



**ABBREVIATIONS USED – Minor and Trace Elements** (data source: Pennsylvania Department of Environmental Protection South-Central Regional Office, Waste Management Program)

**WELL AND SAMPLE IDENTIFIERS** (file last modified November 2006)

- LOCAL – Local number. For South-Central Regional Office, it is alphanumeric.
- STAID – Station identifier (same as LOCAL). For South-Central Regional Office, it is alphanumeric.
- SOURCE – Pennsylvania Department of Environmental Protection South-Central Regional Office (SCRO). Samples collected from upgradient monitor wells at land-fill sites.
- 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 SCRO, the counties are Bedford, Berks, Blair, Dauphin, Franklin, Lancaster, Lebanon, Mifflin.
- BASINS – The PADEP basin (numbers range from 1-35) the well is located in. For SCRO, wells are located in Basins 16, 23, 25, 26.
- GEO1 – General geologic (bedrock) unit. For SCRO, the bedrock units are bcoal (bituminous coal), pocarb (Precambrian through Ordovician carbonates), sdcarb (Silurian and Devonian carbonates), shale (shale).
- GEOLITH – Generated numeric code that relates to GEO1. bcoal = 2, pocarb = 5, sdcarb = 9, shale = 10.

**PARAMETER CODES (Analyte sampled)**

- Paluminum\_diss – Aluminum, filtered (fil), in micrograms per liter ( $\mu\text{g/L}$ )
- Paluminum\_tot – Aluminum, unfiltered (unf),  $\mu\text{g/L}$
- Pantimony\_tot – Antimony, unf,  $\mu\text{g/L}$
- Parsenic\_diss – Arsenic, fil,  $\mu\text{g/L}$
- Parsenic\_tot – Arsenic, unf,  $\mu\text{g/L}$
- Pbarium\_diss – Barium, fil,  $\mu\text{g/L}$
- Pberyllium\_tot – Beryllium, unf,  $\mu\text{g/L}$
- Pcadmium\_diss – Cadmium, fil,  $\mu\text{g/L}$
- Pcadmium\_tot – Cadmium, unf,  $\mu\text{g/L}$
- Pchromium\_diss – Chromium, fil,  $\mu\text{g/L}$
- Pchromium\_tot – Chromium, unf,  $\mu\text{g/L}$
- Pcobalt\_tot – Cobalt, unf,  $\mu\text{g/L}$
- Pcopper\_diss – Copper, fil,  $\mu\text{g/L}$
- Pcopper\_tot – Copper, unf,  $\mu\text{g/L}$
- Plead\_diss – Lead, fil,  $\mu\text{g/L}$
- Plead\_tot – Lead, unf,  $\mu\text{g/L}$
- Pmercury\_diss – Mercury, fil,  $\mu\text{g/L}$

Pmercury\_tot – Mercury, unf, µg/L  
 Pnickel\_diss – Nickel, fil, µg/L  
 Pnickel\_tot – Nickel, unf, µg/L  
 Pselenium\_diss – Selenium, fil, µg/L  
 Pselenium\_tot – Selenium, unf, µg/L  
 Psilver\_diss – Silver, fil, µg/L  
 Psilver\_tot – Silver, unf, µg/L  
 Pvanadium\_tot – Vanadium, unf, µg/L  
 Pthallium\_diss – Thallium, fil, µg/L  
 Pthallium\_tot – Thallium, unf, µg/L  
 Pzinc\_diss – Zinc, fil, µg/L  
 Pzinc\_tot – Zinc, unf, µg/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>
Antimony	6	µg/L
Arsenic	10	µg/L
Barium	2000	µg/L
Beryllium	4	µg/L
Cadmium	5	µg/L
Chromium	100	µg/L
Copper	1300	µg/L
Lead	15	µg/L
Mercury	2	µg/L
Selenium	50	µg/L
Thallium	2	µg/L

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

<u>Analyte</u>	<u>SMCL</u>	<u>Units</u>
Aluminum	50 – 200	µg/L
Copper	1000	µg/L
Silver	100	µg/L
Zinc	5000	µg/L