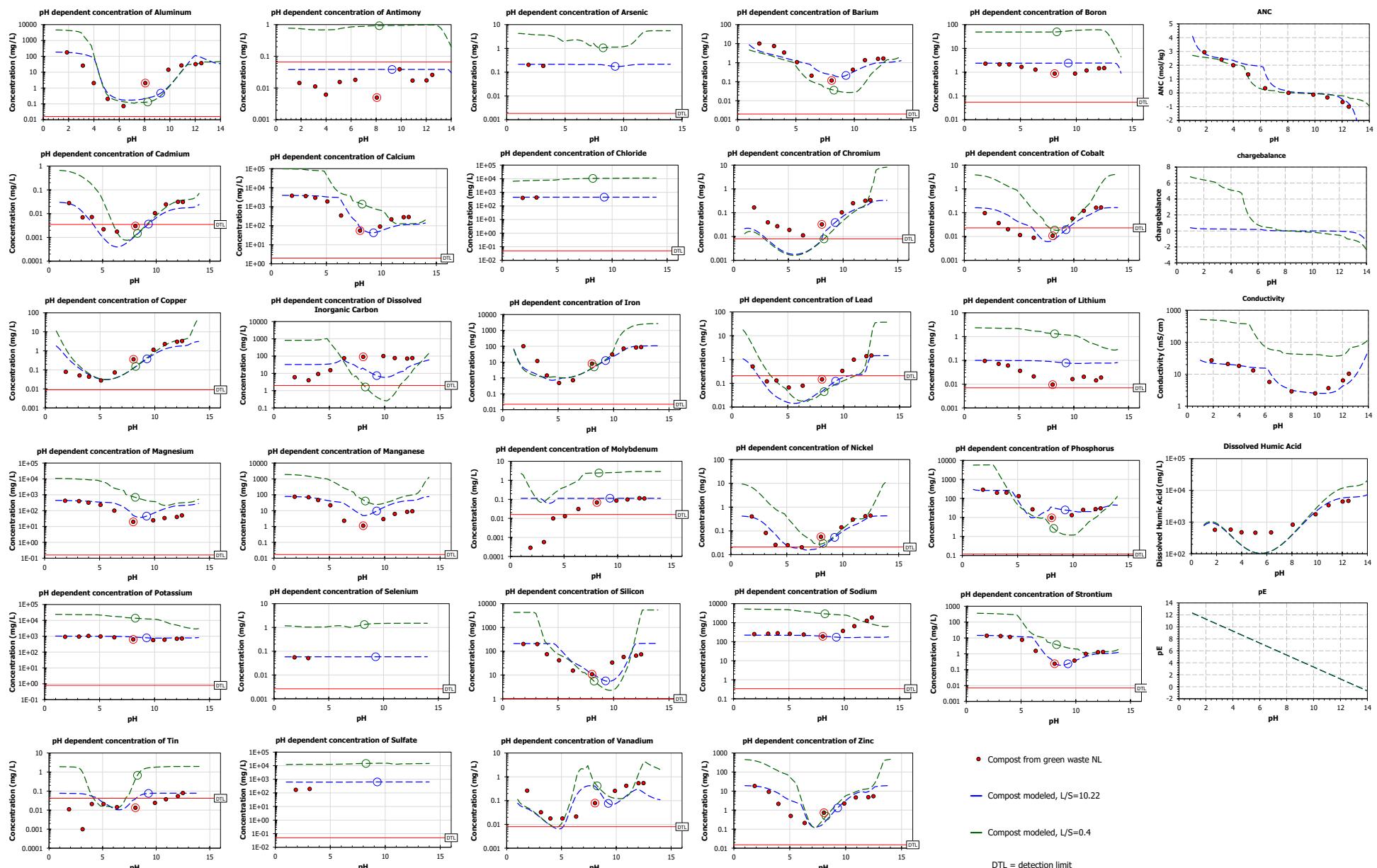


COMPOST FROM GREEN WASTE

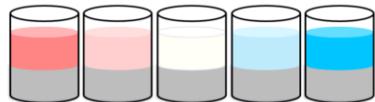
COMPARISON pH DEPENDENCE DATA WITH MODEL



Object
Name

pH Dependent Leaching Test Model
Green compost for Lite

pH Dependent Leaching Test Scenario



Lab Test

Extra L/S
Simulation

Available Content

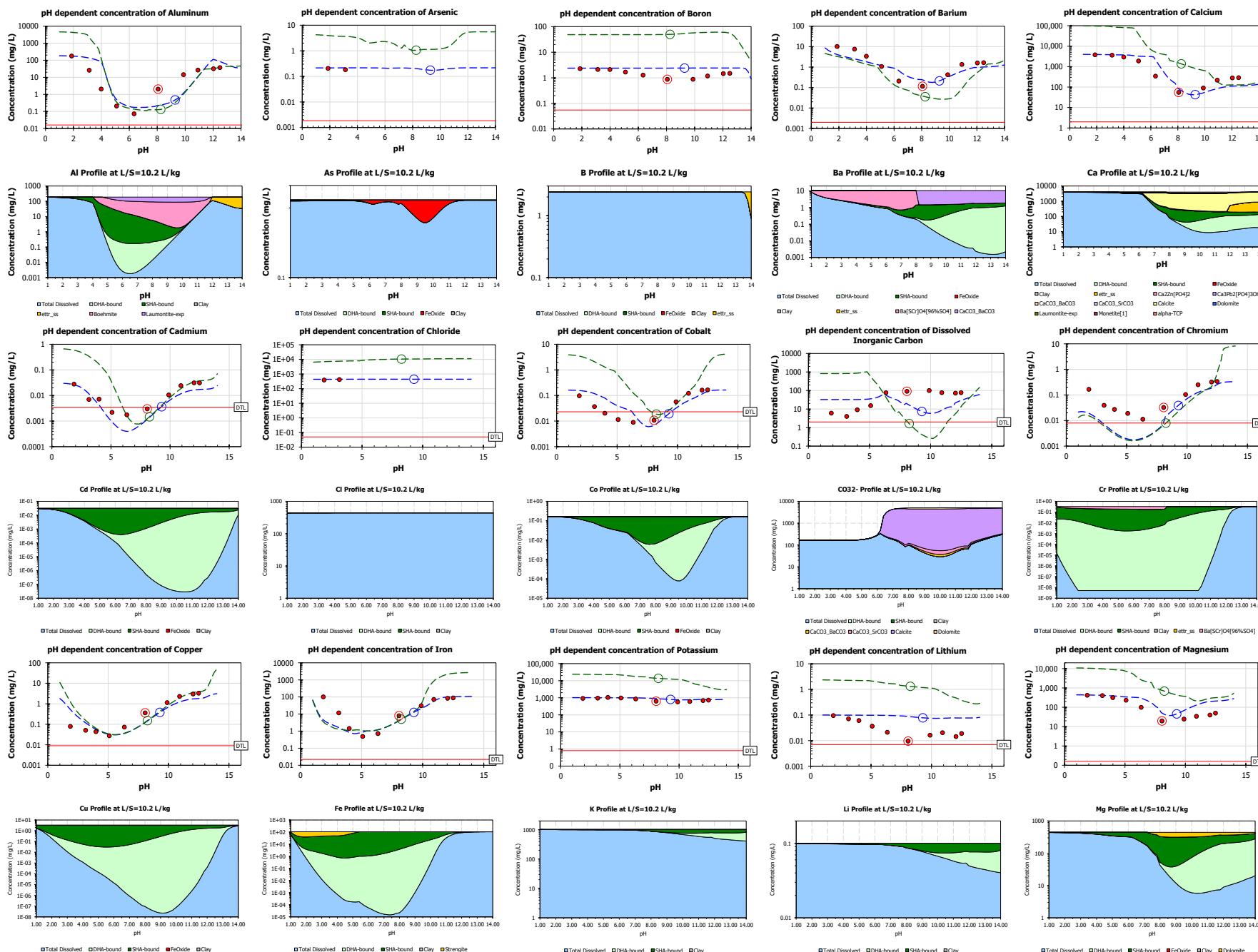
Model Parameters		Available Content									
Entity	Unit	Default	Entity	Unit	Default	Entity	Unit	Default	Entity	Unit	Default
c0		-4.278	Ag	mg/kg	1.079E-08	F	mg/kg	1.900E-09	NO3	mg/kg	6.200E-09
c1		1.475	Al	mg/kg	1915	Fe	mg/kg	1089	Pb	mg/kg	14.78
c2		-0.7258	As	mg/kg	2.212	B	mg/kg	24.67	PO4	mg/kg	9510
c3		0.1239	Ba	mg/kg	109.3	Si	mg/kg	2170	Sb	mg/kg	0.3949
c4		-0.008562	Br	mg/kg	7.990E-09	Hg	mg/kg	2.006E-08	Se	mg/kg	0.5983
c5		0.0002089	Ca	mg/kg	4.075E+04	K	mg/kg	1.049E+04	Sn	mg/kg	0.7894
Clay	mg/kg	500.0	Cd	mg/kg	0.3153	Li	mg/kg	1.027	SO4	mg/kg	6498
Hydrous Ferric Oxide	mg/kg	200.0	Cl	mg/kg	4496	Mg	mg/kg	4531	Sr	mg/kg	149.8
L/S	L/kg	10.22	Co	mg/kg	1.674	Mn	mg/kg	809.0	Th	mg/kg	2.320E-08
pE		5.200	CO32-	mg/kg	5.170E+04	Mo	mg/kg	1.160	U	mg/kg	2.380E-08
pH		8.100	Cr	mg/kg	3.384	Na	mg/kg	2280	V	mg/kg	5.476
Solid Humic Acid	mg/kg	1.106E+05	Cu	mg/kg	33.04	Ni	mg/kg	4.381	Zn	mg/kg	199.6
Simulated Low L/S	L/kg	0.4000									

Solid Solutions	Name	End Member	Log(K) Reaction
	None		

Minerals

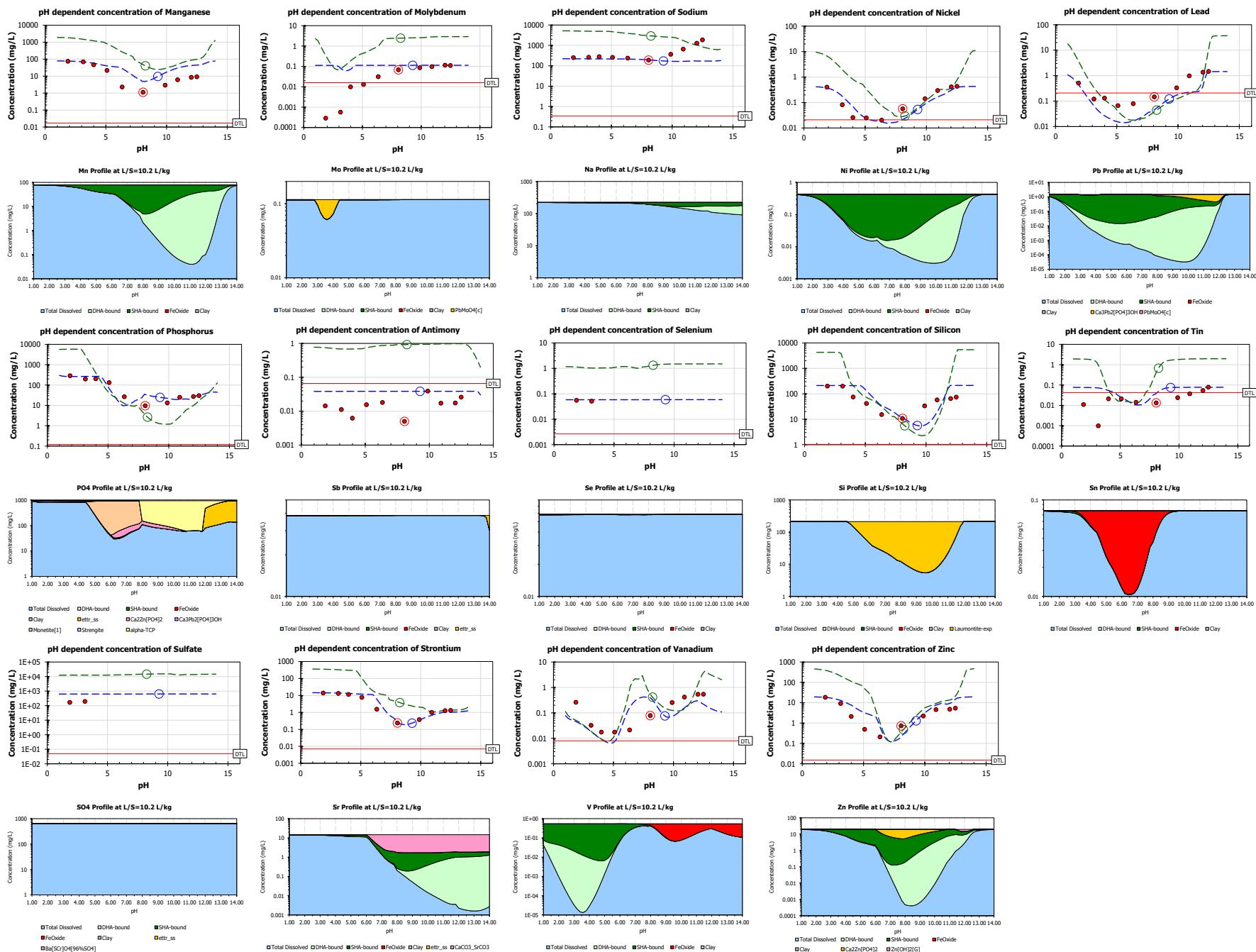
Name	> 1E-13 mol/kg	Log(K)	Reaction	Name	> 1E-13 mol/kg	Log(K)	Reaction
alpha-TCP	Yes	25.50	alpha-TCP -> 3 Ca+2 + 2 PO4-3	Al[OH]3[a]	12.62	Al[OH]3[a] + 1 H2O -> 1 Al[OH]4- + 1 H+	
Ba[Scr]O4[96%SO4]	Yes	9.790	Ba[Scr]O4[96%SO4] -> 1 Ba+2 + 0.04 CrO4-2 + 0.96 SO4-2	Cd[OH]2[A]	-13.73	Cd[OH]2[A] + 2 H+ -> 1 Cd+2 + 2 H2O	
Boehmite	Yes	14.42	Boehmite + 2 H2O -> 1 Al[OH]4- + 1 H+	Cerrusite	13.13	Cerrusite -> 1 CO3-2 + 1 Pb+2	
Bunsenite	Yes	-12.45	Bunsenite + 2 H+ -> 1 H2O + 1 Ni+2	Cr[OH]3[A]	68.13	Cr[OH]3[A] + 1 H2O -> 1 CrO4-2 + 5 H+ + 3 e-	
Ca2Zn[PO4]2	Yes	31.12	Ca2Zn[PO4]2 -> 2 Ca+2 + 2 PO4-3 + 1 Zn+2	CuCO3[s]	9.630	CuCO3[s] -> 1 CO3-2 + 1 Cu+2	
Ca3Pb2[PO4]3OH	Yes	48.30	Ca3Pb2[PO4]3OH + 1 H+ -> 3 Ca+2 + 1 H2O + 3 PO4-3 + 2 Pb+2	Fe2[MoO4]3[1]	82.02	Fe2[MoO4]3[1] + 8 H2O -> 2 Fe[OH]4- + 8 H+ + 3 MoO4-2	
CaCO3_BaCO3	Yes	20.00	CaCO3_BaCO3 -> 1 Ba+2 + 2 CO3-2 + 1 Ca+2	Fluorite	10.96	Fluorite -> 1 Ca+2 + 2 F-	
CaCO3_SrCO3	Yes	19.85	CaCO3_SrCO3 -> 2 CO3-2 + 1 Ca+2 + 1 Sr+2	Gibbsite[C]	14.23	Gibbsite[C] + 1 H2O -> 1 Al[OH]4- + 1 H+	
Calcite	Yes	8.475	Calcite -> 1 CO3-2 + 1 Ca+2	Hydromagnesite	8.766	Hydromagnesite + 2 H+ -> 4 CO3-2 + 6 H2O + 5 Mg+2	
Dolomite	Yes	17.00	Dolomite -> 2 CO3-2 + 1 Ca+2 + 1 Mg+2	hydrozincite	-1.939	hydrozincite + 1.2 H+ -> 0.4 CO3-2 + 1.2 H2O + 1 Zn+2	
Laumontite-exp	Yes	116.0	Laumontite-exp + 8 H2O -> 2 Al[OH]4- + 1 Ca+2 + 8 H+ + 4 H2SiO4-2	NiCO3[s]	6.840	NiCO3[s] -> 1 CO3-2 + 1 Ni+2	
Monetite[1]	Yes	19.09	Monetite[1] -> 1 Ca+2 + 1 H+ + 1 PO4-3	Otavite	13.74	Otavite -> 1 CO3-2 + 1 Cd+2	
Pb2V2O7	Yes	0.9500	Pb2V2O7 + 3 H+ -> 1.5 H2O + 1 Pb+2 + 1 VO2+	Pb3[VO4]2	-3.070	Pb3[VO4]2 + 4 H+ -> 2 H2O + 1.5 Pb+2 + 1 VO2+	
PbMoO4[c]	Yes	15.80	PbMoO4[c] -> 1 MoO4-2 + 1 Pb+2	PbMoO4[cc]	13.36	PbMoO4[cc] -> 1 MoO4-2 + 1 Pb+2	
Strengite	Yes	48.00	Strengite + 2 H2O -> 1 Fe[OH]4- + 4 H+ + 1 PO4-3	Rhodochrosite	-15.10	Rhodochrosite -> 1 CO3-2 + 1 Mn+2	
Zn[OH]2[G]	Yes	-11.71	Zn[OH]2[G] + 2 H+ -> 2 H2O + 1 Zn+2	Sb[OH]3[s]	32.89	Sb[OH]3[s] + 3 H2O -> 3 H+ + 1 Sb[OH]6- + 2 e-	
				Strontianite	9.250	Strontianite -> 1 CO3-2 + 1 Sr+2	
				Tyuyamunite	-4.825	Tyuyamunite + 4 H+ + 1 e- -> 0.5 Ca+2 + 2 H2O + 1 UO2+ + 1 VO2+	
				Witherite	8.585	Witherite -> 1 Ba+2 + 1 CO3-2	

Comparison and profile



COMPOST FROM GREEN WASTE

Comparison and profile



Sample	Name	Compost from green waste EU
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Residual details, concentrations

	Residuals as log(model/sample)										
Fraction	10	9	8	7	6	5	4	3	2	1	Total Avg
pH	1.87	3.13	3.99	5.09	6.34	8.06	9.88	10.9	12.0	12.5	Deviation
Al	0.00	0.72	1.60	0.38	0.38	-0.96	-1.08	-0.39	0.54	0.35	0.25
As	0.02	0.07	-	-	-	-	-	-	-	-	0.04
B	0.02	0.05	0.05	0.16	0.27	0.44	0.44	0.31	0.22	0.21	0.08
Ba	-0.39	-0.48	-0.27	0.04	0.51	0.31	-0.13	-0.34	-0.22	-0.21	0.10
Br	-	-	-	-	-	-	-	-	-	-	-
Ca	0.02	0.02	0.10	0.24	0.80	0.17	-0.24	-0.42	-0.40	-0.40	0.11
Cd	-0.02	0.22	-0.22	-0.38	-0.64	-0.41	-0.24	-0.32	-0.28	-0.26	0.11
Cl	0.05	0.02	-	-	-	-	-	-	-	-	0.03
Co	0.20	0.51	0.59	0.53	0.35	-0.20	-0.24	-0.28	-0.15	-0.06	0.11
CO32-	-	-	-	-	-	-	-	-	-	-	-
Cr	-0.94	-0.74	-0.91	-1.00	-0.74	-0.58	-0.20	-0.30	-0.24	-0.12	0.21
Cu	0.83	0.37	0.11	0.07	-0.31	-0.47	-0.26	-0.27	-0.24	-0.26	0.12
F	-	-	-	-	-	-	-	-	-	-	-
Fe	-1.35	-0.86	-0.23	0.25	0.22	-0.30	-0.16	-0.10	0.07	0.07	0.17
Hg	-	-	-	-	-	-	-	-	-	-	-
K	0.04	0.02	-0.02	0.01	0.06	0.15	0.12	0.10	0.06	0.04	0.02
Li	0.02	0.14	0.21	0.43	0.66	0.96	0.66	0.56	0.73	0.61	0.18
Mg	0.01	0.01	0.09	0.17	0.47	0.41	0.44	0.58	0.70	0.62	0.14
Mn	0.01	-0.01	0.10	0.27	1.09	0.64	0.73	0.69	0.70	0.69	0.19
Mo	2.59	2.16	0.86	0.93	0.56	0.22	0.12	0.06	-0.01	0.01	0.37
Na	-0.06	-0.08	-0.11	-0.08	-0.04	0.00	-0.35	-0.60	-0.87	-1.04	0.15
Ni	-0.03	0.33	0.44	-0.02	-0.05	-0.42	-0.21	-0.26	-0.13	-0.05	0.08
NO3	-	-	-	-	-	-	-	-	-	-	-
Pb	-0.06	-0.27	-0.69	-0.64	-0.68	-0.51	-0.29	-0.64	-0.54	-0.02	0.16
PO4	-	-	-	-	-	-	-	-	-	-	-
Sb	0.43	0.54	0.79	0.39	0.33	0.89	-0.01	0.35	0.35	0.17	0.16
Se	0.02	0.06	-	-	-	-	-	-	-	-	0.03
Si	0.02	0.02	0.45	0.50	0.36	0.04	-0.76	-0.48	0.51	0.46	0.14
Sn	0.84	1.86	0.41	0.06	-0.13	0.47	0.51	0.32	0.15	-0.01	0.22
SO4	0.58	0.51	-	-	-	-	-	-	-	-	0.38
Sr	0.01	0.02	0.06	0.19	0.59	0.02	-0.03	-0.17	-0.11	-0.11	0.07
Th	-	-	-	-	-	-	-	-	-	-	-
U	-	-	-	-	-	-	-	-	-	-	-
V	-0.76	-0.25	-0.29	-0.37	0.87	0.70	-0.55	-0.42	-0.26	-0.39	0.17
Zn	-0.01	0.15	0.56	0.81	0.50	-0.54	0.09	0.21	0.29	0.44	0.14
Avg Deviat	0.13	0.13	0.11	0.09	0.11	0.11	0.09	0.08	0.09	0.08	0.14