



**ABBREVIATIONS USED – Minor and trace elements** (data source: Pennsylvania Department of Environmental Protection North-Central Regional Office)

**WELL AND SAMPLE IDENTIFIERS** (file last modified September 2007)

- LOCAL – Local number used to identify well or spring. For North-Central Regional Office (NCRO) it consists of the owner name and number.
- STAID – Station identifier. For NCRO it consists of NorthCen plus a sequential number.
- SOURCE – Pennsylvania Department of Environmental Protection North-Central Regional Office. Samples collected for permitting of public supply wells.
- DATES – Date the sample was collected.
- LAT – Latitude of well in degrees, minutes, and seconds, in format DDMMSS, is not available per request of NCRO.
- LONG – Longitude of well in degrees, minutes, and seconds, in format DDMMSS, is not available per request of NCRO.
- DLAT – Latitude of well in degrees and decimal minutes and seconds, in format DD.MMSS, is not available per request of NCRO.
- DLONG – Longitude of well in degrees and decimal minutes and seconds, in format DD.MMSS, is not available per request of NCRO.
- CNTYC – County where well is located. For NCRO the counties are Bradford, Cameron, Centre, Clearfield, Clinton, Columbia, Juniata, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, Union.
- BASINS – The PADEP basin (numbers range from 1-35) the well is located in. For NCRO, wells are located in Basins 1, 2, 3, 4, 5, 6, 8, 26, 33, 34.
- GEO1 – General geologic (bedrock) unit. For NCRO, the bedrock units are bcoal (bituminous coal), pocarb (Precambrian through Ordovician carbonates), qscong (quartzite, sandstone, and conglomerate), redsed (red sedimentary rocks), sdcarb (Silurian and Devonian carbonates), shale (shale), ice (glacial sediments).
- GEOLITH – Generated numeric code that relates to GEO1. bcoal = 2, pocarb = 5, qscong = 6, redsed = 7, sdcarb = 9, shale = 10, ice = 13.

**PARAMETER CODES (Analyte sampled)**

- ALUMINUM – Aluminum, unfiltered (unf), in milligrams per liter (mg/L)
- ANTIMONY – Antimony, unf, mg/L
- ARSENIC – Arsenic, unf, mg/L
- BARIUM – Barium, unf, mg/L
- BERYLLIUM – Beryllium, unf, mg/L
- CADMIUM – Cadmium, unf, mg/L
- CHROMIUM – Chromium, unf, mg/L
- COPPER – Copper, unf, mg/L
- CYANIDE – Cyanide (free), unf, mg/L
- LEAD – Lead, unf, mg/L

MERCURY – Mercury (inorganic), unf, mg/L  
 NICKEL – Nickel, unf, mg/L  
 SELENIUM – Selenium, unf, mg/L  
 SILVER – Silver, unf, mg/L  
 THALLIUM – Thallium, unf, mg/L  
 ZINC – Zinc, unf, mg/L

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

<u>Analyte</u>	<u>MCL</u>	<u>Units</u>
Antimony	0.006	mg/L
Arsenic	.01	mg/L
Barium	2	mg/L
Beryllium	.004	mg/L
Cadmium	.005	mg/L
Chromium	.1	mg/L
Copper	1.3	mg/L
Cyanide (free)	.2	mg/L
Lead	.015	mg/L
Mercury (inorganic)	.002	mg/L
Selenium	.05	mg/L
Thallium	.002	mg/L

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

<u>Analyte</u>	<u>SMCL</u>	<u>Units</u>
Aluminum	0.05 – 0.2	mg/L
Copper	1	mg/L
Silver	.1	mg/L
Zinc	5	mg/L