4.2	4.9	.7	76	18	1.4	.1	15	1.5	--	--	190	0	110	106
4.9	6.2	6.9	.7	72	8.2	9.0	.1	18	.30	--	--	390	140	103	101
--	--	--	--	--	--	72	--	--	22	--	--	--	--	--	--
5.7	2.6	3.1	.5	64	3.4	1.5	.0	9.3	.60	--	--	780	310	74	65
--	--	--	--	--	--	17	--	--	24	--	--	--	--	--	--
--	--	--	--	--	--	70	--	--	.70	--	--	--	--	--	--
--	--	--	--	--	--	3.5	--	--	9.3	--	--	--	--	--	--
--	--	--	--	--	--	40	--	--	23	--	--	--	--	--	--
--	--	--	--	--	--	39	--	--	24	--	--	--	--	--	--
--	--	--	--	--	--	28	--	--	1.2	--	--	--	--	--	--

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												MIFFLIN			
5	10	10	10	5	50	.5	5	10	--	1	--	5	--	--	10

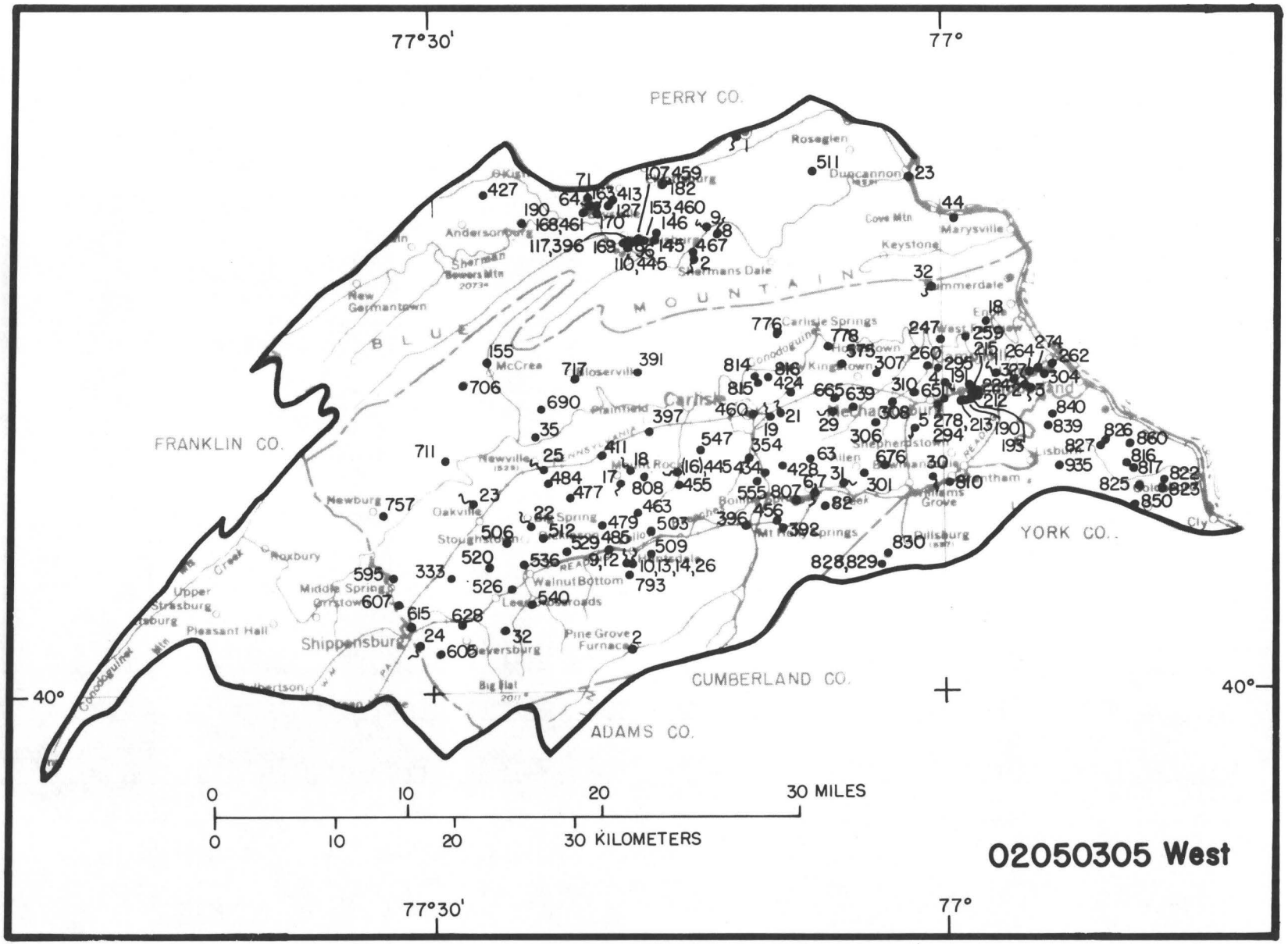

Figure 14.--Site location map for hydrologic unit 02050305.

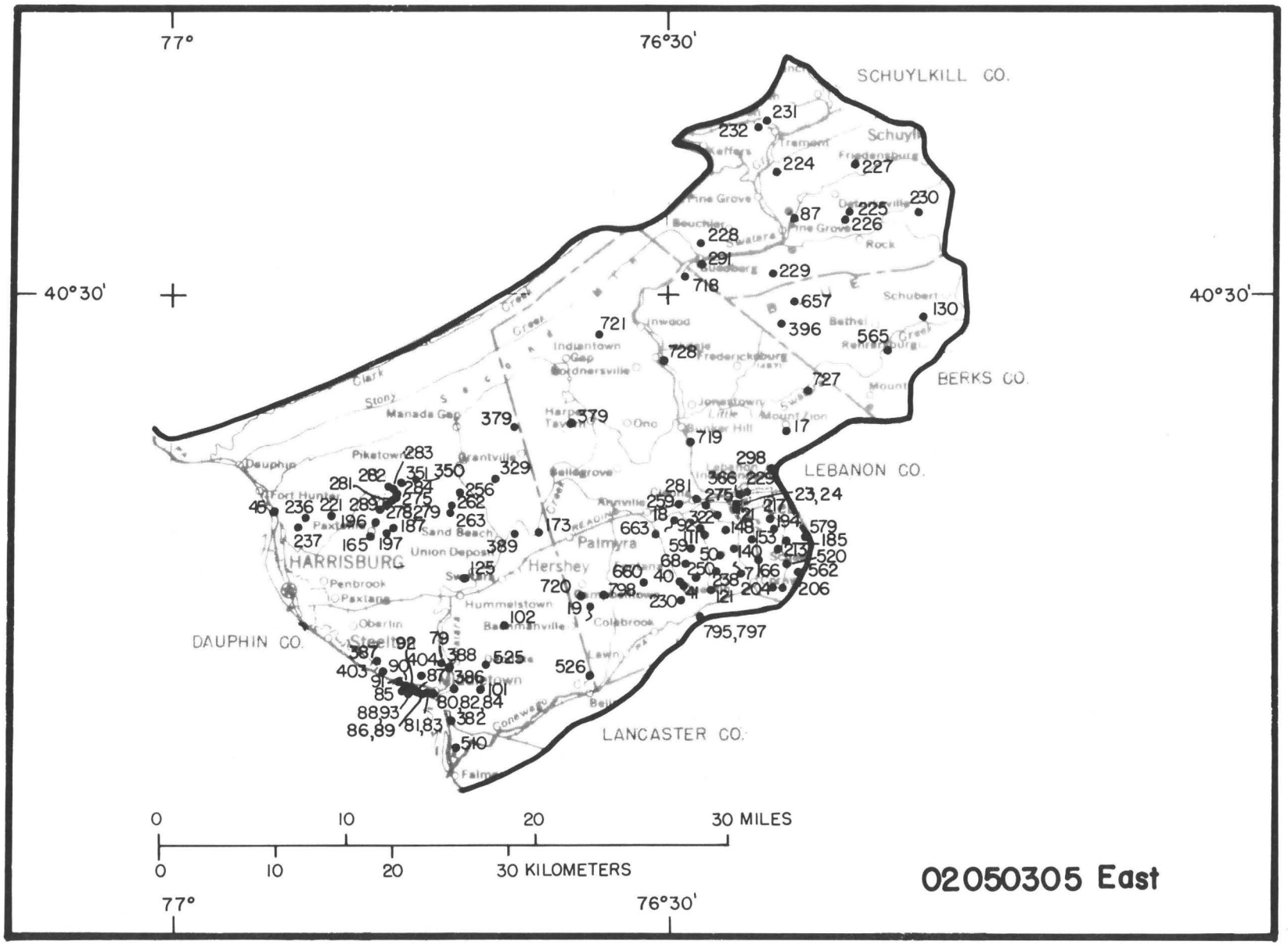

Figure 14.--Site location map for hydrologic unit 02050305--continued.

TABLE 14.--HYDROLOGIC UNIT 02050305
(follows on next page)

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			BERKS										
BE 130	402913076144801	63-01-29	364HMBG1	580.00	--	--	--	--	297	7.6	12.0	130	38
396	402856076230901	63-01-09	364HMBG1	553.00	16.00	54	40	10	265	7.6	12.0	120	38
565	402734076165301	59-03-27	364HMBG3	490.00	7.00	54	7.0	--	379	7.8	11.0	190	56
657	402953076223201	70-10-06	364HMBG1	640.00	12.70	68	25	7.0	266	7.7	11.5	140	30
			CUMBERLAND										
CU 1 S	401419076570801	71-11-12	361MRBG	350.00	0.00	--	--	1.0	849	7.6	12.0	380	119
		74-07-16		350.00	0.00	--	--	--	--	--	--	--	--
2	400209077183301	69-05-06	000MTRL	955.00	17.00	37	--	8.2	33	6.9	11.1	5	1.1
2 S	401344076551401	71-11-12	364STPL	370.00	0.00	--	--	1350	754	7.7	12.5	330	100
3 S	401339076550701	71-11-12	364STPL	370.00	0.00	--	--	417	731	7.7	12.5	320	97
		71-12-09		370.00	0.00	42	--	--	545	7.6	--	354	112
		74-07-16		370.00	0.00	--	--	--	--	--	--	--	--
4 S	401428077002501	71-11-11	367RCKR	375.00	0.00	--	--	1680	599	7.8	11.0	280	90
5 S	401158077015301	71-11-11	371CCCG	425.00	0.00	--	--	--	473	7.8	11.0	230	66
6 S	400901077074501	71-11-08	371ELBK	470.00	0.00	--	--	15850	242	8.0	13.0	110	31
7 S	400858077074201	44-08-04	371ELBK	530.00	0.00	--	--	14850	225	7.5	12.0	120	31
		52-02-12		530.00	0.00	--	--	--	229	7.5	13.3	110	29
		71-11-08		530.00	0.00	--	--	--	240	7.9	13.0	110	30
9 S	400609077184501	71-11-09	377TMSN	600.00	0.00	--	--	490	226	7.8	11.0	96	27
10 S	400606077183501	71-11-09	377TMSN	605.00	0.00	--	--	5120	210	8.1	14.0	96	24
12 S	400611077183601	71-11-09	377TMSN	600.00	0.00	--	--	560	214	8.1	11.5	99	27
13 S	400604077183701	71-11-09	377TMSN	610.00	0.00	--	--	2440	227	8.1	14.5	91	22
14 S	400605077183501	71-11-09	377TMSN	610.00	0.00	--	--	2400	221	8.2	14.5	95	24
16 S	401003077155301	71-11-12	367SNNG	530.00	0.00	--	--	1340	480	7.8	11.0	250	82
17 S	400941077185901	71-11-12	367SNNG	530.00	0.00	--	--	--	445	7.9	11.0	210	60
		74-09-13		530.00	0.00	--	--	--	445	7.3	12.0	220	65
18	401843076560601	55-04-15	361MRBG	450.00	105.00	300	200	90	205	7.8	12.0	93	27
18 S	401009077184001	71-11-11	367SNNG	520.00	0.00	--	--	--	451	8.1	10.5	230	68
19 S	401241077100501	56-05-08	364STPL	435.00	0.00	--	--	--	598	7.3	--	240	78
		58-02-21		435.00	0.00	--	--	1740	594	7.8	--	270	88
		60-09-16		435.00	--	--	--	--	632	7.1	--	300	93
		61-09-20		435.00	--	--	--	--	699	7.3	--	290	94
		62-07-20		435.00	--	--	--	--	683	7.3	--	290	96
		63-02-05		435.00	--	--	--	--	704	7.3	--	290	93
		65-05-03		435.00	--	--	--	--	604	7.4	--	290	96
		68-07-23		435.00	--	--	--	--	635	7.2	--	300	100
		70-07-08		435.00	--	--	--	--	651	7.3	--	290	96
		71-11-08		435.00	--	--	--	--	626	8.0	12.5	220	70
		74-10-01		435.00	0.00	--	--	--	630	7.0	13.0	270	90
21 S	401240077095501	71-11-08	364STPL	435.00	0.00	--	--	--	616	7.7	11.5	190	55
22 S	400744077242901	25-10-31	371SDGV	530.00	0.00	--	--	--	--	--	10.0	160	50
		44-08-04		530.00	--	--	--	--	306	7.6	10.0	160	50
		71-11-11		530.00	--	--	--	--	343	7.8	11.0	170	54
		74-08-20		530.00	--	--	--	--	340	7.3	11.5	170	54
23 S	400841077274501	71-11-11	364CBBG	510.00	0.00	--	--	1800	589	7.8	12.0	230	65
		74-10-24		510.00	0.00	--	--	1790	570	7.1	12.0	300	92
24 S	400231077305601	71-11-10	371CCCG	665.00	0.00	--	--	--	267	8.0	11.0	120	35
25 S	401018077233801	25-10-31	364STPL	485.00	0.00	--	--	--	--	--	11.1	230	77
		74-10-24		485.00	--	--	--	--	498	7.1	12.0	270	82
26 S	400603077184001	71-11-09	377TMSN	610.00	0.00	--	--	810	231	8.0	11.5	99	25
29 S	401248077063801	71-11-11	367PBGS	450.00	0.00	--	--	26	603	7.7	11.5	290	95
30 S	400943077005001	71-11-11	371ELBK	450.00	0.00	--	--	1460	457	7.9	11.0	220	60
31 S	400933077060301	74-10-18	371ELBK	475.00	0.00	--	--	2150	480	7.3	11.2	230	69
32	400352077261701	25-10-31	377TMSN	--	100.00	120	--	5.0	--	--	10.0	210	67
32 S	401815077005801	67-05-29	354RSHL	1040.00	0.00	--	--	2.0	48	6.3	--	17	4.2
35	401145077240001	25-10-31	361MRBGL	520.00	15.00	76	--	--	--	--	11.0	155	39
63	401037077075901	74-07-15	371ZLGR	555.00	68.00	219	17	--	--	--	--	--	--
82	400832077071301	57-07-08	371ELBK	528.00	10.00	55	--	--	219	7.8	--	110	30
155	401507077265701	66-03-22	361MRBGU	660.00	19.00	166	--	10	333	7.5	12.7	150	40
190	401311076585201	69-10-06	367RCKR	422.00	22.00	34	18	24	642	7.5	--	287	92
191	401345076583101	51-03-05	367RCKR	425.00	29.80	179	--	26	623	7.9	12.8	--	--
		70-05-11		425.00	--	179	--	--	721	7.9	13.3	306	96
193	401313076583301	69-11-05	367RCKR	422.00	22.80	37	23	13	497	7.6	--	274	90
212	401320076581001	69-10-31	367RCKR	413.00	14.00	42	14	8.0	704	7.4	--	340	110
213	401310076585901	69-11-04	367RCKR	425.00	22.70	48	31	11	424	7.7	--	294	98
		70-04-06		425.00	--	48	--	--	577	7.5	--	303	100
215	401322076583001	69-11-04	367RCKR	414.00	19.00	51	42	12	471	7.6	--	316	100

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											BERKS				
9.2	6.8	7.6	.8	144	26	1.9	.1	21	.30	--	--	620	90	178	176
5.8	5.2	6.0	.8	124	11	6.1	.1	14	8.4	--	--	40	140	150	151
12	7.4	8.5	1.1	166	44	6.0	.0	24	8.9	--	--	170	50	241	241
15	2.2	5.4	3.2	170	.4	1.7	.2	19	.40	--	.10	600	10	166	156
											CUMBERLAND				
20	--	30	--	348	48	64	--	--	24	--	.40	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	15	<6	--	--
.5	2.5	4.8	2.3	6	4.2	1.6	.0	9.2	3.2	--	.00	2700	50	34	28
19	--	34	--	335	45	51	--	--	11	--	.09	--	--	--	--
18	--	34	--	331	45	44	--	--	12	--	.12	--	--	--	--
18	19	22	2.8	216	40	35	.2	7.7	17	--	.12	60	10	--	358
--	--	--	--	--	--	--	--	--	--	--	--	14	<6	--	--
13	--	12	--	259	32	26	--	--	28	--	.74	--	--	--	--
15	--	8.7	--	224	18	12	--	--	32	--	.03	--	--	--	--
8.6	--	4.6	--	128	7.0	2.7	--	--	8.0	--	.09	--	--	--	--
9.3	--	.6	--	124	70	1.2	.2	8.9	7.1	--	--	10	--	125	--
10	1.7	3.8	2.1	128	7.5	1.9	--	9.6	5.8	--	--	10	--	--	131
8.7	--	4.1	--	126	6.0	2.7	--	--	8.0	--	.09	--	--	--	--
7.0	--	4.8	--	112	4.4	2.1	--	--	9.7	--	.18	--	--	--	--
8.7	--	4.1	--	124	2.1	.2	--	--	1.3	--	.15	--	--	--	--
7.6	--	3.2	--	112	3.6	2.0	--	--	9.3	--	.15	--	--	--	--
8.7	--	7.8	--	126	2.5	.5	--	--	1.8	--	.15	--	--	--	--
8.5	--	6.4	--	126	2.2	.9	--	--	1.8	--	.18	--	--	--	--
12	--	.9	--	262	18	6.6	--	--	17	--	.00	--	--	--	--
14	--	13	--	228	21	7.5	--	--	21	--	.00	--	--	--	--
15	2.7	4.3	1.6	232	19	8.0	.3	8.1	19	--	.03	10	0	238	253
6.1	5.8	6.5	.7	114	13	.8	.0	15	.50	--	.00	340	20	130	126
15	--	3.4	--	232	21	7.3	--	--	20	--	.03	--	--	--	--
12	--	34	--	302	34	14	.0	9.0	20	--	--	30	0	396	--
12	--	27	--	316	32	13	.1	11	19	--	--	150	70	307	--
17	25	28	3.0	326	33	24	2.0	8.6	12	--	--	40	30	388	378
14	38	41	3.2	322	34	44	.0	6.4	14	--	--	40	0	405	406
12	33	36	3.2	310	34	36	.2	9.2	17	--	--	70	0	407	393
13	28	31	3.0	314	36	26	.0	8.8	20	--	--	60	10	436	382
12	18	20	2.4	308	34	18	.1	8.5	20	--	--	30	10	355	361
13	21	24	3.1	311	36	22	.4	8.9	15	--	--	20	0	378	373
12	22	25	3.3	311	40	30	.0	8.0	14	--	.00	10	10	385	379
12	--	6.0	--	302	37	37	--	--	20	--	.00	--	--	--	--
12	25	27	2.4	303	35	21	.3	7.8	9.7	--	--	40	20	381	353
12	--	63	--	295	28	23	--	--	24	--	.03	--	--	--	--
8.3	.7	1.4	.7	168	7.5	1.4	--	14	11	--	--	120	--	175	177
7.9	--	.4	--	167	9.5	1.4	.2	6.5	11	--	--	20	--	172	--
7.6	--	5.5	--	179	12	5.4	--	--	15	--	.03	--	--	--	--
9.2	2.4	3.6	1.2	183	12	6.5	.2	7.5	14	--	.03	20	0	206	197
16	--	40	--	290	41	8.2	--	--	28	--	.03	--	--	--	--
17	2.3	3.9	1.6	285	45	7.2	.3	6.6	25	--	.00	0	0	352	338
8.5	--	4.8	--	132	6.7	4.5	--	--	14	--	.00	--	--	--	--
10	3.5	4.4	.9	254	11	1.8	--	17	15	--	--	50	--	258	261
15	2.0	3.8	1.8	272	16	6.9	.2	7.3	21	--	.00	10	20	289	286
8.8	--	4.6	--	128	2.0	1.0	--	--	.40	--	.12	--	--	--	--
13	--	13	--	300	34	12	--	--	24	--	.06	--	--	--	--
18	--	10	--	221	22	12	--	--	31	--	.03	--	--	--	--
15	3.4	6.6	3.2	229	19	8.9	.3	8.7	37	--	.03	20	10	281	277
9.1	1.6	2.8	1.2	204	7.7	4.9	--	13	29	--	--	780	--	240	235
1.5	2.0	3.2	1.2	0	13	2.4	.0	5.8	.60	--	--	20	0	33	37
14	9.8	12	1.8	135	55	3.2	--	22	.70	--	--	570	--	214	213
--	--	--	--	--	--	--	--	--	--	--	--	470	<6	--	--
7.4	2.2	4.2	2.0	124	6.4	3.0	.2	9.6	.80	--	.21	470	0	137	123
12	8.2	9.8	1.6	168	26	1.8	.2	23	1.0	--	--	110	180	196	197
14	10	12	2.0	380	4.2	16	.2	8.6	.00	--	--	8000	2500	374	334
--	--	55	--	278	80	15	--	--	9.3	--	--	170	--	--	--
16	23	27	4.3	265	53	60	.1	8.7	14	--	--	140	10	503	406
12	7.3	9.0	1.7	279	4.5	12	.1	9.3	.00	--	.00	38000	4700	261	317
16	10	12	2.2	430	5.5	20	.1	9.8	1.6	--	--	17000	2700	368	407
12	12	15	3.1	164	23	26	.1	8.9	7.5	--	.01	1300	950	245	274
13	13	16	3.4	319	26	29	.1	8.9	6.5	--	.00	--	--	402	356
16	13	17	3.6	236	2.7	29	.1	9.6	1.3	--	.00	8600	3800	243	304

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			CUMBERLAND										
CU 224	401328076580201	69-10-22	367RCKR	411.00	14.00	42	8.0	10	701	7.3	--	328	100
247	401607076584201	70-04-22	364HMBG	445.00	4.10	80	30	7.3	380	7.7	11.6	180	60
259	401638076574401	70-05-04	361MRBG	470.00	32.00	199	40	14	185	7.5	12.2	76	17
260	401437077010401	70-05-06	367PBGS	432.00	29.00	285	41	10	565	7.4	11.6	360	111
262	401433076540201	70-06-01	364CBBG	410.00	--	180	60	--	875	7.3	--	418	128
264	401423076551801	70-06-30	364STPL	430.00	--	500	--	105	704	7.7	--	344	124
274	401428076543701	70-06-08	361MRBGL	440.00	9.00	196	20	27	458	7.3	--	214	73
278 1/	401259077003601	75-02-18	367RCKR	429.00	35.00	116	106	500	522	7.0	--	250	89
294	401310077002101	70-07-01	367RCKR	422.00	13.00	64	4.0	23	616	7.4	--	292	97
295	401558077002701	70-07-22	361MRBGL	485.00	21.00	100	21	6.0	189	7.1	--	91	28
301	401002077045101	70-08-26	371ELBK	535.00	55.00	--	--	48	430	7.9	--	280	84
304	401419076541501	70-06-09	364STPL	400.00	30.00	--	--	22	--	--	--	--	--
306	401211077041401	70-07-22	367RCKR	440.00	17.00	120	--	10	520	7.8	--	251	66
307	401435077035401	70-09-25	361MRBGL	539.00	--	320	--	--	188	7.8	--	105	24
308	401311077030801	70-07-23	367RCKR	440.00	29.00	82	67	15	223	8.4	--	109	32
310	401327077015901	70-07-21	367RCKR	405.00	10.00	46	--	4.0	--	--	--	--	--
327	401359076555701	71-12-07	367RCKR	400.00	--	275	--	25	978	7.8	--	240	120
333	400527077290601	74-09-13	367RCKR	630.00	34.00	520	39	17	725	7.0	13.0	340	110
354	401047077113101	74-10-07	371SDGV	500.00	52.00	460	88	20	430	7.4	15.0	230	75
391	401437077180001	74-07-18	361MRBGM	460.00	29.00	85	--	10	--	--	--	--	--
		74-07-18		460.00	--	85	--	--	295	7.6	12.5	120	30
392	400738077094301	74-10-08	377TMSN	--	67.00	164	101	25	180	8.0	15.0	84	22
396 1/	400737077114301	73-12-06	377TMSN	583.00	97.00	192	152	450	--	7.1	--	82	--
397	401152077173101	74-08-03	364STPL	515.00	56.00	184	--	10	980	7.2	12.0	420	150
		74-08-13		515.00	--	184	--	--	--	--	--	--	--
411	401057077201601	74-09-12	367PBGS	510.00	44.00	290	113	14	650	7.0	13.0	320	90
424	401337077090501	74-10-03	364CBBG	442.00	22.00	177	75	12	--	--	--	--	--
		74-10-03		442.00	--	177	--	--	1110	7.2	13.0	460	120
428	401019077093801	74-10-07	371ZLGR	538.00	70.00	191	97	20	--	--	--	--	--
		74-10-07		538.00	--	191	--	--	425	7.0	15.0	270	100
434	400958077104301	74-07-15	371ZLGR	518.00	29.00	60	40	21	--	--	--	--	--
445	401003077155201	74-07-16	367SNNG	538.00	37.00	153	15	5.9	490	7.3	12.5	280	90
455	400938077153901	74-10-11	371ZLGR	515.00	33.00	270	--	--	--	--	--	--	--
456 1/	400749077095301	71-08-12	377TMSN	540.00	52.00	205	144	800	--	7.8	--	110	--
460	401242077112001	74-10-02	364STPL	462.00	31.00	600	29	260	--	--	--	--	--
		74-10-02		462.00	--	600	--	--	660	6.9	14.0	340	110
463	400819077180901	74-09-23	371ZLGR	615.00	89.00	225	93	9.6	695	7.0	12.5	370	97
477	400858077220601	74-09-05	367RCKR	564.00	60.00	186	130	3.2	525	7.0	12.5	340	120
479	400752077201301	74-09-06	371ELBK	635.00	87.00	295	41	480	--	--	--	--	--
		74-09-06		635.00	--	295	--	--	480	7.3	12.0	270	66
484	400939077232201	74-09-25	367RCKR	580.00	80.00	231	--	13	775	6.7	12.0	400	140
485	400642077195001	74-10-18	377WSBR	695.00	--	52	38	--	480	7.3	12.5	220	63
503	400729077172401	74-09-06	371ELBK	660.00	70.00	--	--	--	460	7.3	13.0	230	54
506	400707077255101	71-09-21	367SNNG	640.00	97.00	265	130	6.1	E900	--	--	--	--
509	400628077172901	71-09-30	111CLVM	592.00	7.00	40	40	9.5	125	6.6	--	59	11
512	400715077234801	74-08-12	371ZLGR	630.00	76.00	292	95	12	335	7.3	13.0	180	57
520	400555077265801	74-09-20	371SDGV	648.00	54.00	160	62	8.0	395	7.3	15.0	190	68
526	400451077252901	74-09-19	371ELBK	780.00	79.00	310	210	11	445	7.4	13.5	190	47
529	400640077222601	74-07-19	371ELBK	695.00	66.00	110	--	--	--	--	--	--	--
536	400557077244301	74-09-24	371ELBK	745.00	106.00	223	--	--	315	7.5	14.0	160	41
540	400414077242201	74-09-19	377WSBR	785.00	51.00	107	84	--	--	--	--	--	--
547	401105077142601	74-10-04	367RCKR	508.00	49.00	520	200	300	700	6.9	12.0	340	110
555	400938077110301	74-10-08	371ZLGR	605.00	133.00	217	71	--	--	--	--	--	--
		74-10-08		605.00	--	217	--	--	590	7.1	13.0	320	92
575	401454077061801	74-07-16	361MRBGL	464.00	15.00	120	--	--	458	7.3	15.0	210	51
595	400524077323401	74-09-27	364STPL	615.00	61.00	155	54	6.6	540	6.9	13.0	240	84
605	400200077300101	74-09-26	371ELBK	765.00	27.00	110	80	11	220	7.7	14.0	110	29
607	400417077320401	74-09-27	364STPL	630.00	43.00	295	68	--	540	7.1	14.0	270	83
615	400317077312701	74-10-25	367RCKR	645.00	8.00	300	140	155	645	7.0	14.0	300	100
628	400317077283201	74-10-23	371ZLGR	750.00	82.00	150	80	7.2	--	--	--	--	--
		74-10-23		750.00	--	150	--	--	270	7.6	11.5	130	46
639	401256077052701	71-11-12	364STPL	440.00	--	175	20	--	1570	7.1	--	--	--
651	401358077001301	71-12-07	364STPL	414.00	27.00	45	--	--	611	7.8	--	288	94
665	401316077062601	74-07-16	364STPL	482.00	38.00	300	--	--	--	--	--	--	--
		74-07-16		482.00	--	300	--	--	1050	6.9	15.5	470	150
676	401023077033801	74-10-11	371ELBK	532.00	57.00	200	80	21	--	--	--	--	--
		74-10-11		532.00	--	200	--	--	690	7.0	12.2	350	94
690	401304077233801	74-07-19	361MRBGM	645.00	34.00	80	40	11	--	--	--	--	--
		74-07-19		645.00	--	80	--	--	280	7.3	18.5	120	30
706	401404077283101	74-07-19	361MRBGU	750.00	15.00	86	30	24	165	6.6	17.5	68	15
711	401042077292701	74-07-19	361MRBGU	640.00	34.00	--	--	35	285	7.1	14.5	120	26
717	401422077213901	74-09-11	361MRBGU	732.00	32.00	125	46	75	375	7.1	14.0	140	33

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CUMBERLAND				
21	4.6	9.3	4.7	325	5.1	10	.1	9.8	.20	--	.00	1800	4700	466	323
7.4	4.0	4.4	.4	164	55	4.0	.1	11	.10	--	--	230	50	255	223
8.0	5.9	6.9	1.0	104	8.2	.8	.3	22	.00	--	--	700	230	130	114
20	2.5	3.3	.8	283	27	7.4	.1	7.8	35	--	--	170	0	361	351
24	21	23	1.7	377	63	50	.2	19	5.1	--	--	540	30	571	498
8.4	14	17	2.6	284	86	30	.3	13	23	--	.00	180	20	398	441
7.8	7.0	7.9	.9	210	38	13	.1	16	8.8	--	--	--	--	280	268
7.5	1.5	4.6	3.1	232	24	51	.2	15	20	--	.09	150	28	392	326
12	15	20	5.0	292	38	27	.0	8.1	18	--	.09	310	10	372	364
5.2	4.0	4.7	.7	103	8.6	1.5	.1	26	.20	--	.67	--	--	131	126
17	4.2	8.0	3.8	283	28	12	.2	11	34	--	.00	--	--	343	334
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	5.2	13	8.1	235	38	14	.2	7.5	26	--	--	2600	170	299	277
11	6.4	7.1	.7	85	46	1.6	.2	27	.00	--	.00	4000	450	188	163
7.1	2.5	3.5	1.0	86	15	6.6	.3	6.9	25	--	.03	440	10	125	139
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	94	96	2.4	235	45	175	.2	6.1	5.0	--	.26	10	20	542	528
16	4.6	8.0	3.4	280	25	17	.3	8.4	84	--	.00	100	150	411	407
11	1.1	2.3	1.2	259	10	2.5	.2	7.3	13	--	.06	10	10	261	249
--	--	--	--	--	--	--	--	--	--	--	--	20	120	--	--
12	11	12	1.2	145	12	3.2	.3	19	4.4	--	.09	30	90	181	165
7.0	.7	2.1	1.4	106	5.1	1.2	.2	8.6	3.8	--	.06	340	20	104	103
--	--	4.6	--	90	9.0	2.0	.1	--	6.2	--	.00	90	10	96	--
12	40	45	5.2	328	33	97	.2	7.9	58	--	.03	460	20	636	565
--	--	--	--	--	--	--	--	--	--	--	--	4000	34	--	--
22	4.9	8.9	4.0	309	22	14	.3	7.7	33	--	.03	130	0	389	350
--	--	--	--	--	--	--	--	--	--	--	--	400	6	--	--
38	63	64	1.0	293	60	200	.6	12	.04	--	.00	340	10	658	639
--	--	--	--	--	--	--	--	--	--	--	--	40	<2	--	--
5.6	1.7	3.5	1.8	299	15	5.0	.2	8.1	19	--	.00	50	10	266	304
--	--	--	--	--	--	--	--	--	--	--	--	15	<4	--	--
13	2.9	4.5	1.6	226	19	8.1	.3	8.5	17	--	.03	30	0	284	272
--	--	--	--	--	--	--	--	--	--	--	--	4	<2	--	--
--	--	--	--	93	--	4.5	--	--	13	--	--	200	--	144	--
--	--	--	--	--	--	--	--	--	--	--	--	480	80	--	--
17	15	17	1.9	337	50	20	.2	7.6	22	--	.12	290	50	426	410
30	9.0	13	4.2	343	34	18	.2	8.1	49	--	.00	50	0	493	418
9.4	1.5	2.5	1.0	288	11	8.3	.2	7.2	27	--	.00	150	0	301	327
--	--	--	--	--	--	--	--	--	--	--	--	30	1	--	--
26	3.0	4.3	1.3	235	45	14	.1	8.6	23	--	.03	460	0	359	303
12	4.7	14	9.0	361	29	12	.2	9.6	66	--	.06	40	10	395	461
15	8.5	10	1.7	232	15	26	.2	10	14	--	.03	40	30	285	268
24	1.5	2.7	1.2	244	24	4.3	.3	9.5	13	--	.00	280	0	277	252
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7.7	1.5	3.0	1.5	62	1.8	5.1	.2	11	.00	--	.27	16000	240	84	87
8.5	2.0	3.5	1.5	175	14	6.0	.2	7.3	13	--	.03	40	120	206	196
5.9	1.0	1.8	.8	194	14	4.3	.2	7.6	19	--	.00	10	0	236	217
18	3.9	5.6	1.7	198	16	13	.2	8.0	23	--	.00	80	0	266	243
--	--	--	--	--	--	--	--	--	--	--	--	66	<5	--	--
14	2.0	5.8	3.8	152	12	6.2	.2	7.9	20	--	.00	50	0	195	182
--	--	--	--	--	--	--	--	--	--	--	--	1100	8	--	--
16	15	16	1.1	368	25	42	.2	8.8	8.0	--	.00	40	0	352	408
--	--	--	--	--	--	--	--	--	--	--	--	25	<2	--	--
23	3.0	4.2	1.2	283	37	7.4	.2	7.5	41	--	.00	50	0	327	352
19	12	14	1.6	145	68	22	.2	14	9.3	--	.03	180	120	309	269
8.5	6.0	8.2	2.2	263	31	14	.1	8.1	11	--	.06	40	10	310	294
8.8	.8	1.8	1.0	116	4.8	1.8	.2	9.0	8.4	--	.06	50	0	128	121
15	1.6	2.4	.8	295	16	5.7	.2	7.2	20	--	.00	60	0	338	295
12	14	18	3.6	297	53	25	.2	8.4	17	--	.06	80	60	392	380
--	--	--	--	--	--	--	--	--	--	--	--	32	0	--	--
3.6	2.5	3.9	1.4	127	12	6.2	.1	5.1	13	--	.00	10	10	146	153
--	--	--	--	976	--	64	--	--	1.2	--	1.5	--	--	--	--
13	18	20	2.3	282	34	36	.2	6.1	28	--	.02	690	10	344	370
--	--	--	--	--	--	--	--	--	--	--	--	8300	2200	--	--
22	27	38	11	473	37	65	.1	9.4	.00	--	.03	7800	--	558	563
--	--	--	--	--	--	--	--	--	--	--	--	960	20	--	--
27	11	14	3.0	325	42	22	.3	8.2	36	--	.03	410	30	402	405
--	--	--	--	--	--	--	--	--	--	--	--	120	220	--	--
11	5.3	6.5	1.2	104	26	10	.3	15	4.8	--	.03	290	180	183	155
7.3	4.8	5.7	.9	79	12	.6	.3	25	.00	--	.12	3200	370	107	109
14	8.0	9.4	1.4	126	29	1.8	.4	25	.20	--	.28	220	320	183	169
14	11	13	1.6	138	28	19	.4	22	.04	--	.06	470	410	219	198

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				CUMBERLAND										
CU 757		400816077331101	74-09-11	361MRBGU	590.00	10.00	70	20	--	300	7.5	15.0	140	37
776		401619077094701	74-07-16	361MRBGL	485.00	--	97	20	25	405	7.5	14.0	160	36
778		401543077070201	74-09-11	364HMBG	424.00	37.00	341	--	--	--	--	--	--	--
			74-09-11		424.00	--	341	--	--	340	7.5	13.0	150	39
793		400534077184401	74-09-04	377TMSN	690.00	52.00	190	163	8.0	220	7.7	12.0	110	30
807	1/	400857077085001	74-02-27	371ELBK	510.00	36.00	298	88	1400	300	7.4	--	110	39
			74-09-10		510.00	--	298	--	--	300	7.5	12.0	150	42
808		400956077174601	74-07-17	371SDGV	595.00	--	250	40	--	395	7.4	11.5	230	78
810	1/	400926077000001	73-06-13	361MRBG	415.00	0.00	255	93	10	410	7.3	--	220	50
814	1/	401423077110801	71-04-26	361MRBGL	415.00	24.00	240	44	125	--	8.1	--	140	--
815	1/	401417077110001	71-04-26	361MRBGL	430.00	--	250	50	200	--	7.8	--	200	--
			71-04-26		430.00	18.00	250	--	--	--	--	--	--	--
816	1/	401419077103801	73-08-02	361MRBGL	405.00	8.00	250	--	130	--	7.8	--	160	--
				DAUPHIN										
DA 45		402002076540701	31-08-31	354CLNN	350.00	14.00	140	--	5.0	--	--	--	122	24
79		401226076445601	59-06-25	231GBRG	385.00	97.00	350	--	66	289	7.5	14.4	130	46
			60-06-21		385.00	--	350	--	--	280	8.2	14.4	130	45
			61-07-19		385.00	--	350	--	--	277	7.0	13.3	130	46
			62-07-17		385.00	--	350	--	--	324	6.9	13.3	150	46
			63-08-22		385.00	--	350	--	--	286	7.0	13.9	130	46
			64-08-11		385.00	--	350	--	--	306	6.9	13.3	130	48
			65-08-03		385.00	--	350	--	--	314	7.1	12.8	140	48
			66-08-12		385.00	--	350	--	--	333	7.5	14.4	160	52
			67-07-13		385.00	--	350	--	--	317	6.9	12.8	150	54
80		401145076444101	53-01-16	231GBRG	320.00	38.00	629	104	250	686	7.7	13.9	340	104
			53-06-05		320.00	--	629	--	--	669	7.8	--	330	103
			54-09-21		320.00	--	629	--	--	769	7.8	--	350	105
			55-05-19		320.00	--	629	--	--	645	7.8	13.3	290	83
			56-05-07		320.00	--	629	--	--	675	7.9	13.9	340	85
			57-06-11		320.00	--	629	--	--	578	7.0	13.9	280	85
			58-07-23		320.00	--	629	--	--	577	7.2	15.6	280	82
			60-06-13		320.00	--	629	--	--	560	7.9	14.4	270	88
			61-07-20		320.00	--	629	--	--	515	7.1	14.4	250	78
			62-07-18		320.00	--	629	--	--	644	7.0	13.9	330	92
			63-08-27		320.00	--	629	--	--	640	7.0	14.4	320	98
			64-08-12		320.00	--	629	--	--	807	6.9	14.4	400	128
			65-07-26		320.00	--	629	--	--	850	6.8	14.4	430	124
81		401146076444501	53-01-16	231GBRG	320.00	34.00	450	104	290	532	7.9	11.7	260	76
			53-06-05		320.00	--	450	--	--	526	7.9	--	250	75
			54-09-21		320.00	--	450	--	--	618	8.0	--	290	81
			55-05-19		320.00	--	450	--	--	613	8.4	13.3	290	83
			56-05-07		320.00	--	450	--	--	529	8.2	13.3	270	75
			57-06-11		320.00	--	450	--	--	495	7.3	13.9	240	71
			58-07-22		320.00	--	450	--	--	520	7.6	15.6	260	76
			59-06-23		320.00	--	450	--	--	462	7.3	14.4	220	65
			60-06-15		320.00	--	450	--	--	482	7.6	14.4	230	69
			62-07-18		320.00	--	450	--	--	593	7.4	13.3	300	90
			63-08-23		320.00	--	450	--	--	593	8.5	13.9	290	86
			64-08-13		320.00	--	450	--	--	616	7.0	13.9	300	88
			65-07-26		320.00	--	450	--	--	638	7.1	13.9	310	91
			66-08-10		320.00	--	450	--	--	666	7.2	15.0	350	102
			67-07-13		320.00	--	450	--	--	585	7.3	13.9	290	86
82		401144076443601	53-01-16	231GBRG	320.00	26.00	450	100	190	604	7.3	12.2	300	98
			53-06-05		320.00	--	450	--	--	539	7.6	--	260	86
			54-09-21		320.00	--	450	--	--	587	8.2	--	270	91
			55-05-19		320.00	--	450	--	--	536	8.4	13.3	260	87
			56-05-07		320.00	--	450	--	--	586	7.7	13.3	290	92
			57-06-11		320.00	--	450	--	--	429	7.2	13.9	200	69
			58-07-22		320.00	--	450	--	--	495	7.3	15.6	230	80
			59-06-23		320.00	--	450	--	--	463	7.9	14.4	210	75
			60-06-14		320.00	--	450	--	--	420	7.4	13.9	200	68
			61-07-21		320.00	--	450	--	--	508	7.3	14.4	250	84
			62-07-19		320.00	--	450	--	--	502	7.1	13.9	230	62
			63-08-23		320.00	--	450	--	--	552	7.1	14.4	640	90
			64-08-11		320.00	--	450	--	--	564	7.1	13.9	270	88
			65-07-26		320.00	--	450	--	--	679	7.1	13.9	330	104
			66-08-10		320.00	--	450	--	--	466	7.3	13.9	230	78
			67-07-12		320.00	--	450	--	--	577	7.3	14.4	290	94
83		401148076444701	53-01-16	231GBRG	320.00	44.00	459	100	140	670	7.6	11.7	340	95
			53-06-05		320.00	--	459	--	--	654	7.9	--	320	90

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											CUMBERLAND				
11	7.5	9.1	1.6	141	34	4.0	.2	15	2.7	--	.03	10	180	194	183
18	19	21	1.8	181	34	7.4	.3	15	.00	--	.06	100	120	237	221
--	--	--	--	--	--	--	--	--	--	--	--	5	18	--	--
12	6.5	7.4	.9	163	24	3.3	.2	12	1.2	--	.00	10	0	180	179
8.8	1.0	1.8	.8	134	.7	1.4	.2	6.2	5.8	--	.03	570	10	121	122
2.0	1.2	2.8	1.6	119	3.0	3.0	.1	9.5	23	--	.46	20	55	155	142
12	1.4	3.0	1.6	159	11	3.5	.2	8.7	18	--	.03	230	0	186	177
9.4	1.4	2.4	1.0	222	13	3.7	.3	7.6	23	--	.03	20	0	272	247
24	5.0	7.1	2.1	152	53	14	.1	11	12	--	.25	300	20	246	247
--	--	31	--	192	33	11	.5	--	3.8	--	.03	400	120	312	--
--	--	14	--	171	68	13	.3	--	1.2	--	.06	850	220	308	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	25	--	182	39	15	.6	--	3.8	--	.00	180	80	306	--
											DAUPHIN				
--	--	29	--	26	140	10	--	--	3.8	--	--	4700	--	--	--
4.4	--	7.4	--	130	26	2.6	.1	22	14	--	--	50	20	182	--
3.2	6.0	7.6	1.6	118	22	4.2	.1	21	22	--	--	50	0	183	183
3.4	6.8	8.0	1.2	115	21	5.8	.1	20	19	--	--	50	50	201	180
8.0	6.1	7.3	1.2	127	41	4.1	.0	24	4.9	--	--	60	30	207	198
2.9	5.3	6.3	1.0	118	21	5.6	.0	19	20	--	--	40	0	182	179
2.4	5.9	6.7	.8	117	23	7.2	.0	17	23	--	--	240	0	196	185
4.9	7.0	7.2	.2	118	26	8.2	.0	19	24	--	--	0	0	208	195
6.5	6.4	7.6	1.2	130	32	9.6	.1	22	25	--	--	100	0	197	219
3.8	6.5	7.5	1.0	122	28	12	.0	17	17	--	--	60	0	225	199
20	13	14	1.4	166	176	11	.0	25	14	--	--	140	--	476	446
18	14	16	1.5	188	165	16	.0	--	16	--	--	10	--	510	--
22	--	6.5	--	152	198	14	.0	25	20	--	--	--	--	537	--
19	--	26	--	181	155	14	.0	23	16	--	--	--	--	448	--
32	--	6.4	--	188	162	14	.0	26	19	--	--	90	20	450	--
16	--	14	--	177	125	12	.1	31	19	--	--	70	100	398	--
18	--	15	--	188	120	12	.0	29	18	--	--	80	0	394	--
12	12	14	1.9	197	100	13	.0	31	25	--	--	120	20	427	380
14	12	13	1.0	186	81	13	.0	28	22	--	--	60	50	359	341
24	12	13	1.2	199	149	12	.0	24	6.6	--	--	20	20	454	419
17	12	13	.8	204	140	14	.0	26	15	--	--	120	0	437	423
20	16	17	.5	189	213	17	.0	24	14	--	--	70	0	604	526
28	17	18	.6	195	259	20	.2	25	14	--	--	20	0	653	584
18	7.0	8.3	1.3	165	90	8.0	.0	24	19	--	--	130	--	337	325
16	10	12	1.5	188	89	10	.2	--	19	--	--	80	--	410	--
20	--	4.0	--	160	122	15	.0	24	17	--	--	--	--	419	--
21	--	18	--	180	135	16	.0	25	18	--	--	--	--	418	--
21	--	2.5	--	189	88	11	.0	26	21	--	--	30	20	351	--
15	--	9.9	--	180	80	9.8	.1	30	18	--	--	50	10	344	--
17	--	7.6	--	182	95	9.0	.0	26	19	--	--	30	0	349	--
14	--	10	--	178	67	7.9	.2	28	18	--	--	60	0	338	--
15	9.7	11	1.6	182	74	10	.0	27	22	--	--	70	0	319	318
19	10	11	1.2	199	122	11	.0	27	18	--	--	50	0	436	396
19	10	11	.5	188	108	11	.0	27	17	--	--	20	40	407	434
20	9.6	11	1.0	210	113	10	.0	24	15	--	--	80	0	423	384
21	12	12	.3	217	130	12	.0	25	18	--	--	0	0	482	416
22	12	13	1.2	226	143	17	.0	24	13	--	--	110	0	494	445
17	13	14	1.0	210	103	18	.0	23	15	--	--	70	0	420	380
14	11	12	1.4	162	126	10	.0	25	22	--	--	120	--	406	387
9.7	10	11	1.3	192	83	13	.0	--	22	--	--	40	--	410	--
11	--	6.7	--	159	102	26	.0	25	17	--	--	--	--	396	--
9.9	--	8.9	--	170	86	14	.0	26	23	--	--	--	--	367	--
15	--	7.1	--	195	101	14	.0	28	27	--	--	0	0	395	--
7.5	--	9.0	--	173	43	8.8	.1	30	28	--	--	80	50	290	--
7.9	--	8.5	--	185	63	10	.0	26	24	--	--	80	0	333	--
4.3	--	17	--	190	50	8.8	.2	32	25	--	--	40	0	317	--
6.1	9.7	11	1.2	182	33	9.5	.0	28	30	--	--	60	0	278	275
10	12	13	1.0	192	72	12	.1	30	27	--	--	20	50	359	343
19	9.4	10	1.0	195	58	11	.0	28	6.2	--	--	10	30	324	291
10	11	11	.2	206	80	14	.0	26	20	--	--	60	20	370	444
12	11	12	.5	205	82	12	.0	25	26	--	--	80	0	377	358
16	15	15	.2	193	149	19	.1	25	20	--	--	20	0	479	443
8.8	9.6	11	.9	194	49	11	.0	27	29	--	--	100	0	311	309
13	14	15	.9	200	102	18	.0	23	16	--	--	70	0	415	379
26	11	13	1.6	150	198	7.0	.0	17	12	--	--	120	--	478	442
24	11	13	1.6	172	177	9.0	.0	--	16	--	--	40	--	520	--

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			DAUPHIN										
DA 83	401148076444701	54-09-21	231GBRG	320.00	--	459	--	--	668	8.1	--	280	75
		55-05-19		320.00	--	459	--	--	565	7.8	13.3	270	75
		56-05-07		320.00	--	459	--	--	599	8.3	12.8	310	84
		57-06-11		320.00	--	459	--	--	437	7.2	13.9	200	56
		58-07-23		320.00	--	459	--	--	497	6.6	17.2	240	69
		59-06-23		320.00	--	459	--	--	371	7.6	14.4	170	48
		60-06-14		320.00	--	459	--	--	350	8.4	14.4	160	44
		61-07-21		320.00	--	459	--	--	390	7.3	13.9	190	52
		62-07-19		320.00	--	459	--	--	527	7.5	--	260	77
		63-08-23		320.00	--	459	--	--	584	7.4	14.4	290	80
		64-08-11		320.00	--	459	--	--	577	7.7	13.9	280	83
		65-07-27		320.00	--	459	--	--	636	7.2	13.9	310	85
		66-08-11		320.00	--	459	--	--	539	7.2	13.9	280	80
		67-07-12		320.00	--	459	--	--	661	7.0	13.3	330	94
84	401147076443701	53-01-16	231GBRG	320.00	40.00	776	250	185	1500	7.9	13.3	800	260
		53-06-05		320.00	--	776	--	--	1550	7.9	--	830	270
		54-09-21		320.00	--	776	--	--	1690	8.0	--	800	254
		55-05-19		320.00	--	776	--	--	1110	7.8	13.9	570	183
		55-05-23		320.00	--	776	--	--	435	8.3	13.9	200	60
		56-05-10		320.00	--	776	--	--	1170	8.0	13.3	630	176
		57-06-18		320.00	--	776	--	--	510	7.3	13.3	240	79
		58-07-25		320.00	--	776	--	--	901	7.6	15.0	460	154
		59-06-22		320.00	--	776	--	--	637	7.5	14.4	310	104
		60-06-13		320.00	--	776	--	--	764	7.7	15.0	390	133
		61-07-19		320.00	--	776	--	--	475	7.3	13.9	220	71
		62-07-18		320.00	--	776	--	--	1470	7.3	14.4	790	204
		63-08-23		320.00	--	776	--	--	1460	7.3	15.0	790	262
		64-08-13		320.00	--	776	--	--	1530	7.5	15.0	840	268
		65-07-29		320.00	--	776	--	--	1650	7.5	--	890	292
		66-08-17		320.00	--	776	--	--	976	7.6	14.4	520	175
		67-07-12		320.00	--	776	--	--	936	7.4	14.4	480	162
85	401151076460401	53-01-16	231GBRG	305.00	42.00	500	40	340	577	7.7	--	280	71
		53-06-05		305.00	--	500	--	--	560	7.9	--	260	68
		54-01-12		305.00	--	500	--	--	418	7.9	12.8	200	60
		54-09-21		305.00	--	500	--	--	449	8.1	--	190	56
		55-05-23		305.00	--	500	--	--	435	8.3	13.9	200	60
		56-05-09		305.00	--	500	--	--	430	7.9	13.3	210	61
		57-06-12		305.00	--	500	--	--	475	7.7	13.9	190	71
		58-07-25		305.00	--	500	--	--	720	7.2	16.1	370	118
		59-06-23		305.00	--	500	--	--	1180	7.1	13.9	640	212
		60-06-16		305.00	--	500	--	--	1040	8.2	14.4	550	177
		61-07-25		305.00	--	500	--	--	1210	6.8	15.1	580	228
		62-07-19		305.00	--	500	--	--	1620	7.0	11.3	930	320
		63-08-23		305.00	--	500	--	--	1470	7.0	14.4	800	276
		64-08-18		305.00	--	500	--	--	834	6.9	15.0	400	128
		65-07-30		305.00	--	500	--	--	1410	6.9	14.4	770	256
		66-08-12		305.00	--	500	--	--	1150	7.0	13.9	660	220
		67-07-16		305.00	--	500	--	--	660	6.8	13.9	320	102
86	401142076451001	53-01-16	231GBRG	305.00	3.00	450	100	--	580	7.3	13.3	290	87
		53-06-05		305.00	--	--	--	--	586	8.0	--	290	90
		54-09-21		305.00	--	--	--	--	574	8.2	--	260	79
87	401146076452001	53-01-16	231GBRG	305.00	--	452	--	--	434	7.5	--	210	66
		53-06-05		305.00	66.00	452	--	130	431	7.6	--	210	66
		54-09-21		305.00	--	452	--	--	429	7.9	--	190	57
		55-05-23		305.00	--	452	--	--	450	8.0	14.4	220	62
		56-08-11		305.00	--	452	--	--	431	8.1	12.8	210	62
		57-06-20		305.00	--	452	--	--	403	7.8	15.0	190	58
		58-07-24		305.00	--	452	--	--	380	7.8	15.6	180	53
88	401148076454801	53-12-29	231GBRG	305.00	28.00	451	101	200	822	7.1	11.1	440	129
		54-02-26		305.00	--	451	--	--	523	7.9	12.2	270	73
		55-05-23		305.00	--	451	--	--	553	8.2	13.3	280	77
		56-05-09		305.00	--	451	--	--	556	8.0	13.3	280	81
		57-06-12		305.00	--	451	--	--	652	7.1	16.1	340	98
		58-07-22		305.00	--	451	--	--	980	8.0	16.7	510	154
		59-06-23		305.00	--	451	--	--	1160	7.0	14.4	610	188
		60-06-16		305.00	--	451	--	--	1200	8.2	14.4	650	204
		61-07-25		305.00	--	451	--	--	623	7.6	15.6	310	86
		62-07-17		305.00	--	451	--	--	1160	7.2	13.9	620	192
		63-08-27		305.00	--	451	--	--	1140	7.4	13.9	600	186
		64-08-18		305.00	--	451	--	--	691	7.3	13.9	350	96
		65-07-30		305.00	--	451	--	--	1200	8.1	13.3	640	200
		66-08-16		305.00	--	451	--	--	689	7.5	13.9	360	98

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											DAUPHIN				
23	--	24	--	135	188	12	.0	22	14	--	--	40	--	470	--
20	--	11	--	158	134	10	.0	25	14	--	--	--	--	400	--
25	--	5.1	--	166	156	6.7	.0	23	15	--	--	20	20	413	--
15	--	10	--	144	80	5.8	.1	28	16	--	--	100	10	296	--
17	--	4.8	--	154	103	6.2	.1	24	13	--	--	70	20	372	--
13	--	3.2	--	135	47	4.8	.1	27	17	--	--	40	10	259	--
13	5.8	6.9	1.1	136	40	5.4	.1	26	14	--	--	120	0	230	224
14	9.0	10	1.0	143	59	6.4	.0	24	19	--	--	50	70	271	255
17	8.4	9.6	1.2	184	101	7.8	.0	24	13	--	--	50	0	362	340
23	10	10	.2	180	138	8.6	.0	23	17	--	--	160	70	399	389
18	9.1	9.3	.2	201	102	10	.1	19	13	--	--	170	0	405	353
24	13	13	.3	188	154	8.4	.0	22	14	--	--	0	0	475	413
19	8.7	9.9	1.2	203	94	12	.0	23	13	--	--	40	0	371	351
24	18	19	1.3	187	176	13	.0	21	12	--	--	70	0	514	451
37	40	43	2.5	118	671	27	.1	27	27	--	--	120	--	1240	1150
37	47	49	1.9	140	708	36	.1	--	31	--	--	50	--	1340	--
41	--	61	--	113	730	38	.1	27	35	--	--	--	--	1460	--
27	--	30	--	118	461	15	.2	27	17	--	--	--	--	857	--
12	--	14	--	148	79	11	.0	17	8.0	--	--	--	--	290	--
45	--	1.4	--	164	434	16	.1	28	22	--	--	30	20	820	--
11	--	14	--	166	104	7.7	.1	31	20	--	--	670	90	347	--
18	--	27	--	166	337	8.8	.3	29	20	--	--	260	30	676	--
11	--	14	--	173	157	9.0	.0	30	22	--	--	60	10	453	--
13	18	20	1.7	170	234	11	.1	28	24	--	--	60	10	563	547
11	13	14	1.0	170	71	11	.1	28	25	--	--	30	50	325	315
68	41	43	1.6	149	632	28	.0	24	14	--	--	20	20	1270	1090
32	39	40	.8	158	640	24	.2	28	34	--	--	0	50	1220	1140
42	44	45	.8	149	686	28	.1	26	35	--	--	210	0	1320	1200
38	50	50	.2	143	810	36	.2	28	39	--	--	20	0	1450	1360
20	26	27	1.2	171	378	12	.1	23	6.2	--	--	80	0	788	726
17	28	29	1.2	179	347	15	.0	22	14	--	--	90	0	758	695
24	15	16	1.3	145	147	7.0	.0	18	14	--	--	--	--	384	369
22	16	18	1.5	172	129	8.5	.0	--	14	--	--	80	--	450	--
13	--	5.7	--	122	72	9.0	.2	14	34	--	--	--	--	270	--
13	--	6.2	--	122	79	11	.0	19	11	--	--	--	--	298	--
12	--	14	--	148	79	11	.0	17	7.5	--	--	--	--	290	--
14	--	4.7	--	148	73	9.0	.1	21	12	--	--	0	20	278	--
4.0	--	25	--	148	101	8.4	.1	18	11	--	--	80	0	314	--
17	--	16	--	115	274	10	.1	15	6.6	--	--	220	0	554	--
27	--	27	--	106	567	12	.2	14	3.8	--	--	50	20	960	--
26	18	27	8.8	130	466	13	.1	17	5.3	--	--	110	0	809	795
25	18	27	9.4	118	573	14	.0	15	5.8	--	--	130	50	1020	924
32	24	50	26	86	890	12	.1	13	.70	--	--	30	10	1440	1360
27	22	44	22	124	702	14	.1	16	5.3	--	--	110	0	1140	1150
20	16	25	8.5	152	267	16	.1	13	10	--	--	80	0	615	554
31	17	31	14	128	688	16	.2	14	3.8	--	--	20	0	1190	1100
27	18	32	14	147	516	17	.2	20	7.5	--	--	270	0	968	912
15	15	21	5.9	158	179	18	.0	13	13	--	--	130	0	476	439
17	10	12	1.5	198	93	9.0	.0	21	15	--	--	--	--	370	351
16	11	13	1.6	236	92	12	.0	--	14	--	--	280	--	407	--
15	--	20	--	239	77	11	.0	22	13	--	--	--	--	380	--
11	7.9	9.3	1.4	169	46	9.0	.0	20	6.2	--	--	--	--	270	251
10	10	12	1.6	196	50	10	.0	--	5.3	--	--	590	--	350	--
12	--	3.2	--	164	42	11	.0	21	6.2	--	--	--	--	301	--
15	--	7.9	--	192	52	12	.2	22	5.8	--	--	--	--	292	--
14	--	8.3	--	164	75	7.3	.1	18	9.3	--	--	2400	320	297	--
11	--	9.7	--	180	45	5.6	.1	23	9.3	--	--	5900	1200	266	--
12	--	7.8	--	172	41	5.5	.1	21	8.0	--	--	1600	90	268	--
29	--	2.6	--	264	207	9.5	.1	16	1.6	--	--	--	--	560	--
20	--	2.0	--	150	109	6.5	.2	20	28	--	--	--	--	356	--
20	--	6.4	--	172	122	11	.0	17	5.8	--	--	--	--	350	--
18	--	12	--	204	115	7.0	.0	17	7.5	--	--	60	30	368	--
22	--	15	--	210	172	7.5	.1	22	7.5	--	--	150	70	462	--
31	--	23	--	218	345	9.5	.1	20	11	--	--	80	30	727	--
34	--	28	--	180	485	9.2	.2	20	4.9	--	--	50	20	905	--
34	19	37	18	190	514	12	.1	19	7.1	--	--	60	0	951	921
23	13	19	6.0	200	153	9.8	.1	23	5.8	--	--	50	40	462	418
33	17	35	18	190	476	12	.0	18	1.0	--	--	20	10	921	861
33	19	39	20	170	460	11	.1	17	8.4	--	--	120	0	890	838
27	14	20	6.4	210	170	11	.0	17	12	--	--	0	0	470	457
33	14	28	14	172	508	14	.1	17	6.2	--	--	0	60	951	891
27	14	21	7.0	194	194	11	.0	21	6.6	--	--	60	0	497	474

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			DAUPHIN										
DA 88	401148076454801	67-07-16	231GBRG	305.00	--	451	--	--	676	7.4	13.9	340	98
89	401143076451701	53-09-21	231GBRG	305.00	31.00	450	102	750	475	7.3	--	190	59
		53-09-23		305.00	--	450	--	--	435	7.9	--	190	59
		56-05-11		305.00	--	450	--	--	317	7.9	12.8	150	45
		57-06-20		305.00	--	450	--	--	370	6.9	13.9	170	54
		58-07-24		305.00	--	450	--	--	378	7.5	15.6	180	53
90	401154076455001	55-04-15	231GBRG	305.00	30.00	603	75	700	322	8.2	15.0	120	31
		57-06-13		305.00	--	603	--	--	477	7.2	13.3	240	71
		58-07-22		305.00	--	603	--	--	595	7.6	14.4	300	86
		59-06-22		305.00	--	603	--	--	787	7.1	13.3	410	116
		60-06-17		305.00	--	603	--	--	784	8.0	15.0	390	118
		61-07-24		305.00	--	603	--	--	922	7.3	13.3	500	147
		62-07-18		305.00	--	603	--	--	934	7.4	--	520	152
		63-08-27		305.00	--	603	--	--	1010	7.1	13.3	540	158
		64-08-17		305.00	--	603	--	--	765	7.1	13.9	400	112
		65-07-28		305.00	--	603	--	--	1150	7.7	--	630	188
		66-08-17		305.00	--	603	--	--	928	7.3	13.3	520	155
		67-07-14		305.00	--	603	--	--	713	7.1	13.9	370	110
91	401155076455901	55-04-15	231GBRG	305.00	25.00	600	76	640	465	7.8	14.4	230	67
		57-06-13		305.00	--	600	--	--	476	6.8	13.3	220	71
		58-07-23		305.00	--	600	--	--	463	7.7	16.7	220	66
		59-06-22		305.00	--	600	--	--	642	6.8	13.3	310	98
		60-07-06		305.00	--	600	--	--	729	7.2	13.9	360	114
		61-07-18		305.00	--	600	--	--	762	7.1	14.4	390	122
		62-07-23		305.00	--	600	--	--	957	7.2	13.9	500	156
		63-08-22		305.00	--	600	--	--	1020	7.1	13.9	530	172
		64-08-18		305.00	--	600	--	--	641	7.0	13.9	300	96
		65-07-28		305.00	--	600	--	--	977	7.1	13.3	500	148
		66-08-16		305.00	--	600	--	--	810	7.3	13.3	430	135
		67-07-18		305.00	--	600	--	--	603	6.9	13.3	300	94
92	401150076451501	55-06-06	231GBRG	305.00	18.00	800	76	--	452	7.8	18.3	170	43
		56-02-08		305.00	--	800	--	--	1110	7.7	13.3	570	200
		57-06-13		305.00	--	800	--	--	295	7.3	14.4	140	40
		58-07-28		305.00	--	800	--	575	338	7.4	15.6	160	44
93	401147076453701	55-06-06	231GBRG	305.00	16.00	800	75	--	395	8.1	17.8	190	51
		57-06-18		305.00	--	800	--	--	604	7.8	13.3	310	101
		58-07-25		305.00	--	800	--	--	1000	8.0	14.4	520	162
		59-06-22		305.00	--	800	--	--	680	7.6	13.9	340	107
		60-06-17		305.00	--	800	--	--	811	8.0	14.4	380	122
		61-07-18		305.00	--	800	--	--	844	7.4	14.4	430	141
		63-08-22		305.00	--	800	--	--	869	7.2	14.4	420	128
		64-08-18		305.00	--	800	--	--	832	7.2	14.4	420	132
		65-07-30		305.00	--	800	--	--	833	7.1	13.9	410	124
		66-08-11		305.00	--	800	--	--	803	7.4	14.4	420	135
		67-07-14		305.00	--	800	--	758	790	7.5	13.9	400	126
101	401255076411301	63-01-11	231DIBS	510.00	12.00	34	19	8.0	361	7.3	10.6	170	38
102	401448076395701	63-01-09	231GBRG	670.00	15.00	80	62	20	66	6.1	4.4	17	4.0
125	401705076422201	62-03-22	364HMBG	470.00	11.00	202	28	2.0	242	7.9	--	120	34
165	401855076480901	62-05-16	364HMBG	460.00	22.00	300	47	50	281	7.6	--	120	35
173	401915076375701	63-01-11	364HMBG	360.00	4.00	120	--	--	212	6.8	--	92	26
187	401912076465901	62-05-15	364HMBG	510.00	25.00	200	28	10	482	7.3	--	230	59
196	401934076475401	62-05-15	364HMBG	520.00	30.00	300	44	75	289	7.1	--	130	39
197	401907076471201	62-05-15	364HMBG	525.00	--	300	--	25	329	7.7	--	150	41
221	401955076503001	62-05-16	364HMBG	480.00	27.00	300	46	46	295	7.4	--	140	35
236	401927076522801	62-05-15	364HMBG	460.00	25.00	150	42	12	325	7.5	--	160	41
237	401942076521501	62-05-15	364HMBG	450.00	--	123	118	25	288	6.9	--	130	39
256	402056076424501	59-03-26	364HMBG	440.00	18.00	105	27	17	310	7.6	14.4	160	40
262	402016076432301	62-05-15	364HMBG	500.00	25.00	192	63	30	276	7.4	--	130	39
263	402003076432601	75-01-23	361MRBGC	520.00	30.00	400	54	75	285	7.9	--	130	30
275	402053076464001	62-05-24	364HMBG	490.00	10.00	18	--	17	198	6.0	--	66	17
278	402036076465701	62-05-15	364HMBG	525.00	20.00	260	42	24	347	7.4	--	160	47
279	402032076465901	62-05-15	364HMBG	530.00	25.00	150	43	60	371	7.4	--	160	42
281	402038076464801	62-08-16	364HMBG	520.00	8.00	233	45	45	303	7.3	--	130	37
282	402059076463901	63-05-06	364HMBG	500.00	35.00	405	24	65	315	7.6	12.8	140	34
		63-05-06		500.00	--	405	--	--	337	7.7	12.8	150	35
		63-05-06		500.00	--	405	--	--	327	7.5	--	150	34
		63-08-15		500.00	--	405	--	--	294	7.5	--	140	36
		63-08-15		500.00	--	405	--	--	298	7.4	--	140	37
		63-08-15		500.00	--	405	--	--	301	7.4	--	140	37
283	402059076463601	63-05-06	364HMBG	500.00	25.00	175	44	30	257	7.6	12.8	110	32
		63-05-06		500.00	--	175	--	--	233	7.2	14.4	98	28
		63-05-06		500.00	--	175	--	--	127	6.9	--	49	14

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											DAUPHIN				
24	15	20	5.3	206	171	14	.0	16	12	--	--	70	--	505	457
11	--	12	--	198	41	9.0	.0	17	1.4	--	--	--	--	290	--
11	--	5.5	--	179	40	10	.0	20	2.5	--	--	--	--	255	--
9.9	--	8.6	--	146	26	7.0	.0	25	19	--	--	200	630	216	--
8.5	--	7.8	--	163	24	11	.1	28	15	--	--	--	--	237	--
11	--	5.3	--	170	22	11	.1	25	13	--	--	230	20	240	--
11	--	23	--	100	64	14	.2	15	3.5	--	--	--	--	214	--
14	--	10	--	189	75	9.8	.1	24	11	--	--	120	50	320	--
21	--	7.6	--	181	135	12	.0	21	14	--	--	70	0	468	--
28	--	13	--	204	236	11	.0	24	6.2	--	--	60	10	568	--
23	13	15	1.6	189	231	14	.0	23	9.7	--	--	30	0	531	526
31	16	18	2.0	208	321	14	.0	23	10	--	--	60	50	711	667
34	19	21	2.2	218	328	14	.0	21	5.3	--	--	30	0	732	683
36	18	20	2.2	222	358	12	.1	21	6.2	--	--	140	0	775	721
29	14	16	1.5	260	166	18	.0	18	8.9	--	--	410	0	523	496
39	14	17	3.0	214	450	19	.0	21	7.1	--	--	70	--	893	847
32	16	19	2.8	225	312	20	.1	21	7.5	--	--	70	0	742	677
22	16	18	1.8	275	122	28	.0	18	6.6	--	--	980	0	515	461
14	--	14	--	169	87	12	.0	14	11	--	--	--	--	309	--
11	--	13	--	158	95	9.2	.0	20	11	--	--	310	10	318	--
13	--	10	--	126	111	12	.0	16	5.8	--	--	60	0	317	--
15	--	15	--	133	199	13	.0	18	5.3	--	--	40	0	454	--
18	14	18	3.6	118	261	14	.1	16	4.9	--	--	470	0	524	504
20	14	19	4.5	152	255	15	.0	17	7.1	--	--	60	70	582	530
26	16	26	9.5	173	364	13	.0	18	1.5	--	--	190	10	742	689
25	17	24	7.0	186	358	15	.1	16	8.0	--	--	310	40	769	710
15	14	16	2.4	198	127	22	.0	15	7.1	--	--	70	0	433	396
32	19	26	7.0	205	335	16	.1	18	6.6	--	--	20	20	744	683
22	15	21	6.0	216	244	16	.1	18	8.9	--	--	80	0	606	571
15	15	17	2.0	214	101	22	.0	16	12	--	--	70	0	414	382
14	--	35	--	221	42	10	.1	20	2.0	--	--	--	--	285	--
16	--	22	--	84	529	4.5	.2	15	9.3	--	--	--	--	926	--
9.0	--	5.8	--	118	31	4.6	.1	26	17	--	--	1200	490	200	--
11	--	9.7	--	128	46	4.8	.0	26	20	--	--	1400	0	224	--
15	--	13	--	194	45	7.5	.1	12	.50	--	--	--	--	257	--
15	--	9.7	--	196	156	5.8	.1	24	3.5	--	--	380	20	425	--
27	--	33	--	201	396	6.5	.1	22	1.0	--	--	160	110	792	--
17	--	18	--	204	189	5.7	.2	22	5.3	--	--	40	60	483	--
17	20	25	4.5	167	265	8.5	.0	21	3.5	--	--	50	20	548	544
19	21	28	7.2	206	275	10	.0	22	4.9	--	--	110	40	632	602
24	19	27	8.4	204	274	9.8	.1	32	4.3	--	--	110	0	630	600
22	19	25	6.0	223	255	11	.0	17	4.9	--	--	140	100	598	577
24	19	26	7.0	205	269	11	.0	18	3.8	--	--	20	80	611	577
21	17	25	7.6	221	255	12	.1	20	3.7	--	--	90	400	599	581
20	20	26	5.6	232	236	12	.0	17	5.3	--	--	130	0	608	556
18	--	--	--	150	38	--	--	--	--	--	--	--	--	288	--
1.7	4.2	7.2	3.0	22	.4	1.8	.0	24	11	--	--	350	70	61	61
9.4	2.2	3.2	1.0	142	10	1.2	.1	5.8	1.0	--	.09	1200	500	135	136
8.6	12	13	.9	155	6.7	7.5	.1	17	3.5	--	.00	33	0	166	168
6.6	3.6	4.6	1.0	101	6.7	8.6	.1	9.2	.80	--	--	2400	760	111	116
21	12	14	2.0	252	18	20	.0	15	.20	--	.00	0	30	280	271
8.8	8.7	9.5	.8	157	4.0	5.4	.1	19	8.0	--	.06	60	0	173	171
12	8.4	9.6	1.2	155	13	11	.1	15	11	--	.00	60	0	204	189
12	10	11	1.4	167	17	.9	.1	15	.00	--	.00	70	20	175	174
13	5.6	7.6	2.0	150	27	5.6	.0	11	11	--	.00	1600	30	198	192
7.1	12	13	.9	149	20	5.0	.1	23	.00	--	.00	310	350	185	181
14	5.0	6.0	1.0	151	39	1.2	.2	21	.50	--	--	340	90	194	197
7.3	7.3	7.9	.6	148	10	4.1	.1	16	7.5	--	.01	70	0	170	165
13	--	6.9	--	124	22	12	.1	--	.40	--	.00	170	20	200	--
5.8	4.9	11	6.0	20	37	9.6	.0	9.6	21	--	--	34	0	136	121
10	8.7	9.4	.7	153	18	18	.1	15	3.0	--	.00	50	90	211	196
14	14	15	1.0	17	19	19	.1	14	.60	--	.00	0	150	213	132
9.0	7.5	7.9	.4	155	8.0	3.1	.1	18	1.8	--	--	--	--	167	161
13	6.8	7.7	.9	167	7.6	1.4	.1	16	1.6	--	--	220	240	173	164
15	6.8	7.8	1.0	178	10	1.6	.1	14	1.2	--	--	860	220	185	173
15	6.7	7.8	1.1	173	10	1.4	.1	15	.90	--	--	590	170	172	170
11	11	12	.5	179	6.2	1.4	.0	18	10	--	--	1400	140	180	184
12	7.2	8.0	.8	182	6.2	1.0	.6	15	8.0	--	--	890	240	186	179
12	7.2	8.0	.8	181	6.6	1.3	.1	15	8.4	--	--	69	17	184	178
8.3	6.7	7.1	.4	139	8.8	1.3	.1	9.6	.00	--	--	1600	740	150	138
6.8	6.1	6.5	.4	120	11	1.6	.2	11	.80	--	--	4500	160	130	130
3.4	4.1	4.5	.4	49	16	1.2	.1	7.4	.50	--	--	5800	340	76	77

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			DAUPHIN										
DA 284	402058076463801	63-05-06	364HMBG	500.00	21.00	215	23	--	330	7.2	13.3	150	36
		63-05-06		500.00	--	215	--	--	309	7.5	13.3	150	35
		63-05-06		500.00	--	215	--	--	320	7.4	13.3	150	35
		63-05-06		500.00	--	215	--	--	359	7.2	13.3	180	42
289	402013076473601	63-08-06	364HMBG	505.00	4.00	210	29	40	403	7.5	--	190	57
329	402145076403001	62-05-15	364HMBG	495.00	25.00	130	38	50	471	7.4	--	230	68
350	402118076462201	63-09-05	364HMBG	450.00	6.00	225	19	--	275	8.2	--	120	30
		63-09-05		450.00	--	225	--	--	279	8.0	--	130	32
		63-09-05		450.00	--	225	--	--	286	8.2	--	130	30
351	402115076465801	63-07-11	364HMBG	560.00	55.00	154	55	13	314	7.6	--	150	42
379	402413076390601	63-01-10	364HMBG	490.00	--	110	50	27	232	7.7	13.3	100	26
382	401027076430501	65-09-29	231DIBS	520.00	45.00	81	17	18	283	6.8	--	130	30
		66-08-12		520.00	--	81	--	--	300	7.0	15.6	150	34
		67-07-13		520.00	--	81	--	--	330	6.8	17.8	160	37
386	401153076430601	58-07-28	231GBRG	320.00	50.00	500	100	182	334	7.6	13.9	160	47
		59-06-24		320.00	--	500	--	--	346	7.3	15.6	160	44
		60-06-21		320.00	--	500	--	--	353	8.5	15.0	170	47
		61-07-18		320.00	--	500	--	--	370	7.7	15.0	170	50
		62-07-17		320.00	--	500	--	--	365	7.6	13.9	180	52
		63-08-22		320.00	--	500	--	--	373	7.5	14.4	180	53
		64-08-11		320.00	--	500	--	--	383	7.4	13.9	180	50
		65-08-03		320.00	--	500	--	--	395	7.5	13.9	180	50
		66-08-12		320.00	--	500	--	140	385	7.7	14.4	190	55
387 1/	401305076473801	74-11-13	231GBRG	375.00	12.00	400	47	24	--	7.3	--	300	--
388	401255076431801	59-03-27	231GBRG	300.00	--	40	--	--	357	7.4	--	180	53
389	401910076392001	59-03-26	364HMBG	360.00	--	--	--	--	216	7.5	--	110	34
403 1/	401240076470601	74-11-13	231GBRG	360.00	15.00	806	30	150	--	7.2	--	--	--
404 1/	401213076462501	74-11-13	231GBRG	310.00	22.00	878	30	265	--	7.3	--	300	--
510	400911076430201	76-05-13	231GBRG	320.00	56.00	120	55	30	--	6.3	14.5	49	12
525	401200076412801	76-05-13	231DIBS	445.00	17.00	90	23	15	--	6.5	14.0	200	44
526	401236076345901	76-05-13	231GBRG	510.00	15.00	102	31	7.0	--	6.7	13.0	260	83
		76-11-18		510.00	--	102	--	--	--	--	13.0	--	--
			FRANKLIN										
FR 781 *	401244077442101	79-08-07	361MRBG	1015.00	--	71	--	--	480	--	13.0	210	62
			LEBANON										
LB 7 S	401712076254201	59-10-13	374BSPG	510.00	0.00	--	--	--	483	7.2	--	250	65
17	402358076230201	25-10-02	364HMBG	520.00	20.00	90	--	15	--	--	12.2	49	9.6
18 S	401948076294501	71-11-10	367EPLR	410.00	0.00	--	--	--	669	7.7	11.0	310	90
19 S 1/	401614076341401	74-08-12	231HMCK	500.00	0.00	--	--	30	--	6.6	--	54	--
21	402014076255801	25-10-02	367EPLR	455.00	10.00	164	--	150	--	--	11.1	260	76
23	402056076254501	25-10-02	364ONLN	495.00	40.00	400	--	160	--	--	11.1	330	100
24	402102076253501	25-09-15	364HMBG	515.00	80.00	150	--	20	--	--	--	140	39
40	401655076292501	59-10-12	371SCFR	465.00	20.00	97	--	--	498	7.3	--	240	68
41	401646076291501	59-10-12	371SZCK	498.00	--	--	--	--	564	7.6	--	320	69
50	401813076265701	59-10-12	367SNNG	500.00	48.00	60	--	--	556	7.4	--	270	80
59	401827076284601	59-10-12	367SNNG	498.00	--	100	--	--	741	7.4	--	340	120
68	401746076290601	59-10-12	371RCLD	500.00	26.00	350	--	--	544	7.2	--	290	64
92	401926076280701	59-02-13	367SNNG	482.00	--	137	--	--	583	7.6	--	310	92
111	401907076275801	59-10-12	367SNNG	462.00	55.00	200	--	--	548	7.3	--	290	102
121	401636076273101	59-10-12	374BSPG	540.00	32.00	150	--	--	733	7.7	--	360	88
140	401830076260801	59-10-21	371RCLD	522.00	36.00	--	--	20	1040	7.2	--	340	92
148	401913076263701	59-02-13	367SNNG	460.00	19.00	30	--	--	484	7.4	--	250	72
153	401854076250901	59-10-12	371MLBC	498.00	--	--	--	--	514	7.3	--	240	71
166	401754076244501	59-10-13	371SZCK	598.00	84.00	182	60	--	647	7.4	--	340	84
185	401747076225701	59-10-13	374BSPG	595.00	--	177	--	--	364	7.7	--	190	46
194	401850076231101	59-10-13	371SCFR	505.00	31.00	70	--	--	446	7.9	--	230	72
204	401644076234901	59-02-13	374BSPG	620.00	17.00	20	--	--	741	7.5	--	340	88
206	401643076230801	59-10-13	231DIBS	682.00	19.00	25	--	--	275	6.7	--	120	33
213	401829076233201	59-10-13	371SZCK	565.00	33.00	303	33	9.0	452	7.8	--	250	58
217	401924076234701	59-10-13	371RCLD	515.00	26.00	32	--	--	493	7.5	--	250	75
229	401949076235901	59-10-16	367SNNG	483.00	8.00	175	--	--	414	8.2	--	230	62
230	401602076291901	59-10-12	231GBRG	580.00	23.00	30	--	--	676	6.5	--	290	71
238	401725076271301	59-10-12	371MLBC	500.00	37.00	120	--	--	432	8.1	--	220	70
250	401708076282401	59-02-13	371SCFR	515.00	31.00	35	--	--	524	7.5	--	280	72
259	402032076293801	59-10-13	364HMBG	540.00	--	70	--	--	174	6.6	--	64	18
275	402032076274801	59-02-13	364ONLN	454.00	19.00	68	--	--	649	7.6	--	330	78
281	402045076282701	59-10-13	364HMBG	530.00	30.00	200	--	--	397	7.5	--	200	57
298	402136076231501	59-10-19	364HMBG	550.00	--	150	--	--	241	7.3	--	97	25
322	402001076271001	59-10-19	367EPLR	480.00	--	175	--	15	852	7.0	--	400	126
366	402058076254201	59-02-13	364ONLN	498.00	14.00	285	42	290	515	7.4	--	270	88
520	401826076212301	59-10-16	371SZCK	606.00	64.00	150	--	--	403	7.6	--	200	66

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											DAUPHIN				
15	6.8	7.6	.8	183	5.7	1.5	.1	13	2.7	--	--	1000	340	174	173
15	7.1	8.6	1.5	180	6.3	1.8	.0	14	4.4	--	--	5300	130	199	179
16	7.1	8.6	1.5	186	7.1	1.8	.0	13	4.9	--	--	5200	130	202	183
18	7.1	8.6	1.5	210	9.2	1.8	.0	11	2.2	--	--	5300	240	215	202
12	7.3	8.0	.7	165	29	18	.1	15	12	--	.00	50	--	247	232
15	7.3	8.5	1.2	201	39	15	.0	14	24	--	.00	10	0	290	282
11	12	13	.6	164	14	1.7	.2	13	.70	--	--	2900	20	165	167
11	13	14	.8	165	13	1.8	.2	13	1.3	--	--	2100	400	175	170
14	12	13	.6	165	13	1.7	.1	13	.90	--	--	2800	410	166	170
12	8.0	8.2	.2	187	18	1.4	.2	16	.80	--	--	--	--	193	191
8.5	6.4	7.6	1.2	114	14	1.7	.1	21	.20	--	--	230	250	138	136
13	5.1	5.4	.3	99	45	6.5	.0	43	8.4	--	--	130	0	225	246
15	4.8	5.4	.6	101	52	6.7	.1	40	11	--	--	170	0	227	214
16	5.8	6.2	.4	106	61	7.0	.0	36	14	--	--	260	0	268	230
9.7	--	9.4	--	200	4.6	2.5	.0	27	6.6	--	--	360	0	203	--
12	--	12	--	186	17	4.4	.1	26	11	--	--	40	30	220	--
12	9.2	10	1.0	166	19	4.6	.0	26	11	--	--	80	0	220	226
12	9.9	11	.8	187	22	5.3	.0	25	13	--	--	110	120	235	230
11	8.3	9.2	.9	188	26	6.2	.0	22	3.6	--	--	280	20	238	223
11	9.8	10	.2	184	27	9.6	.0	21	13	--	--	0	20	238	235
14	9.0	9.2	.2	190	25	7.0	.0	21	10	--	--	180	0	239	230
14	9.8	10	.3	184	30	7.7	.2	21	11	--	--	210	0	256	235
12	9.4	10	.8	187	31	10	.0	21	10	--	--	50	0	248	242
--	--	--	--	218	60	34	.1	--	5.3	--	.06	50	290	420	--
12	4.2	6.3	2.1	170	28	4.6	.0	18	25	--	--	200	0	241	231
6.3	3.2	3.9	.7	128	4.3	2.3	.1	10	1.9	--	--	430	330	125	127
--	--	--	--	174	57	26	.1	--	19	--	.00	120	10	400	--
--	--	--	--	140	150	15	.1	--	4.1	--	.00	30	50	522	--
4.7	5.6	6.2	.6	49	6.3	3.8	.1	17	17	.03	.06	80	10	95	93
23	5.6	6.1	.5	153	42	26	.0	38	20	.01	.06	10	0	298	276
12	11	12	.6	217	35	35	.1	16	23	.00	.15	0	0	338	324
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
											FRANKLIN				
14	15	17	1.7	220	26	9.7	.2	22	.44	--	.00	500	230	267	260
											LEBANON				
20	7.1	11	3.6	213	69	6.2	.1	25	11	--	--	50	140	316	312
6.1	--	9.6	--	63	13	1.6	--	13	.60	--	--	120	--	91	--
20	--	22	--	280	75	18	--	--	27	--	.12	--	--	--	--
--	--	8.3	--	50	15	3.0	.1	--	13	--	.25	190	20	98	--
18	--	22	--	251	49	22	--	15	26	--	--	60	--	357	--
20	--	28	--	257	116	44	--	32	.00	--	--	120	--	485	--
10	11	13	1.7	127	13	24	--	17	14	--	--	50	--	197	192
18	3.3	5.2	1.9	232	25	6.2	.1	13	29	--	--	110	--	327	279
35	2.7	4.1	1.4	299	64	4.6	.1	11	2.6	--	--	40	220	336	338
16	9.0	11	1.9	273	17	11	.0	11	37	--	--	480	0	333	318
10	19	21	1.9	273	16	55	.1	10	71	--	--	140	60	530	438
32	4.0	5.8	1.8	270	52	6.8	.4	10	5.8	--	--	40	0	312	310
20	6.2	11	5.0	257	69	8.4	.0	10	23	--	--	1100	80	363	361
7.4	4.3	5.7	1.4	268	38	9.8	.1	8.6	19	--	--	0	0	349	323
33	10	28	18	320	45	22	.1	13	71	--	--	60	410	501	458
26	84	91	7.3	299	61	82	.0	13	106	--	--	50	0	643	619
17	5.2	8.0	2.8	218	51	6.8	.0	13	22	--	--	90	0	300	297
15	6.4	11	5.0	232	34	8.4	.2	11	21	--	--	0	0	314	286
32	5.3	14	9.0	315	45	12	.1	10	36	--	--	70	170	398	389
17	3.7	6.3	2.6	184	18	5.8	.1	11	23	--	--	70	30	218	218
13	2.9	9.9	7.0	245	25	4.5	.2	7.6	13	--	--	30	30	274	266
29	27	30	3.4	342	55	20	.1	19	36	--	--	60	10	444	446
9.9	9.2	9.9	.7	101	35	7.2	.1	42	12	--	--	410	30	205	199
26	1.7	3.7	2.0	262	30	3.8	.1	8.6	4.3	--	--	70	50	256	264
15	7.1	12	4.6	240	40	6.0	.2	7.2	23	--	--	110	60	308	297
17	3.3	5.1	1.8	216	23	5.7	.1	10	21	--	--	140	20	265	250
28	14	15	.8	95	64	39	.1	36	146	--	--	60	0	423	446
11	3.7	6.1	2.4	227	24	6.2	.2	11	25	--	--	50	50	269	265
24	3.3	6.1	2.8	226	46	8.8	.1	11	44	--	--	70	10	340	324
4.6	9.0	10	1.0	50	12	10	.0	22	25	--	--	80	0	120	126
32	17	19	1.8	302	58	14	.0	5.9	38	--	--	370	30	395	394
14	6.8	7.8	1.0	210	35	1.8	.0	20	.20	--	--	150	30	232	239
8.5	3.2	4.0	.8	72	5.9	4.0	.0	8.6	43	--	--	60	0	135	134
20	25	30	5.3	416	52	27	.0	13	25	--	--	10	0	522	498
11	9.9	11	1.1	231	72	9.0	.0	16	5.3	--	--	110	0	327	326
9.6	5.0	7.4	2.4	204	14	6.0	.1	13	30	--	--	60	30	255	247

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				LEBANON										
LB 562		401718076220201	59-10-16	3748SPG	588.00	56.00	68	--	--	794	7.2	--	380	96
579		401905076214801	59-10-16	371MLBC	557.00	106.00	152	51	--	462	7.9	--	250	74
660		401654076313501	59-10-12	371SZCK	510.00	38.00	60	--	--	778	7.7	--	390	98
663		401910076310101	59-10-12	367EPLR	403.00	23.00	42	23	--	620	6.8	--	310	104
718		403104076290201	63-01-08	344MNNG	550.00	--	125	--	--	32	6.2	--	8	2.4
719		402321076284501	63-01-09	361MRBG	460.00	--	48	--	--	165	6.8	--	58	13
720		401616076351801	63-01-09	231GBRG	500.00	--	107	60	21	259	7.0	--	110	42
721		402825076342401	63-01-11	364HMBG	535.00	--	31	--	--	43	5.7	--	11	1.6
727		402545076213201	59-03-27	364HMBG	455.00	--	66	18	--	583	7.6	--	290	96
728		402710076302501	59-03-26	364HMBG	420.00	--	--	--	--	355	6.9	--	150	43
795		401439076275701	76-06-02	231GBRG	845.00	--	261	--	20	50	6.0	11.0	14	3.5
797	1/	401443076282801	74-03-13	231HMCK	650.00	40.00	385	41	90	--	6.3	--	41	--
798		401554076344301	76-05-13	231GBRG	560.00	6.00	300	64	167	--	6.8	11.0	69	20
				PERRY										
PE 1	S	402519077121201	34-08-29	347ORSK	785.00	0.00	--	--	--	--	--	--	160	56
2	S	401943077144001	74-06-13	347ORSK	500.00	0.00	--	--	--	214	7.6	--	110	39
			74-06-13		500.00	--	--	--	--	--	--	--	--	--
	1/		75-10-06		500.00	0.00	--	--	140	190	7.2	17.8	110	38
			76-05-19		500.00	--	--	--	--	--	7.6	17.7	110	40
8	S 1/	402054077131601	75-09-10	347ORSK	460.00	--	--	--	--	120	6.1	13.3	50	17
9	S 1/	402113077134701	75-10-07	351TNLY	525.00	0.00	--	--	7.5	300	7.2	12.0	190	65
23		402316077015401	34-08-27	341CSKL	350.00	--	330	--	40	--	--	--	120	27
44		402118076592801	34-08-27	327MCCK	350.00	10.00	76	22	--	--	--	--	170	50
64	1/	402207077204701	72-09-05	351BMBG	580.00	6.00	102	21	25	--	7.4	--	240	--
71		402225077205701	34-08-25	351WLCKU	615.00	21.00	308	38	50	--	--	--	310	73
96		402032077181501	66-10-27	351WLCKU	550.00	10.00	72	49	10	--	--	--	--	--
107		402033077183201	66-10-27	351WLCKL	565.00	35.00	130	53	6.0	--	--	--	--	--
110		402022077183101	66-11-03	351BMBG	535.00	25.00	190	28	15	--	--	--	--	--
117		402036077183301	66-11-16	351WLCKU	580.00	65.00	125	65	12	--	--	--	--	--
127		402221077193301	66-11-14	351WLCKL	675.00	95.00	131	95	20	--	--	--	--	--
145		402035077170201	66-04-14	351WLCKU	565.00	14.00	80	44	25	342	7.4	12.7	170	56
146		402046077170001	66-04-15	351TNLY	580.00	16.00	75	50	25	341	7.4	10.5	218	69
153		402037077174801	66-10-27	351WLCKU	645.00	67.00	130	78	15	--	--	--	--	--
163		402158077203201	66-11-16	351WLCKL	615.00	40.00	103	43	8.0	--	--	--	--	--
168		402152077210501	66-11-14	351BMBG	605.00	26.00	100	40	15	--	--	--	--	--
169		402031077184301	66-11-16	351WLCKL	550.00	26.00	115	33	--	--	--	--	--	--
170		402157077202901	66-04-07	351WLCKL	635.00	--	100	--	--	392	7.9	12.2	194	64
			66-11-14		635.00	35.00	100	62	15	--	--	--	--	--
182		402300077163101	66-04-07	344ONDG	735.00	5.00	53	19	25	596	7.5	--	314	101
190		402121077250301	66-04-14	351WLCKU	710.00	--	105	49	5.0	275	7.2	--	140	46
396		402035077182101	66-04-06	351WLCKL	595.00	70.00	141	45	10	633	7.3	12.2	316	74
413		402220077193701	66-11-14	351WLCKL	680.00	86.00	141	86	15	--	--	--	--	--
427		402238077270601	66-06-29	347SRVR	740.00	15.00	47	21	25	228	7.7	11.1	121	42
445		402024077182601	66-11-16	351WLCKL	550.00	20.00	98	56	25	--	--	--	--	--
459		402034077182801	66-10-27	351WLCKU	565.00	5.00	18	--	--	--	--	--	--	--
460		402035077181001	66-10-27	351WLCKU	575.00	9.00	22	--	--	--	--	--	--	--
461		402152077210801	66-11-16	351BMBG	610.00	29.00	106	29	5.0	--	--	--	--	--
467	1/	401948077144101	75-10-06	347ORSK	510.00	13.00	123	--	10	125	6.8	12.0	68	25
511		402339077074501	68-07-09	344MNNG	590.00	4.00	138	17	2.0	171	8.4	13.0	70	21
			69-05-14		590.00	--	138	--	--	169	8.0	--	73	22
				SCHUYLKILL										
SC 87		403349076223001	31-09-02	344MNNG	560.00	30.00	260	--	26	--	--	--	44	8.0
			56-02-12		560.00	--	260	--	--	79	6.5	--	24	5.6
224		403600076233401	62-12-26	327MCCK	678.00	--	85	--	--	120	7.7	--	54	16
225		403347076192501	63-01-07	341TMRK	770.00	--	76	--	--	167	7.2	15.0	67	14
226		403352076191701	63-01-07	341TMRK	785.00	--	95	--	--	85	6.2	14.4	22	4.8
227		403606076185801	63-01-07	341CSKL	680.00	--	110	--	--	134	7.0	13.3	55	11
228		403231076281001	63-01-08	341CSKL	580.00	20.00	100	--	--	116	6.0	8.3	34	7.2
229		403108076234701	63-01-08	351BMBG	630.00	--	70	--	--	100	6.2	11.7	35	8.0
230		403403076150601	63-01-08	341CSKL	640.00	--	22	--	--	183	6.1	7.2	68	14
231		403816076241001	63-01-18	321LLLN	860.00	--	50	--	--	186	6.5	15.6	83	18
232		403807076242601	63-01-23	321LLLN	900.00	--	55	--	--	112	5.7	13.3	24	5.2
291		403137076281001	59-02-12	344MNNG	480.00	--	--	--	--	83	6.1	10.6	24	4.8
				YORK										
YO 816		401015076493501	25-11-02	231GBRG	480.00	20.00	56	--	5.0	--	--	--	61	19
817		401002076490801	25-11-02	231DIAS	480.00	16.00	50	--	3.0	--	--	11.1	31	5.5
822	1/	400918076472401	73-02-28	231GBRG	440.00	10.00	510	75	22	--	7.4	--	126	--
823	1/	400908076472401	73-02-28	231GBRG	420.00	30.00	310	41	22	--	7.7	--	114	--
825	1/	400916076484701	70-06-17	231GBRG	405.00	30.00	310	41	20	--	7.3	--	92	--
826	1/	401111076505301	73-01-09	231GBRG	718.00	60.00	113	88	60	260	6.8	--	117	41
827	1/	401109076505901	73-01-09	231GBRG	725.00	76.00	180	155	60	--	7.1	--	96	35
828	1/	400555077035001	73-01-11	377ANTM	775.00	32.00	179	60	35	60	7.0	--	19	6.4
829	1/	400555077034901	73-01-11	377ANTM	760.00	1.00	300	30	40	50	6.1	--	16	2.4
830	1/	400614077034401	73-01-11	377ANTM	685.00	31.00	132	120	200	50	6.2	--	16	2.8
839		401204076540101	74-03-20	231GBRG	420.00	--	80	--	--	--	--	--	170	60
840		401221076535001	74-03-20	367EPLR	460.00	--	180	--	--	--	--	--	320	110
850		400813076491401	76-06-02	231GBRG	618.00	80.00	160	110	20	50	5.9	12.5	7	1.5
860		401100076491901	76-11-16	231GBRG	650.00	--	278	49	--	140	6.4	10.0	55	13
935		401017076532101	76-11-16	231GBRG	530.00	111.00	196	183	25	202	5.6	12.5	120	42

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											LEBANON				
33	18	29	11	340	41	19	.0	9.9	75	--	--	30	20	516	471
15	3.3	4.5	1.2	236	26	4.2	.1	9.8	26	--	--	50	30	296	276
34	24	34	10	338	45	28	.4	12	93	--	--	40	20	535	511
13	4.0	12	8.0	306	35	8.6	.2	10	15	--	--	60	0	370	349
.5	3.1	3.9	.8	14	.0	.8	.1	9.0	3.4	--	--	120	0	31	27
6.3	9.0	9.5	.5	56	12	6.6	.1	13	11	--	--	540	0	100	100
1.7	6.7	8.2	1.5	150	.0	2.6	.0	40	3.2	--	--	140	0	173	172
1.7	3.1	3.9	.8	9	3.2	1.8	.1	7.4	5.3	--	--	7400	0	30	37
11	12	13	1.0	240	72	17	.0	19	7.5	--	--	30	170	361	354
10	10	15	4.9	110	42	8.6	.2	16	28	--	--	380	60	253	217
1.3	2.1	2.8	.7	16	2.2	2.9	.0	14	.22	.01	.12	130	0	35	35
--	--	5.3	--	31	21	3.0	.1	--	.60	--	.09	10	10	108	--
4.6	5.6	6.4	.8	80	11	1.5	.1	23	4.8	.03	.25	40	0	116	111
											PERRY				
5.8	--	<5.0	--	168	10	1.5	--	--	8.4	--	--	--	--	--	--
2.7	2.2	2.8	.6	124	5.4	.8	.2	9.1	.40	--	.03	30	0	127	121
--	--	--	--	--	--	--	--	--	--	--	--	<3	<3	--	--
3.3	1.6	2.1	.5	135	8.3	.8	.1	9.0	.10	--	.31	0	0	129	129
2.8	1.8	6.8	5.0	133	6.3	.9	.1	7.4	.10	--	.09	0	0	--	130
2.0	1.4	2.0	.6	58	6.3	1.1	.1	7.3	.50	--	3.7	0	0	68	69
5.9	3.1	4.0	.9	176	29	14	.2	5.9	7.1	--	.46	0	0	219	219
13	15	18	3.2	96	28	19	--	12	18	--	--	180	--	193	183
9.7	--	2.0	--	120	20	32	--	--	4.9	--	--	270	--	--	--
--	--	4.8	--	158	68	28	.2	--	10	--	.12	60	20	350	--
32	--	<5.0	--	258	85	4.0	--	--	8.9	--	--	70	--	--	--
--	--	--	--	--	--	28	--	--	7.1	--	--	--	--	--	--
--	--	--	--	--	--	97	--	--	30	--	--	--	--	--	--
--	--	--	--	--	--	3.0	--	--	1.2	--	--	--	--	--	--
--	--	--	--	--	--	10	--	--	6.6	--	--	--	--	--	--
--	--	--	--	--	--	4.0	--	--	22	--	--	--	--	--	--
7.4	1.5	2.4	.9	168	15	4.4	.1	7.6	26	--	--	100	0	202	202
11	1.2	2.0	.8	212	21	4.3	.1	7.5	26	--	--	90	0	248	245
--	--	--	--	--	--	15	--	--	41	--	--	--	--	--	--
--	--	--	--	--	--	32	--	--	32	--	--	--	--	--	--
--	--	--	--	--	--	124	--	--	7.1	--	--	--	--	--	--
--	--	--	--	--	--	51	--	--	22	--	--	--	--	--	--
8.4	2.8	3.6	.8	178	23	10	.1	7.5	24	--	--	90	0	231	228
--	--	--	--	--	--	10	--	--	22	--	--	--	--	--	--
15	2.9	4.2	1.3	299	55	14	.0	11	.40	--	--	430	50	363	348
6.3	.7	1.5	.8	140	12	3.4	.0	4.7	20	--	--	100	0	168	163
32	8.8	11	2.3	284	37	28	.1	11	26	--	--	110	0	372	359
--	--	--	--	--	--	6.0	--	--	25	--	--	--	--	--	--
3.8	.6	.8	.2	141	3.8	1.8	.0	9.8	4.0	--	.10	10	0	132	136
--	--	--	--	--	--	6.0	--	--	13	--	--	--	--	--	--
--	--	--	--	--	--	22	--	--	71	--	--	--	--	--	--
--	--	--	--	--	--	92	--	--	115	--	--	--	--	--	--
--	--	--	--	--	--	116	--	--	12	--	--	--	--	--	--
1.4	.6	1.2	.6	82	.4	1.4	.1	4.2	.10	--	1.9	20	0	95	76
4.3	6.3	7.2	.9	86	11	.4	.1	17	.00	--	--	2000	70	110	107
4.2	5.6	6.3	.7	97	11	.8	.0	17	.50	--	.20	2800	120	110	113
											SCHUYLKILL				
--	--	9.2	--	61	12	1.0	--	--	.00	--	--	1400	--	--	--
2.4	3.0	8.0	5.0	20	5.1	5.5	.0	14	8.4	--	--	120	10	59	59
3.4	2.6	3.1	.5	72	2.5	1.0	.1	17	3.1	--	--	240	0	80	82
7.8	8.2	9.2	1.0	100	2.9	.8	.2	27	.40	--	--	1300	380	110	113
2.4	5.3	6.1	.8	14	.4	5.0	.0	13	18	--	--	60	100	64	57
6.8	4.4	5.4	1.0	74	3.4	1.7	.1	18	.30	--	--	780	490	85	84
3.9	4.4	6.4	2.0	8	14	5.9	.0	11	19	--	--	120	0	80	71
3.6	4.0	5.5	1.5	26	4.8	4.0	.0	9.9	15	--	--	660	0	70	64
8.0	3.1	5.1	2.0	8	20	9.0	.0	8.8	44	--	--	170	0	120	113
9.2	3.6	3.6	.0	93	10	2.4	.1	8.5	.20	--	--	8200	600	99	107
2.7	2.0	3.2	1.2	6	14	2.4	.1	6.0	7.1	--	--	310	100	51	44
2.9	3.7	5.0	1.3	7	14	3.5	.0	8.6	8.0	--	--	50	10	58	50
											YORK				
3.2	3.9	4.8	.9	70	5.3	1.6	--	19	8.4	--	--	460	--	100	96
4.3	6.8	8.1	1.3	49	4.6	5.0	--	24	1.5	--	--	200	--	83	78
--	--	23	--	115	60	6.0	.1	--	12	--	.03	100	10	226	--
--	--	17	--	116	36	9.0	.1	--	7.1	--	.00	270	40	236	--
--	--	6.0	--	107	7.0	2.0	.0	--	8.4	--	--	0	0	144	--
3.5	3.2	4.4	1.2	80	.5	21	.0	1.1	35	--	.31	90	0	146	147
2.1	5.2	6.4	1.2	66	1.5	8.5	.0	1.1	37	--	.18	160	0	124	125
.7	--	5.8	--	15	15	2.0	.0	8.5	.40	--	.15	130	20	47	--
2.5	1.0	3.0	2.0	9	10	1.5	.0	8.5	1.2	--	.18	1840	30	36	36
2.2	.6	2.0	1.4	10	11	1.0	.0	7.2	.50	--	.28	670	80	33	33
4.4	6.3	10	4.1	--	14	17	--	--	--	--	--	80	0	--	--
12	8.6	12	3.3	--	2.4	19	--	--	--	--	--	80	0	--	--
.7	2.6	3.5	.9	15	.6	.9	.1	24	2.1	.01	.09	40	0	37	41
5.4	7.8	8.7	.9	81	2.9	1.4	.1	45	1.5	.06	.21	20	10	100	120
4.8	3.3	4.3	1.0	148	2.6	4.7	.1	16	9.3	.00	.09	190	0	160	158

Table 14.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050305--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			CUMBERLAND										
CU 1 S	401419076570801	361MRBG	--	--	--	--	--	25	--	27	<3	<8	54
3 S	401339076550701	364STPL	42	--	--	545	--	--	--	--	--	--	--
			--	--	--	--	--	26	--	35	<3	<8	32
18	401843076560601	361MRBG	300	200	90	205	--	0	--	--	--	--	--
63	401037077075901	371ZLGR	219	17	--	--	--	6	--	30	<3	<7	<9
82	400832077071301	371ELBK	55	--	--	219	--	--	--	--	--	--	--
190	401311076585201	367RCKR	34	18	24	642	--	--	--	--	--	--	--
191	401345076583101	367RCKR	179	--	--	721	--	--	--	--	--	--	--
213	401310076585901	367RCKR	48	--	--	577	--	--	--	--	--	--	--
224	401328076580201	367RCKR	42	8.0	10	701	--	--	--	--	--	--	--
278 1/	401259077003601	367RCKR	116	106	500	522	--	70	1	--	--	--	--
354	401047077113101	371SDGV	460	88	20	430	--	--	0	--	--	--	--
391	401437077180001	361MRBGM	85	--	10	--	--	5	--	160	<2	<4	19
397	401152077173101	364STPL	184	--	--	--	--	300	--	52	<1	<3	11
424	401337077090501	364CBBG	177	75	12	--	--	4	--	210	<1	<5	25
428	401019077093801	371ZLGR	191	97	20	--	--	26	--	22	0	<3	<3
434	400958077104301	371ZLGR	60	40	21	--	--	17	--	42	<2	<5	<6
455	400938077153901	371ZLGR	270	--	--	--	--	8	--	46	0	<3	4
460	401242077112001	364STPL	600	29	260	--	--	380	--	49	0	<3	15
			600	--	--	660	--	--	0	--	--	--	--
479	400752077201301	371ELBK	295	41	480	--	--	15	--	64	0	<2	6
529	400640077222601	371ELBK	110	--	--	--	--	13	--	43	<3	<6	<8
540	400414077242201	377WSBR	107	84	--	--	--	47	--	28	0	0	6
555	400938077110301	371ZLGR	217	71	--	--	--	4	--	24	0	<3	<3
628	400317077283201	371ZLGR	150	80	7.2	--	--	8	--	22	0	<2	4
651	401358077001301	364STPL	45	--	--	611	--	--	--	--	--	--	--
665	401316077062601	364STPL	300	--	--	--	--	15	--	100	<4	<10	50
676	401023077033801	371ELBK	200	80	21	--	--	800	--	57	0	<3	30
690	401304077233801	361MRBGM	80	40	11	--	--	10	--	75	<1	<3	17
778	401543077070201	364HMBG	341	--	--	--	--	6	--	340	0	0	36
807 1/	400857077085001	371ELBK	298	88	1400	300	--	100	--	100	--	--	25
810 1/	400926077000001	361MRBG	255	93	10	410	--	0	3	100	--	--	10
			DAUPHIN										
DA 263 1/	402003076432601	361MRBGC	400	54	75	285	--	--	--	10	--	--	--
510	400911076430201	231GBRG	120	55	30	--	.0	10	0	0	--	--	10
525	401200076412801	231DIBS	90	23	15	--	.1	10	0	100	--	--	40
526	401236076345901	231GBRG	102	31	7.0	--	.1	10	0	300	--	--	50
			LEBANON										
LB 795	401439076275701	231GBRG	261	--	20	50	.1	10	0	0	--	--	0
798	401554076344301	231GBRG	300	64	167	--	.0	10	1	0	--	--	10
			PERRY										
PE 2 S	401943077144001	347ORSK	--	--	--	--	--	8	--	41	<1	<3	8
1/			--	--	140	190	.0	1	0	--	--	--	0
			--	--	--	--	--	<1	0	--	--	--	0
8 S 1/	402054077131601	347ORSK	--	--	--	120	.0	14	0	--	--	--	0
9 S 1/	402113077134701	351TNLY	--	--	7.5	300	.0	1	0	--	--	--	--
467 1/	401948077144101	347ORSK	123	--	10	125	.0	1	0	--	--	--	0
			YORK										
YO 826 1/	401111076505301	231GBRG	113	88	60	260	--	480	--	--	--	--	0
827 1/	401109076505901	231GBRG	180	155	60	--	--	230	10	--	--	--	20
828 1/	400555077035001	377ANTM	179	60	35	60	--	20	--	--	--	--	0
829 1/	400555077034901	377ANTM	300	30	40	50	--	90	--	--	--	--	10
830 1/	400614077034401	377ANTM	132	120	200	50	--	0	--	--	--	--	0
839	401204076540101	231GBRG	80	--	--	--	--	--	--	0	--	--	--
840	401221076535001	367EPLR	180	--	--	--	--	--	--	0	--	--	--
850	400813076491401	231GBRG	160	110	20	50	.1	10	0	0	--	--	0
860	401100076491901	231GBRG	278	49	--	140	.0	10	2	0	--	--	40
935	401017076532101	231GBRG	196	183	25	202	.0	0	0	100	--	--	10

CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	TIN, DIS-SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI-TANIUM, DIS-SOLVED (UG/L AS TI)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
												CUMBERLAND			
<5	<5	<8	<2	<8	<2	--	<2	<7	--	<1	230	<10	<8	<5.0	<5
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	20
<4	<4	<8	3	<8	<2	--	<2	<6	--	<1	270	<10	<8	<4.0	5
--	--	--	0	--	100	--	--	--	--	--	--	--	--	--	30
<4	<4	<7	5	<7	6	--	<2	<6	--	0	180	<9	<8	<4.0	260
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0
--	--	--	--	60	--	--	--	--	--	--	--	--	--	--	--
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	0
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	0
--	--	--	--	1200	--	--	--	--	--	--	--	--	--	--	--
3	0	10	10	5	--	.5	--	10	--	1	--	--	--	--	35
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<2	<2	<4	1	<4	14	--	<1	<3	--	0	140	<4	<4	<2.0	170
<5	<4	<3	80	20	3	--	<1	17	--	0	300	<4	6	<3.0	50
<15	<5	<5	4	<5	11	--	<3	<5	--	0	2400	<5	<4	<3.0	1700
<8	<3	<3	26	<3	4	--	<1	<3	--	0	130	<3	<2	<2.0	40
<3	<3	<5	18	<5	4	--	<2	<4	--	0	160	<6	<5	<3.0	65
<8	<3	<3	20	<3	2	--	<1	<3	--	0	360	<3	<2	<2.0	1000
<10	<3	<3	3	<3	<2	--	<2	<3	--	0	380	<3	24	<2.0	20
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<3	<2	<2	2	3	5	--	0	<2	--	0	420	<2	<2	<2.0	1500
<3	<3	<6	<2	<6	4	--	<2	<5	--	0	110	<8	<6	<3.0	93
<1	0	0	15	2	0	--	0	5	--	0	13	0	2	<.2	43
<8	<3	<3	20	3	3	--	<2	<3	--	0	86	<3	<2	<2.0	400
<4	<2	<2	6	8	<1	--	0	<2	--	0	100	<2	<2	<2.0	50
--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	1500
<6	<6	<10	3	<10	<3	--	<3	<9	--	<2	210	<14	<10	<6.0	1500
<10	<3	<3	1	<3	5	--	<2	<3	--	0	240	<3	35	<2.0	<10
2	<2	<3	5	5	8	--	<1	<3	--	0	120	<4	<3	<2.0	2400
<3	<2	0	0	<2	10	--	3	0	--	0	900	<2	<2	<1.0	820
3	5	20	50	5	10	.0	--	60	--	1	--	--	--	--	70
3	2	6	10	5	100	.0	--	13	--	1	--	--	--	--	40
												DAUPHIN			
3	10	--	10	5	--	.5	--	10	--	1	--	--	--	--	240
0	<10	1	150	5	0	--	--	0	2	0	100	--	--	--	1400
0	10	0	10	2	0	--	--	0	0	0	70	--	--	--	560
1	10	0	40	5	20	--	--	0	0	0	580	--	--	--	40
												LEBANON			
1	10	0	60	5	0	--	--	0	0	0	70	--	--	--	40
0	10	0	0	2	0	--	--	0	0	0	120	--	--	--	10
												PERRY			
<2	<2	<3	2	<3	4	--	<2	<3	--	0	220	<3	<3	<2.0	30
--	--	--	0	--	0	--	--	--	1	--	300	--	--	--	10
--	--	--	0	--	0	--	--	--	<1	--	200	--	--	--	10
--	--	--	0	--	0	--	--	--	1	--	100	--	--	--	0
--	--	--	0	--	0	--	--	--	1	--	400	--	--	--	0
--	--	--	0	--	0	--	--	--	1	--	100	--	--	--	0
												YORK			
0	20	80	90	20	--	--	--	100	--	0	--	--	--	--	40
3	30	0	110	10	--	.5	--	0	--	0	--	--	--	--	40
3	0	30	10	0	--	.5	--	30	--	--	--	--	--	--	70
0	0	10	10	5	--	.5	--	0	--	--	--	--	--	--	100
3	0	10	10	5	--	.0	--	10	--	--	--	--	--	--	90
8	<10	--	40	2	--	--	--	--	--	--	--	--	--	--	70
22	<10	--	20	8	--	--	--	--	--	--	--	--	--	--	510
1	<10	1	30	4	0	--	--	0	0	0	30	--	--	--	10
1	<10	0	10	4	0	--	--	0	0	0	30	--	--	--	1900
1	<10	1	150	71	0	--	--	2	0	0	80	--	--	--	540

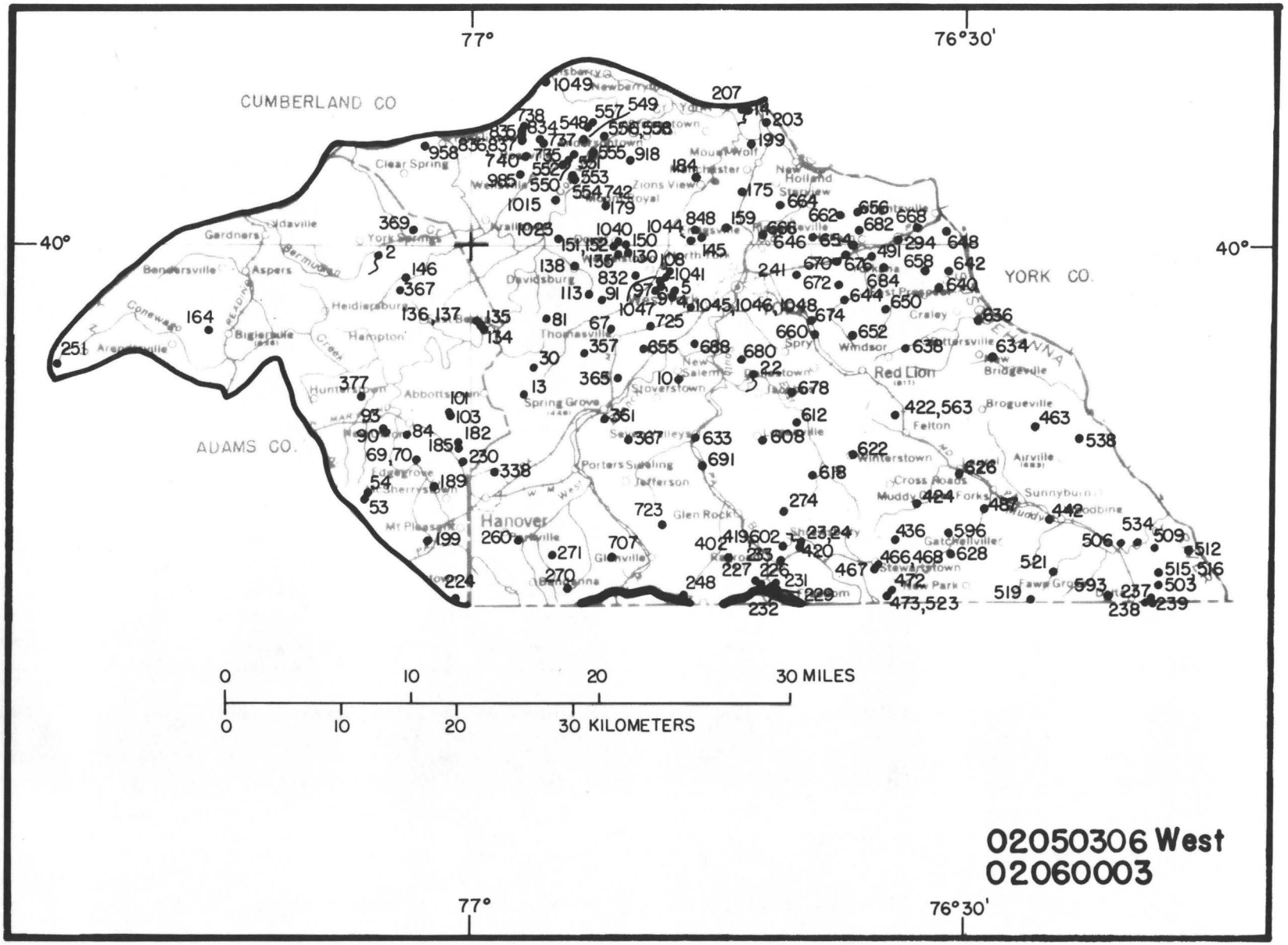

Figure 15.--Site location map for hydrologic units 02050306 and 02060003.

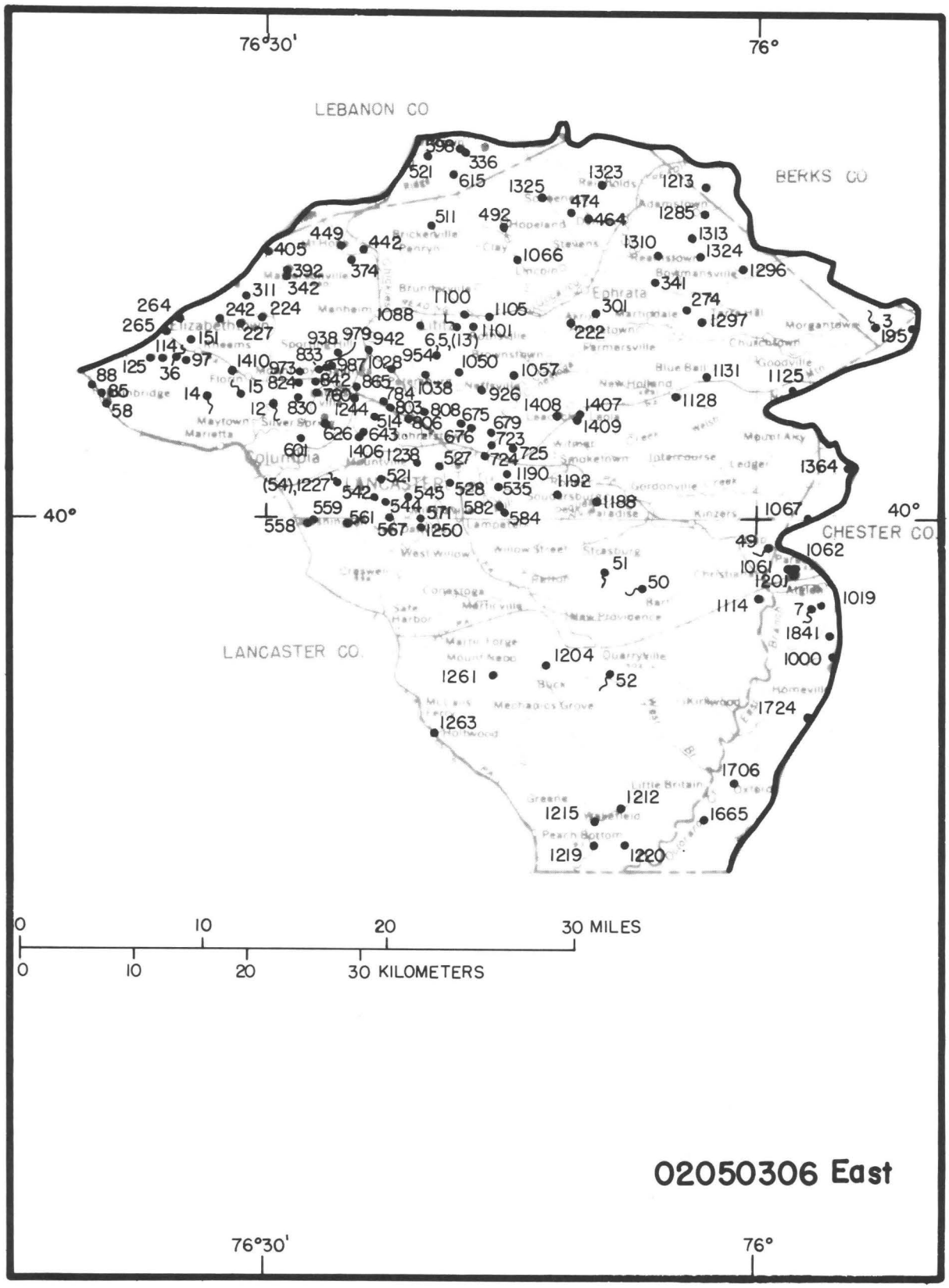

Figure 15.--Site location map for hydrologic units 02050306 and 02060003--continued.

TABLE 15.--HYDROLOGIC UNITS 02050306 and 02060003
(follows on next page)

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			ADAMS										
AD 2 S	395944077054001	25-10-31	231GBRG	515.00	0.00	--	--	--	--	--	10.0	560	209
53	394835077062501	60-10-31	231NOXF	627.00	5.00	25	--	--	432	6.4	13.9	170	38
54	394838077062401	60-10-31	231NOXF	625.00	2.00	96	20	--	806	6.7	12.8	340	82
69	395018077032201	60-11-03	231NOXF	573.00	--	135	--	--	857	7.0	13.3	350	69
70	395018077031901	60-11-03	231NOXF	575.00	12.25	34	--	--	1280	6.8	--	550	90
84	395127077035801	60-11-03	231NOXF	490.00	30.00	500	--	24	394	7.5	13.3	160	45
90	395136077051801	25-11-01	231NOXF	584.00	7.00	27	--	--	--	--	12.2	40	8.2
93	395141077052201	25-11-01	231NOXF	584.00	--	20	--	--	--	--	12.2	160	47
101	395227077012201	60-10-31	231NOXF	553.00	0.00	139	--	--	233	7.7	12.8	110	30
103	395220077012001	25-11-01	231NOXF	550.00	--	55	--	--	--	--	11.1	320	97
134 1/	395623076591801	70-10-22	231NOXF	420.00	34.00	601	--	75	--	7.6	--	130	--
135	395634076593301	60-10-31	231NOXF	413.00	10.00	300	--	100	411	7.1	13.3	180	52
136	395640076594101	60-11-23	231GBRG	529.00	58.00	900	--	28	553	7.4	--	190	56
137	395638076594301	60-10-31	231GBRG	527.00	50.00	256	--	45	478	7.4	--	230	64
146	395846077040601	68-05-15	231GBRG	540.00	13.00	100	--	13	360	8.2	12.0	140	37
		73-11-20		540.00	--	100	--	--	--	--	--	--	--
		73-11-20		540.00	--	100	--	--	389	8.0	--	190	54
		74-05-20		540.00	--	100	--	--	400	7.3	--	190	53
		74-05-20		540.00	--	100	--	--	--	--	--	--	--
		74-10-18		540.00	--	100	--	--	395	7.3	13.0	180	53
		74-10-18		540.00	--	100	--	--	--	--	--	--	--
		75-05-15		540.00	--	100	--	--	405	7.2	12.0	190	54
		75-05-15		540.00	--	100	--	--	--	--	--	--	--
		75-12-09		540.00	--	100	--	--	242	7.4	12.0	94	22
164	395618077154601	76-11-18	231GBRG	800.00	--	230	--	20	175	6.5	11.5	84	22
182	395104077004801	69-05-20	377ANTM	580.00	27.90	128	--	--	216	7.8	13.8	97	24
185	395054077004501	69-05-13	377KZRS	560.00	--	278	54	--	1060	8.2	13.3	422	100
189	394907077022301	69-05-15	377KZRS	518.00	27.00	424	15	--	498	8.3	13.3	200	52
199	394633077023901	69-05-29	367CNSG	565.00	25.00	160	--	--	299	8.1	--	134	38
224	394346077010201	69-09-18	300MRBG	805.00	31.00	125	23	9.0	65	7.3	11.7	22	3.6
230	395022077002701	25-11-01	364BKMN	555.00	--	18	--	2.0	--	--	12.2	410	100
251	395442077250701	25-10-28	000MTRL	1265.00	--	76	--	--	--	--	--	17	3.9
367	395814077042401	76-11-18	231GBRG	555.00	20.00	250	14	20	370	7.3	10.5	160	45
369	400100077033801	76-11-18	231HDBG	595.00	--	70	22	--	458	6.9	12.0	210	60
377	395316077063901	76-11-17	231DIBS	570.00	34.00	260	34	--	300	6.4	12.0	150	30
			BERKS										
BE 3 S	400926075524401	25-10-01	371ELBK	530.00	0.00	--	--	10	--	--	10.6	230	57
1213	401602076032001	76-05-11	231GBRG	870.00	--	95	--	--	--	5.2	17.0	48	6.6
			CHESTER										
CH 7 S	395610075563901	25-09-25	300WSCKA	--	0.00	--	--	--	--	--	12.2	22	3.4
195	400923075494601	25-10-01	377CCKS	--	--	80	--	40	--	--	12.0	28	4.6
1000	395433075543601	64-05-25	300PRCK	595.00	33.00	210	110	15	120	6.7	--	54	14
1019	395616075555601	64-05-25	300WSCKA	655.00	58.00	102	58	--	108	5.5	--	32	4.0
1061 1/	395740075574301	71-09-07	400BLMR	570.00	12.00	65	50	25	--	5.8	17.0	22	--
1062 1/	395740075573001	71-09-07	400BLMR	615.00	35.00	359	40	80	180	7.2	12.0	66	--
1067	395925075572401	64-05-27	377CCKS	760.00	25.00	120	25	--	73	6.1	--	22	4.8
1201	395701075561601	74-10-23	367CNSG	502.00	--	83	--	--	530	7.4	--	230	80
1364	400241075535201	74-10-24	377CCKS	895.00	--	183	--	--	22	5.0	--	4	.5
1665	394608076031701	74-10-14	300PRCK	290.00	--	83	--	--	350	6.4	--	100	20
1706	394751076012401	74-10-23	300PRCK	421.00	--	60	--	--	130	5.9	--	31	6.0
1724	395056075564001	74-10-14	300PRCK	606.00	--	247	--	--	115	6.2	--	27	5.6
1841	395451075553101	74-10-22	300PRCK	562.00	--	100	--	--	150	6.0	--	47	12
			LANCASTER										
LN 5	400926076184301	63-10-23	367SNNG	380.00	13.00	66	5.0	350	515	7.4	12.0	260	83
		65-05-11		380.00	--	66	--	--	543	7.5	12.0	260	86
6	400925076184701	55-04-18	367SNNG	400.00	30.00	118	7.0	325	462	7.4	11.0	240	78
		65-05-11		400.00	--	118	--	--	523	7.5	12.0	260	85
12 S	400543076295801	63-03-25	371MLBC	320.00	0.00	--	--	--	310	7.1	--	150	48
13 S	400925076184301	71-11-15	367SNNG	380.00	0.00	--	--	--	608	7.6	11.0	286	90
14 S	400605076335801	71-11-15	364BKMN	350.00	0.00	--	--	--	563	7.7	11.0	257	85
15 S	400610076320501	71-11-15	364BKMN	340.00	0.00	--	--	--	623	7.6	11.5	287	95
36 S	400755076364101	63-04-30	231NOXF	450.00	0.00	--	--	--	794	6.7	--	330	76
49 S	395900075590001	25-09-24	000GRGS	--	0.00	--	--	--	--	--	--	9	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											ADAMS				
8.3	--	103	--	148	581	41	--	22	--	--	--	70	--	1106	--
17	18	22	4.2	72	53	24	.0	13	81	--	--	140	30	290	284
33	34	39	5.0	180	76	72	.3	18	99	--	--	780	90	508	509
44	26	29	3.2	232	104	78	.0	20	38	--	--	190	50	560	526
79	56	60	4.0	302	93	173	.3	23	83	--	--	430	110	773	751
12	20	21	1.1	174	23	22	.2	21	18	--	--	30	10	246	248
4.7	4.1	4.7	.6	16	22	5.8	--	6.2	5.8	--	--	22000	--	--	87
11	--	24	--	105	73	22	--	16	27	--	--	140	--	--	--
7.4	10	11	1.0	142	2.5	2.0	.0	20	6.6	--	--	2400	30	150	152
19	--	15	--	248	37	30	--	8.4	84	--	--	80	--	--	--
--	--	18	--	152	17	9.0	--	--	12	--	--	100	0	250	--
12	17	18	1.0	198	27	13	.0	18	1.8	--	--	30	30	237	239
13	42	45	2.5	211	55	18	.3	16	44	--	--	140	20	353	351
16	18	19	.8	216	41	14	.0	18	24	--	--	40	20	300	302
12	8.0	9.1	1.1	134	24	4.0	.0	22	17	--	--	780	0	204	192
--	--	--	--	--	--	--	--	--	--	--	--	1200	21	--	--
13	9.0	10	1.0	184	26	4.2	.2	20	43	--	.03	2100	20	264	263
13	9.3	10	.9	181	27	4.1	.0	22	--	--	.03	420	0	247	243
--	--	--	--	--	--	--	--	--	--	--	--	640	10	--	--
12	9.1	9.7	.6	187	27	3.5	.1	22	21	--	.06	110	0	248	241
--	--	--	--	--	--	--	--	--	--	--	--	190	5	--	--
13	8.6	9.4	.8	190	28	3.5	.0	24	24	.00	.06	10	10	263	250
--	--	--	--	--	--	--	--	--	--	--	--	20	9	--	--
9.5	8.6	9.9	1.3	114	--	--	--	--	2.7	.13	.03	5400	70	--	--
7.0	3.3	4.6	1.3	91	2.9	2.1	.1	19	6.6	.00	.09	--	0	107	116
9.0	4.2	6.2	2.0	88	25	6.9	.0	14	3.4	--	.10	550	70	141	132
42	44	46	2.0	394	13	122	.0	7.1	20	--	.10	30	0	653	546
17	21	22	1.1	211	31	32	.0	11	12	--	.00	40	10	308	282
9.4	3.8	5.6	1.8	124	8.1	9.0	.1	8.9	40	--	--	1600	30	178	180
3.2	1.4	--	--	34	1.1	1.6	.2	8.1	.10	--	--	280	100	55	37
40	--	42	--	326	67	114	--	24	10	--	--	80	--	566	--
1.8	5.3	6.1	.8	28	3.6	1.0	--	15	--	--	--	170	--	52	45
12	14	18	3.8	188	22	7.5	.1	26	18	.00	.09	110	0	237	244
15	20	21	.7	273	25	6.2	.2	20	4.4	.00	.03	20	0	273	287
18	4.5	4.9	.4	128	44	4.4	.1	51	4.8	.01	.03	90	20	215	221
											BERKS				
20	3.0	4.4	1.4	230	16	3.0	--	15	29	--	--	90	--	241	258
7.6	9.0	12	3.1	11	6.2	24	.0	12	29	.03	.03	80	30	108	104
											CHESTER				
3.2	2.8	3.5	.7	8	3.4	3.2	--	7.3	15	--	--	80	--	40	43
3.9	6.2	7.6	1.4	5	4.2	10	--	7.6	25	--	--	140	--	64	65
4.6	3.8	4.0	.2	68	6.2	1.4	.0	15	.20	--	--	1100	270	79	80
5.4	5.6	6.3	.7	8	.6	7.1	.1	7.6	31	--	--	90	30	76	66
--	--	--	--	20	--	6.0	--	--	4.0	--	2.5	700	--	60	--
--	--	--	--	76	--	6.0	--	--	4.0	--	.92	600	--	120	--
2.4	3.4	5.9	2.5	20	.8	3.1	.1	14	12	--	--	100	0	59	53
7.8	4.5	6.6	2.1	177	33	19	.2	9.5	49	.01	.00	10	0	328	292
.6	.8	.8	.0	1	2.5	2.3	.0	5.7	.13	.01	.00	60	0	13	13
13	8.1	16	7.4	26	15	40	.1	13	3.1	.17	.06	60	0	--	133
4.0	4.3	5.2	.9	19	3.3	8.8	.2	10	18	.01	.00	20	10	67	69
3.2	5.5	6.2	.7	22	1.0	5.0	.1	14	18	.01	.12	20	0	79	64
4.2	5.0	5.4	.4	14	1.0	8.4	.1	11	37	.00	.06	20	0	108	86
											LANCASTER				
13	6.0	7.5	1.5	251	16	13	.1	8.7	34	--	--	110	50	301	299
12	9.9	12	1.9	245	23	22	.1	8.2	38	--	--	30	0	316	322
9.8	2.6	4.4	1.8	236	19	7.3	.0	9.9	25	--	.00	130	0	280	270
12	6.0	7.7	1.7	249	24	14	.0	8.7	34	--	--	0	0	310	308
7.3	4.7	7.2	2.5	110	26	9.2	.0	8.5	25	--	--	170	20	195	185
15	--	18	--	270	42	21	--	--	40	--	.00	--	--	--	--
11	--	20	--	242	37	17	--	--	49	--	.06	--	--	--	--
12	--	20	--	268	40	23	--	--	49	--	.03	--	--	--	--
34	14	16	1.5	384	.0	39	.0	17	2.4	--	--	12000	6500	464	392
--	3.7	5.2	1.5	7	2.6	4.0	--	7.4	8.4	--	--	100	--	34	--

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			LANCASTER										
LN 50 S	395700076070001	25-09-23	000GRGS	--	0.00	--	--	--	--	--	--	12	1.7
51 S	395700076070002	25-09-24	377VNTG	510.00	0.00	--	--	--	--	--	--	17	2.6
1/		74-10-09		510.00	--	--	--	--	--	5.2	--	23	--
52 S	395300076090001	25-09-23	300WSCKA	560.00	0.00	--	--	--	--	--	--	69	22
54 S	400200076260002	25-09-23	377HRPR	--	0.00	--	--	--	--	--	--	33	5.5
58	400543076401901	61-02-27	231NOXF	323.00	45.00	250	--	10	251	6.2	--	91	27
85	400607076403901	63-03-04	231NOXF	285.00	28.00	318	--	25	213	6.2	--	72	20
88	400628076411101	63-06-24	231NOXF	290.00	20.00	305	24	60	331	7.0	12.0	140	48
97	400743076352201	64-05-01	231NOXF	480.00	21.00	102	23	40	441	7.5	12.0	230	61
114	400756076360401	63-01-31	231NOXF	480.00	--	85	--	20	156	5.8	16.0	44	9.6
125	400752076372901	63-05-17	231NOXF	405.00	35.00	500	33	400	358	7.7	13.0	160	52
151	400842076351101	63-07-19	231NOXF	570.00	47.00	500	51	440	269	7.6	--	110	30
222	400939076113101	64-05-05	231NOXF	380.00	5.00	135	38	250	478	7.7	12.0	240	84
224	400953076304201	64-05-13	231NOXF	410.00	21.00	74	28	10	219	7.1	--	97	27
227	400938076320101	63-06-07	231NOXF	510.00	80.00	185	180	10	321	7.2	--	140	42
242	400947076331701	63-06-25	231NOXF	565.00	12.00	300	39	110	75	7.4	11.0	26	6.0
264	400942076354901	64-05-01	231NOXF	460.00	21.00	80	22	15	508	7.7	--	230	73
265	400910076365501	61-02-27	231NOXF	465.00	55.00	705	24	450	399	7.3	--	180	60
274	401012076042201	64-05-14	231NOXF	480.00	38.00	140	20	20	305	7.7	--	140	46
301	401005076100401	40-10-05	231NOXF	450.00	60.00	186	170	15	--	--	--	--	--
		40-10-05		450.00	--	186	--	--	584	7.0	--	270	90
		64-05-13		450.00	--	186	--	--	584	7.0	--	270	90
311	401051076314201	64-05-18	231NOXF	410.00	4.00	80	16	7.0	250	7.5	--	110	32
341	401127076062701	64-05-16	231NOXF	460.00	0.00	40	27	10	165	6.9	--	64	19
342	401148076291401	63-05-23	231NOXF	520.00	11.00	17	12	--	317	6.0	12.0	99	20
374	401236076251401	61-03-01	231NOXF	510.00	--	82	20	6.0	166	6.2	--	55	12
392	401202076290901	64-05-01	231NOXF	530.00	7.00	87	14	37	331	6.9	10.0	140	38
405	401251076301901	64-05-15	231NOXF	470.00	13.00	122	27	8.0	402	7.7	--	160	50
442	401301076243201	63-05-24	231NOXF	477.00	25.00	157	31	25	367	7.7	--	170	56
449	401314076255801	64-05-02	231NOXF	510.00	22.00	110	32	6.0	347	7.8	12.0	170	45
464	401432076104001	64-03-26	231NOXF	570.00	45.00	140	50	40	349	6.9	--	170	48
474	401448076114401	64-03-24	231NOXF	478.00	15.00	252	36	110	333	7.3	--	140	43
492	401407076154901	63-06-06	231NOXF	400.00	38.00	100	76	15	449	6.4	--	170	56
511	401412076201201	61-03-01	231GBRG	458.00	--	96	--	--	223	6.5	--	87	23
514	400506076235201	63-04-04	377KZRS	415.00	33.00	260	--	2.0	520	7.8	13.0	240	57
521	400212076231701	63-06-20	367CNSG	380.00	8.00	100	--	9.0	467	7.3	13.0	230	75
		65-05-13		380.00	--	100	--	9.0	481	7.5	12.0	250	80
527	400251076195001	63-10-18	367CNSG	350.00	17.00	180	--	9.0	810	7.1	12.0	420	133
528	400202076190301	63-10-17	367CNSG	350.00	20.00	90	--	15	941	7.1	14.0	430	142
535	400227076154101	63-10-24	367CNSG	380.00	91.00	400	--	4.0	1380	7.2	12.0	630	164
542	400121076233901	63-06-19	367CNSG	400.00	22.00	50	18	5.0	926	7.1	12.0	430	136
544	400104076225801	63-05-24	367CNSG	360.00	48.00	--	--	9.0	758	7.2	13.0	390	128
545	400121076214201	65-05-14	367CNSG	300.00	40.00	90	30	4.0	793	7.5	13.0	370	107
558	400004076274701	63-06-19	367CNSG	340.00	43.00	--	--	5.0	588	7.3	14.0	280	91
559	400011076272501	65-05-10	367CNSG	360.00	48.00	185	--	--	944	7.2	13.0	390	128
561	400003076251201	65-05-14	367CNSG	350.00	30.00	--	--	6.0	416	7.5	13.0	200	68
567	400022076225101	65-05-06	367CNSG	320.00	29.00	38	--	6.0	528	7.5	12.0	280	96
571	400015076205501	63-10-17	367CNSG	300.00	217.00	502	--	33	804	7.2	12.0	410	118
582	400049076160401	63-10-16	367CNSG	320.00	20.00	94	20	7.3	741	7.5	12.0	300	94
		64-04-23		320.00	--	94	--	--	688	7.5	12.0	300	94
584	400044076154901	63-10-18	367CNSG	340.00	35.00	153	12	6.0	742	7.3	12.0	370	117
601	400408076282101	63-04-18	377LDGR	340.00	64.00	425	60	45	732	7.7	13.0	330	66
626	400448076265301	63-04-03	374BSPG	360.00	37.00	63	10	--	525	7.7	12.0	250	60
643	400415076244501	63-03-25	377LDGR	410.00	20.00	265	--	180	410	7.9	12.0	200	45
		65-05-13		410.00	--	265	--	180	760	7.7	12.0	280	59
675	400452076182501	63-10-23	374ZKCR	395.00	29.00	218	--	--	925	7.3	13.0	450	95
		64-04-15		395.00	--	218	--	--	923	7.3	13.0	440	94
676	400438076174501	63-10-15	374ZKCR	390.00	9.00	101	--	--	650	7.5	12.0	350	72
679	400423076163401	63-10-24	374ZKCR	330.00	87.00	228	--	--	523	7.5	12.0	290	60
		64-04-23		330.00	--	228	--	--	545	7.6	12.0	280	59
723	400357076162401	63-10-15	374ZKCR	340.00	46.00	92	5.0	--	815	7.3	12.0	430	83
724	400317076170301	63-10-16	377LDGR	310.00	27.00	289	1.0	30	570	7.5	13.0	300	67
		64-05-14		310.00	--	289	--	20	305	7.7	--	140	46
725	400336076151601	63-10-16	377LDGR	305.00	20.00	145	4.0	10	582	7.5	12.0	310	62
760	400502076265501	65-05-13	374BSPG	350.00	29.00	192	50	6.0	607	7.5	13.0	320	69
784	400550076231301	63-04-03	377VNTG	380.00	17.00	129	--	7.0	545	7.8	12.0	310	58
803	400535076224101	65-05-18	374ZKCR	380.00	19.00	232	23	10	1510	7.1	13.0	580	114
806	400507076214601	63-10-09	377LDGR	350.00	19.00	175	20	12	425	7.9	13.0	210	48
		64-04-16		350.00	--	175	--	12	413	7.7	12.0	190	42
808	400524076204701	63-10-09	377LDGR	360.00	42.00	143	--	9.0	675	7.5	13.0	340	72
		64-04-15		360.00	--	143	--	9.0	670	7.3	14.0	340	72
824	400641076283101	65-05-12	367EPLR	370.00	53.00	--	--	4.0	466	7.4	12.0	230	77

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											LANCASTER				
1.8	2.6	3.6	1.0	11	2.1	5.0	--	5.0	.50	--	--	70	--	19	25
2.5	--	3.0	--	8	4.7	6.0	--	4.2	7.5	--	--	70	--	27	--
--	--	2.8	--	6	9.0	5.0	.1	--	8.4	--	.00	50	30	31	--
3.5	--	3.9	--	57	15	6.0	--	11	8.9	--	--	280	--	100	--
4.8	--	8.9	--	7	5.2	13	--	6.5	41	--	--	5100	--	80	--
5.8	10	11	.8	62	8.2	16	.1	21	42	--	--	50	30	184	162
5.4	9.6	11	1.0	52	14	9.4	.0	19	27	--	--	180	90	149	131
4.4	11	12	1.2	152	22	14	.1	16	1.6	--	--	120	120	192	193
18	.8	.8	.0	200	22	8.6	.0	5.8	42	--	--	0	0	263	257
4.9	9.0	11	1.5	19	21	7.4	.0	16	18	--	--	190	80	107	97
6.0	15	16	.8	140	45	11	.0	17	14	--	--	80	0	238	230
7.8	13	14	1.1	130	24	6.0	.1	21	2.0	--	--	140	30	166	169
7.4	3.5	3.5	.0	215	26	9.8	.0	7.3	44	--	--	0	10	316	288
7.3	4.0	5.2	1.2	94	18	2.9	.0	11	12	--	--	60	0	126	130
8.5	7.2	8.7	1.5	132	12	9.3	.0	17	32	--	--	150	0	208	195
2.7	3.9	5.3	1.4	36	4.0	2.1	.1	16	1.6	--	--	190	10	63	56
11	16	16	.0	198	61	15	.0	12	16	--	--	40	20	317	302
6.2	14	15	1.3	154	67	7.5	.0	26	7.1	--	--	70	30	270	265
5.8	5.8	6.0	.2	142	8.4	5.5	.0	18	26	--	--	90	0	184	186
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	15	15	.0	268	31	23	.0	28	--	--	--	--	--	371	331
12	15	15	.0	268	31	23	.0	28	29	--	--	250	10	371	360
6.6	9.4	11	1.2	116	10	5.3	.0	15	21	--	--	40	0	159	158
3.9	6.9	7.1	.2	74	10	3.2	.0	18	6.2	--	--	40	0	106	104
12	15	19	4.0	18	37	18	.0	12	73	--	--	40	0	222	200
6.2	8.3	11	2.2	36	26	5.5	.0	16	15	--	--	120	70	118	109
9.7	11	14	2.5	100	32	8.4	.0	15	39	--	--	130	0	210	205
9.4	15	15	.0	123	49	17	.0	16	28	--	--	40	10	253	245
8.4	4.5	4.7	.2	135	23	9.4	.0	16	38	--	--	80	0	242	222
13	8.0	8.5	.5	189	14	3.8	.0	13	15	--	--	390	240	211	206
12	2.6	2.6	.0	152	20	7.2	.0	5.2	29	--	--	30	10	200	199
7.3	12	14	1.5	123	20	26	.0	15	9.3	--	--	50	0	205	195
8.1	15	20	5.0	60	39	32	.0	5.9	84	--	--	200	30	303	275
7.1	10	12	2.3	78	13	10	.0	20	23	--	--	100	0	150	147
24	5.6	7.4	1.8	232	28	11	.1	7.7	22	--	--	50	0	298	272
11	3.4	6.4	3.0	210	39	9.2	.1	12	18	--	--	130	0	277	274
11	4.0	7.0	3.0	231	32	12	.1	12	20	--	--	0	0	290	288
21	16	18	2.2	396	84	20	.1	10	17	--	--	140	30	505	498
18	32	36	4.3	347	93	44	1.0	14	62	--	--	60	30	586	581
54	26	60	34	351	167	59	1.0	8.2	212	--	--	230	30	919	899
22	17	23	6.0	250	77	46	.0	13	142	--	--	160	0	601	582
17	7.8	9.3	1.5	286	85	17	.1	13	58	--	--	180	0	494	468
26	27	30	2.7	191	89	70	.0	12	62	--	--	50	0	501	490
12	5.6	7.1	1.5	157	52	24	.2	12	93	--	--	100	0	398	369
17	26	45	19	338	44	62	.0	12	93	--	--	80	0	608	568
7.9	5.5	7.4	1.9	187	12	11	.0	9.8	38	--	--	10	0	260	246
9.4	4.5	5.5	1.0	224	40	14	.0	11	37	--	--	20	0	331	323
29	18	21	3.2	376	77	29	1.0	11	11	--	--	80	0	496	483
16	29	31	2.4	224	32	62	.1	9.6	75	--	--	40	10	459	431
16	14	16	1.5	213	40	36	.0	8.5	84	--	--	20	0	425	399
19	9.1	12	2.4	250	78	26	.2	10	80	--	--	1200	0	481	466
39	18	19	1.0	298	32	34	.0	8.2	49	--	--	70	0	394	394
25	2.4	3.9	1.5	243	26	6.4	.0	9.6	26	--	--	50	30	280	277
22	5.4	6.9	1.5	193	11	16	.0	7.8	22	--	--	0	0	253	226
32	44	47	2.8	233	14	114	.0	8.8	11	--	--	80	0	408	401
51	24	29	5.0	408	98	36	.0	6.3	28	--	--	90	110	554	544
49	22	29	7.0	402	95	35	.0	7.9	36	--	--	40	0	556	544
40	6.2	8.2	2.0	311	64	19	.1	7.9	.50	--	--	250	110	363	365
35	2.6	4.7	2.1	331	23	4.2	.2	9.3	.30	--	--	100	30	305	300
33	3.5	5.5	2.0	330	25	3.3	.0	8.8	1.2	--	--	120	0	299	298
54	19	23	4.1	403	50	27	.0	8.5	39	--	--	100	10	476	483
32	5.0	6.6	1.6	294	46	13	.1	8.2	9.7	--	--	60	10	330	328
5.8	5.8	6.0	.2	142	8.4	5.5	.0	18	--	--	--	--	--	184	160
37	4.3	7.7	3.4	294	22	9.8	.0	7.1	58	--	--	70	130	342	348
36	4.8	9.3	4.5	304	49	11	.1	7.9	29	--	--	0	0	363	361
39	1.4	7.4	6.0	291	28	4.6	.0	8.2	26	--	--	270	20	325	315
72	36	136	100	594	77	102	.0	9.0	128	--	--	10	0	1020	931
22	3.0	4.0	1.0	189	6.0	7.2	.0	7.3	39	--	--	90	130	234	227
21	3.0	7.0	4.0	188	7.6	7.4	.0	6.6	39	--	--	20	0	240	223
39	4.0	6.0	2.0	279	51	16	.1	8.2	44	--	--	80	110	379	374
39	6.7	14	7.0	306	61	18	.0	7.6	35	--	--	20	0	412	397
9.7	4.9	6.4	1.5	224	18	15	.0	7.9	27	--	--	10	10	275	271

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			LANCASTER										
LN 830	400604076282801	65-05-12	367SNNG	370.00	63.00	82	--	5.0	695	7.1	12.0	360	118
833	400642076273301	65-05-10	367SNNG	360.00	29.00	150	--	--	513	7.5	12.0	290	96
842	400616076272701	63-04-17	371MLBC	370.00	63.00	--	--	--	742	7.5	12.0	350	87
		65-05-17		370.00	--	--	--	--	840	7.5	13.0	380	96
865	400638076245401	63-08-18	374BSPG	400.00	27.00	170	--	--	732	7.6	13.0	350	79
		65-05-18		400.00	--	170	--	--	689	7.6	13.0	360	80
926	400626076171001	63-10-03	374ZKCR	400.00	38.00	--	--	--	900	7.3	12.0	390	80
		64-04-16		400.00	--	--	--	--	658	7.3	12.0	280	59
938	400807076260501	63-04-16	367EPLR	420.00	39.00	150	12	30	766	7.4	12.0	340	83
942	400818076241501	63-04-17	367EPLR	400.00	10.00	180	20	--	566	7.2	13.0	270	83
954	400805076195401	63-10-21	367EPLR	380.00	37.00	135	--	--	660	7.3	13.0	350	101
		64-04-17		380.00	--	135	--	--	665	7.3	12.0	340	96
973	400712076282501	63-04-04	367EPLR	390.00	58.00	203	--	6.0	518	7.6	12.0	260	84
		65-05-17		390.00	--	203	--	6.0	485	7.5	13.0	260	82
979	400721076271001	63-06-20	367EPLR	390.00	56.00	180	--	6.0	536	7.4	13.0	270	80
		65-05-06		390.00	--	180	--	6.0	549	7.4	13.0	290	85
987	400737076263101	65-05-13	367EPLR	430.00	37.00	180	--	7.0	565	7.4	12.0	290	88
1028	400726076224201	63-04-12	367EPLR	390.00	44.00	--	--	--	713	7.5	13.0	270	88
1038	400710076203001	63-10-03	367SNNG	380.00	37.00	60	--	7.0	655	7.3	12.0	320	107
		64-04-16		380.00	--	60	--	7.0	612	7.3	13.0	290	101
1050	400716076183201	65-05-14	367EPLR	360.00	25.00	101	30	--	590	7.4	13.0	300	93
1057	400708076150501	65-05-05	367EPLR	310.00	28.00	110	--	--	645	7.4	12.0	340	98
1066	401235076150001	63-10-21	367EPLR	350.00	12.00	42	--	--	500	7.5	12.0	250	69
		64-04-17		350.00	--	42	--	--	523	7.5	--	260	72
1088	400925076205701	65-05-11	367SNNG	410.00	42.00	90	20	36	763	7.1	13.0	350	122
1100	400956076181601	65-05-18	367EPLR	380.00	19.00	132	--	9.0	537	7.5	--	270	82
1101	400925076174301	65-05-11	367SNNG	360.00	6.00	27	--	--	720	7.4	13.0	280	92
1105	400952076164601	63-10-23	367EPLR	410.00	72.00	240	--	--	680	7.5	12.0	310	75
		64-04-23		410.00	--	240	--	--	628	7.5	12.0	310	74
1114	395630075593101	64-05-27	367CNSG	460.00	16.00	70	--	7.0	515	7.4	--	250	85
1125	400600075570001	25-09-15	377CCKS	930.00	--	127	--	3.0	--	--	--	11	2.0
1128	400604076050801	25-10-01	371ELBK	490.00	--	338	--	21	--	--	12.0	370	90
1131	400706076030201	25-09-15	371ELBK	480.00	50.00	250	100	40	--	--	--	300	66
1188	400110076095501	25-09-24	367CNSG	370.00	--	48	--	20	--	--	12.0	270	67
1190	400200076160001	25-09-24	367CNSG	320.00	--	152	--	15	--	--	--	430	107
1192	400135076122601	25-09-24	367CNSG	365.00	--	105	--	20	--	--	--	220	72
1204	395325076130001	25-09-22	300WSCK	880.00	27.00	72	--	5.0	--	--	--	16	2.5
1212	394637076082301	25-09-22	300PRCK	420.00	16.00	63	60	8.0	--	--	--	18	4.6
1215	394600076100001	25-09-22	300PRCK	390.00	30.00	35	--	5.0	--	--	--	190	35
1219	394456076095401	25-09-22	000SRPN	370.00	--	40	--	5.0	--	--	--	43	9.0
1220	394452076081601	25-09-15	000SRPN	410.00	--	70	--	5.0	--	--	--	140	30
1227	400200076260001	25-09-23	377HRPR	--	18.00	209	20	2.0	--	--	12.0	58	10
1238	400300076210001	25-09-23	371CCCG	--	--	126	--	25	--	--	12.0	400	96
1244	400600076250001	25-09-21	371CCCG	400.00	30.00	50	--	15	--	--	--	510	118
1250	400000076210001	25-09-23	367CNSG	360.00	--	64	--	20	--	--	--	190	63
1261	395256076160801	25-09-22	300WSCKA	890.00	--	55	--	12	--	--	--	50	6.9
1263	395010076195401	25-09-22	300WSCKA	500.00	--	104	--	6.0	--	--	--	61	15
1285 1/	401449076032101	73-03-15	231HMCK	690.00	--	363	137	140	--	5.6	--	40	--
1296 1/	401209076005901	75-02-13	231HMCK	460.00	26.00	250	34	110	--	6.9	--	46	--
1297 1/	400942076033501	74-01-30	231HMCK	652.00	149.00	310	266	30	--	7.2	--	140	--
1310 1/	401243076061401	73-03-15	231HMCK	490.00	1.50	450	63	175	--	7.4	--	490	--
1313	401336076040701	76-06-02	231GBRG	440.00	7.00	215	42	22	455	7.6	20.5	170	62
1323	401603076094501	76-05-11	231GBRG	560.00	80.00	142	62	15	--	5.6	12.0	28	8.7
1324	401242076034001	76-05-12	231DIBS	555.00	10.00	122	12	5.0	--	6.1	11.0	96	22
1325	401532076132401	76-06-02	231GBRG	905.00	50.00	133	123	9.0	50	5.0	12.5	6	1.1
1406 1/	400414076244001	74-11-26	377LDGR	410.00	15.00	267	165	490	--	7.7	--	230	--
1407 1/	400506076111601	73-01-02	371ELBK	405.00	15.00	69	69	85	--	7.5	--	200	--
1408 1/	400517076122701	74-03-26	377VNTG	400.00	--	155	72	290	--	7.4	--	200	--
1409 1/	400502076111701	74-03-26	377LDGR	399.00	28.00	350	70	160	--	7.4	--	220	--
1410 1/	400717076323701	74-08-27	364BKMN	380.00	12.00	149	46	60	600	7.1	--	300	105
			LEBANON										
LB 336	401739076181901	59-10-16	371SZCK	539.00	18.00	30	--	--	698	7.7	--	350	82
521	401725076203701	59-10-21	374BSPG	518.00	25.00	55	--	--	587	7.3	--	300	78
598	401752076183001	59-10-16	371MLBC	567.00	28.00	45	--	--	451	7.7	--	210	61
615	401638076185901	59-10-16	231GBRG	505.00	29.00	66	27	--	251	6.7	--	110	38
			LUZERNE										
LU 5 S	412157075485101	30-09-17	112OTSH	600.00	0.00	--	--	--	--	--	--	--	--
			YORK										
YO 4	395856076481601	56-01-06	231NOXF	405.00	17.00	300	--	100	339	7.8	11.1	140	46

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											LANCASTER				
15	13	15	2.3	359	14	17	.0	11	58	--	--	50	0	432	425
12	3.8	5.8	2.0	257	20	9.2	.0	8.2	34	--	--	0	0	305	312
33	5.6	20	14	338	61	14	.7	7.7	14	--	--	30	0	424	404
33	7.2	22	15	368	67	20	.5	9.2	25	--	--	110	0	--	454
37	12	19	7.0	321	80	17	.0	11	13	--	--	130	20	409	414
38	9.8	16	6.1	346	75	17	.4	11	8.0	--	--	20	0	405	416
45	12	44	32	309	60	33	.1	8.8	102	--	--	70	60	568	525
32	7.0	31	24	245	40	24	.2	7.3	71	--	--	20	0	414	385
33	22	28	6.0	306	21	34	.0	8.5	102	--	--	140	0	465	460
15	11	13	2.2	179	105	17	.0	19	17	--	--	230	210	391	358
23	6.5	9.0	2.5	354	56	8.0	.1	15	.20	--	--	240	80	399	387
24	8.0	10	2.0	359	57	8.4	.0	14	.20	--	--	320	0	395	387
11	2.9	4.4	1.5	236	21	9.3	.0	8.5	33	--	--	680	30	282	288
13	4.5	6.7	2.2	247	19	9.6	.0	8.5	34	--	--	90	0	288	295
16	8.4	9.4	1.0	256	7.4	14	.1	8.5	44	--	--	160	0	309	306
18	8.5	9.5	1.0	252	8.0	15	.0	7.9	58	--	--	10	10	323	325
18	5.0	9.0	4.0	269	16	13	--	9.2	49	--	--	0	0	332	334
13	39	42	2.5	227	24	70	.0	10	39	--	--	80	40	424	397
12	4.0	8.2	4.2	338	22	9.8	.0	7.7	28	--	--	480	430	360	362
9.2	3.5	11	7.0	268	25	12	.0	5.8	58	--	--	20	0	379	353
17	4.8	6.8	2.0	271	35	11	.0	7.7	39	--	--	0	0	289	343
22	4.5	6.5	2.0	288	44	16	.0	7.9	49	--	--	20	0	--	385
18	3.8	5.3	1.5	242	9.0	8.0	.1	7.9	37	--	--	830	40	270	275
19	4.0	6.0	2.0	253	21	10	.0	7.0	38	--	--	20	0	303	298
12	9.3	23	14	320	29	28	.0	10	80	--	--	20	20	499	462
16	5.7	7.9	2.2	247	40	12	.1	8.5	36	--	--	80	10	325	324
12	7.2	9.7	2.5	255	32	16	.0	8.7	36	--	--	20	0	335	332
29	4.5	5.5	1.0	276	54	13	.1	11	21	--	--	1780	70	370	346
31	6.0	8.0	2.0	273	55	19	.0	10	30	--	--	70	0	389	362
9.4	3.0	5.0	2.0	182	47	17	.1	6.5	53	--	--	100	0	357	313
1.4	.6	1.2	.6	24	1.6	1.5	--	4.1	.00	--	--	530	--	27	24
36	24	27	3.1	337	66	56	--	12	.80	--	--	120	--	483	454
32	2.0	5.2	3.2	259	31	12	--	13	49	--	--	150	--	332	336
26	--	7.9	--	265	32	19	--	10	5.8	--	--	150	--	311	298
39	--	2.0	--	388	72	58	--	15	1.7	--	--	90	--	547	486
9.4	11	18	7.1	217	30	22	--	7.9	1.0	--	--	100	--	290	267
2.4	--	13	--	30	4.0	7.0	--	4.4	6.2	--	--	4100	--	50	60
1.7	--	6.4	--	24	4.2	4.0	--	11	6.2	--	--	190	--	55	52
24	--	44	--	10	12	105	--	14	177	--	--	940	--	406	415
5.1	--	6.1	--	18	3.0	12	--	13	28	--	--	120	--	87	86
15	24	26	2.1	15	6.4	72	--	9.4	89	--	--	600	--	288	255
8.1	--	5.3	--	56	11	7.1	--	18	--	--	--	1500	--	83	89
40	--	24	--	357	81	40	--	13	22	--	--	190	--	541	492
52	--	76	--	331	56	127	--	14	212	--	--	240	--	889	822
6.9	--	7.2	--	163	18	12	--	11	1.7	--	--	70	--	243	237
7.9	--	21	--	17	5.4	30	--	4.1	31	--	--	380	--	121	117
5.7	--	6.4	--	28	6.2	10	--	9.7	35	--	--	1600	--	104	103
--	--	--	--	21	--	3.0	.0	--	3.3	--	.03	70	--	65	--
--	--	--	--	29	--	8.0	.1	--	8.4	--	.06	70	--	75	--
--	--	6.9	--	89	27	12	.1	--	43	--	.06	140	30	210	--
--	--	--	--	113	355	3.0	.2	--	13	--	.00	280	90	878	--
4.1	28	29	.6	133	110	5.2	.1	17	16	.01	.06	50	0	407	310
1.5	1.7	2.7	1.0	32	11	2.0	.0	12	.89	.01	.09	30	10	51	58
10	2.9	3.0	.1	86	30	2.3	.0	45	1.1	.01	.03	110	10	162	156
.7	.8	1.1	.3	8	1.2	2.5	.1	7.3	.40	.01	.03	730	40	25	20
--	--	--	--	198	--	46	.1	--	28	--	.00	10	--	395	--
--	--	--	--	242	--	83	.1	--	33	--	.37	380	--	542	--
--	--	48	--	248	38	24	.2	--	35	--	.15	20	10	418	--
--	--	92	--	233	112	51	.2	--	49	--	.09	440	150	610	--
8.5	18	19	.5	215	9.0	37	.1	10	49	--	.12	70	20	410	344
											LEBANON				
34	9.0	24	15	328	51	31	1.1	11	14	--	--	410	70	421	410
26	11	13	2.2	291	47	6.2	.1	9.6	30	--	--	80	10	352	354
15	8.3	12	4.1	208	36	7.3	.2	4.9	22	--	--	70	30	292	261
4.5	3.2	4.0	.8	116	20	3.4	.0	18	.20	--	--	480	0	145	146
											LUZERNE				
--	--	--	--	32	13	3.0	--	--	--	--	--	--	--	--	--
											YORK				
6.9	11	12	.5	148	16	9.1	.0	21	26	--	.21	50	10	--	210

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				YORK										
YO 4	1/	395856076481601	73-01-11	231NOXF	405.00	17.00	300	--	100	410	7.1	--	220	69
5	1/	395856076482001	73-01-11	231NOXF	390.00	0.00	310	40	201	340	7.2	--	168	55
9	1/	395918076483101	73-01-09	231NOXF	380.00	2.50	300	152	114	380	7.1	--	170	51
10		395406076472901	71-04-29	377HRPR	600.00	8.00	164	26	10	421	8.0	--	150	35
	1/		73-01-16		600.00	8.00	164	26	10	240	5.8	--	60	11
13		395322076565901	60-11-04	231NOXF	603.00	9.40	62	--	10	139	6.0	13.0	48	9.8
14	S	400637076432201	27-11-02	231DIBS	400.00	0.00	--	--	--	--	--	11.1	150	29
22	S	395414076425301	27-11-01	377HRPR	600.00	0.00	--	--	--	--	--	10.0	25	5.0
23	S 1/	394620076401001	73-01-12	300WSCK	870.00	0.00	--	75	75	180	5.9	--	45	13
24	S 1/	394621076400901	73-01-12	300WSCK	860.00	0.00	--	35	35	125	6.3	--	34	8.0
30		395433076561101	25-11-01	231NOXF	522.00	--	22	--	--	--	--	--	130	27
67		395624076514001	61-02-24	231NOXF	515.00	26.00	100	20	7.0	243	6.3	--	95	26
81		395654076552501	61-02-28	231NOXF	475.00	12.00	60	8.0	--	344	7.8	11.7	150	46
91		395744076521101	61-02-24	231NOXF	559.00	5.00	98	45	2.0	659	6.9	--	270	57
97	1/	395917076482801	73-01-09	231NOXF	380.00	3.00	300	49	201	400	7.7	--	180	56
108		395843076483301	60-11-21	231NOXF	388.00	7.10	300	37	70	253	7.7	12.2	110	33
	1/		73-01-11		388.00	7.10	300	37	70	360	7.1	--	174	59
113		395802076525601	61-02-24	231NOXF	505.00	6.00	19	--	--	--	7.7	7.2	140	45
130	1/	395955076504601	73-01-09	231NOXF	418.00	0.00	311	25	21	440	7.5	--	194	62
135	1/	395958076511901	73-01-09	231NOXF	435.00	28.00	300	24	31	480	7.3	--	218	72
138		395923076535201	61-02-24	231NOXF	442.00	24.00	131	27	15	424	7.7	--	210	59
145		400033076463701	61-02-24	231NOXF	485.00	45.00	300	50	30	270	7.3	--	110	34
150	1/	400015076505401	73-01-09	231NOXF	400.00	7.00	800	22	38	420	7.2	--	171	53
151		400014076511801	61-02-24	231NOXF	480.00	27.00	310	50	13	469	7.5	--	210	64
	1/		73-01-09		480.00	27.00	310	50	13	480	7.3	--	216	67
152	1/	400010076511601	73-01-09	231NOXF	465.00	--	415	22	17	500	7.6	--	239	76
159	1/	400108076444401	73-04-24	231NOXF	522.00	35.00	785	90	85	320	8.2	--	149	48
175		400247076434301	61-02-23	231NOXF	525.00	6.00	46	--	--	402	6.7	--	180	43
179		400205076520301	61-02-28	231GBRG	625.00	--	86	--	--	144	6.1	--	53	15
184		400325076462601	61-02-23	231NOXF	420.00	40.00	96	--	20	306	6.6	--	100	27
199		400502076431001	61-02-22	231NOXF	--	--	141	--	--	190	6.8	--	76	23
203		400607076421401	61-02-21	111ALVM	278.00	18.00	25	24	--	443	6.5	10.0	160	41
207		400643076434001	61-02-23	231DIBS	430.00	23.00	60	12	9.0	594	6.4	10.6	210	49
226		394412076421401	68-03-15	000MBSL	830.00	56.00	380	60	75	387	8.1	--	170	48
227		394424076421601	68-03-15	300WSCK3	882.00	47.00	380	--	38	246	7.2	--	62	13
229		394408076420501	68-03-15	300WSCK3	840.00	34.00	288	--	86	262	7.8	--	96	28
231		394431076414801	68-03-15	300WSCK3	830.00	3.00	194	18	100	176	7.7	12.0	66	18
	1/		73-04-19		830.00	2.50	194	18	100	230	6.5	--	80	22
232		394425076423401	68-03-15	300WSCK3	840.00	3.00	260	110	80	132	7.5	--	50	13
	1/		73-04-19		840.00	3.00	260	110	80	140	6.9	--	54	15
233		394435076424901	68-03-15	300WSCK3	840.00	25.00	435	60	110	155	7.9	--	65	22
	1/		73-04-19		840.00	25.00	435	60	110	150	6.3	--	64	20
237	1/	394341076192001	73-01-12	360PCBM	490.00	9.20	110	60	33	140	7.2	--	19	5.6
238	1/	394317076200301	73-01-12	300PRCK	450.00	44.00	296	90	31	100	6.0	--	28	5.6
239		394328076193301	70-12-08	360PCBM	620.00	64.00	212	22	41	37	7.0	--	11	1.8
	1/		73-01-12		620.00	64.00	212	22	41	35	5.9	--	10	1.6
241		395855076401701	68-03-22	367CNSG	430.00	20.00	411	28	24	311	8.2	11.7	140	41
248		394358076471401	70-12-03	300WSCK3	860.00	--	100	59	15	35	7.1	--	11	2.8
260		394638076571501	71-04-26	377HRPR	758.00	20.00	117	20	33	297	7.4	--	120	33
270		394418076541701	69-10-23	300MRBG	795.00	19.00	140	60	5.0	183	7.5	11.7	71	21
271		394547076550801	69-10-29	300MRBG	800.00	51.00	120	20	6.0	129	7.3	11.0	49	15
274	1/	394753076411201	73-01-16	300WSCK3	800.00	90.00	385	160	17	100	6.2	--	32	11
294		400031076341101	70-06-12	367CNSG	320.00	33.00	130	--	9.0	547	7.5	--	260	90
338		394940076583601	71-04-26	367CNSG	593.00	13.00	40	--	5.5	532	7.9	--	280	92
357		395521076531201	71-04-27	377VNTG	481.00	8.00	220	40	10	673	7.8	--	320	86
361		395213076515701	71-04-26	377LDGR	445.00	14.00	624	--	464	532	7.9	--	250	74
365	1/	395404076511701	73-01-29	377KZRS	520.00	57.00	650	40	13	300	7.9	--	125	32
367		395112076503301	71-04-26	377HRPR	680.00	43.00	100	16	6.0	96	7.3	--	27	6.9
402		394545076442901	70-12-01	300WSCKV	665.00	4.00	140	--	13	166	7.9	--	71	22
419		394608076412301	70-12-03	300WSCK3	910.00	50.00	220	--	30	93	6.7	--	30	7.2
	1/		73-01-12		910.00	50.00	220	--	30	200	7.0	--	91	31
420	1/	394618076401101	73-01-12	300WSCK3	860.00	8.70	189	20	21	210	6.2	--	70	24
422		395223076342601	70-12-02	300WSCK3	655.00	40.00	92	18	7.0	151	6.6	--	54	10
424		394815076331001	70-12-01	300WSCK3	790.00	39.00	120	20	7.0	247	7.5	--	69	12
436		394632076342001	70-12-01	300WSCK3	805.00	13.00	32	21	3.0	107	7.5	--	36	8.2
442		394725076252001	70-12-02	300WSCK2	350.00	15.00	50	18	30	119	7.4	--	30	8.0
463		395146076255401	70-12-02	300WSCK3	665.00	30.00	105	30	5.0	555	7.6	--	120	21
466	1/	394520076353502	73-01-16	300WSCK3	860.00	--	236	60	40	340	5.7	--	75	18
467	1/	394516076353701	73-01-10	300WSCK3	850.00	7.40	130	60	22	400	5.5	--	82	18
468	1/	394520076353501	74-03-07	300WSCK3	860.00	17.00	150	35	40	225	5.5	--	48	--
472		394412076345701	70-06-12	300WSCK1	800.00	16.00	125	50	7.0	104	6.8	--	30	9.0
473		394403076345901	70-06-11	300WSCK1	760.00	5.00	120	47	24	77	6.1	--	21	5.6

MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
											YORK				
12	2.4	4.1	1.7	148	48	26	.6	1.5	27	--	.37	50	0	262	262
7.5	5.5	6.2	.7	119	33	21	.9	1.5	24	--	.31	40	10	210	209
10	--	7.6	--	152	29	12	.1	1.4	16	--	.12	80	30	202	--
15	23	25	2.2	110	45	37	.1	13	9.3	--	.03	10	290	258	234
8.0	--	24	--	18	20	21	.0	6.8	58	--	.18	480	30	160	--
5.7	7.5	8.5	1.0	14	7.1	9.2	.0	20	44	--	--	170	30	--	112
19	9.1	11	1.6	132	46	7.0	--	25	6.2	--	--	40	--	222	208
3.0	4.1	7.0	2.9	12	6.7	7.0	--	2.7	10	--	--	40	--	49	48
3.0	9.8	17	7.2	17	11	18	.0	7.2	41	--	.18	60	30	119	119
3.5	5.2	10	5.2	14	5.0	10	.0	4.6	35	--	.49	50	20	84	85
14	--	9.4	--	90	54	8.0	--	8.4	7.1	--	--	170	--	--	--
7.3	8.3	8.8	.5	56	13	11	.1	28	49	--	--	50	10	--	171
8.8	13	14	.8	168	18	5.5	.0	20	22	--	--	220	60	--	217
30	30	32	2.0	145	51	85	.1	35	30	--	--	450	80	--	392
10	1.7	2.3	.6	148	34	12	.1	1.5	18	--	.15	60	0	207	207
6.7	7.9	8.9	1.0	123	9.4	4.9	.1	22	18	--	--	50	20	--	164
6.5	--	7.1	--	135	28	20	.9	1.8	27	--	.31	60	0	220	--
6.6	8.2	12	4.0	146	31	2.8	.4	8.4	4.9	--	--	80	0	--	183
9.5	--	11	--	135	48	25	.1	1.4	25	--	.21	120	0	248	--
9.5	--	6.7	--	138	55	28	.1	1.3	28	--	.15	60	0	270	--
14	16	17	.5	230	19	7.3	--	18	--	--	--	90	50	--	247
6.9	9.2	11	1.5	124	12	4.7	.0	20	23	--	--	60	0	--	149
9.5	--	6.7	--	112	50	15	.1	1.3	25	--	.21	60	0	216	--
12	16	17	.5	184	26	20	.0	21	46	--	--	240	50	--	296
12	1.5	2.5	1.0	140	34	23	.0	1.7	49	--	.40	100	0	259	259
12	--	12	--	149	48	42	.1	1.5	41	--	.15	310	50	306	--
7.0	.5	1.1	.6	123	13	24	.1	19	3.3	--	.12	90	20	177	177
18	6.3	11	4.5	153	43	11	.1	39	28	--	--	320	390	--	269
3.8	4.2	5.4	1.2	14	23	6.9	.0	10	22	--	--	70	60	--	96
8.8	18	19	1.0	102	41	6.0	.0	26	18	--	--	140	30	--	196
4.4	7.5	9.5	2.0	96	3.6	3.0	.1	21	14	--	--	60	40	--	126
15	13	26	13	56	88	17	.1	20	62	--	--	70	60	--	297
21	19	37	18	82	73	29	.0	9.8	121	--	--	210	150	--	380
11	6.6	7.8	1.2	133	23	22	.0	17	34	--	--	40	0	225	228
7.1	16	18	1.6	20	4.9	20	.0	9.6	66	--	--	140	330	149	149
6.3	6.0	7.1	1.1	63	5.9	15	.0	15	48	--	--	60	0	158	156
5.2	3.4	4.4	1.0	48	6.5	9.5	.0	20	22	--	--	100	100	110	109
6.1	2.8	3.9	1.1	48	7.0	12	.0	14	25	--	.46	1120	70	116	116
4.3	3.2	3.5	.3	36	2.7	5.5	.0	18	24	--	--	80	10	85	89
4.0	3.2	3.7	.5	28	3.0	5.0	.0	27	29	--	.15	800	20	102	102
2.5	2.5	3.4	.9	76	2.2	3.7	.0	13	9.7	--	--	80	0	94	94
3.4	4.2	5.0	.8	67	3.0	4.0	.0	17	14	--	.12	10	0	89	100
1.1	--	22	--	41	2.0	8.0	.0	5.5	23	--	.12	430	20	88	--
3.5	--	12	--	32	2.5	8.0	.0	.8	18	--	.09	60	10	64	--
1.5	2.5	3.0	.5	8	.6	3.3	.1	5.5	8.0	--	.00	110	0	20	28
1.5	--	4.4	--	8	2.0	3.0	.0	4.8	2.8	--	.34	280	10	25	--
10	4.0	7.2	3.2	87	37	8.9	.0	9.2	35	--	.00	0	0	214	191
1.0	2.0	2.4	.4	13	.0	.8	.0	8.9	8.0	--	.03	0	10	25	30
7.8	10	12	1.6	98	37	15	.1	15	1.3	--	.03	1200	60	179	170
4.6	3.9	4.7	.8	67	6.8	5.8	.0	11	20	--	--	--	--	123	87
2.7	4.4	4.9	.5	46	3.5	6.9	.0	14	14	--	--	50	20	98	84
1.0	3.8	8.0	4.2	16	5.0	6.0	.0	5.7	26	--	.34	80	10	71	71
9.2	6.4	8.1	1.7	233	39	14	.1	10	39	--	.00	50	10	351	325
11	6.4	7.6	1.2	264	25	15	.1	12	14	--	.01	70	10	320	307
25	18	19	1.1	252	37	63	.1	8.9	8.4	--	.00	150	10	411	373
15	5.6	9.5	3.9	241	54	20	.1	9.8	.90	--	.00	150	150	320	302
11	--	13	--	124	30	4.0	.0	6.0	18	--	.15	90	20	175	--
2.3	5.7	6.6	.9	15	8.1	7.4	.1	13	4.9	--	.03	70	40	66	57
4.0	2.3	2.8	.5	66	2.8	9.0	.0	13	9.7	--	.01	140	10	104	96
3.0	3.4	11	8.0	12	1.2	8.0	.0	9.9	28	--	.00	10	20	67	79
3.0	3.8	4.3	.5	75	22	5.0	.1	1.0	5.3	--	.40	220	60	110	110
2.5	9.2	15	5.6	48	15	29	.0	3.8	7.5	--	.12	840	240	122	124
7.0	2.8	4.0	1.2	6	9.2	13	.0	4.4	34	--	.01	50	10	93	85
9.6	8.5	25	16	55	8.2	22	.0	2.5	34	--	.00	1600	350	134	142
3.7	4.5	5.5	1.0	10	1.8	5.9	.0	8.9	39	--	.00	420	20	67	78
2.5	8.7	10	1.7	12	5.0	15	.0	9.2	19	--	.03	110	10	72	75
16	30	71	41	33	37	76	.0	4.9	90	--	.09	100	950	336	333
7.3	--	38	--	18	14	38	.0	7.4	93	--	.74	1480	300	230	--
9.0	--	42	--	29	7.3	45	.1	.0	97	--	.25	60	480	234	--
--	--	23	--	12	2.5	22	.1	--	66	--	.00	10	70	188	--
1.8	4.5	6.4	1.9	26	4.1	3.8	.1	15	21	--	.01	1100	50	92	75
1.8	4.2	5.0	.8	15	.2	3.7	.1	14	19	--	.03	250	10	78	57

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
			YORK										
YO 487	394758076290801	70-06-04	300WSCK2	630.00	58.00	95	50	11	240	6.7	--	72	9.0
491	395942076354801	71-04-23	367CNSG	360.00	39.00	250	--	12	481	7.7	--	320	108
503	394332076185501	69-06-18	360PCBM	560.00	45.00	111	70	8.0	111	7.1	--	33	9.0
506	394626076204701	69-05-07	300WSCK1	500.00	68.00	144	50	18	168	7.2	12.0	51	9.0
509	394605076185601	69-05-22	300PRCK	305.00	35.00	75	10	2.0	188	6.8	12.5	55	12
512	394559076165201	69-06-18	300PRCK	270.00	17.00	50	20	9.0	82	7.3	12.0	29	8.5
515	394453076184201	69-06-16	300PRCK	420.00	36.00	70	30	6.0	253	7.9	13.0	100	26
516	394424076184201	69-06-17	300PRCK	510.00	76.00	106	85	4.0	50	6.6	13.0	12	1.7
519	394334076263401	69-10-06	300WSCK2	660.00	32.00	110	45	6.0	331	7.3	--	100	30
521	394500076250001	69-10-08	300WSCK2	600.00	53.00	80	--	5.0	45	6.1	--	9	1.7
523	394404076350501	69-10-16	300WSCK1	825.00	3.00	165	--	6.0	204	6.6	13.0	56	13
534	394623076195801	69-10-29	300WSCK1	460.00	61.00	140	40	7.0	--	7.0	--	40	12
538	395113076231801	70-12-02	300WSCK2	610.00	2.30	90	53	5.0	112	7.2	--	38	7.6
548	400514076531801	68-03-29	231GBRG	645.00	59.00	120	20	--	496	8.1	14.0	240	60
549	400512076531101	68-03-29	231GBRG	610.00	56.00	196	16	--	432	8.2	14.0	210	48
550	400410076542501	68-03-29	231DIBS	490.00	29.00	172	29	--	480	8.1	14.0	170	40
551	400426076540601	68-04-05	231GBRG	605.00	--	25	--	--	291	8.0	14.0	120	25
552	400405076543501	68-04-05	231DIBS	475.00	--	6.0	--	--	373	8.1	16.0	180	37
553	400403076543601	68-04-05	231DIBS	490.00	--	27	--	--	295	7.9	14.0	150	30
554	400333076540801	68-04-05	231DIBS	505.00	3.00	7.0	--	--	341	7.9	14.0	170	46
555	400438076524201	68-04-05	231DIBS	495.00	7.00	145	--	--	407	8.1	12.0	190	36
556	400520076521301	68-04-05	231DIBS	550.00	--	139	10	--	640	8.1	14.0	310	82
557	400552076530101	68-04-23	231GBRG	660.00	12.00	22	--	--	149	7.1	14.0	53	12
558	400600076524801	68-04-25	231GBRG	640.00	3.00	20	--	--	170	6.7	12.0	51	11
563	395222076342601	69-01-14	300WSCK3	780.00	16.00	43	--	13	213	7.2	10.6	80	18
593	394344076213801	70-12-02	300PRCK	480.00	3.00	52	50	12	89	7.2	--	29	7.6
596	394653076311301	69-03-11	300WSCK2	685.00	15.00	18	--	--	217	7.4	--	60	14
		69-07-24		685.00	--	18	--	--	112	7.1	12.0	30	6.2
		69-10-30		685.00	--	18	--	--	95	7.1	13.0	21	3.8
		70-06-23		685.00	--	18	--	--	239	7.4	--	67	16
		70-07-02		685.00	--	18	--	--	169	7.2	12.0	49	11
		70-07-02		685.00	--	18	--	--	219	7.0	11.0	62	14
		70-07-15		685.00	--	18	--	--	185	6.1	11.0	57	13
		70-11-19		685.00	--	18	--	--	100	6.6	--	28	4.8
		71-02-11		685.00	--	18	--	--	539	6.7	--	140	38
602 1/	394541076412401	73-01-30	300WSCKV	865.00	0.00	227	190	96	185	6.0	--	74	16
608	395110076422101	70-12-01	300MRBG	670.00	27.00	111	--	28	233	7.5	--	74	16
612	395204076401801	70-10-09	300WKFD	570.00	41.00	125	50	4.0	305	7.7	--	39	5.7
618	394934076391401	70-12-01	300WSCK4	800.00	53.00	120	15	5.0	22	7.3	--	8	1.6
622	395032076365801	70-12-02	300WSCK3	825.00	27.00	65	--	7.0	102	6.8	--	35	4.8
626	394933076303901	70-12-01	300WSCK3	430.00	29.00	147	--	6.0	215	8.2	--	70	24
628	394555076310401	70-12-01	300WSCK2	535.00	53.00	71	--	1.0	143	7.6	--	50	13
633	395119076462301	71-04-26	367CNSG	465.00	6.00	38	36	100	336	7.9	--	140	52
634	395504076283601	70-12-10	300WSCK3	650.00	62.00	80	--	3.0	68	6.9	--	11	2.0
636	395644076292501	70-12-10	300MRBG	440.00	--	85	--	4.0	73	6.8	--	22	3.2
638	395527076334301	71-04-12	300MRBG	610.00	--	76	23	--	92	6.5	--	24	3.7
640	395827076314501	71-04-12	377ANTM	490.00	--	150	16	3.0	361	7.6	--	110	38
642	395904076311301	71-04-12	377KZRS	380.00	45.00	80	--	7.0	404	8.0	--	180	59
644	395743076372501	71-04-12	377HRPR	635.00	--	110	--	--	316	7.6	--	82	13
646	400040076392501	71-04-02	377CCKS	770.00	112.00	425	25	4.0	67	7.2	--	10	2.7
648	400054076311201	71-04-15	377ANTM	400.00	16.00	58	--	6.0	158	6.7	--	48	10
650	395717076345401	71-04-15	377CCKS	695.00	--	101	--	--	72	6.5	--	23	2.9
652	395607076365501	71-04-15	377CCKS	820.00	69.00	158	40	8.0	34	6.5	--	9	1.3
654	400016076370401	71-04-15	377VNTG	400.00	--	35	--	--	348	7.9	--	150	35
655	395530076494501	25-11-01	377LDGR	450.00	--	48	--	3.0	--	--	11.1	190	54
656	400150076363601	71-04-15	377HLLM	645.00	--	70	--	10	42	7.3	--	14	2.2
658	395905076323901	71-04-20	377HRPR	530.00	--	100	--	--	138	7.2	--	33	10
660	395613076391701	71-04-20	377ANTM	590.00	--	63	--	2.0	224	7.4	--	63	18
662	400142076374001	71-04-20	377CCKS	820.00	--	120	44	3.0	220	4.5	--	67	8.6
664	400209076412201	71-04-20	377ANTM	525.00	40.00	85	--	7.0	229	7.2	--	93	24
666	400049076424001	71-04-20	377VNTG	345.00	17.00	133	30	6.0	673	8.0	--	230	69
668	400106076325901	71-04-22	367CNSG	320.00	--	145	--	--	532	7.7	--	280	90
670	395935076375201	71-04-22	377KZRS	420.00	36.00	75	15	6.0	505	8.2	--	200	70
672	395823076374601	71-04-22	377CCKS	510.00	--	240	20	2.0	174	8.0	--	60	11
674	395649076392301	71-04-27	377HRPR	635.00	40.00	215	--	4.0	246	8.0	--	110	30
676	395954076372101	71-04-23	377KZRS	360.00	--	40	--	--	1110	7.6	--	500	152
678	395320076403301	71-04-23	300MRBG	740.00	38.00	75	--	6.0	191	7.2	--	54	12
680	395504076433201	71-04-23	377HRPR	640.00	26.00	70	30	5.0	348	6.7	--	120	35
682	400100076363501	71-04-26	377CCKS	640.00	--	120	20	2.0	115	5.8	--	29	8.0
684	395919076350301	71-04-26	377CCKS	670.00	--	170	25	3.0	78	6.7	--	29	2.5
688	395541076462801	71-04-26	367CNSG	510.00	32.00	75	10	5.0	673	7.9	--	300	93
691	395003076460601	70-12-03	300MRBG	645.00	26.00	167	46	3.0	105	7.6	--	43	9.8

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											YORK				
12	12	15	3.3	5	1.1	18	.1	8.0	94	--	.01	80	500	182	160
13	10	15	4.6	122	75	13	.3	10	58	--	.00	490	10	293	352
2.5	5.8	6.6	.8	14	1.8	8.2	.0	6.8	34	--	.21	700	90	94	77
7.0	6.8	8.1	1.3	15	3.3	17	.0	8.1	42	--	.00	40	10	122	102
6.0	9.5	12	2.2	9	9.0	14	.0	7.0	55	--	.00	3400	90	146	122
1.9	3.3	4.0	.7	26	6.4	3.3	.0	14	6.2	--	.00	5400	0	68	63
9.5	6.8	8.2	1.4	71	3.7	23	.0	14	33	--	.21	--	--	172	120
2.0	2.4	3.3	.9	5	.7	3.8	.0	14	12	--	.09	1100	200	43	29
6.5	16	18	2.3	42	6.8	22	.2	13	92	--	--	620	30	236	210
1.2	2.9	3.8	.9	7	.4	3.9	.1	6.7	9.3	--	--	50	210	39	22
5.8	13	14	.5	32	.7	19	.0	12	44	--	--	240	10	144	124
2.5	3.1	3.6	.5	31	1.5	4.0	.1	10	--	--	--	430	60	79	--
4.5	3.5	5.3	1.8	10	.2	7.4	.0	7.1	40	--	.00	60	20	79	77
21	17	21	3.7	230	52	12	.2	37	8.4	--	.00	20	0	351	325
21	14	17	3.4	242	22	6.0	.2	37	7.1	--	.00	30	0	285	278
18	33	37	4.3	170	62	25	.3	36	8.9	--	.09	20	0	319	303
15	11	16	5.0	160	15	3.5	.0	42	2.7	--	.31	10	0	204	198
22	7.9	9.0	1.1	186	28	14	.0	37	.10	--	.09	1900	70	239	246
17	6.3	7.2	.9	142	27	7.5	.0	44	.60	--	.00	0	0	210	203
13	6.7	8.5	1.8	161	42	3.0	.1	21	3.0	--	.09	190	10	231	217
24	8.6	14	5.4	190	23	20	.0	7.9	1.6	--	.00	1400	90	230	222
25	13	28	15	322	60	22	.0	22	2.7	--	.00	180	60	404	404
5.5	6.0	7.3	1.3	37	28	3.9	.1	22	4.4	--	.00	450	20	110	103
5.8	7.5	9.2	1.7	21	28	7.7	.1	23	19	--	.21	0	10	130	114
8.5	4.2	7.4	3.2	31	29	11	.0	3.6	38	--	.00	50	10	143	131
2.5	4.4	5.6	1.2	17	5.3	5.3	.0	13	22	--	.01	230	30	73	70
6.0	5.2	21	16	24	14	16	.0	6.2	44	--	1.0	--	--	161	134
3.5	3.2	10	7.2	11	4.4	10	.2	4.9	28	--	--	--	--	85	73
2.9	2.6	9.0	6.4	10	.0	6.7	.0	5.8	26	--	.00	--	--	71	59
6.5	5.8	19	13	21	12	21	.0	5.6	58	--	.00	--	--	174	148
5.2	4.2	19	15	16	5.1	15	.0	5.9	44	--	.00	--	--	112	114
6.5	5.9	19	13	20	7.3	19	.0	5.9	57	--	.00	--	--	158	139
6.0	4.5	12	7.8	18	7.1	17	.0	6.5	43	--	.00	30	40	124	114
3.8	3.3	9.7	6.4	9	1.8	9.8	.0	5.3	25	--	.00	20	10	70	65
12	17	51	34	23	32	70	.0	4.9	80	--	.06	340	10	355	300
8.3	6.6	8.6	2.0	11	14	11	.0	5.0	66	--	6.1	20	0	139	141
8.3	12	14	2.0	19	8.0	29	.0	12	51	--	.03	90	10	155	148
6.0	4.3	5.9	1.6	119	13	14	.1	7.8	49	--	.03	150	20	245	160
1.0	1.0	1.3	.3	11	.0	1.3	.0	5.8	1.7	--	.12	10	0	22	18
5.6	3.5	4.5	1.0	7	.0	7.4	.0	5.6	40	--	.00	10	0	64	71
2.5	16	17	.7	93	16	8.8	1.0	9.3	7.5	--	.00	10	0	139	132
4.3	5.0	7.2	2.2	27	14	9.8	.1	15	18	--	.03	30	60	97	95
3.0	4.6	6.5	1.9	130	21	9.6	.1	10	16	--	.03	390	10	230	183
1.5	7.8	8.7	.9	8	.6	8.5	.0	8.3	10	--	.00	130	40	43	44
3.5	3.3	4.6	1.3	9	.0	6.8	.0	8.1	21	--	.00	60	20	42	52
3.5	6.0	6.9	.9	5	9.4	6.5	.1	6.1	12	--	.03	170	20	59	51
3.2	20	23	3.4	111	27	18	.1	17	19	--	.03	20	30	232	200
6.6	5.0	8.2	3.2	178	27	6.0	.3	12	16	--	.18	400	10	248	223
12	14	23	8.8	3	16	25	.1	8.6	89	--	.01	100	290	--	100
.9	3.5	19	15	28	5.2	3.0	.1	11	.00	--	.09	280	60	55	56
5.6	6.8	10	3.2	10	25	11	.1	16	18	--	.01	210	30	113	101
3.9	4.2	5.4	1.2	6	4.0	4.7	.1	6.8	14	--	.01	260	30	53	45
1.3	3.5	4.2	.7	4	2.0	2.3	.1	5.6	7.1	--	.01	120	10	--	19
15	4.7	6.0	1.3	105	32	14	.0	6.1	25	--	.03	30	0	218	210
13	4.4	6.5	2.1	183	14	3.5	--	8.2	20	--	--	190	--	205	209
2.0	3.0	4.0	1.0	12	5.0	2.4	.0	7.7	2.8	--	.00	310	40	33	30
2.0	13	15	1.8	24	7.7	14	.1	19	25	--	.12	60	0	105	105
4.4	9.4	20	11	35	32	13	.1	12	14	--	.03	20	10	144	131
11	4.9	9.7	4.8	0	53	17	.6	9.2	12	--	.00	100	40	--	121
8.0	5.7	7.6	1.9	68	10	10	.1	12	26	--	.18	10	0	--	132
15	42	49	7.3	236	24	66	.2	9.9	17	--	.00	730	90	390	384
13	7.0	7.8	.8	241	63	11	.1	10	8.0	--	.00	250	20	317	323
6.7	25	29	3.6	157	42	49	.1	15	14	--	1.2	40	0	318	304
8.0	8.7	9.1	.4	91	10	1.9	.2	14	.00	--	.00	2500	130	100	102
7.9	4.7	5.8	1.1	128	11	.8	.3	19	.00	--	.01	60	170	140	138
29	17	33	16	345	95	34	.3	13	155	--	.28	50	10	--	682
5.9	6.5	7.5	1.0	11	28	9.4	.0	8.4	17	--	.00	100	30	110	94
9.0	10	12	1.6	18	56	32	.1	15	26	--	.03	30	10	254	220
2.2	4.7	9.8	5.1	2	20	7.8	.1	6.5	9.3	--	.00	100	20	84	65
5.6	2.8	3.2	.4	28	12	.9	.2	10	.00	--	.00	1200	600	62	50
17	14	18	3.7	209	53	51	.1	18	30	--	.03	60	0	445	413
4.6	25	25	.4	38	9.9	3.2	.0	4.7	6.6	--	.00	8400	80	68	91

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
				YORK										
YO 707		394546076513201	70-10-14	300MRBG	840.00	30.00	101	44	4.0	112	7.7	--	35	11
723		394711076482901	70-12-03	300MRBG	890.00	52.00	90	40	7.0	55	7.2	--	16	4.0
725		395632076491601	71-04-27	377LDGR	445.00	15.00	270	--	120	652	8.0	--	320	80
735		400506076555301	68-04-25	231DIBS	655.00	--	120	18	--	303	7.6	11.0	140	40
737		400511076560301	68-04-25	231DIBS	540.00	7.00	20	--	--	214	7.2	9.0	82	19
738		400540076571201	68-04-25	231DIBS	660.00	7.00	13	--	--	411	7.7	9.0	190	48
740		400423076570301	68-04-25	231DIBS	685.00	11.00	122	24	--	430	7.3	12.0	170	38
742		400328076535701	68-04-25	231DIBS	490.00	--	12	--	--	407	7.4	16.0	180	40
832	1/	395856076500601	73-01-09	231NOXF	505.00	30.00	383	28	70	--	7.8	--	127	41
834		400532076571101	68-07-02	231DIBS	630.00	--	28	--	--	3680	8.0	14.0	--	344
			69-01-24		630.00	--	28	--	--	4080	6.9	13.5	1800	365
835		400529076571101	69-11-11	231DIBS	630.00	--	27	--	--	1200	7.8	11.0	490	105
836		400518076571001	68-07-02	231DIBS	610.00	--	--	--	--	285	--	14.0	--	--
837		400518076571002	68-07-02	231DIBS	610.00	--	--	--	--	287	--	12.0	--	--
848	1/	400037076460901	73-04-24	231NOXF	510.00	35.00	252	52	57	320	7.0	--	149	49
918		400415076503801	76-11-17	231GBRG	595.00	26.00	147	20	8.0	220	6.6	11.0	110	40
958		400453077025201	76-11-16	231GBRG	720.00	--	197	--	5.0	202	5.6	12.5	71	15
985		400341076571001	76-11-16	231GBRG	580.00	18.00	110	15	3.0	330	6.9	11.0	160	42
1015		400220076545901	76-11-16	231DIBS	465.00	--	140	8.0	1.0	260	6.2	12.5	120	25
1023		400043076544701	76-11-16	231GBRG	560.00	62.00	207	29	4.0	230	6.3	12.0	110	38
1040	1/	400025076511201	72-10-04	231NOXF	480.00	20.00	594	50	30	290	8.1	--	133	49
1041	1/	395841076484201	73-01-09	231NOXF	380.00	11.00	230	18	--	460	7.5	--	210	70
1044	1/	400101076463801	73-10-18	231NOXF	440.00	30.00	240	33	35	280	7.4	--	104	--
1045	1/	395807076475101	73-01-11	231NOXF	495.00	55.00	500	68	35	320	7.2	--	140	46
1046	1/	395801076475101	73-01-11	231NOXF	435.00	0.00	410	52	75	290	7.1	--	120	22
1047	1/	395829076484801	75-02-24	231NOXF	395.00	0.00	300	41	70	270	6.8	--	114	--
1048	1/	395818076485701	75-02-24	231NOXF	400.00	4.00	385	52	66	--	7.4	--	102	33
1049		400801076555501	78-06-21	231GBRG	760.00	26.00	3509	--	--	--	10.3	22.7	2800	870

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			ADAMS										
AD 146	395846077040601	231GBRG	100	--	--	--	--	80	--	5	<2	<6	15
			100	--	--	--	--	350	--	6	<2	<5	20
			100	--	--	--	--	58	--	5	0	<2	25
			100	--	--	405	.0	20	2	0	--	--	10
			100	--	--	--	--	5	--	5	0	<2	26
			100	--	--	242	.0	30	0	100	--	--	5
164	395618077154601	231GBRG	230	--	20	175	.0	30	1	0	--	--	0
185	395054077004501	377KZRS	278	54	--	1060	--	--	--	--	--	--	--
224	394346077010201	300MRBG	125	23	9.0	65	--	--	--	--	--	--	--
367	395814077042401	231GBRG	250	14	20	370	.1	10	2	0	--	--	10
369	400100077033801	231HDBG	70	22	--	458	.1	10	0	200	--	--	10
377	395316077063901	231DIBS	260	34	--	300	.0	20	0	0	--	--	0
			BERKS										
BE1213	401602076032001	231GBRG	95	--	--	--	.1	140	0	300	--	--	0
			CHESTER										
CH1061 1/	395740075574301	400BLMR	65	50	25	--	--	--	--	--	--	--	--
1062 1/	395740075573001	400BLMR	359	40	80	180	--	--	--	--	--	--	--
1201	395701075561601	367CNSG	83	--	--	530	--	10	0	0	--	--	0
1364	400241075535201	377CCKS	183	--	--	22	--	60	10	0	--	--	10
1665	394608076031701	300PRCK	83	--	--	350	--	0	<1	100	--	--	0
1706	394751076012401	300PRCK	60	--	--	130	--	10	<1	0	--	--	0
1724	395056075564001	300PRCK	247	--	--	115	--	10	2	0	--	--	0
1841	395451075553101	300PRCK	100	--	--	150	--	10	5	0	--	--	0
			LANCASTER										
LN 6	400925076184701	367SNNG	118	7.0	325	462	--	0	--	--	--	--	--
1313	401336076040701	231GBRG	215	42	22	455	.1	10	0	0	--	--	260
1323	401603076094501	231GBRG	142	62	15	--	.0	10	0	0	--	--	10

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											YORK				
1.8	3.3	4.2	.9	20	6.0	5.9	.0	8.3	12	--	.01	500	90	--	60
1.5	2.2	2.7	.5	24	.5	2.8	.0	7.4	5.3	--	.00	1100	180	43	37
29	8.4	9.7	1.3	259	78	20	.1	7.3	21	--	.01	500	10	394	373
9.8	5.5	7.8	2.3	125	33	4.8	.0	37	11	--	.00	0	10	220	205
8.5	8.0	8.5	.5	58	37	5.5	.0	22	10	--	.00	20	10	159	139
17	7.0	12	5.2	136	60	9.0	.0	23	22	--	.09	0	10	282	258
18	15	19	4.0	89	48	26	.1	45	50	--	.09	110	20	313	289
20	8.0	12	3.5	110	57	14	.0	39	37	--	.00	0	0	298	273
6.0	--	14	--	126	26	10	.1	1.6	15	--	.12	50	10	176	--
--	18	19	.8	72	--	1180	--	--	--	--	--	--	--	--	--
210	50	51	1.3	62	19	1260	.0	13	10	--	--	190	10	2130	1960
55	9.1	9.9	.8	56	20	315	.0	49	20	--	--	--	--	746	601
--	--	--	--	--	--	5.0	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	7.0	--	--	--	--	--	--	--	--	--
6.5	.9	1.9	1.0	127	7.5	8.8	.0	20	27	--	.31	170	20	183	185
3.3	5.3	5.9	.6	137	.4	2.7	.1	20	.31	.00	.28	20	0	133	141
8.0	8.8	9.5	.7	42	35	7.1	.1	27	19	.01	.12	30	0	134	142
14	9.6	11	1.3	181	16	5.9	.1	34	11	.00	.06	0	0	222	224
14	7.1	7.8	.7	116	31	3.6	.1	49	9.3	.01	.03	50	0	190	197
3.0	3.6	4.2	.6	120	1.5	6.5	.1	19	10	.00	.18	10	0	138	142
2.5	.9	1.2	.3	122	11	3.0	.1	13	23	--	.12	0	0	151	152
8.5	--	7.6	--	170	39	25	.0	16	13	--	.25	110	190	250	--
--	--	10	--	110	12	4.5	.1	--	21	--	.09	150	20	158	--
6.1	2.9	8.5	5.6	108	26	12	.1	12	35	--	.15	110	10	188	189
16	8.8	13	3.8	98	28	11	.1	15	24	--	.18	270	10	164	166
--	--	--	--	75	--	6.0	.1	--	11	--	.00	120	--	--	--
4.9	--	23	--	128	18	10	.1	--	19	--	.03	160	110	180	--
140	8000	8050	50	82	4800	9800	.4	1.5	.09	2.4	.03	880	390	23600	23800

CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	TITANIUM, DISSOLVED (UG/L AS TI)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
												ADAMS			
<3	<3	<6	7	<6	5	--	<3	<6	--	<1	270	<6	<4	<3.0	20
<3	<3	<5	4	<5	7	--	<3	<5	--	0	330	<5	9	<3.0	20
<6	<2	<2	4	3	8	--	0	<2	--	0	320	<2	2	2.0	14
2	10	0	0	1	10	--	--	1	0	0	--	--	--	--	10
<3	<2	<2	1	<2	7	--	0	<2	--	0	300	<3	<1	3.0	<5
3	10	7	20	10	0	--	--	2	1	0	310	--	--	--	30
1	<10	0	70	--	0	--	--	0	0	2	60	--	--	--	20
--	--	--	10	50	--	--	--	--	--	--	--	--	--	--	2000
--	--	--	30	10	--	--	--	0	--	--	--	--	--	--	70
1	<10	0	30	12	20	--	--	0	0	0	290	--	--	--	2200
1	<10	0	10	5	10	--	--	0	0	2	310	--	--	--	20
0	20	0	10	3	0	--	--	0	0	0	60	--	--	--	90
												BERKS			
1	<10	9	170	8	0	--	--	28	0	0	90	--	--	--	100
												CHESTER			
--	20	--	0	--	--	--	--	100	--	--	--	--	--	--	50
--	20	--	0	--	--	--	--	100	--	--	--	--	--	--	50
0	0	0	0	1	0	--	--	3	2	0	--	--	--	--	50
0	0	1	200	3	0	--	--	6	0	0	--	--	--	--	30
0	0	0	50	3	0	--	--	2	2	0	--	--	--	--	20
0	0	0	380	2	0	--	--	7	<2	0	--	--	--	--	3800
0	0	0	110	1	0	--	--	3	0	0	--	--	--	--	10
0	0	0	120	2	0	--	--	2	<2	0	--	--	--	--	80
												LANCASTER			
--	--	--	0	--	200	--	--	--	--	--	--	--	--	--	0
1	<10	2	40	3	10	--	--	0	0	0	900	--	--	--	140
1	10	1	30	8	0	--	--	2	0	0	70	--	--	--	3300

Table 15.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02050306 and 02060003--Continued

LOCAL IDENT-I-FIER		STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
				LANCASTER										
LN 1324		401242076034001	231DIBS	122	12	5.0	--	.0	80	0	0	--	--	0
1325		401532076132401	231GBRG	133	123	9.0	50	.0	60	0	0	--	--	10
1410	1/	400717076323701	364BKMN	149	46	60	600	--	10	--	50	--	--	--
				YORK										
YO 4		395856076481601	231NOXF	300	--	100	339	--	0	--	--	--	--	--
	1/			300	--	100	410	--	90	10	50	--	--	40
5	1/	395856076482001	231NOXF	310	40	201	340	--	60	10	80	--	--	20
9	1/	395918076483101	231NOXF	300	152	114	380	--	60	4	50	--	--	10
10	1/	395406076472901	377HRPR	164	26	10	240	--	150	10	--	--	--	0
23 S	1/	394620076401001	300WSCK	--	75	75	180	--	0	--	--	--	--	0
24 S	1/	394621076400901	300WSCK	--	35	35	125	--	90	--	20	--	--	10
97	1/	395917076482801	231NOXF	300	49	201	400	--	0	10	--	--	--	50
108	1/	395843076483301	231NOXF	300	37	70	360	--	120	5	--	--	--	0
130	1/	395955076504601	231NOXF	311	25	21	440	--	60	0	--	--	--	0
135	1/	395958076511901	231NOXF	300	24	31	480	--	90	10	--	--	--	20
150	1/	400015076505401	231NOXF	800	22	38	420	--	10	0	--	--	--	50
151	1/	400014076511801	231NOXF	310	50	13	480	--	90	8	--	--	--	0
152	1/	400010076511601	231NOXF	415	22	17	500	--	10	10	--	--	--	10
159	1/	400108076444401	231NOXF	785	90	85	320	--	90	3	--	--	--	100
231	1/	394431076414801	300WSCK3	194	18	100	230	--	350	10	30	--	--	20
232	1/	394425076423401	300WSCK3	260	110	80	140	--	60	0	100	--	--	10
233	1/	394435076424901	300WSCK3	435	60	110	150	--	100	0	--	--	--	0
237	1/	394341076192001	360PCBM	110	60	33	140	--	120	10	--	--	--	50
238	1/	394317076200301	300PRCK	296	90	31	100	--	10	--	--	--	--	20
239	1/	394328076193301	360PCBM	212	22	41	35	--	60	--	--	--	--	0
241		395855076401701	367CNSG	411	28	24	311	--	--	--	--	--	--	--
260		394638076571501	377HRPR	117	20	33	297	--	--	--	--	--	--	--
274	1/	394753076411201	300WSCK3	385	160	17	100	--	10	--	--	--	--	10
294		400031076341101	367CNSG	130	--	9.0	547	--	--	--	--	--	--	--
338		394940076583601	367CNSG	40	--	5.5	532	--	--	--	--	--	--	--
365	1/	395404076511701	377KZRS	650	40	13	300	--	0	--	--	--	--	0
419	1/	394608076412301	300WSCK3	220	--	30	200	--	90	--	--	--	--	0
420	1/	394618076401101	300WSCK3	189	20	21	210	--	120	--	--	--	--	40
466	1/	394520076353502	300WSCK3	236	60	40	340	--	90	10	--	--	--	10
467	1/	394516076353701	300WSCK3	130	60	22	400	--	370	0	--	--	--	50
468	1/	394520076353501	300WSCK3	150	35	40	225	--	--	--	--	--	--	--
472		394412076345701	300WSCK1	125	50	7.0	104	--	--	--	--	--	--	--
491		395942076354801	367CNSG	250	--	12	481	--	--	--	--	--	--	--
503		394332076185501	360PCBM	111	70	8.0	111	--	--	--	--	--	--	--
506		394626076204701	300WSCK1	144	50	18	168	--	--	--	--	--	--	--
548		400514076531801	231GBRG	120	20	--	496	--	100	--	--	--	--	--
549		400512076531101	231GBRG	196	16	--	432	--	0	--	--	--	--	--
550		400410076542501	231DIBS	172	29	--	480	--	0	--	--	--	--	--
551		400426076540601	231GBRG	25	--	--	291	--	0	--	--	--	--	--
552		400405076543501	231DIBS	6.0	--	--	373	--	0	--	--	--	--	--
553		400403076543601	231DIBS	27	--	--	295	--	0	--	--	--	--	--
554		400333076540801	231DIBS	7.0	--	--	341	--	100	--	--	--	--	--
555		400438076524201	231DIBS	145	--	--	407	--	300	--	--	--	--	--
556		400520076521301	231DIBS	139	10	--	640	--	0	--	--	--	--	--
557		400552076530101	231GBRG	22	--	--	149	--	--	--	--	--	--	--
563		395222076342601	300WSCK3	43	--	13	213	--	--	--	--	--	--	--
596		394653076311301	300WSCK2	18	--	--	100	--	--	--	--	--	--	--
				18	--	--	539	--	--	--	--	--	--	--
602	1/	394541076412401	300WSCKV	227	190	96	185	--	95	0	50	--	--	0
612		395204076401801	300WKFD	125	50	4.0	305	--	--	--	--	--	--	--
633		395119076462301	367CNSG	38	36	100	336	--	--	--	--	--	--	--
638		395527076334301	300MRBG	76	23	--	92	--	--	--	--	--	--	--
644		395743076372501	377HRPR	110	--	--	316	--	--	--	--	--	--	--
658		395905076323901	377HRPR	100	--	--	138	--	--	--	--	--	--	--
668		400106076325901	367CNSG	145	--	--	532	--	--	--	--	--	--	--
678		395320076403301	300MRBG	75	--	6.0	191	--	--	--	--	--	--	--
680		395504076433201	377HRPR	70	30	5.0	348	--	--	--	--	--	--	--
688		395541076462801	367CNSG	75	10	5.0	673	--	--	--	--	--	--	--
707		394546076513201	300MRBG	101	44	4.0	112	--	--	--	--	--	--	--
740		400423076570301	231DIBS	122	24	--	430	--	--	--	--	--	--	--
832	1/	395856076500601	231NOXF	383	28	70	--	--	12	--	--	--	--	--
834		400532076571101	231DIBS	28	--	--	4080	--	--	--	--	--	--	--
848	1/	400037076460901	231NOXF	252	52	57	320	--	120	--	--	--	--	40
918		400415076503801	231GBRG	147	20	8.0	220	.0	0	2	100	--	--	10
958		400453077025201	231GBRG	197	--	5.0	202	.0	30	1	100	--	--	20
985		400341076571001	231GBRG	110	15	3.0	330	.1	0	2	100	--	--	60
1015		400220076545901	231DIBS	140	8.0	1.0	260	.0	20	0	0	--	--	0
1023		400043076544701	231GBRG	207	29	4.0	230	.1	20	1	100	--	--	10
1040	1/	400025076511201	231NOXF	594	50	30	290	--	92	0	--	--	--	20
1041	1/	395841076484201	231NOXF	230	18	--	460	--	160	10	--	--	--	0
1045	1/	395807076475101	231NOXF	500	68	35	320	--	120	0	--	--	--	10
1046	1/	395801076475101	231NOXF	410	52	75	290	--	0	--	--	--	--	0
1049		400801076555501	231GBRG	3509	--	--	--	.0	70	2	500	--	--	2700

CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	TIN, DIS-SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI-TANIUM, DIS-SOLVED (UG/L AS TI)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
												LANCASTER			
1	<10	1	20	15	0	--	--	0	0	0	80	--	--	--	190
1	<10	1	160	14	0	--	--	10	0	0	50	--	--	--	690
3	5	10	20	0	50	.5	--	5	--	1	--	--	--	--	450
												YORK			
--	--	--	0	--	400	--	--	--	--	--	--	--	--	--	0
3	0	10	110	10	500	.5	--	0	--	0	--	--	--	--	100
3	0	60	120	50	--	.5	--	70	--	0	--	--	--	--	100
3	4	40	50	50	--	.5	--	10	--	0	--	--	--	--	120
3	0	50	10	50	--	.5	--	0	--	2	--	--	--	--	140
3	0	60	10	0	--	.5	--	20	--	0	--	--	--	--	80
3	20	20	30	0	--	.5	--	20	--	1	--	--	--	--	80
3	20	50	40	50	--	.5	--	30	--	0	--	--	--	--	100
3	0	10	130	50	--	.0	--	30	--	1	--	--	--	--	20
3	30	60	60	50	--	.5	--	10	--	1	--	--	--	--	70
3	5	30	60	50	--	.5	--	0	--	0	--	--	--	--	100
3	20	20	50	5	--	.5	--	30	--	1	--	--	--	--	130
3	5	0	80	0	--	.5	--	70	--	0	--	--	--	--	40
3	5	120	150	50	--	.5	--	100	--	2	--	--	--	--	170
3	3	0	30	20	250	.5	--	10	--	0	--	--	--	--	20
3	10	50	40	10	250	.5	--	140	--	0	--	--	--	--	110
3	10	0	10	20	250	.5	--	80	--	0	--	--	--	--	0
3	0	20	0	50	--	.5	--	60	--	0	--	--	--	--	50
3	0	10	100	5	--	.5	--	30	--	2	--	--	--	--	140
3	0	80	120	10	--	.5	--	100	--	1	--	--	--	--	110
3	0	30	110	50	--	.5	--	40	--	--	--	--	--	--	120
--	--	--	0	20	--	--	--	30	--	--	--	--	--	--	0
0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	30
3	0	10	20	0	--	.5	--	10	--	--	--	--	--	--	70
--	--	--	0	0	--	--	--	0	--	--	--	--	--	--	330
0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	140
3	10	0	110	10	0	.5	--	10	--	0	--	--	--	--	50
0	0	30	40	0	--	.0	--	60	--	--	--	--	--	--	110
3	0	0	10	20	--	.5	--	0	--	2	--	--	--	--	2450
3	10	20	30	50	--	.5	--	30	--	2	--	--	--	--	250
0	0	30	20	0	0	.0	--	40	--	1	--	--	0	.0	70
3	20	--	20	50	--	--	--	30	--	--	--	--	--	--	130
--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	0
0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	140
--	--	--	60	40	--	--	--	30	--	--	--	--	--	--	170
--	--	--	20	20	--	--	--	10	--	--	--	--	--	--	30
--	--	--	50	0	--	--	--	0	--	--	--	--	--	--	600
--	--	--	0	0	--	--	--	0	--	--	--	--	--	--	20
--	--	--	150	0	--	--	--	0	--	--	--	--	--	--	110
--	--	--	20	0	--	--	--	0	--	--	--	--	--	--	100
--	--	--	70	0	--	--	--	0	--	--	--	--	--	--	5500
--	--	--	70	0	--	--	--	0	--	--	--	--	--	--	50
--	--	--	10	0	--	--	--	0	--	--	--	--	--	--	330
--	--	--	10	0	--	--	--	0	--	--	--	--	--	--	20
--	--	--	120	0	--	--	--	0	--	--	--	--	--	--	3200
--	--	--	0	40	--	--	--	0	--	--	--	--	--	--	920
--	--	--	0	30	--	--	--	0	--	--	--	--	--	--	350
--	--	--	30	0	--	--	--	0	--	--	--	--	--	--	70
--	--	--	10	20	--	--	--	0	--	--	--	--	--	--	10
3	20	10	120	30	0	.5	50	30	--	0	--	--	--	--	100
--	--	--	20	30	--	--	--	10	--	--	--	--	--	--	20
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	20
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	10
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	260
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	20
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	1500
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	30
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	50
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	100
0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	20
--	--	--	0	40	--	--	--	--	--	--	--	--	--	--	500
3	20	50	50	50	--	.5	--	30	--	0	--	--	--	--	20
--	--	--	200	20	--	--	--	40	--	--	--	--	--	--	840
3	10	60	30	50	--	.5	--	100	--	0	--	--	--	--	370
1	<10	0	10	4	0	--	--	0	0	0	70	--	--	--	30
1	<10	0	150	11	0	--	--	0	0	0	60	--	--	--	80
1	<10	0	10	5	30	--	--	0	0	0	120	--	--	--	10
1	<10	3	30	7	0	--	--	2	0	6	50	--	--	--	110
0	<10	0	30	5	0	--	--	0	0	0	70	--	--	--	30
5	10	10	0	5	100	.1	--	50	--	0	--	--	--	--	40
3	30	60	70	0	--	.5	--	70	--	0	--	--	--	--	50
3	0	50	130	5	--	.5	--	60	--	0	--	--	--	--	200
3	0	0	110	50	--	.5	--	30	--	1	--	--	--	--	730
0	6	0	10	15	3300	--	--	11	0	0	9800	--	--	--	130

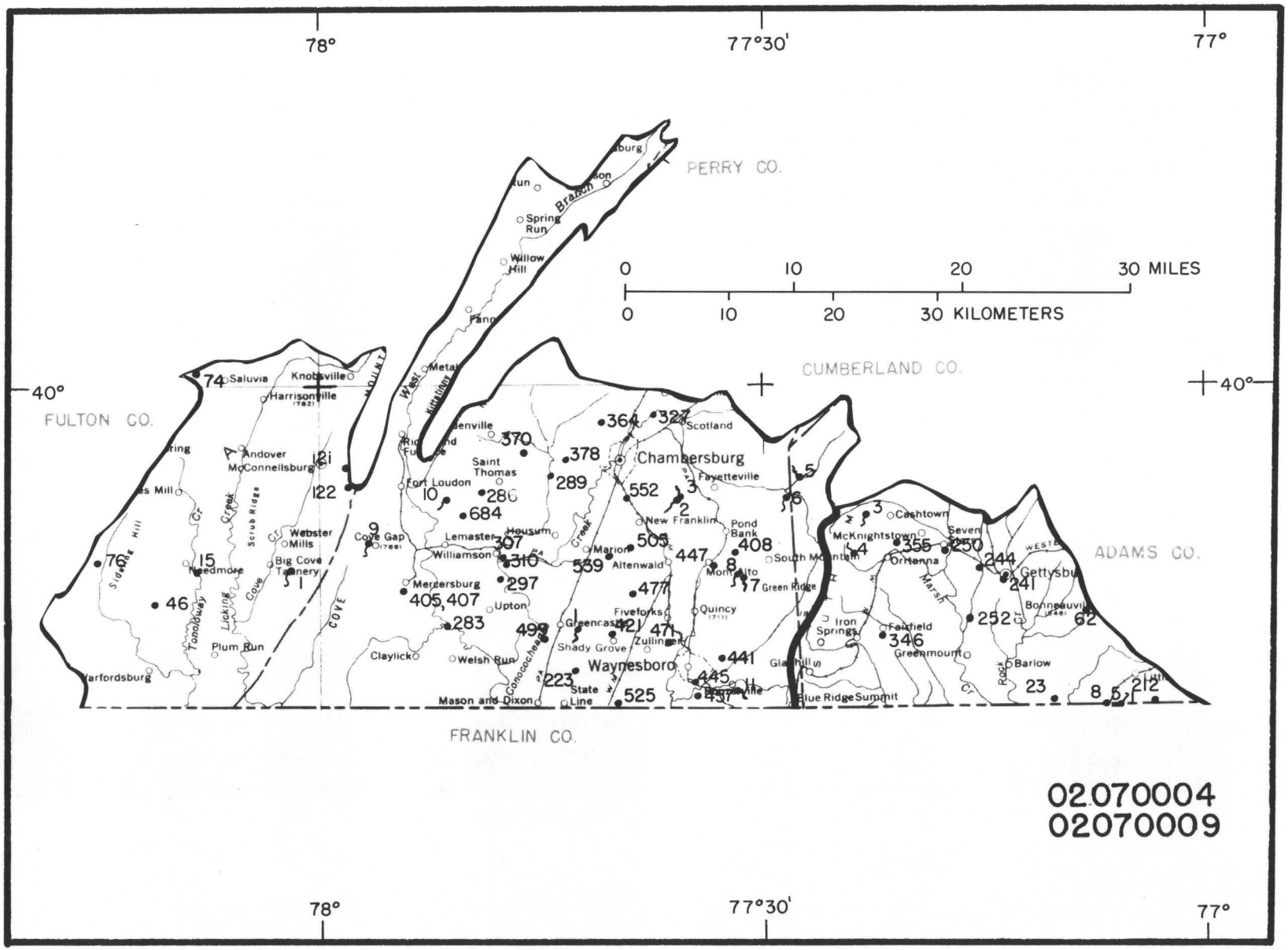

Figure 16.--Site location map for hydrologic units 02070004 and 02070009.

TABLE 16.--HYDROLOGIC UNITS 02070004 and 02070009
(follows on next page)

Table 16.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02070004 and 02070009

LOCAL IDENT-I-FIER			STATION NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
					ADAMS										
AD 1	S		394321077062901	60-11-03	231NOXF	540.00	0.00	--	--	--	93	5.7	12.2	34	5.7
3	S		395328077231601	25-10-30	000MTRL	820.00	0.00	--	--	--	--	--	10.6	35	9.5
4	S		395125077240101	25-10-27	000MTRL	1120.00	0.00	--	--	--	--	--	11.1	21	4.9
5	S		395521077275001	25-10-28	377WVRN	975.00	0.00	--	--	--	--	--	10.0	11	3.2
5			394319077064701	60-11-03	231NOXF	560.00	18.00	54	--	--	1040	7.6	12.8	480	102
8			394329077071201	60-11-03	231NOXF	560.00	--	153	--	--	329	7.2	13.9	160	42
23			394346077105301	60-11-03	231NOXF	528.00	12.00	65	--	--	235	6.4	13.9	87	22
62			394819077082601	61-02-28	231GBRG	600.00	10.00	97	14	--	535	7.2	--	260	66
212			394335077040901	69-08-29	377HRPR	705.00	36.00	75	12	--	152	6.3	--	41	8.6
241			394955077140501	25-10-30	231GBRG	520.00	30.00	400	--	200	--	--	12.2	260	73
244			395033077154301	25-10-30	231GBRG	574.00	--	80	--	5.0	--	--	11.1	300	76
250			395130077175501	25-10-29	231DIBS	560.00	--	36	--	4.0	--	--	12.2	240	53
252		1/	394802077162201	70-10-28	231GBRG	500.00	1.50	500	53	290	--	7.8	--	300	--
346			394704077221601	76-11-17	231GBRG	600.00	13.50	57	12	--	330	6.6	10.5	160	57
355			395153077211101	76-11-17	231GBRG	675.00	25.00	35	17	--	450	6.8	12.0	240	64
					FRANKLIN										
FR 1	S		394731077430101	71-11-10	367RCKR	620.00	0.00	--	--	560	647	7.8	11.5	280	95
2	S		395412077360201	25-10-30	371ELBK	720.00	0.00	--	--	1880	--	--	9.0	230	61
				71-11-10		720.00	--	--	--	1680	527	7.8	11.0	250	68
3	S		395417077355801	71-11-10	371ELBK	710.00	0.00	--	--	890	477	7.9	11.0	220	51
6	S		395420077284001	25-10-28	000MTRL	940.00	0.00	--	--	<10	--	--	11.0	12	2.2
7	S		395011077314301	25-10-29	377HRPR	1120.00	0.00	--	--	<10	--	--	7.8	14	2.9
8	S		395015077315501	25-10-29	377ANTM	1090.00	0.00	--	--	10	--	--	9.4	11	1.6
9	S		395200077564501	25-10-29	361JUNT	830.00	0.00	--	--	8.0	--	--	10.0	14	3.3
10	S		395415077513301	25-10-29	361MRBG	800.00	0.00	--	--	--	--	--	12.2	20	2.5
22	S	*	395021077513201	79-08-08	367PBGS	510.00	--	--	--	--	695	6.8	12.0	350	95
223			394530077425901	57-09-24	367RCKR	690.00	18.00	130	25	165	547	7.7	13.3	270	94
283			394748077513501	25-10-29	364BKMN	495.00	15.00	18	--	10	--	--	--	220	66
286			395439077490901	25-10-29	364BKMN	605.00	76.00	86	65	2.0	--	--	11.0	250	72
289			395532077451001	25-10-29	361MRBG	638.00	--	55	--	2.0	--	--	11.0	140	28
297			395012077480001	69-06-16	361MRBG	565.00	--	105	--	--	--	--	--	140	38
307			395116077475101	69-06-17	364CBBG	490.00	16.00	18	--	--	--	--	--	170	44
310			395056077473401	69-06-18	361MRBG	525.00	--	300	--	55	--	--	--	140	38
327			395840077373901	25-10-31	367RCKR	655.00	34.00	40	--	5.0	--	--	10.0	340	108
334		*	394917077421001	75-03-31	367RCKR	610.00	--	341	--	--	--	7.5	--	330	95
342		*	394912077420401	75-03-26	367RCKR	650.00	--	372	--	--	--	7.4	--	336	89
351		*	394920077420201	75-06-02	367RCKR	650.00	--	--	--	--	--	7.2	--	360	76
364			395819077411101	79-05-02	361MRBGL	747.00	--	270	--	--	520	--	12.0	--	--
370			395628077464701	78-10-03	361MRBG	670.00	--	70	--	--	550	7.1	13.0	270	82
378			395624077433201	78-10-16	361MRBG	661.00	--	100	--	--	500	7.0	12.5	230	50
388		*	395246077344001	75-11-24	371ELBK	840.00	--	90	--	--	--	7.0	--	456	99
389		*	395158077350801	73-07-24	371ELBK	878.00	--	90	--	--	--	7.5	--	336	72
405		1/	394934077543301	71-05-20	367RCKR	565.00	17.00	295	90	275	--	7.5	--	214	--
407		1/	394931077543101	71-05-20	367RCKR	565.00	28.00	295	44	415	--	7.2	--	222	--
408			395128077320401	78-04-21	377TMSN	1044.00	--	298	--	--	295	7.6	12.0	160	34
421			394713077402901	78-07-03	371ZLGR	812.00	--	127	--	--	--	--	--	320	110
441			394559077330601	78-09-20	377WSBR	722.00	--	197	--	--	--	6.9	12.7	420	110
445		1/	394442077345501	66-09-26	371ELBK	682.00	30.00	155	47	100	--	7.2	--	330	89
447		1/	395049077333601	74-11-15	377TMSN	850.00	55.00	325	105	134	--	7.4	--	114	--
457			394401077345101	78-09-20	371ELBK	650.00	--	307	--	--	--	6.8	13.6	290	64
459		*	394338077352801	77-11-23	371ELBK	579.00	--	110	--	--	--	7.3	--	277	71
471			394646077363801	78-09-20	371ZLGR	745.00	--	165	--	--	--	6.6	11.6	320	100
477			394920077391101	78-09-19	371SDGV	805.00	--	277	--	--	--	6.7	13.0	340	110
499			394703077450501	78-10-16	361MRBG	587.00	--	265	--	--	1010	6.7	13.0	540	160
505			395144077391501	78-09-19	367SNNG	765.00	--	100	--	--	--	6.4	12.1	410	150
511		*	395159077410201	71-03-03	367RCKR	641.00	2.00	105	--	35	--	7.3	--	349	--
525			394343077400501	78-09-20	367SNNG	630.00	--	152	--	--	--	6.6	12.0	340	120
539			395118077403701	78-09-19	367RCKR	695.00	--	292	--	--	--	6.6	11.5	310	110
552			395422077392701	78-09-19	367PBGS	650.00	--	245	--	--	--	7.0	12.4	410	85
684			395330077503101	79-06-04	367PBGS	638.00	--	82	--	--	455	--	12.0	240	50
753		*	395411077383201	79-08-08	371SDGV	745.00	--	80	--	--	650	6.4	12.0	320	110
767		*	400710077472101	79-08-07	367PBGS	860.00	--	420	--	--	645	--	14.0	330	73
804		*	401109077393901	79-08-07	361MRBG	1030.00	--	98	--	--	225	--	11.5	83	22
					FULTON										
FU 1	S		395036078020501	33-10-13	364BKMN	700.00	0.00	--	--	500	--	--	12.0	192	65
15			395031078083001	33-10-02	344MRCL	590.00	--	59	--	4.0	--	--	--	141	30
46			394853078111801	33-10-02	341CMNGR	860.00	22.00	65	22	6.0	--	--	--	62	5.0
74			400059078090501	33-10-04	337POCN	2190.00	--	175	--	20	--	--	--	16	2.0
76			395101078151001	33-10-04	341CSKL	1000.00	20.00	55	--	--	--	--	--	62	14
121		1/	395558077582301	74-08-14	364BKMN	1260.00	47.00	314	50	80	--	7.3	--	170	--
122		1/	395458077580901	72-08-07	361RDVL	1340.00	23.00	300	--	140	--	7.5	--	100	--

MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
											ADAMS				
4.9	4.0	5.5	1.5	14	.8	5.2	.0	10	28	--	--	40	30	67	67
2.7	7.7	9.4	1.7	34	8.2	2.6	--	14	14	--	--	60	--	84	77
2.2	2.8	4.2	1.4	16	4.6	2.1	--	17	6.6	--	--	80	--	50	50
.7	.7	1.5	.8	7	3.9	1.0	--	4.8	--	--	--	80	--	17	19
55	26	27	1.2	212	120	104	.0	22	124	--	--	1200	30	683	660
13	9.1	9.9	.8	156	20	11	.1	25	15	--	--	40	0	213	213
7.8	7.4	8.8	1.4	42	30	11	.1	15	36	--	--	60	20	156	151
22	15	16	1.0	246	45	16	.0	22	20	--	--	30	40	337	328
4.8	12	13	1.2	18	3.9	26	.2	7.8	12	--	--	250	0	115	85
19	--	14	--	190	82	27	--	24	14	--	--	80	--	377	--
27	--	14	--	277	25	57	--	16	1.2	--	--	140	--	371	--
27	--	1.7	--	155	59	13	--	36	50	--	--	170	--	333	--
--	--	15	--	136	200	4.5	.1	--	2.0	--	--	150	130	483	--
4.3	7.6	10	2.4	162	14	9.9	.1	14	12	.00	.03	100	30	198	201
19	7.1	8.1	1.0	252	28	7.1	.1	14	14	.00	.06	80	0	270	279
											FRANKLIN				
9.4	32	--	--	291	39	29	--	--	30	--	.03	--	--	--	--
18	3.5	--	--	244	15	4.5	--	13	6.6	--	--	120	--	--	242
19	16	--	--	275	21	7.5	--	--	30	--	.00	--	--	--	--
22	14	--	--	240	21	8.0	--	--	22	--	.09	--	--	--	--
1.7	.9	2.2	1.3	10	3.6	1.7	--	5.8	--	--	--	30	--	--	22
1.7	.6	1.7	1.1	10	7.4	.6	--	5.2	--	--	--	30	--	--	24
1.6	2.2	4.0	1.8	12	5.1	.8	--	4.8	--	--	--	30	--	--	24
1.4	1.5	2.3	.8	12	4.6	.5	--	7.3	1.5	--	--	70	--	--	27
3.3	3.5	4.9	1.4	24	3.6	1.5	--	12	6.2	--	--	110	--	--	46
27	3.9	5.6	1.7	310	15	11	.1	7.2	36	--	.00	0	5	401	350
8.1	--	11	--	295	26	4.4	.1	10	20	--	--	40	0	325	--
14	--	4.6	--	228	23	4.3	--	12	19	--	--	60	--	260	--
16	3.5	4.3	.8	248	27	2.0	--	11	18	--	--	230	--	270	273
17	8.5	11	2.4	152	30	2.9	--	18	--	--	--	170	--	174	182
12	8.3	9.7	1.4	168	21	4.1	.1	19	.40	--	--	--	--	--	187
14	25	31	5.5	165	44	28	.1	4.7	12	--	--	--	--	--	261
11	8.9	11	2.0	158	30	1.5	.1	17	.90	--	--	--	--	--	187
18	--	6.1	--	362	27	18	--	28	8.4	--	--	80	--	424	--
23	--	--	--	258	44	14	--	--	9.3	--	--	260	ND	297	--
28	--	--	--	272	17	7.1	ND	--	8.9	--	--	180	ND	405	--
41	--	--	--	315	7.2	4.9	.2	--	4.2	--	--	110	20	410	--
--	--	--	--	99	48	59	.2	--	.18	--	.09	--	--	264	--
15	9.8	11	1.1	230	90	8.0	.2	22	.04	.22	.00	770	330	349	344
26	13	15	2.1	200	52	23	.2	28	1.2	.03	.00	20	780	319	295
51	65	73	8.0	567	83	51	--	--	179	--	--	19	--	589	--
30	50	73	23	154	22	178	--	--	59	--	--	150	--	486	--
--	--	3.7	--	205	14	10	.1	--	31	--	--	100	0	324	--
--	--	3.0	--	213	9.0	11	.1	--	35	--	--	200	0	330	--
19	1.8	2.7	.9	180	8.3	1.8	.0	6.6	4.4	.00	.00	0	10	160	166
10	3.5	5.6	2.1	280	59	12	.1	10	8.9	.01	.00	50	10	398	354
36	7.3	20	13	350	58	31	.3	9.9	49	.04	.00	70	10	483	488
26	--	27	--	378	42	20	--	12	7.1	--	--	300	--	442	--
--	--	4.4	--	111	12	4.5	.1	--	15	--	.28	20	10	186	--
31	1.7	2.8	1.1	260	34	5.5	.5	8.4	35	.01	.00	10	0	306	310
24	--	--	--	236	33	26	.3	--	12	--	--	60	<50	395	--
18	3.5	5.5	2.0	320	25	20	.2	11	49	.04	.00	50	0	382	387
16	2.8	4.9	2.1	320	32	15	.2	9.5	39	.03	.00	90	0	373	385
35	13	14	1.1	160	420	13	.2	22	4.0	.14	.00	19000	1600	789	770
7.9	5.7	7.2	1.5	340	31	21	.1	11	75	.06	.00	500	0	519	472
--	--	--	--	98	--	16	.6	--	3.1	.01	--	100	<50	482	--
9.1	5.3	8.2	2.9	300	36	16	.2	8.6	31	.03	.00	5300	20	367	384
8.9	3.7	5.1	1.4	310	29	14	.1	8.5	39	.01	.00	20	0	367	367
36	3.5	4.9	1.4	340	88	8.4	1.6	7.8	4.8	.01	.00	0	0	467	448
28	1.3	1.9	.6	260	21	2.7	.0	7.3	11	--	.00	50	10	246	251
9.8	3.1	4.8	1.7	270	15	12	.2	9.5	41	--	.00	10	6	373	335
37	1.0	1.7	.7	340	9.3	4.2	.1	7.9	18	--	.00	0	3	339	319
6.7	5.6	6.4	.8	69	20	6.7	.1	29	.40	--	.18	2200	320	138	128
											FULTON				
--	--	3.0	--	214	12	2.0	--	--	11	--	--	--	--	214	--
--	--	10	--	116	60	3.0	--	--	.30	--	--	--	--	--	--
--	--	4.0	--	76	4.0	3.0	--	--	.00	--	--	--	--	--	--
--	--	2.0	--	20	2.0	1.0	--	--	.20	--	--	--	--	--	--
--	--	7.0	--	18	7.0	8.0	--	--	53	--	--	--	--	--	--
--	--	--	--	126	--	9.0	.1	--	1.3	--	.09	110	210	370	--
--	--	7.1	--	85	18	19	.1	--	1.8	--	.31	140	250	158	--

Table 16.--Chemical analyses of ground water, major ions and trace elements, from selected wells and springs for hydrologic unit 02070004 and 02070009--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT)	FLOW RATE, INSTAN-TANEOUS (GPM)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	BROMIDE DIS-SOLVED (MG/L AS BR)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BISMUTH DIS-SOLVED (UG/L AS BI)	BORON, DIS-SOLVED (UG/L AS B)
			ADAMS										
AD 346	394704077221601	231GBRG	57	12	--	330	.0	20	0	0	--	--	10
355	395153077211101	231GBRG	35	17	--	450	.0	0	1	300	--	--	20
			FRANKLIN										
FR 223	394530077425901	367RCKR	130	25	165	547	--	--	--	--	--	--	--
370	395628077464701	361MRBG	70	--	--	550	.1	10	0	0	--	--	20
378	395624077433201	361MRBG	100	--	--	500	.1	30	1	0	--	--	30
408	395128077320401	377TMSN	298	--	--	295	.1	0	1	0	--	--	0
421	394713077402901	371ZLGR	127	--	--	--	.1	60	3	100	--	--	2
441	394559077330601	377WSBR	197	--	--	--	.1	40	0	100	--	--	0
445 1/	394442077345501	371ELBK	155	47	100	--	--	600	--	--	--	--	--
457	394401077345101	371ELBK	307	--	--	--	.0	20	0	200	--	--	20
471	394646077363801	371ZLGR	165	--	--	--	.0	40	0	0	--	--	0
477	394920077391101	371SDGV	277	--	--	--	.0	30	1	100	--	--	0
499	394703077450501	361MRBG	265	--	--	1010	.0	160	1	0	--	--	30
505	395144077391501	367SNNG	100	--	--	--	.1	30	0	0	--	--	0
525	394343077400501	367SNNG	152	--	--	--	.0	50	1	0	--	--	2
539	395118077403701	367RCKR	292	--	--	--	.0	20	0	0	--	--	7
552	395422077392701	367PBGS	245	--	--	--	.0	40	4	100	--	--	2

CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	TIN, DIS-SOLVED (UG/L AS SN) (A.A.S. DIRECT)	TI-TANIUM, DIS-SOLVED (UG/L AS TI)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
												ADAMS			
1	<10	0	10	4	0	--	--	0	0	0	120	--	--	--	10
1	<10	0	20	7	10	--	--	1	0	0	190	--	--	--	240
												FRANKLIN			
--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	40
3	0	1	1	4	30	--	--	4	0	1	650	--	--	--	0
0	0	3	3	0	--	--	--	2	0	0	260	--	--	--	50
0	0	0	2	3	0	--	--	2	0	0	30	--	--	--	10
0	2	0	1	3	0	--	--	0	0	0	380	--	--	--	10
2	1	1	6	5	0	--	--	0	0	0	630	--	--	--	10
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1	0	1	4	8	0	--	--	2	0	0	120	--	--	--	710
2	2	1	4	3	0	--	--	1	0	0	230	--	--	--	10
2	0	1	1	4	0	--	--	2	0	0	630	--	--	--	70
0	0	78	9	0	--	--	--	200	0	0	980	--	--	--	790
2	0	1	3	3	0	--	--	0	0	0	260	--	--	--	70
2	3	1	17	52	0	--	--	2	0	0	430	--	--	--	150
2	0	1	4	5	0	--	--	2	0	0	210	--	--	--	20
2	0	0	2	2	0	--	--	4	0	0	44000	--	--	--	0