Supplementary Materials

Table S1. PEPE their concentration ranges in rocks and their mineral phases (data from [5], if not indicated differently)

Possibly environmentally relevant element	Concentration ranges in rocks (mg/kg)	Mineral phases with stoichiometric contents of the element	Minerals phases which may incorporate the element by substitution
Cr	4 (granites)–3000 (ultramafic rocks)	Chromite (Chr), $FeCr_2O_4$	Pyroxenes, amphiboles, micas, chlorites, spinels, garnet, epidote
Mo	0.2 (sandstones) –2.6 (shists)	Molybdenite (Mol), MoS_2, powellite, $CaMoO_4$, wulfenite, $PbMoO_4$	Scheelite (Sch), $CaWO_4$
V	20 (sandstones, carbonate rocks) –250 (basalts)	coulsonite, FeV_2O_4, vanadinite, $Pb_5Cl(VO_4)_3$, descloizite, $PbZnVO_4(OH)$, carnotite, $K_2(UO_2)(VO_4)_2{\cdot}3H_2O$	Magnetite (Mag), Fe_3O_4, spinels, Fe-Mg silicates (pyroxenes, amphiboles), micas; Ilmenite (Ilm), $FeTiO_3$ [46] Titanite (Ttn), $CaTi(O|SiO_4)$ [47]
Ni	2 (sandstone)– 2000 (ultramafic rocks)	Pentlandite (Pn), $(Fe,Ni)_9S_8$	Pyrite (Py) and Marcasite (Mrc), FeS_2, pyrrhotite (Po), FeS, Fe-Mg-Silicates, e.g., olivine (Ol), $(Mg,Fe)_2SiO_4$ [48]
Cu	4 (carbonate rocks)–87 (basalts)	Chalcopyrite (Ccp), $CuFeS_2$, bornite (Bn), Cu_5FeS_4, chalcocite (Cct), Cu_2S, tennantite (Tnt), $Cu_6(Cu_4(Fe,Zn)_2)As_4S_{13}$, tetrahedrite (Ttr), $Cu_6(Cu_4(Fe,Zn)_2)Sb_4S_{13}$	Fe-Mg-silicates
F	330 (carbonate rocks)–735 (granites) [6]	Fluorite (Fl), CaF2	Sheet silicates and amphiboles [6]

Table S2. Measurement conditions for EPMA analyses.

Element	Phase	Sample	Analysis Crystal	Standard	LLD (mg/kg)
F	silicate	A-D	TAP	fluorite	1258
		E			1053
	olivine	C			1162
	titanite	B&D			No value
Al	silicate	A-D	TAP	F-phlogopite	133
		E		sanidine	109
	olivine	C		F-phlogopite	119

Si	spinel	B&D	PETJ	albite	100
	titanite			chromite	116
	ilmenite			corundum	110
	iron oxide	D		albite	123
	silicate	A-D		diopside	234
		E		sanidine	227
	olivine	C		albite	234
	spinel				195
	titanite	B&D		dioposide	179
	ilmenite			orthoclase	200
	iron oxide	D		sanidine	214
Fe	silicate	A-D	LIFH	magnetite	229
		E			217
	olivine	C			211
	spinel				268
	titanite	B&D			201
	ilmenite			ilmenite	273
	iron oxide	D		magnetite	302
Ti	silicate	A-D	LIFH	ilmenite	251
		E			210
	olivine	C			242
	spinel			rutile	323
	titanite	B&D			232
	ilmenite				308
	iron oxide	D			332
Mg	silicate	A-D	TAP	diopside	118
		E		olivine	136
	olivine	C			115
	spinel			chromite	145
	titanite	B&D		dolomite	123
	ilmenite			diopside	122
	iron oxides	D			120
Na	silicate	A-D	TAP	orthoclase	179
		E		sanidine	241
	olivine	C			137
	titanite	B&D		orthoclase	164
Mn	silicate	A-D	PETJ	ilmenite	269
		E		rhodochrosite	284
	olivine	C		ilmenite	244
	spinel				390
	titanite	B&D		rhodonite	248
	ilmenite				342
	iron oxide	D			358
Ni	silicate	A-D	LIFH	skutterudite	171
	olivine	C			172
	spinel		LIF		No value
	iron oxide	D	LIFH		
V	silicate	A-D	LIFH	vanadium metal	381
	olivine	C			383
	spinel				475

Ca	titanite	B&D			113
	ilmenite				236
	iron oxide	D			506
	silicate	A-D	PETJ	wollastonite	155
		E			195
	olivine	C	PETH	diopside	85
	spinel		PETJ		No value
	titanite	B&D	PETH	wollastonite	82
	ilmenite		PETJ		149
Cu	silicate	A-D	LIFH	cuprite	No value
	olivine	C			
	spinel				
	iron oxide	D			604
Cr	silicate	A-D	LIFH	chromite	235
		E			No value
	olivine	C			181
	spinel				262
	ilmenite	B&D			216
	Iron oxide	D			256
K	silicate	A-D	PETJ	F-phlogopite	123
		E		sanidine	108
	olivine	C		F-phlogopite	125
	titanite	B&D		sanidine	109
Mo	silicate	E	PETH	molybdenum metal	No value
	olivine	C			
	spinel		PETJ		
Zn	titanite	B&D	PETH	willemite	No value
	iron oxide	D	LIFH		

Table S3. Mineral phases containing Cr, Cu and Ni (for sample Cn) and Mo (for sample E) and their formation reaction used for hydrogeochemical modelling (Mineral names according to the databases, _ss: solid solution).

Sample	Mineral	Formation constant (log K)	Formula	Components and stoichiometry of the formation reaction
C_n	Spinel_ss	57.100	$FeAl_2O_4$	1 $Fe(OH)_4^-$, 2 $Al(OH)_4^-$, 4 H^+, 1 e^-, −8 H_2O
		162.100	$FeCr_2O_4$	1 $Fe(OH)_4^-$, 2 CrO^{2-}, 12 H^+, 7 e^-, −8 H_2O
		8.528	$MgAl_2O_4$	1 Mg^{2+}, 2 $Al(OH)_4^-$, 4 H^+, 1 e^-, −4 H_2O
		1.186	$MgCr_2O_4$	1 Mg^{2+}, 2 CrO^{2-}, 8 H^+, 6 e^-, −4 H_2O
	Hydroxide_ss	−13.09	$Co(OH)_2$	1 Co^{2+}, 2 H_2O
		−22.80	$Ca(OH)_2$	1 Ca^{2+}, 2 H_2O
		−18.99	$Ni(OH)_2$	1 Ni^{2+}, 2 H_2O
		−8.67	$Cu(OH)_2$	1 Cu^{2+}, 2 H_2O
	Olivine_ss	73.17	Fe_2SiO_4	2 $Fe(OH)_4^-$, 6 H^+, 1 $H_2SiO_4^{2-}$, +2 e^-
		−14.47	Ca_2SiO_4 (gamma)	2 Ca^{2+}, 1 $H_2SiO_4^{2-}$
		8.70	Ni_2SiO_4	2 Ni^{2+}, 1 $H_2SiO_4^{2-}$

		0.916	Mn_2SiO_4	2 Mn^{2+}, 1 $H_2SiO_4^{2-}$
		−4.82	Mg_2SiO_4	2 Mg^{2+}, 1 $H_2SiO_4^{2-}$
	$MgCrO_4$	−5.3801	$MgCrO_4$	1 CrO_4^{2-}, 1 Mg^{2+}
	Cuprite	6.786	Cu_2O	2 Cu^{2+}, 2 e^-, 1 H_2O, -2 H^+
	Chalcopyrite	137.21	$CuFeS_2$	1 Cu^{2+}, 1 $Fe(OH)_4^-$, 20 H^+, -12 H_2O, 2 SO_4^{2-}, 17 e^-
	$Ni(OH)_2(s)$	−12.794	$Ni(OH)_2$	1 Ni^{2+}, 2 H_2O, −2 H^+
	Morenosite	2.1449	$NiSO_4{\cdot}7H_2O$	7 H_2O, 1 Ni^{2+}, 1 SO_4^{2-}
	$Ni_4(OH)_6SO_4$	−32	$Ni_4[OH]_6SO_4$	-6 H^+, 6 H_2O, 4 Ni^{2+}, 1 SO_4^{2-}
	$NiCO_3(s)$	6.87	$NiCO_3$	1 CO_3^{2-}, 1 Ni^{2+}
	NiS(alpha)	39.26	α-NiS	8 H^+, −4 H_2O, 1 Ni^{2+}, 1 SO_4^{2-}, 8 e^-
	NiS(beta)	44.76	β-NiS	8 H^+, −4 H_2O, 1 Ni^{2+}, 1 SO_4^{2-}, 8 e^-
	NiS(gamma)	46.46	γ-NiS	8 H^+, −4 H_2O, 1 Ni^{2+}, 1 SO_4^{2-}, 8 e^-
	Retgersite	2.04	$NiSO_4{\cdot}6H_2O$	6 H_2O, 1 Ni^{2+}, 1 SO_4^{2-}
	$PbMoO_4$	15.620	$PbMoO_4$	1 MoO_4^{2-}, 1 Pb^{2+}
	Ag2MoO4(s)	11.55	Ag_2MoO_4	2 Ag^+, 1 MoO_4^{2-}
	$Al_2(MoO_4)_3$	43.0085	$Al_2(MoO_4)_3$	2 $Al(OH)_4^-$, 8 H^+, −8H_2O, 3 MoO_4^{2-}
	$BaMoO_4$	6.9603	$BaMoO_4$	1 Ba^{2+}, 1 MoO_4^{2-}
	$CaMoO_4$(c)	7.94	$CaMoO_4$	1 Ca^{2+}, 1 MoO_4^{2-}
	$CaMoO_4(s)$	7.95	$CaMoO_4$	1 Ca^{2+}, 1 MoO_4^{2-}
	$CuMoO_4$	13.0762	$CuMoO_4$	1 Cu^{2+}, 1 MoO_4^{2-}
	$CuMoO_4$(c)	6.48	$CuMoO_4$	1 Cu^{2+}, 1 MoO_4^{2-}
	$Fe(MoO_4)_3$(1)	81.996	$Fe(MoO_4)_3$	2 $Fe(OH)^{4-}$, 8 H^+, −8 H_2O, 3 MoO_4^{2-}
E	$Fe(MoO_4)_3$(2)	82.0755	$Fe(MoO_4)_3$	2 $Fe(OH)^{4-}$, 8 H^+, −8 H_2O, 3 MoO_4^{2-}
	$H_2MoO_4(s)$	12.8765	$H_2MoO_4(s)$	2 H^+, 1 MoO_4^{2-}
	K_2MoO_4	−3.2619	K_2MoO_4	2 K^+, 1 MoO_4^{2-}
	$MgMoO_4(s)$	1.85	$MgMoO_4$	1 Mg^{2+}, 1 MoO_4^{2-}
	Mileslag_Mo-AFM[49]	-30.52515	$3CaO{\cdot}Al_2O_3{\cdot}CaMoO_4{\cdot}20\ H_2O$	2 $Al(OH)_4^-$, 4 Ca^{+2}, −4 H^+, 18 H_2O, 1 MoO_4^{2-}
	$MnMoO_4(s)$	4.554	$MnMoO_4$	1 Mn^{2+}, 1 MoO_4^{2-}
	Mo	19.66965	Mo	8 H^+, −4 H_2O, 1 MoO_4^{2-}, 6 e^-
	$NiMoO_4$	11.1421	$NiMoO_4$	1 Ni^{2+}, 1 MoO_4^{2-}
	$PbMoO_4$	15.62	$PbMoO_4$	1 Pb^{2+}, 1 MoO_4^{2-}
	$SrMoO_4$	10.2625	$SrMoO_4$	1 Sr^{2+}, 1 MoO_4^{2-}
	$ZnMoO_4$	10.1254	$ZnMoO_4$	1 Zn^{2+}, 1 MoO_4^{2-}

Table S4. EPMA of titanite grains (14 spots) in sample B1 (bdl = below detection limit).

Analyte	Average	Minimum	Maximum
		wt %	
SiO_2	27.87	26.10	28.45
TiO_2	32.39	26.31	35.55
Al_2O_3	3.45	2.20	5.53
Fe_2O_3	4.32	2.01	11.32
MnO	0.02	0.03	0.10
MgO	0.81	0.20	2.83
CaO	25.63	20.46	27.40
Na_2O	0.02	0.04	0.07
K_2O	0.03	0.02	0.06
MoO_3	bdl	bdl	bdl

V_2O_3	0.23	0.13	0.34
Total	94.78	93.67	95.96

Table S5. EPMA (average values) of silicate phases in sample C (bdl = below detection limit).

Mineral	**Olivine (n = 15)**	**Serpentine (n = 5)**	**Tremolite (n = 3)**	**Chlorite (n = 4)**
Analyte		**wt %**		
SiO_2	39.52	34.51	53.55	29.50
TiO_2	bdl	0.05	bdl	0.05
Al_2O_3	bdl	0.03	0.54	13.35
Cr_2O_3	0.03	bdl	0.31	4.20
FeO	10.06	5.85	1.83	2.60
MnO	0.13	0.09	0.06	0.04
MgO	50.61	36.84	23.64	32.76
CaO	0.02	0.03	12.95	0.03
Na_2O	0.03	0.03	0.39	0.03
K_2O	bdl	0.02	0.03	0.03
NiO	0.26	0.19	0.06	0.16
CuO	bdl	bdl	bdl	bdl
MoO_3	bdl	bdl	bdl	bdl
V_2O_3	0.06	bdl	bdl	0.06
Total	100.72	77.56	93.34	82.81

Table S6. Leachable contents of chemical elements of the investigated samples at natural pH (A: quaternary gravel, B: diabase greywacke mixture, C: serpentinite and D: amphibolite breccia; terminology is according to the supplier and not according to scientific rock classification; bold script indicates elements whose leachable contents are regulated in Austrian legislation, red letters indicate values exceeding a limit value, all results are in mg/kg and refer to the dry matter of the solid, considering a solid-to-liquid ratio of 1:10). The estimated extended measurement uncertainty according to the EURACHEM/CITAC guideline is in the range of 30–35% for most elements.

			A					**B**					**C**					**D**				
Particle size (mm)		**Limit value range**	**<2**	**2–4**	**4–8**	**8–11**	**11–16**	**<2**	**2–4**	**4–8**	**8–11**	**11–16**	**<2**	**2–4**	**4–8**	**8–11**	**11–16**	**<2**	**2–4**	**4–8**	**8–11**	**11–16**
Main elements	Na		31	28	21	19	19	29	23	20	19	16	10	12	8	10	7	20	13	13	13	13
	Mg		16	10	9	8	6	15	8	9	8	8	115	69	51	47	31	15	10	9	6	7
	Al		5	8	4	5	5	8	8	7	8	6	0.7	0.9	0.9	0.7	1.7	4	6	5	11	8
	Si		22	18	19	20	21	19	19	18	20	19	14	20	22	21	24	23	23	22	26	23
	K		44	36	32	23	19	36	19	23	17	25	10	5	5	14	5	9	6	12	9	13
	Ca		80	79	73	88	64	68	61	87	55	60	38	27	28	28	47	69	75	61	64	76
	Fe		3	<1	<1	6	<1	9	4	3	5	3	<1	2	2	3	2	4	3	2	1	4
Trace elements	Li		0.06	0.04	0.03	0.03	0.02	0.03	0.01	<0.01	0.01	0.01	<0.01	0.07	<0.01	0.03	<0.01	0.01	0.05	0.06	0.02	0.06
	P		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Ti		0.07	0.04	0.02	0.02	0.01	0.05	0.05	0.05	0.07	0.04	<0.01	<0.01	0.01	0.02	0.03	0.03	0.06	0.04	0.04	0.16
	V	**1.0**	**0.15**	**0.15**	**0.14**	**0.14**	**0.12**	**0.20**	**0.18**	**0.16**	**0.16**	**0.15**	**<0.01**	**<0.01**	**0.01**	**<0.01**	**<0.01**	**0.17**	**0.15**	**0.14**	**0.13**	**0.13**
	Cr	**0.3-1.0**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**	**<0.20**
	Mn		0.26	<0.10	<0.10	<0.10	<0.10	0.50	<0.10	<0.10	0.19	0.11	<0.10	0.70	<0.10	0.28	0.10	0.18	0.47	0.59	0.15	0.65

Co	**1.0**	**0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**0.05**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**0.14**	**<0.01**	**0.06**	**0.03**	**<0.01**	**0.09**	**0.11**	**0.02**	**0.11**
Ni	**0.4-0.6**	**<0.10**	**0.16**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**0.27**	**<0.10**	**0.17**	**<0.10**	**0.85**	**1.01**	**<0.10**	**0.42**	**0.13**	**<0.10**	**0.19**
Cu	**1.0-2.0**	**0.13**	**0.20**	**<0.02**	**0.02**	**0.05**	**0.02**	**<0.02**	**0.04**	**0.09**	**0.08**	**<0.02**	**0.05**	**0.05**	**0.16**	**1.7**	**0.14**	**0.13**	**0.14**	**<0.02**	**0.17**
Zn		<0.20	0.38	<0.20	<0.20	<0.20	0.20	<0.20	0.35	<0.20	1.15	<0.20	0.62	0.73	2.01	5.65	0.42	1.52	0.90	<0.20	3.02
Se		1.47	1.38	1.36	1.30	1.26	1.15	1.16	1.13	1.09	1.05	1.04	1.02	<0.10	1.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sr		0.19	0.21	0.18	0.21	0.15	0.28	0.23	0.27	0.18	0.19	0.14	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Mo	**0.5**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**	**<0.10**
Pd		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ag		<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Cd	**0.04**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**
Ba	**20**	**0.29**	**0.10**	**0.08**	**0.06**	**0.10**	**0.40**	**0.18**	**0.77**	**0.19**	**0.13**	**0.06**	**0.06**	**0.04**	**0.07**	**0.05**	**0.05**	**0.14**	**0.05**	**0.25**	**0.12**
W	**1.5**	**0.44**	**0.42**	**0.40**	**0.39**	**0.38**	**0.37**	**0.37**	**0.37**	**0.36**	**0.36**	**0.36**	**0.35**	**0.36**	**0.35**	**0.35**	**0.35**	**0.34**	**0.34**	**0.34**	**0.34**
Tl	**0.1**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**
Pb		0.02	0.07	<0.02	0.04	0.03	0.05	<0.02	0.04	0.06	0.04	0.04	0.02	0.03	0.10	0.22	0.06	0.22	0.07	<0.02	0.83

Table S7. Leachable contents of chemical elements of the investigated samples at varying pH (C: serpentinite, E: Mo-bearing gneiss; bold script indicates elements whose leachable contents are regulated in Austrian legislation, all results are in mg/kg and refer to the dry matter of the solid, considering a solid-to-liquid ratio of 1:10, bdl: below detection limit). The estimated extended measurement uncertainty according to the EURACHEM/CITAC guideline is in the range of 30 to 35% for most elements.

Sample		**C**									**E**								
pH		1.8	3.6	5.1	6.5	8.1	9.7	11.4	12.7	Maximum leaching (% of total content)	1.8	3.8	4.5	6.6	8.1	9.8	11.2	12.7	Maximum leaching (% of total content)
Redox potential (mV)		390	470	433	286	361	391	430	101		644	489	471	413	390	418	287	109	
Main elements	Na	4	4	3	3	3	2	-	-	0.49	26	110	19	42	32	26	28	26	0.30
	Mg	7690	6140	5180	2180	96	1200	8	5	3.36	52	16	16	8	6	10	2	52	12.09
	Al	8.80	6.50	0.06	0.02	0.07	0.09	0.03	0.27	0.47	49	14	5	1	3	4	17	23	0.16
	Si	1340	960	840	410	110	290	120	170	0.84	44	12	13	11	13	18	70	44	0.03
	K	16	31	20	29	95	10	7	15	100	32	18	15	18	22	20	30	32	0.30
	Ca	190	250	340	200	38	150	8	14	4.56	1030	220	270	1100	66	39	61	53	100.00
	Fe	1530	710	420	3	1	1	1	1	2.77	91	19	20	1	1	<1	2	1	3.73
Trace elements	Li	0.04	0.03	0.03	0.06	0.00	0.01	0.00	0.00	4.14	0.04	0.01	0.01	0.00	0.01	0.00	0.01	0.04	0.93
	P	0.20	0.16	0.20	0.14	0.14	0.17	0.18	0.39	1.18	12.00	3.80	0.94	0.00	0.00	0.07	0.43	12.00	12.00
	Ti	0.34	0.23	0.21	0.08	0.00	0.05	0.01	0.03	0.51	0.44	0.01	0.01	0.00	0.01	0.01	0.03	0.44	0.21
	V	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.01**	**0.01**	**0.03**	**0.09**	**0.07**	**0.01**	**0.01**	**0.00**	**0.01**	**0.01**	**0.02**	**0.07**	**1.84**
	Cr	**2.70**	**2.30**	**0.05**	**0.00**	**0.00**	**0.00**	**0.01**	**0.02**	**0.35**	**0.15**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.05**	**6.00**
	Cr (VI)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	n.d.	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	n.d.
	Mn	64.00	65.00	55.00	26.00	0.05	3.10	0.02	0.02	6.77	16.00	7.00	7.40	3.00	1.00	0.04	0.08	16.00	23.53
	Co	**5.70**	**4.80**	**4.30**	**1.70**	**0.01**	**0.02**	**0.01**	**0.01**	**5.70**	**0.07**	**0.03**	**0.01**	**0.01**	**0.00**	**0.00**	**0.00**	**0.07**	**10.62**
	Ni	**110.00**	**83.00**	**62.00**	**23.00**	**0.05**	**1.10**	**0.02**	**0.01**	**4.26**	**0.05**	**0.02**	**0.03**	**0.01**	**0.02**	**0.01**	**0.01**	**0.05**	**3.76**
	Cu	**1.80**	**1.30**	**0.05**	**0.00**	**0.00**	**0.00**	**0.00**	**0.13**	**4.50**	**0.52**	**0.05**	**0.00**	**0.00**	**0.01**	**0.01**	**0.03**	**0.52**	**7.76**
	Zn	1.50	1.30	0.88	0.10	0.08	0.10	0.08	0.08	5.36	2.30	0.32	0.19	0.08	54.00	1.30	0.26	.30	76.67
	As	0.01	0.01	0.01	0.00	0.01	0.01	0.15	0.01	1.81	1.50	0.15	0.14	0.14	0.14	0.14	0.14	0.15	12.00
	Sr	0.19	0.29	0.28	0.35	0.05	0.15	0.01	0.03	21.88	0.84	0.34	0.40	0.16	0.09	0.05	0.15	0.84	5.25
	Mo	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**<0.01**	**1.00**	**1.30**	**2.90**	**1.20**	**1.30**	**2.50**	**6.00**	**1.00**	**0.01**
	Cd	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.33**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**3.44**
	Ba	**0.28**	**0.30**	**0.29**	**0.24**	**0.04**	**0.32**	**0.01**	**0.52**	**16.25**	**1.20**	**0.22**	**0.17**	**0.03**	**0.02**	**0.03**	**0.02**	**0.10**	**0.80**

Anions	**Tl**	**bdl**	**bdl**	**bdl**	**bdl**	**bdl**	**bdl**	**bdl**	**bdl**	**n.d.**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.00**
	Pb	bdl	bdl	bdl	bdl	bdl	bdl	bdl	bdl	<0.01	14.00	0.06	0.02	0.01	0.01	0.01	0.01	14.00	100.00
	F	**0.32**	**0.03**	**0.13**	**0.79**	**1.00**	**0.63**	**1.10**	**0.32**	1.28	**2.00**	**0.87**	**0.78**	**0.22**	**0.13**	**0.39**	**3.80**	**0.91**	**0.02**
	Cl	**2.00**	**19.00**	**14.00**	**25.00**	**79.00**	**7.10**	**6.40**	**9.40**	n.d.	**24.00**	**27.00**	**5.90**	**11.00**	**17.00**	**25.00**	**53.00**	**0.33**	n.d.
	PO_4^2	**0.17**	**0.32**	**0.26**	**0.03**	**0.22**	**0.17**	**0.31**	**0.60**	n.d.	**9.90**	**3.70**	**1.90**	**1.10**	**1.10**	**0.39**	**1.50**	**17.00**	**n.d.**
	SO_4	**0.69**	**1.40**	**5.90**	**4.40**	**7.40**	**4.20**	**12.00**	**31.00**	n.d.	**5.20**	**2.30**	**6.90**	**2.30**	**1.20**	**12.00**	**17.00**	**5.50**	n.d.