

**Table 2.1. Significant Chemicals and Radionuclides of Potential Concern at PGDP<sup>1,2</sup>**

Inorganic Chemicals		Organic Compounds			Radionuclides		
Analyte	CAS Number	Analyte	CAS Number	Analyte	CAS Number	Analyte	CAS Number
Aluminum	7429-90-5	Acenaphthene	83-32-9	Total Dioxins/Furans	1746-01-6	Americium-241	14596-10-2
Antimony	7440-36-0	Acenaphthylene	208-96-8	2,3,7,8 HpCDD	37871-00-4	Cesium-137+D	10045-97-3
Arsenic	7440-38-2	Acrylonitrile	107-13-1	2,3,7,8 HpCDF	38998-75-3	Neptunium-237+D	13994-20-2
Barium	7440-39-3	Anthracene	120-12-7	2,3,7,8 HxCDD	34465-46-8	Plutonium-238	13981-16-3
Beryllium	7440-41-7	Benzene	71-43-2	2,3,7,8 HxCDF	55684-94-1	Plutonium-239	15117-48-3
Boron	7440-42-8	Bromodichloromethane	75-27-4	OCDD	3268-87-9	Plutonium-240	14119-33-6
Cadmium	7440-43-9	Carbazole	86-74-8	OCDF	39001-02-0	Technetium-99	14133-76-7
Chromium III	16065-83-1	Carbon tetrachloride	56-23-5	2,3,7,8 PeCDD	36088-22-9	Thorium-230	14269-63-7
Chromium VI	18540-29-9	Chloroform	67-66-3	1,2,3,7,8 PeCDF	57117-41-6	Uranium-234	13966-29-5
Total Chromium	7440-47-3	1,1-Dichloroethene	75-35-4	2,3,4,7,8 PeCDF	57117-31-4	Uranium-235+D	15117-96-1
Cobalt	7440-48-4	1,2-Dichloroethane	107-06-2	2,3,7,8 TCDD	1746-01-6	Uranium-238+D	7440-61-1
Copper	7440-50-8	1,2-Dichloroethene (mixed)	540-59-0	2,3,7,8 TCDF	5127-31-9		
Fluoride	16984-48-8	trans-1,2-Dichloroethene	156-60-5	Total Carcinogenic PAHs	50-32-8		
Iron	7439-89-6	cis-1,2-Dichloroethene	156-59-2	Benz(a)anthracene	56-55-3		
Lead	7439-92-1	Dieldrin	60-57-1	Benzo(a)pyrene	50-32-8		
Manganese	7439-96-5	Ethylbenzene	100-41-4	Benzo(b)fluoranthene	205-99-2		
Mercury	7439-97-6	Fluoranthene	206-44-0	Benzo(k)fluoranthene	207-08-9		
Molybdenum	7439-98-7	Fluorene	86-73-7	Chrysene	218-01-9		
Nickel	7440-02-0	Hexachlorobenzene	118-74-1	Dibenz(a,h)anthracene	53-70-3		
Selenium	7782-49-2	Naphthalene	91-20-3	Indeno(1,2,3-cd)pyrene	193-39-5		
Silver	7440-22-4	2-Nitroaniline	88-74-4	Total PCBs	1336-36-3		
Thallium	7440-28-0	N-Nitroso-di-n-propylamine	621-64-7	Aroclor 1016	12674-11-2		
Uranium	NA	Pentachlorophenol	87-86-5	Aroclor 1221	11104-28-2		
Vanadium	7440-62-2	Phenanthrene	85-01-8	Aroclor 1232	11141-16-5		
Zinc	7440-66-6	Pyrene	129-00-0	Aroclor 1242	53469-21-9		
		Tetrachloroethene	127-18-4	Aroclor 1248	12672-29-6		
		Toluene	108-88-3	Aroclor 1254	11097-69-1		
		1,1,1-Trichloroethane	71-55-6	Aroclor 1260	11096-82-5		
		1,1,2-Trichloroethane	79-00-5	Vinyl chloride	75-01-4		
		Trichloroethene	79-01-6	Xylenes (Mixture)	1330-20-7		
				p-Xylene	106-42-3		
				m-Xylene	108-38-3		
				o-Xylene	95-47-6		

<sup>1</sup> This list of chemicals, compounds, and radionuclides was compiled from COPCs retained as COCs in baseline risk assessments performed at PGDP between 1990 and 2013 (i.e., DOE 1996a; DOE 1996b; DOE 1999a; DOE 1999b; DOE 2000a; DOE 2001; DOE 2005; DOE 2008; DOE 2010; DOE 2013).

<sup>2</sup> List may be added to during project scoping based on additional information.