

ABBREVIATIONS USED – Radiochemicals (data source: U.S. Geological Survey)

WELL AND SAMPLE IDENTIFIERS (file last modified September 2007)

- LOCAL** – Local number used to identify well. First two letters represent the county (AD = Adams County), the following digits represent incremental numbers.
- STAID** – Station identifier. For the U.S. Geological Survey wells, it is 15 digits long and is comprised of the latitude and longitude plus a two digit sequence number.
- SOURCE** – U.S. Geological Survey (USGS). 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 USGS, the counties are Adams, Allegheny, Armstrong, Bedford, Berks, Blair, Bucks, Butler, Cambria, Carbon, Centre, Chester, Clarion, Clearfield, Columbia, Crawford, Cumberland, Dauphin, Erie, Fayette, Franklin, Fulton, Greene, Huntingdon, Indiana, Jefferson, Juniata, Lancaster, Lebanon, Lehigh, Luzerne, McKean, Mifflin, Monroe, Montgomery, Montour, Northampton, Northumberland, Perry, Philadelphia, Pike, Schuylkill, Snyder, Somerset, Venango, Warren, Washington, Wayne, Westmoreland, York.
- BASINS** – The PADEP basin (numbers range from 1-35) the well is located in. For USGS, wells are located in Basins 1, 4, 5, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35.
- GEO1** – General geologic unit. For USGS, the units are acoal (anthracite coal bearing), bcoal (bituminous coal bearing), dkcryst (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).
- GEO1ITH** – Generated numeric code that relates to GEO1. acoal = 1, bcoal = 2, dkcryst = 3, ltcrys = 4, pocarb = 5, qscong = 6, redsed = 7, schist = 8, sdcarb = 9, shale = 10, trised = 11, uncon = 12.

PARAMETER CODES (Analyte sampled)

- P01515 – Gross alpha, filtered (fil), natural uranium curve, Pico curies per liter (pCi/L)
- P07000 – Tritium, unfiltered (unf), pCi/L
- P09503 – Radium-226, fil, pCi/L
- P09510 – Alpha-emitting isotopes of radium, fil, planchet count, pCi/L
- P09511 – Radium-226, fil, radon method, pCi/L
- P22603 – Uranium-238, fil, pCi/L

P22610 – Uranium-234, fil, pCi/L
 P22703 – Uranium, natural, micrograms per Liter (µg/L)
 P28011 – Uranium, natural, unf, (µg/L)
 P50833 – Radium-224, fil, pCi/L
 P63014 – Gross alpha radioactivity, 72 hour count, unf, Th-230 curve, pCi/L
 P63015 – Gross beta radioactivity, 72 count, unf, Cs-137 curve, pCi/L
 P63016 – Gross alpha radioactivity, 30 day recount, unf, Th-230 curve, pCi/L
 P63017 – Gross beta radioactivity, 30 day recount, unf, Cs-137 curve, pCi/L
 P75038 – Potassium-40, unf, pCi/L
 P76002 – Radon-222 2-sigma combined uncertainty, unf, pCi/L
 P80030 – Gross alpha, fil, natural uranium curve, µg/L
 P80050 – Gross beta, fil, Sr-90/Y-90 curve, 4 millirems per year (4 mrem/yr)
 P81366 – Radium-228, fil, pCi/L
 P82068 – Potassium-40, fil, pCi/L
 P82303 – Radon-222, unf, pCi/L
 P99327 – Radon-222, unf, pCi/L
 P226228 – Radium-226 + Radium 228
 P228226 – Radium-226 (radon method) + Radium 228

RADON – Analyte P82303 or P99327 exceeded 300 pCi/L

**ANALYTES WITH NATIONAL DRINKING WATER STANDARDS and CURRENT (2004)
U.S. Environmental Protection Agency Maximum Contaminant Level (MCL)**

| <u>Analyte</u> | <u>MCL</u> | <u>Units</u> |
|---------------------------------------------------|------------|--------------------|
| P01515 Gross alpha, fil | 15 | pCi/L |
| P09503 + P81366 Radium-226, fil + Radium-228, fil | 5 | pCi/L |
| P09510 Alpha-emitting isotopes of Radium, fil | 15 | pCi/L |
| P09511 + P81366 Radium-226, fil + Radium-228, fil | 5 | pCi/L |
| P22603 Uranium-238, fil | 30 | µg/L |
| P22610 Uranium-234, fil | 30 | µg/L |
| P22703 Uranium, natural | 30 | µg/L |
| P80030 Gross alpha, fil | 15 | pCi/L |
| P80050 Gross beta, fil | 4 | millirems per year |
| P82303 Radon-222, unf | 300 | pCi/L* |
| P99327 Radon-222, unf | 300 | pCi/L* |

*Alternative Maximum Contaminant Level 4,000 pCi/L