ABBREVIATIONS USED – Major Ions (data source: U.S. Environmental Protection Agency)

WELL AND SAMPLE IDENTIFIERS (file last modified September 2007)

LOCAL – Local name used to identify well or spring. First two letters represent site type (MS - monitor spring, MW - monitor well, SP - spring, WE - well), the following alphanumeric combinations consist of the station identifier.
STAID – Station Identifier. Consists of variable alphanumeric combinations utilized by the originating agency to identify well or spring.
SOURCE – U.S. Environmental Protection Agency (USEPA). Samples collected for a wide range of water-quality, water resources, and other hydrogeologic investigations.
DATES – Date the sample was collected.
LAT – Latitude of well, in degrees, minutes, and seconds, in format DDMMSS.
LONG – Longitude of well, in degrees, minutes, and seconds, in format DDMMSS.
DLAT – Latitude of well, in degrees and decimal minutes and seconds, in format DD.MMSS.
DLONG – Longitude of well, in degrees and decimal minutes and seconds, in format DD.MMSS.
CNTYC – County where well is located. For USEPA, the counties are Adams, Allegheny, Bedford, Berks, Blair, Bradford, Bucks, Butler, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Cumberland, Dauphin, Delaware, Elk, Erie, Forest, Franklin, Indiana, Jefferson, Lackawanna, Lancaster, Lawrence, Lebanon, Lehigh, Luzerne, Lycoming, McKean, Mercer, Mifflin, Monroe, Montgomery, Montour, Northampton, Northumberland, Philadelphia, Pike, Potter, Schuylkill, Sullivan, Susquehanna, Tioga, Venango, Warren, Washington, Wayne, Westmoreland, York.
BASINS – The PADEP basin (numbers range from 1-35) the well is located in. For USEPA, wells are located in Basins 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35.
GEO1 – General geologic (bedrock) unit. For USEPA, the bedrock units are acoal (anthracite coal bearing), bcoal (bituminous coal bearing), dkcrys (dark crystalline), ltcrys (light crystalline), pocarb (Precambrian through Ordovician carbonates), qscong (quartzite, sandstone, and conglomerate), redsed (red sedimentary rocks), schist (schist), sdcarb (Silurian and Devonian carbonates), shale (shale), trised (Triassic age sedimentary rocks), uncon (unconsolidated sand and gravel, age unknown), ice (glacial sediments).
GEOLITH – Generated numeric code that relates to GEO1. acoal = 1, bcoal = 2, dkcrys = 3, ltcrys = 4, pocarb = 5, qscong = 6, redsed = 7, schist = 8, sdcarb = 9, shale = 10, trised = 11, uncon = 12, ice = 13.

PARAMETER CODES (Analyte sampled)

P00076 – Turbidity, unfiltered (unf), in nephelometric turbidity units (NTU)
P00500 – Residue on evaporation, unf, dried at 105 degrees Celsius (°C)
P00515 – Residue on evaporation, filtered (fil), dried at 105 °C
P00525 – Residue, fixed, fil, in milligrams per liter (mg/L)
P00530 – Solids, suspended (Total Suspended Solids), mg/L

P00545 – Solids, settleable, unf, in milliliters per liter (mL/L)
P00546 – Solids, settleable, mL/L
P00910 – Calcium, unf, mg/L as calcium carbonate ($CACO_3$)
P00915 – Calcium, fil, mg/L
P00916 – Calcium, unf, mg/L
P00920 – Magnesium unf, mg/L, as $CACO_3$
P00925 – Magnesium, fil, mg/L
P00927 – Magnesium, unf, mg/L
P00929 – Sodium, unf, mg/L
P00930 – Sodium, fil, mg/L
P00937 – Potassium, unf, mg/L
P00940 – Chloride, fil, mg/L
P00945 – Sulfate, fil, mg/L
P00946 – Sulfate, unf, mg/L
P00951 – Fluoride, unf, mg/L
P00955 – Silica, fil, mg/L
P00956 – Silica, unf, mg/L
P01022 – Boron, unf, in micrograms per liter (µg/L)
P01045 – Iron, unf, µg/L
P01046 – Iron, fil, µg/L
P01047 – Iron (II), fil, µg/L
P01055 – Manganese, unf, µg/L
P01056 – Manganese, fil, µg/L
P70300 – Residue, fil, dried at 180 °C
P70304 – Total dissolved solids (conductivity meter), mg/L
P71870 – Bromide, fil, mg/L
P74010 – Iron, unf, mg/L as iron
P82079 – Turbidity, unf (laboratory), NTU

ANALYTES WITH NATIONAL DRINKING WATER STANDARDS and CURRENT (2006) U.S. Environmental Protection Agency Secondary Maximum Contaminant Level (SMCL)

Analyte	SMCL	Units
P00940 – Chloride	250	mg/L
P00945 – Sulfate	250	mg/L
P00946 – Sulfate	250	mg/L
P00951 – Fluoride	2	mg/L
P01045 – Iron	0.3	mg/L
P01046 – Iron	.3	mg/L
P01047 – Iron (II)	.3	mg/L
P01055 – Manganese	.05	mg/L
P01056 – Manganese	.05	mg/L
P74010 – Iron	.3	mg/L

ANALYTES WITH NATIONAL DRINKING WATER STANDARDS and CURRENT (2006) U.S. Environmental Protection Agency Maximum Contaminant Level (MCL)

Analyte	MCL	Units
P00076 – Turbidity	5	NTU
P00951 – Fluoride	4	mg/L
P70304 – Total dissolved solids	500	mg/L
P82079 – Turbidity	5	NTU