Table 2. Characteristics of analytical data from the projects used for preparing the composite geochemical maps. GD=gravimetric determination, PD=potentiometric determination, SQSEA= semi-quantative spectral emission analysis.

Project name	Project code	Sampling media	Number of samples	Sample preparation		Analytical data	
				Fraction	Extraction	Analytical method	List of analyzed elements
Geochemical Atlas of Eastern Barents Region (Barents Ecogeochemistry project) (Salminen et al. 2004)	1	Moss	1,052		HNO_3	ICP-AES, ICP-MS	ICP-AES: Al,Ca,Fe,K,Mg,Mn,Na,P,S; ICP-MS: Ag,As,B,Ba,Be,Cd,Co,Cr,Cu,Li,Mo,Pb,Rb,Sb,Sr,Th,Tl,U,V,Zn
		Organic soil horizon	1,032	<2 mm	HNO_3 No extraction	ICP-AES, ICP-MS CNH; GD	ICP-AES: Li,Ca,Fe,K,Mg,Mn,Na,P,S,Ti; ICP-MS:Ag,As,Ba,Be,Bi,Br,Cd,Co,Cr,Cu,Mo,Ni,Pb,Rb,Sb,Sr,Th,Tl, U,V,Zn CNH: C,N; GD: humidity, LOI
		Mineral soil C-horizon	1,044	<2 mm	$HCl+HNO_3$ $HCl+HNO_3+HF$ No extraction	ICP-AES, AAS ICP-AES, ICP-MS XRF, CNH-analyser, GD	ICP-AES: Ba,Be,Ca,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,P,Sr,Ti,V,Zn; AAS: Ag,As,Bi,Cd,Pb,Sb,Se,Te ICP-AES: Li,Sc; ICP-MS: Ag,As,Ba,Be,Bi,Cd,Co,Cr,Cs,Cu,Ga,Ni,Pb,Rb,Sb,Sr,Th,Tl,U,V,Zn XRF: ,Zr,Cl,La,Ga,Na_2O,MgO,Al_2O_3,SiO_2,P_2O_5,K_2O,CaO,TiO_2,MnO,Fe_2O_3; CNH: C,N; GD: humidity, LOI
		Stream sediment	682	<0.15 mm	$HCl+HNO_3+HF$	ICP-AES, ICP-MSMS	ICP-AES: Ba,Be,Ca,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,P,Sr,Ti,V,Zn; ICP-MS:Ag,As,Ba,Be,Bi,Cd,Co,Cr,Cs,Cu,Ga,Ni,Pb,Rb,Sb,Sr,Th,Tl,U,V,Zn
		Stream water	1,066			ICP-AES, ICP-MS, CVAAS; IC PD	ICP-AES: Ca,Fe,Mg,Na,S,Si; ICP-MS: Ag,Al,As,B,Ba,Br,Cd,Co,Cr,Cs,Cu,K,Li,Mn,Mo,Ni,P,Pb,Rb,Sb,Sr,Th,Tl,U,V,Zn CVAAS: Hg; Cl,F,NO_3^-,SO_4^{2-}; IC: pH,EC
Ecogeochemical mapping of the Baltic countries	1	Moss	180		HNO_3	ICP-AES, ICP-MS	ICP-AES: Al,Ca,Fe,K,Mg,Mn,Na,P,S; ICP-MS: Ag,As,B,Ba,Be,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Rb,Sb,Sr,Th,Tl,U,V,Zn
		Organic soil horizon	179	<2 mm	HNO_3 No extraction	ICP-AES, ICP-MS CNH-analyser, GD	ICP-AES:Li,Ca,Fe,K,Mg,Mn,Na,P,S,Ti; ICP-MS: Ag,As,Ba,Be,Bi,Cd,Co,Cr,Cu,Mo,Ni,Pb,Rb,Sb,Sr,Th,Tl,U,V,Zn,Br CNH: C,N,H; GD: humidity, LOI
Environmental Geochemical Atlas of the Central Barents Region (Kola Ecogeochemistry project) (Reimann et al. 1998)	2	Moss	598		HNO_3	ICP-AES, ICP-MS	ICP-AES: Be,Ca,Fe,K,La,Mg,Mn,Na,P,S,Sc,Si,Y.Zn; ICP-MS: Ag,Al,As,B,Ba,Bi,Cd,Co,Cr,Cu,Mo,Ni,Pb,Sb,Se,Sr,Th, Tl,U,V,
		Organic soil horizon	617	< 2mm	HNO_3 No extraction	ICP-AES, ICP-MS CNH-analyser, GD	ICP-AES: As,B,Ba,Co,Cr,Cu,Li,Mo,Ni,Sr,Th,V,Y,Al,Ca,Fe,K,Mg,Mn,Na,P,S,Sc,Si,Zn,Ti,La; ICP-MS: Ag,Bi,Cd,Pb, Sb,Se,Te CNH: C,N,H GD: LOI
		Mineral soil C-horizon	605	<2 mm	No extraction $HCl+HNO_3$	XRF, CNH-analyser, INAA, GD ICP-AES, AAS	XRF: Na_2O,MgO,Al_2O_3,SiO_2,P_2O_5,K_2O,CaO,TiO_2,MnO,Fe_2O_3; CNH: C,N,H: INAA: Ag,As,Au,Ba,Br,Ca,Ce,Cr,Cs,Eu,Fe,Hf,Ir,La,Lu,Mo,Na,Ni,Rb,Sb,Sc,Se,Sm,Sr, Ta,Th,U,Yb,Zn; GD: LOI ICP-AES: Al,B,Ba,Be,Ca,Co,Cr,Cu,Fe,K,La,Li,Mg, Mn,Mo,Na,Ni,P,Sc,Si,Sr,Th,Ti,V,Y,Zn; AAS:Ag,As,Cd,Pb,Bi,Sb,Se,Te

Monitoring of atmospheric fallout of heavy metals in Europe. (Buse et al. 2003)	3	Moss	599		HNO_3	ICP-AES	As.Cd,Cr,Cu,Fe,Hg,Ni,P,V,Zn
Geochemical Atlas of Europe (FOREGS project) (Salminen et al. 2005)	4	Organic soil horizon	189	<2 mm	HNO_3	ICP-MS	Ba,Cd,Co,Cu,Ni,Pb,Rb,Sr,Zn,La,Ga
		Upper soil layer	208	<2 mm	$HCl+HNO_3+HF$	ICP-AES,	ICP-AES: Ag,,Be,Bi,Co,Sb,Th,Tl,U,V,Sc,Ce,Nb,La,Ga,Ho, I,In,Nd,Ta,Yb,Sm,Te,Eu,Hf,Lu,Tb,Dy,Er,Gd,Pr,Tm
						ICP-MS	ICP-MS: As,Cd,Cu,Mo,Ni,Pb,Cs
					$HCl+HNO_3$	ICP-AES	ICP-AES: As,Ba,Co,Cr,Cu,Ni,Pb,V,Fe,Mn,S,Zn
					No extraction	XRF	XRF: Ba,Cr,Rb,Sr,Y,Zr,Zn,W,Na_2O,MgO,Al_2O_3,SiO_2,P_2O_5,K_2O,CaO,TiO_2,MnO,Fe_2O_3,Sn
		Mineral soil C-horizon	206	<2 mm	$HCl+HNO_3+HF$	ICP-AES	ICP-AES: Ag,Be,Bi,Co,Sb,Th,Tl,U,V,Sc,Ce,Nb,La,Ga,Ho, I,In,Nd,Ta,Yb,Sm,Te,Eu,Hf,Lu,Tb,Dy,Er,Gd,Pr,Tm
					$HCl+HNO_3$	ICP-MS	ICP-MS: As,Cd,Cu,Mo,Ni,Pb,Cs
						ICP-AES	ICP-AES:As,Ba,Co,Cr,Cu,Ni,Pb,V,Fe,Mn,S,Zn
					No extraction	XRF	Ba,Cr,Rb,Sr,Y,Zr,Zn,W,Na_2O,MgO,Al_2O_3,SiO_2,P_2O_5,K_2O,CaO,TiO_2,MnO,Fe_2O_3,Sn
		Stream sediment	206	<2 mm	$HCl+HNO_3$	ICP-AES	ICP-AES:As,Ba,Co,Cr,Cu,Ni,Pb,V,Fe,Mn,S,Zn,
					Na-peroxide flux	ICP-MS	ICP-MS: Be,Cd,Li,Mo,Sb,Tl,Y,Ce,Ho,Nd,Ta,W,Yb,Sm,Eu,Hf,Lu,Tb,Dy, Er,Gd,Pr,Tm,
					No extraction	XRF	XRF: As,Ba,Co,Cr,Cu,Ni,Pb,Rb,Sr,Th,U,V,Zr,Zn,Nb,Ga,Cs,Na_2O,MgO,Al_2O_3, SiO_2,P_2O_5,K_2O,CaO, TiO_2,MnO, Fe_2O_3,Sn
		Stream water	206			ICP-AES	ICP-AES:Ca,Mg,Na,SiO_2,Sr
						ICP-MS	ICP-MS:Ag,Al,As,B,Ba,Be,Bi,Cd,Ce,Co,Cr,Cs,Cu,Dy,Er,Eu,Fe,Ga,Gd,Ge,Hf,Ho,I,In,K,La,Li,Lu, Mn,Mo,Nb,Nd,Ni,Pb,Pr,Rb,Sb,Se,Sm,Sn,Ta,Tb,Te,Th,Ti,Tl,Tm,U,V,Y,Yb,W,Zn,Zr;
						IC	IC: Br^-,Cl^-,F^-,NO_3^-,SO_4^{2-};
						PD	PD: pH,EC
Agricultural Soils in Northern Europe: A Geochemical Atlas (Baltic Soil Survey) (Reimann et al. 2003)	5	Upper soil layer	548	<2 mm	$HCl+HNO_3$	ICP-AES	ICP-AES: Ag,Ba,Co,Cr,Cu,Mo,Ni,Sb,Sr,V,Al,Ca,Fe,K,Mg,Mn,Na,P,S,Zn,Ti;
						AAS	AAS: As,Bi,Cd,Pb,Se,Te
					$HCl+HNO_3+HF$	ICP-MS	ICP-MS: As,Ba,Be,Co,Cr,Cu,Mo,Ni,Pb,Rb,Sb,Se,Sr,Th,Tl,U,V,Y,Zr,Sc,Zn,Ti,Ce,Nb, La,Ga,Cs,Ge,Ho,Nd, Ta,Yb,Sm,Sn,Eu,Lu,Tb, Dy,Er,Gd,Pr,Tm
					No extraction	XRF	XRF:As,Ba,Bi,Co,Cr,Cu,Mo,Ni,Pb,Rb,Sb,Sr,Th,U,V,Y,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,S,Sc, Si,Zn,Ti,Ce,Nb,La,Ga,Cs,Ta,W, Sn,Hf,Cl,F;
						GD	GD: LOI
		Mineral soil C-horizon	545	<2 mm	$HCl+HNO_3$	ICP-AES	ICP-AES: Ag,Ba,Co,Cr,Cu,Mo,Ni,Sb,Sr,V,Al,Ca,Fe,K,Mg,Mn,Na,P,S,Zn,Ti;
						AAS	AAS:As,Bi,Cd,Pb,Se,Te
					$HCl+HNO_3+HF$	ICP-AES	ICP-AES: As,Ba,Be,Co,Cr,Cu,Mo,Ni,Pb,Rb,Sb,Se,Sr,Th,Tl,U,V,Y,Zr,Sc,Zn,Ti,Ce,Nb,La,Ga, Cs,Ge,Ho,Nd, Ta,Yb,Sm,Sn,Eu,Lu,Tb, Dy,Er,Gd,Pr,Tm
					No extraction	XRF	XRF:As,Ba,Bi,Co,Cr,Cu,Mo,Ni,Pb,Rb,Sb,Sr,Th,U,V,Y,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,S,Sc,Si,Zn,Ti, Ce,Nb,La,Ga,Cs,Ta,W,Sn,Hf,Cl,F;
						GD	GD: LOI
Geochemical Atlas of Northern Fennoscandia (Nordkalott project) (Bølviken et al. 1986)	6	Stream sediment	5,772	<0.18 mm	HNO_3	ICP-AES	Ag,Ba,Co,Cr,Cu,Li,Mo,Ni,Sr,V,Zr,Al,Ca,Fe,K,Mg,Mn,P,Sc,Zn,Ce,La
		Till	3,250	<0.06 mm	Ashing	ICP-OES	Co,Cr,Cu,Ni,Pb,V,K,Mg,Mn,Zn,Ti
Nordic lake survey (Skjelvåle et al. 2001)	7	Lake water	5,023			ICP-AES,	ICP-AES: Ca,K,Mg,Na;
						ICP-MS,	ICP-MS: Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb, Rb,Sb,Se,Sr,Th,Tl,U,V, Al,Fe,Mn, Si,Zn,Br, SiO_2,Lu;
						IC,	IC: Cl^-,F-,NO_3^-,SO_4^{2-};
						PD	PD: pH,EC

Geochemical Atlas of Finland (Koljonen 1992, Lahermo et al. 1996)	8	Stream sediment	1,166	<2 mm	$HCl+HNO_3$ No extraction	ICP-AES, ICP-MS, Leco SC-32-analyser	ICP-AES: Ba,Co,Cr,Cu,Li,Ni,Sr,V,Y,Al,Ca,Fe,K,Mn,Na,P,Zn,Ti,La ICP- MS: Ag,As,B,Be,Bi,Cd,Mo,Pb,Sb,Se,Th,Tl, U,Sc,Cs Leco: S
		Till, <0.06mm	1,045	<0.06 mm	$HCl+HNO_3$ No extraction	ICP-AES, AAS, Leco SC-32-analyser	ICP-AES: Ag,As,B,Ba,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Th,U,V,Y,Zr, Al,Ca,Fe,K,Mg,Mn,Na,P,Sc,Si,Zn,Ti,La,W,Yb AAS:Au Leco: S
Geochemical Atlas of Lithuania (Kadunas et al. 1999)	9	Upper soil layer	2,683	<1 mm	Ashing	OES, XRF, GD	OES: Ag,B,Ba,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,V,Y,Zr,Al,Mn,P,Sc,Zn,Ti,Nb,La,Ga,Yb,Sn; XRF: As,Rb,Th,U; GD: LOI
		Mineral soil C-horizon	67	<1 mm	Ashing	OES, XRF, GD	OES: Ag,B,Ba,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,V,Y,Zr,Al,Mn,P,Sc,Zn,Ti,Nb,La,Ga,Yb,Sn; XRF: As,Rb,Th,U; GD: LOI
		Stream sediment	717	<0.1 mm	Ashing	OES, XRF, GD	OES: Ag,B,Ba,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,V,Y,Zr,Al,Mn,P,Sc,Zn,Ti,Nb,La,Ga,Yb,Sn; XRF: As,Rb,Th,U; GD: LOI
Geochemical Atlas of Estonia (Petersel et al. 1997)	10	Upper soil layer	1,282	0.07 mm	Total content Acid extraction No extraction	AAS, Colorimetry, Flame fotometry, Wet chemistry, SQSEA, XRF	AAS: Cd,Cu,Mn,Zn Colorimetry: P Flame fotometry: K,Na Wet chemistry: Ca,Fe,Mg SQSEA: B,Ba,Be,Co,Cr,Mo,Ni,Se,V,Sn XRF: Pb,Rb,Sr,Th,U,Y,Zr,Nb
		Mineral soil C-horizon	557	<2 mm	$HCl+HNO_3+HF$	ICP-AES	Ag,B,Ba,Be,Ga,F,Fe,Ca,Co,Cr,Cu,K,Mg,Mn.MoNa,Nb,Ni,P,Pb,Rb,Sc,Sr,Y,Th,U,V,Zn,Zr
		Stream sediment	22		Total content	OES	Ag,As,Be,Bi,Cd,Co,Cr,Cu,F,Ga,Ge,La,Mn,Mo,Nb,Ni,P,Pb,Rb,S,Sc,Sn,Sr,Th,Ti,U,V,Y,Yb,Zn,Zr
Geochemical Atlas of Norway (Nåjstad et al. 1994, Ottesen et al. 2000)	11	Organic soil horizon	527	<2 mm	HNO_3	ICP-AES	Ag,B,Ba,Be,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,V,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,Sc,Si,Zn,Ti,Ce,La
		Stream sediment	690	<0.06 mm	HNO_3	ICP-AES, AAS	ICP-AES: Ba,Co,Cr,Li,Ni,Sr,V,Al,Ca,Fe,K,Mg,Mn,Na,P,Sc,Zn,Ce,La; AAS: As,Bi,Se,Cu,Mo,Pb
		Till	483	<0.06 mm	HNO_3	ICP-AES	Ag,B,Ba,Be,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,V,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,Sc,Si,Zn,Ti,Ce,La
Geochemical Atlas of Sweden (Lax and Selinus 2005)	12	Till	1,340	<0.06 mm	$HCl+HNO_3$	ICP-AES, ICP-MS	ICP-AES: Be,Co,Cr,Cu,Li,Ni,Pb,Sr,V,Zn,La; ICP-MS: As,Bi,Cu,Mo,Sb,Sn,Au;
		Till	1,797	<0.06 mm	No extraction	XRF	XRF: Na_2O,MgO,Al_2O_3,P_2O_5,K_2O,CaO,TiO_2,MnO,Fe_2O_3,BaO
		Till	460	<0.06 mm	7M HNO_3	ICP-MS,	ICP-MS: Ag,As,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Rb,Se,Sr,Th,Tl,U,V,Y,Zn,La;

Geoecological mapping at the scale of 1:000,000 on the eastern part of the Murmansk region	13	Moss	228		Ashing	SQSEA	Ag,As,Ba,Be,Bi,Cd,Ce,Co,Cr,Cu,Ga,La,Li,Mn,Mo,Nb,Ni,P,Pb,Sb,Sc,Sn,Sr,Ti,V,Y,.Yb,Zn,Zr
		Moss	80		Acid extraction	Wet chemistry, AAS, Flame photometry, Colorimetry	Wet chemistry: Al,Ca,Fe,Mg,S AAS: Co,Cr,Cu,Mn,Ni,Pb,Sr,Ti,Zn Flame photometry: K, Na Colorimetry: P
		Organic soil horizon	231	<2 mm	Ashing	SQSEA	Ag,As,Ba,Be,Bi,Cd,Ce,Co,Cr,Cu,Ga,La,Li,Mn,Mo,Nb,Ni,P,Pb,Sb,Sc,Sn,Sr,Ti,V,Y,.Yb,Zn,Zr
		Organic soil horizon	89	<2 mm	Total content	Wet chemistry, AAS, Flame photometry, Colorimetry	Wet chemistry: Al,Ca,Fe,Mg,S AAS: Co,Cr,Cu,Mn,Ni,Pb,Sr,Ti,Zn Flame photometry: K, Na Colorimetry: P
		Mineral soil C-horizon	257	<2 mm	No extraction	SQSEA	Ag,As,Ba,Be,Bi,Cd,Ce,Co,Cr,Cu,Ga,La,Li,Mn,Mo,Nb,Ni,P,Pb,Sb,Sc,Sn,Sr,Ti,V,Y,.Yb,Zn,Zr
		Mineral soil C-horizon	92	<2 mm	Total content	Wet chemistry, AAS, Flame photometry, Colorimetry	Wet chemistry: Al,Ca,Fe,Mg,S AAS: Co,Cr,Cu,Mn,Ni,Pb,Sr,Ti,Zn Flame photometry: K, Na Colorimetry: P
		Stream sediment	249	<0.07 mm	No extraction	SQSEA	Ag,As,Ba,Be,Bi,Cd,Ce,Co,Cr,Cu,Ga,La,Li,Mn,Mo,Nb,Ni,P,Pb,Sb,Sc,Sn,Sr,Ti,V,Y,.Yb,Zn,Zr
		Stream sediment	86	<2 mm	Total content	Wet chemistry, AAS, Flame photometry, Colorimetry	Wet chemistry: Al,Ca,Fe,Mg,S AAS: Co,Cr,Cu,Mn,Ni,Pb,Sr,Ti,Zn Flame photometry: K, Na Colorimetry: P
Multi-purpose Geochemical Mapping at the scale of 1:1,000,000 (MGCHM-1000), Kola polygon	14	Upper soil layer	555	<2 mm	Ashing	SQSEA	Ag,B,Ba,Be,Bi,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,Th,U,V,Y,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,Zn,Ti,Ga,Ge,Sn
		Stream sediment	598		No extraction	SQSEA	Ag,B,Ba,Be,Bi,Ce,Co,Cr,Cu,La,Li,Mo,Ni,Nb,Pb,Sr,Sc,Th,U,V,Y,Yb,Zr,Al,Ca,Fe,K,Mg,Mn, Na,P,Zn,Ti,Ga,Ge,Sn
		Till	580		No extraction	SQSEA	Ag,As,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Al,Fe,Mg,Mn,P,S,Sc,Zn,Ti,Ce,Nb,La, Ga,Ge,Ta,W,Yb,Na2O,P2O5,K2O,Sn,Hf
Geochemical Basic Maps (GCHBM-1000) for State Geological Map at the scale of 1:1,000,000, map sheets Q-35,36	15	Upper soil layer	1,073	<2 mm	No extraction No extraction Acid extraction	SQSEA, XRF, Flame fotometry	SQSEA: Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Th,Tl,U,V,Y,Zr, Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,Ta,W,Yb,Sn, Au; XRF :As,Th,U; Flame fotometry: Li,Rb,Cs
		Stream sediment	1,050		No extraction No extraction Acid extraction	SQSEA, XRF, Flame fotometry	SQSEA: Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Th,Tl,U,V,Y,Zr, Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,Ta,W,Yb,Sn, Au; XRF: As,Th,U; Flame fotometry: Li,Rb,Cs
		Till	1,063	<0.06 mm	No extraction No extraction Acid extraction	SQSEA, XRF, Flame fotometry	SQSEA: Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Th,Tl,U,V,Y,Zr, Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,Ta,W,Yb,Sn, Au; XRF: As,Th,U; Flame fotometry: Li,Rb,Cs
GCHBM-1000, map sheets P-35,36	16	Upper soil layer	912	<2 mm	Ashing	SQSEA	Ag,B,Ba,Be,Bi,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,Th,U,V,Y,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,Zn,Ti,Ga,Ge,Sn
		Stream sediment	782	<2 mm	Ashing	SQSEA	Ag,B,Ba,Be,Bi,Co,Cr,Cu,Li,Mo,Ni,Pb,Sr,Th,U,V,Y,Zr,Al,Ca,Fe,K,Mg,Mn,Na,P,Zn,Ti,Ga,Ge,Sn
GCHBM-1000, map sheet Q-37	17	Stream sediment	328	<0.1 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
		Till	53	<0.06 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn

GCHBM-1000, map sheet P-37	18	Stream sediment	312	<0.1 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
		Till, <0,06mm	160	<0.06 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
GCHBM-1000, map sheet Q-38	19	Stream sediment	291	<0.1 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
		Till	13	<0.06 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
GCHBM-1000, map sheet P-38	20	Stream sediment	643	<0.1 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
		Till	225	<0.06 mm	No extraction	SQSEA	Ag,As,B,Ba,Be,Bi,Cd,Co,Cr,Cu,Li,Mo,Ni,Pb,Sb,Sr,Tl,V,Y,Zr,Mn,P,Sc,Zn,Ti,Ce,Nb,La,Ga,Ge,W, Yb,Sn
GCHBM-1000, map sheet O-35	24	Upper soil layer	622	<1 mm	Ashing	SQSEA	Li,Be,B,F,P,Sc,Ti,V,Cr,Mn,Co,Ni,Cu,Zn,Ga,Ge,As,Sr,Y,Zr,Nb,Mo,Ag,Cd,In,Sn,Sb,Ba,La,Yb,Ta, W,Pb,Bi
		Stream sediment	620	<1 mm	No extraction, $HCl+NHO_3$+ carbon absorbing	SQSEA, SQSEA	Li,Be,B,F,P,Sc,Ti,V,Cr,Mn,Co,Ni,Cu,ZnN,Ga,Ge,As,Sr,Y,Zr,Nb,Mo,Ag,Cd,In,Sn,Sb,Ba,La,Yb,Ta, W,Pb,BI Spectrometer DFS-13: Au
Geoecological Investigations and Mapping at the scale of 1:1,000,000 (GEIM-1000), map sheets O-35,P-35	21	Upper soil layer	1,725	<1 mm	Ashing No extraction	SQSEA, XRF, GD	SQSEA: Ag,B,Ba,Co,Cr,Cu,Ga,Li,Mn,Mo,Nb,Ni,P,Pb,Sn,Ti,V,Zn,Zr; XRF: Sr,Th,U GD: Ash content
		Stream sediment	873		Ashing	SQSEA	Co,Cr,Cu,Mn,Mo,Ni,Pb,Sn,Ti,V,Zn
GEIM-1000, map sheet O-36	22	Upper soil layer	465	<2 mm	Ashing, No extraction	SQSEA, GD	SQSEA: Ag,Ba,Bi,Co,Cr,Cu,Ga,Ge,Li,Mn,Mo,Nb,Ni,P,Pb,Sn,Sr,Th,Ti,U,V,Zn,Zr, GD: Ash content
		Stream sediment	282		Ashing, No extraction	SQSEA, XRF GD	SQSEA:Ag,B,Ba,Co,Cr,Cu,Ga,Ge,Li,Mn,Mo,Nb,Ni,P,Pb,Sn,Sr,Ti,V,Zn,Zr; XRF: Sr,U Ash content
GEIM-1000, map sheet O-37	23	Upper soil layer	797	<2 mm	Ashing, No extraction	SQSEA, GD	SQSEA: Ag,Ba,CoCr,Cu,Ga,Ge,Li,Mn,Mo,Nb,Ni,P,Pb,Sc,Sn,Ti,V,Y,Zn,Zr GD: Ash content
		Stream sediment	200		Ashing, No extraction	SQSEA, GD	SQSEA: Ag,Ba,CoCr,Cu,Ga,Ge,Li,Mn,Mo,Nb,Ni,P,Pb,Sc,Sn,Ti,V,Y,Zn,Zr GD: Ash content
Fallouts of heavy metals by moss monitoring in Norway (Buse et al. 2003.)	25	Moss	464		HNO_3	ICP-MS	Ag,Al,As,Ba,Be,Bi,Ca,Cd,Ce,Co,Cr,Cs,Cu,Dy,Er,Eu,Fe,Ga,Gd,Hf,Hg,Ho,La,Li,Mg,Mn,Mo,Nb,Nd, Ni,Pb,Pr,Rb,Sb,Sm,Sn,Sr,Ta,Tb,Th,Ti,Tl,Tm,U,W,Y,Yb,Zn,Zr
Geochemical Atlas of Latvia (Gilucis and Seglins 2003)	26	Organic soil horizon	268	<2mm	$HCl+HNO_3$	ICP-MS	Ag,As,B,Ba,Bi,Cd,Co,Cr,Cu,Mo,Ni,Pb,Sb,Se,Sr,Th,Tl,U,V,Al,Ca,Fe,K,Mg,Mn,Na,P,Zn,Ti,La,Ga, W,Te,Au
		Upper soil layer	288	<2mm	$HCl+HNO_3$	ICP-MS	Ag,As,B,Ba,Bi,Cd,Co,Cr,Cu,Mo,Ni,Pb,Sb,Se,Sr,Th,Tl,U,V,Al,Ca,Fe,K,Mg,Mn,Na,P,Zn,Ti,La,Ga, W,Te,Au
		Mineral soil C-horizon	195	<2mm	$HCl+HNO_3$	ICP-MS	Ag,As,B,Ba,Bi,Cd,Co,Cr,Cu,Mo,Ni,Pb,Sb,Se,Sr,Th,Tl,U,V,Al,Ca,Fe,K,Mg,Mn,Na,P,Zn,Ti,La,Ga, W,Te,Au
Agricultural soils of Sweden (Eriksson et al. 1997)	27	Upper soil layer	4,663	<2mm	$HCl+HNO_3$ No extraction	ICP-MS XRF	ICP-MS: As,B,Cd,Co,Cr,Cs,Cu,Hg,Mn,Mo,Ni,Pb,Se,Sr,V,Zn, XRF: Ca,Mg,K,Na