The mobility of aluminium, iron and organic matter in acidic

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Appendix: description and characterization of the soils studied within the framework of this thesis

't Harde: Haplic Podzol

Table 1
Description of the location

Location	ASK Oldebroek, Oldebroeksche Heide, Community of Oldebroek, province of Gelderland, The Netherlands
Coordinates	52° 24' N, 5° 55' E
Elevation (m)	25
Slope	Class 1 – almost flat (2%)
Groundwater class	VII
Plant species	Calluna vulgaris, Molinia caerulea, Deschampsia flexuosa, Pinus sylvestris, Betula pendula, Empetrum nigrum, Juniperus communis
Parent material	Coversand; fluvioglacial deposit
Climate	Temperate, humid, mean annual precipitation 800 mm

Table 2
Description of the soil profile

Depth (cm):	Horizon:	Description:	Color (Munsel scale; field moist):
+4 - +3.5	L	Relatively fresh litter; abrupt and wavy boundary to F	
+3.5 - +0.5	F	Dark brown fermentation layer; abrupt and wavy boundary to H	
+0.5 - 0	H	Black humus layer; slight admixture of bleached sand grains; abundant roots; abrupt and wavy boundary to AE	10 YR 1/1
0 - 8	AE	Bleached eluvial layer; frequent roots; abrupt and smooth boundary to Bhs1	10 YR 3/1
8 - 14	Bhs1	Illuvial layer; few roots; clear and smooth boundary to Bhs2/BC	7.5 YR 2.5/2
14 - 45	Bhs2/BC	Illuvial layer; few roots; clear and wavy boundary to 2Bhs1b	10 YR 3/6
45 - 52	2Bhs1b	Buried illuvial layer; few roots; abrupt and smooth boundary to 2Bhs2b	10 YR 2/1
52 - 75	2Bhs2b	Buried illuvial layer; few roots; clear and wavy boundary to 2Bsb	10 YR 2/1
75 - 85	2Bsb	Buried illuvial layer; few roots; clear and wavy boundary to 2BCb	7.5 YR 2.5/2
85+	2BCb	Buried illuvial layer; few roots	10 YR 4/4

Buunderkamp: Fimic Anthrosol

Table 3
Description of the location

Location	Boswachterij Oostereng, Community of Ede, province of Gelderland, The Netherlands
Coordinates	52° 02' N, 5° 48' E
Elevation (m)	27
Slope	Class 1 – almost flat (2%)
Groundwater class	VII
Plant species	Quercus robur
Parent material	Coversand; Preglacial, fluviatile deposit of the river Rhine
Climate	Temperate, humid, mean annual precipitation 800 mm

Table 4
Description of the soil profile

Depth (cm):	Horizon:	Description:	Color (Munsel scale; field moist):
+4.5 - +3	L	Relatively fresh litter; abrupt and wavy boundary to F	
+3 - +1	F	Dark brown fermentation layer; abrupt and wavy boundary to H	
+1 - 0	H	Black humus layer; slight admixture of bleached sand grains; abundant roots; abrupt and wavy boundary to AhE	10 YR 1/1
0 - 2	AhE	Bleached eluvial layer; coarse angular sand, abundant gravel; frequent roots; abrupt and wavy boundary to Bhs	10 YR 3/1
2 - 7	Bhs	Illuvial layer; coarse angular sand, abundant gravel; few roots; clear and wavy boundary to BC	10 YR 3/3
7 - 18	BC	Illuvial layer; coarse angular sand; few roots; abrupt and wavy boundary to 2Aanb	10 YR 3/4
18 - 55	2Aanb	Buried disturbed layer; coversand; abundant roots; clear and wavy boundary to 2Bsb	
55 - 67	2Bsb	Buried illuvial layer; coversand; few roots; clear and wavy boundary to 3BCb	
67 - 82	3BCb	Buried illuvial layer; coarse angular sand; few roots; gradual and wavy boundary to 3Cb	
82+	3Cb	Coarse angular sand; few roots	