

Little Ouse Headwaters Project

Peat survey Log of Soil Cores

**To accompany Figure 2b:
Soil Core Locations and Zones of Peat Depth**

By

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This log is a complete set of the cores presented in Figure 2b. The tables constituting the log are presented in the order of fieldwork: the columns in each table are specific to the set of cores taken during a particular trip.

Blo'Norton Cores

| Core | Vegetation | Standing water | Sand 1 | Head | Earthy peat | Raw peat | Slurry | Fen peat | Shelly marl | Woody peat | Fen peat | Sand 2 | Head | Chalky till | Water table | End of core |
|------|--------------|----------------|--------|------|-------------|----------|--------|----------|-------------|------------|----------|--------|------|-------------|-------------|-------------|
| 2 | Ruderal | | 0 | 20 | 54 | | | 83 | | | | 130 | | | | 157 |
| 19 | Grass | | | | | | | | | | | 0 | 17 | 63 | | 105 |
| 37 | Alder | 0 | | | | | | | | 2 | | | | | | 225 |
| 38 | Grass | | | | 0 | | | 60 | | 75 | | | | | 62 | 225 |
| 39 | Salix scrub | | | | | | | | | 0 | | 161 | | | | 225 |
| 40 | Nettle | | | | 0 | | | | | 20 | 146 | | | | | 225 |
| 41 | Alder | | | | | | | | | 0 | | | | | | 225 |
| 42 | Salix scrub | | | | | | | | 0 | | 31 | | | | | 225 |
| 43 | Reed | | | | 0 | | | | | 52 | 92 | | | | | 225 |
| 44 | Reed | | | | 0 | | | | | 58 | 116 | | | | | 225 |
| 45 | Reed | | | | 0 | | | | | 51 | 118 | | | | Rose to 5 | 225 |
| 46 | Alder | 0 | | | | | | | | 1 | 122 | | | | | 225 |
| 59 | Nettle | | | | 0 | | | | | 8 | | 103 | | | | 139 |
| 60 | Alder | 0 | | | | | | | | 4 | | 205 | | | | 225 |
| 61 | Carex elata | | | | | 0 | 25 | | 140 | | | | | | | 225 |
| 62 | Reed | 0 | | | | 11 | | 73 | 120 | | | | | | | 225 |
| 63 | Reed | 0 | | | | 11 | 37 | | | | | | | | | 225 |
| 64 | Reed | | | | | 0 | 43 | | | | | | | | | 225 |
| 65 | Reed | 0 | | | 3 | | | 79 | | | | | | | | 225 |
| 77 | Willow scrub | | | | 0 | | 92 | 92 | | | | | | | Rose to 30 | 225 |
| 78 | Reed | 0 | | | 22 | | | 34 | | | | 108 | | | | 225 |
| 79 | Reed | | | | | 0 | 24 | 24 | | | | 134 | | | | 225 |
| 80 | Reed | | | | | 0 | 22 | 22 | | | | 142 | | | | 225 |
| 81 | Reed | 0 | | | | 21 | 45 | 45 | | | | 129 | | | | 225 |
| 82 | Alder | 0 | | | 1 | | | | | 19 | | 83 | | | | 225 |
| 83 | Alder | | | | 0 | | | | | | | 17 | | | | 225 |
| 84 | Reed | | | | | | | | | 0 | | 32 | | | | 225 |

Thelnetham Fen

| Core | Habitat | Surface water | Earthy peat | Sand | Clay | Raw peat | Organic mud | Earthy peat | Woody peat | Fen peat | Organic mud | Sand | End of core | Water table | AOD | Sand OD |
|------|--------------------|---------------|-------------|------|------|----------|-------------|-------------|------------|----------|-------------|------|-------------|-------------|-------|---------|
| 29 | Fen | 0 | | | | 0 | | | | | 17 | 71 | 106 | 0 | 22.1 | |
| 30 | Fen | 0 | | | | 0 | | | | | 15 | 215 | 225 | 0 | 22.17 | |
| 31 | Fen | 0 | | | | 0 | | | | | 14 | | 225 | 0 | 22.0 | |
| 32 | Fen | 0 | | | | 0 | | | | | 15 | | 225 | 0 | 22.05 | |
| 33 | Fen | 0 | | | | 0 | | | | | 35 | | 225 | 0 | 21.75 | |
| 47 | Nettlebed | | | 0 | 41 | | | | 81 | | 139 | | 225 | 85 | | |
| 48 | Nettlebed | | 0 | | 17 | | | | 51 | 107 | 143 | | 225 | 32 | | |
| 49 | Improved grassland | | 0 | 27 | | | | | 48 | 95 | 161 | | 225 | 31 | | |
| 50 | Improved grassland | | 0 | | | | | | 42 | 115 | 145 | | 225 | 44 | | |
| 66 | Alderwood | 0 | | | | | 4 | 105 | | 144 | | 156 | 225 | 0 | | |
| 67 | Alderwood | | | 0 | | | | 31 | 73 | | 142 | 195 | 225 | 31 | | |
| 68 | Reed/sedge | | 0 | | 15 | | | | 56 | | | 143 | 181 | | | |
| 69 | Rough grassland | | | | | | | | 0 | | | 51 | 89 | | | |
| 70 | Rough grassland | | | | | | | | | | | 0 | 54 | | | 2270 |
| 71 | Saw sedge | | | | | | | | 0 | | | 81 | 124 | 0 | | 2146 |
| 72 | Alderwood | | | | | 0 | | | | | 15 | 51 | 101 | 15 | | 2186 |
| 73 | Fen | 0 | | | | 10 | | | | | 23 | 51 | 107 | 0 | | 2174 |
| 74 | Fen | 0 | | | | 5 | | | | | 19 | 65 | 105 | 0 | | 2161 |
| 75 | Alderwood | | | | | 0 | | | | | 12 | 82 | 111 | 0 | | 2138 |
| 76 | Alderwood | | 0 | 11 | | | | 45 | | 80 | | 149 | 206 | 24 | | 2069 |

| Cores from centre of channel | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|-------|-------------|------|------------|------------|------------|------------|------------|------------|------------|------|----------|-------------|------------|----------|----------|--------|------|-------------|-------------|-----------|-------------------------|
| Core | Vegetation | Water | Moder humus | Clay | Loamy sand | Silty sand | Humic sand | Peaty sand | Sandy silt | Silty clay | Sandy clay | Sand | Raw peat | Earthy peat | Woody peat | Fen peat | Lake mud | Slurry | Sand | Water table | End of core | | |
| 86 | Set-aside | | | | | | 0 | 36 | | | | 96 | | | | | | | | 23 | 110 | | |
| 87 | Set-aside | | | | 0 | | | | | | | 47 | | | | | | | | | 105 | Mottling | |
| 92 | Set-aside | | | | | 0 | | 60 | | | | | | | | | | | | 62 | 120 | In linear | |
| 93 | Alder | | 0 | | | | | | | | | | | 9 | | 23 | | | 29 | 24 | 86 | | |
| 94 | Alder | | | | | | | 0 | | | | | | | | | | | 42 | 22 | 72 | | |
| 95 | Alder | | | | | | | | | | | | 0 | | | | | | 14 | 42 | 104 | Extension | |
| 97 | Set-aside | | | | 0 | | | | | | | 35 | | | | | | | | | 105 | Mottles | |
| 98 | Alder | | | | | | | | | | | | 0 | | | | | | | 31 | 2 | 57 | Average peat depth of 6 |
| 102 | Arable | | | | | | | | | 0 | 19 | | | 43 | | | | | | 69 | | 102 | |
| 103 | Arable | | | | | | | | | 0 | 15 | | | 51 | | | | | | 90 | 39 | 104 | |
| 104 | Arable | | | | | | | | | 0 | 20 | | | 54 | | | | | | 81 | 41 | 105 | |
| 105 | Arable | | | | | | | | | 0 | 26 | | | 58 | | | | | | 77 | | 101 | |
| 106 | Arable | | | | | | | | | 0 | 35 | | | | | | | | | 67 | | 89 | |
| 107 | Arable | | | | | | | | | 0 | | | | 63 | | | | | | 80 | 27 | 92 | |
| 108 | Arable | | | | | | | | | 0 | | | | 41 | | | | | | 68 | 27 | 84 | |
| 109 | Arable | | | | | | | | 0 | 14 | | | | 52 | | | | | | 66 | 16 | 72 | In linear |
| 110 | Arable | | | | 0 | | | | | | | | | | | | | | | 33 | 27 | 76 | |
| 111 | Arable | | | | 0 | | | | | | | | | | | | | | | 32 | | 84 | On |
| 112 | Arable | | | | | 0 | | | | | | | | | | 52 | | | | 87 | 28 | 104 | On |
| 113 | Arable | | | | 0 | | | | | | | | | | | | | | | 28 | | 77 | |
| 114 | Arable | | | | 0 | | | | | | | | | 34 | | | | | | 50 | 62 | 78 | Near edge of |
| 115 | Alder | | | | | | | | | | | | 0 | | | | | | | 35 | 3 | 62 | Core on edge of |
| 116 | Birchwood | | 0 | | | | | | | | | | | 12 | | | | | | 20 | 22 | 51 | Hollow in |
| 117 | Reed/sedge | 0 | | | | | | | | | | | 4 | | | 18 | | | | 108 | 0 | 145 | Base of peat, and sand, |
| 118 | Arable | | | 0 | | | | | | | | | | | | | | | | | | 44 | Chalky till |
| 119 | Arable | | | | | | 0 | | | | | 31 | | | | | | | | | | 58 | Humic sand over moist, |
| 120 | Arable | | | | | | 0 | | | | | 32 | | | | | | | | | | 64 | Humic sand over moist, |
| 121 | Arable | | | | | 0 | | | | | | 35 | | | | | | | | | 21 | 104 | Peaty silty sand over |
| 122 | Salix scrub | | | | | | | | | | | | | 0 | | 14 | | | | 77 | 47 | 119 | Peat contained |
| 123 | Reed | 0 | | | | | | | | | | | 25 | | | 49 | | 53 | | | 0 | 225 | Edge of recent |
| 124 | Reedbed | 0 | | | | | | | | | | | 6 | | | 13 | | 49 | 80 | | 0 | 152 | Edge of recent |
| 125 | Grass | | | | 0 | | | 16 | | | | 28 | | | | | | | | | 82 | 96 | Yellow topsoil is |
| 126 | Arable | | | | 0 | | | | | | | 27 | | | | | | | | | | 101 | Mottles |
| 127 | Arable | | | | 0 | | | | | | | 28 | | | | | | | | | | 120 | Mottling |

Frith and Lows cores

| Core | Vegetation | Peaty sand | Loamy sand | Sand | Clay | Earthy peat | Water | Lake mud | Woody peat | Fen peat | Slurry | Sand | Water table | End of core | |
|------|------------|------------|------------|------|------|-------------|-------|----------|------------|----------|--------|------|-------------|-------------|---|
| 160 | Grass | | | 0 | 64 | | | | 72 | 103 | | 170 | 31 | 208 | |
| 161 | Wet grass | | | | | 0 | | | | 52 | | | 9 | 225 | |
| 162 | Wet grass | | | | | | | 0 | | 57 | | | 0 | 225 | |
| 163 | Wet grass | | | | | | | 0 | | 63 | | | 0 | 225 | Watertable rose from 63 |
| 164 | Reedbed | | | | | | | | 0 | 73 | 73 | | 0 | 225 | Watertable rose from 73 |
| 169 | Reedbed | | | | | | | | 0 | 58 | 84 | | 7 | 225 | Watertable rose from 84 |
| 172 | Alder | | | | | | 0 | | 14 | 30 | | 164 | 0 | 225 | |
| 173 | Alder | | | | | | | | 0 | 58 | | 149 | 0 | 204 | |
| 174 | Birch | | | 0 | | | | | 10 | 107 | | 182 | 19 | 225 | Top 10cm peaty sand |
| 175 | Birch | | | | | | | 0 | | | | 133 | 16 | 225 | |
| 176 | Reedbed | | | | | | | 0 | | | | 144 | 4 | 225 | |
| 177 | Grass | | | | 0 | | | | 47 | 86 | | 161 | 5 | 205 | |
| 178 | Arable | | | | | | | | | | | 0 | | 46 | |
| 179 | Aspen | | | | | | | | 0 | | | 42 | | 105 | |
| 180 | Wet grass | 0 | | 42 | | | | | | | | | 36 | 110 | |
| 181 | Rushes | | | | | 0 | | | | 72 | | 84 | 14 | 110 | |
| 182 | Rushes | | | | | 0 | | | | | | 77 | | 110 | |
| 183 | Wet grass | 0 | | 32 | | | | | | | | | | 110 | Sand lightly mottled from 32cm |
| 184 | Nettlebed | | 0 | 28 | | | | | | | | | | 61 | |
| 186 | Grass | | 0 | 32 | | | | | | | | | | 110 | Mottles from 76cm |
| 187 | Grass | | 0 | 33 | | | | | | | | | | 110 | Mottles from 41cm |
| 193 | Grass | 0 | | 25 | | | | | | | | | | 45 | |
| 216 | Rushes | | | | | 0 | | | | 55 | | 61 | 23 | 138 | |
| 217 | Rushes | 0 | | | | 27 | | | | | | 63 | 28 | 146 | |
| 218 | Wet grass | 0 | | 30 | | | | | | | | | | 110 | |
| 219 | Grass | 0 | | 32 | | | | | | | | | | 110 | Humic sand, with small chalk pebbles. Mottles from 32cm |
| 220 | Grass | | 0 | 34 | | | | | | | | | | 108 | Mottles from 52cm |
| 221 | Grass | | 0 | 35 | | | | | | | | | | 110 | Mottles from 43cm |
| 222 | Grass | | 0 | 38 | | | | | | | | | | 110 | Mottles from 36cm |
| 223 | Wet grass | 0 | | 43 | | | | | | | | | | 110 | |
| 224 | Grass | | 0 | 37 | | | | | | | | | | 110 | Mottles from 37cm |
| 225 | Grass | | 0 | 32 | | | | | | | | | | 109 | Mottles from 34cm |
| 226 | Grass | | 0 | 31 | | | | | | | | | | 110 | Mottles from 31cm |

