

# *THE HERITAGE NETWORK LTD*

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Archaeological Director: David Hillelson, BA MIFA

## HEARTWOOD FOREST Sandridge, Herts.

Project Ref.: HN793

### Auger Survey results

*Prepared on behalf of The Woodland Trust*

*by*

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***COMMENTARY***

Three transects were laid out in order to provide two soil profiles across the site, one running SE – NW and the other running NE – SW. Measurements were taken at 50m intervals. Transect 1 (points 1 – 42) ran for 2100m from NGR 517588 210707 (c.215m E of no.49 Langley Grove, Sandridge) to NGR 515984 212062 (c.105m W of Round Wood); Transect 2 (points 43 – 62) ran for 950m from NGR 518022 212479 (355m N of Alban House, Nomansland Farm) to NGR 517405 211757 (525m E of Hillend Farm); Transect 3 (points 63 – 104) ran for 2100m from NGR 515489 210773 (160m ENE of Cheapside Farm) to NGR 516848 212374 (255m W of the car-park on Nomansland Common).

The survey recorded the depth, colour and nature of the topsoil (or ploughsoil) and subsoil, and the colour and nature of the undisturbed drift geology. It established that there were no significant trends in the depths of the soils to indicate colluvial deposition. Transect 1 had an average depth of 0.39m with three isolated readings of more than 1m (points 10, 15 & 32); Transect 2 had an average depth of 0.40m with a group of readings of moderately greater depth on either side of Ferrers Lane (points 51 - 56); Transect 3 had an average depth of 0.31m with an isolated reading of 0.68m at point 75, which has been interpreted as a possible archaeological feature.



No.	Zone	Eastings	Northing	Topsoil (m)	O'burden (m)	Topsoil colour	Subsoil colour	Natural colour	Topsoil description	Subsoil description	Natural description
1	3.3	517588	210707	0.3	0.35	10YR 4/3 brown	10YR 5/6 yellowish brown	10YR 6/6 brownish yellow	firm silty clay, occ cbrm, occ charcoal	slightly silty clay, occ flint	Firm clay
2	3.3	517550	210739	0.3	n/a	10YR 4/3 brown	n/a	10YR 6/6 brownish yellow	Loose clayey silt	n/a	Firm clay
3	3.3	517512	210771	0.3	n/a	10YR 3/4 dark yellowish brown	n/a	10YR 6/6 brownish yellow	firm silty clay, contains organic substance	n/a	Firm clay
4	N/a	517474	210804	0.25	0.2	10YR 3/3 dark brown	10YR 5/4 yellowish brown	10YR 5/6 yellowish brown	firm silty clay	firm slightly silty clay, occ charcoal	firm clay
5	N/a	517435	210836	0.3	n/a	10YR 3/4 dark yellowish brown	n/a	10YR 6/6 brownish yellow	firm silty clay, mod organic inclusions	n/a	firm clay
6	N/a	517397	210868	0.25	n/a	10YR 4/3 brown	n/a	10YR 6/6 brownish yellow	firm silty clay, mod organic inclusions	n/a	firm clay
7	N/a	517359	210900	0.35	n/a	10YR 4/3 brown	n/a	10YR 6/6 brownish yellow	firm silty clay, occ small flint	n/a	firm clay with frequent flint
8	3.4	517321	210933	0.25	n/a	10YR 3/3 dark brown	n/a	7.5YR 4/6 strong brown	firm silty clay, occ small flint	n/a	clay with freq flint and sandstone
9	3.4	517283	210965	0.3	n/a	10YR 3/3 dark brown	n/a	7.5YR 4/6 strong brown over 7.5YR 8/2 pinkish white	firm silty clay	n/a	clay 0.08m thick over chalk marl clayey
10	5.9	517206	211029	0.35	0.80+	10YR 3/3 dark brown	10YR 4/6 dark yellowish brown	n/a	firm silty clay, mod small flint	firm slightly silty clay, occ small chalk flecks, freq small stones	n/a
11	5.9	517168	211062	0.25	0.30+	10YR 4/3 brown	10YR 4/4 dark yellowish brown	n/a	loose silt; mod small stones	firm silty clay, freq small stones	n/a
12	5.9	517130	211094	0.3	0.45	10YR 4/3 brown	10YR 4/4 dark yellowish brown	n/a	loose silt; occ small stones, mod organic	firm silty clay, mod small stones - colluvium?	n/a
13	5.9	517092	211126	0.3	0.35	10YR 4/3 brown	10YR 4/4 dark yellowish brown	10YR 5/4 yellowish brown	friable silty clay, occ small stones	firm silty clay, freq small stones - colluvium?	clay, occ small stones
14	5.9	517053	211158	0.3	0.3	10YR 3/3 dark brown	10YR 4/4 dark yellowish brown	10YR 5/4 yellowish brown	friable silty clay, mod small stones	firm silty clay, freq small stones	clay, occ small stones
15	5.9	517015	211191	0.3	0.85+	10YR 3/2 very dark greyish brown	10YR 4/3 brown	n/a	firm clayey silt	firm silty clay colluvium, occ large flint - colluvium?	n/a
16	5.9	516977	211223	0.3	0.2	10YR 3/2 very dark greyish brown	10YR 4/4 dark yellowish brown	10YR 5/4 yellowish brown	firm clayey silt	firm very silty clay - colluvium?	clay with freq chalk
17	5.9	516939	211255	0.3	0.1	10YR 3/2 very dark greyish brown	10YR 4/4 dark yellowish brown	10YR 5/4 yellowish brown	firm clayey silt	firm silty clay	clay with freq chalk
18	5.9	516901	211287	0.25	0.25	10YR 3/2 very dark greyish brown	10YR 4/4 dark yellowish brown	10YR 5/4 yellowish brown	firm silty clay	firm silty clay	clay with freq chalk
19	5.9	516862	211320	0.35	n/a	10YR 4/3 brown	n/a	10YR 8/3 very pale brown	friable silty clay	n/a	friable chalky clay marl
20	5.9	516824	211352	0.27	0.11	10YR 3/3 dark brown	10YR 4/4 dark yellowish brown	10YR 8/3 very pale brown	friable very silty clay	firm very silty clay	friable chalky clay marl
21	5.9	516786	211384	0.26	n/a	10YR 3/3 dark brown	n/a	10YR 8/3 very pale brown	firm silty clay, mod chalk flecks	n/a	friable chalky clay marl
22	5.9	516748	211417	0.25	n/a	10YR 3/2 very dark greyish brown	n/a	7.5YR 4/6 strong brown	firm very silty clay	n/a	firm slightly sandy clay

No.	Zone	Eastings	Northing	Topsoil (m)	Subsoil (m)	O'burden (m)	Topsoil colour	Subsoil colour	Natural colour	Topsoil description	Subsoil description	Natural description
23	5.9	516710	211449	0.26	0.19	0.45	10YR 3/3 dark brown	10YR 5/6 yellowish brown	10YR 6/6 brownish yellow	firm clayey silt	very sandy clay	clay with some sand
24	5.4	516671	211481	0.27	0.09	0.36	10YR 2/2 very dark brown	10YR 5/4 yellowish brown	10YR 6/6 brownish yellow	firm very silty clay	very sandy clay	clay with some sand
25	5.4	516633	211513	0.34	0.32	0.66	10YR 2/2 very dark brown	10YR 5/4 yellowish brown	10YR 6/6 brownish yellow	friable silty clay	very sandy clay	clay with some sand
26	5.4	516595	211546	0.28	0.28	0.56	10YR 2/2 very dark brown	10YR 5/4 yellowish brown	10YR 6/6 brownish yellow	friable very silty clay	very sandy clay	clay with some sand
27	5.4	516557	211578	0.4	na	0.4	10YR 2/2 very dark brown	n/a	10YR 5/6 yellowish brown	friable very silty clay	n/a	slightly sandy clay
28	5.4	516519	211610	0.4	n/a	0.4	10YR 2/2 very dark brown	n/a	10YR 5/6 yellowish brown	friable very silty clay	n/a	slightly sandy clay freq small stones
29	5.4	516480	211642	0.26	n/a	0.26	10YR 3/2 very dark greyish brown	n/a	10YR 5/6 yellowish brown	friable silty clay	n/a	clay
30	5.4	516442	211675	0.25	0.55	0.8	10YR 2/2 very dark brown	10YR 3/6	10YR 5/6 yellowish brown	firm very silty clay	very silty sandy clay - colluvium?	firm sandy clay
31	5.4	516404	211707	0.24	n/a	0.24	10YR 2/2 very dark brown	n/a	10YR 5/6 yellowish brown	firm very silty clay	n/a	clay
32	5.4	516366	211739	0.32	0.83+	1.15+	10YR 3/2 very dark greyish brown	10YR 3/6	n/a	friable very silty clay	very silty sandy clay colluvium	n/a
33	5.4	516330	211764	0.45	n/a	0.45	10YR 3/2 very dark greyish brown	n/a	10YR 5/6 yellowish brown	friable very silty clay	n/a	clay
34	5.4	516289	211804	0.32	n/a	0.32	10YR 3/2 very dark greyish brown	n/a	10YR 5/6 yellowish brown	friable silty clay	n/a	clay
35	5.2	516251	211836	0.27	0.24	0.51	10YR 3/3 dark brown	10YR 4/4 dark yellowish brown	7.5YR 5/6 strong brown	firm silty clay	firm silty clay	clay, freq small stones
36	5.2	516213	211868	0.3	0.26	0.56	10YR 3/3 dark brown	10YR 4/4 dark yellowish brown	7.5YR 5/6 strong brown	firm silty clay	firm silty clay	clay, freq small stones
37	5.2	516175	211900	0.3	0.1	0.4	10YR 3/3 dark brown	10YR 4/4 dark yellowish brown	7.5YR 5/6 strong brown	firm silty clay	firm silty clay	clay, freq small stones
38	5.2	516137	211933	0.4	n/a	0.4	10YR 3/2 very dark greyish brown	n/a	7.5YR 5/6 strong brown	friable silty clay	n/a	clay, freq small stones
39	5.2	516098	211965	0.35	n/a	0.35	10YR 3/2 very dark greyish brown	n/a	7.5YR 5/6 strong brown	firm silty clay	n/a	clay, freq small stones
40	5.2	516060	211997	0.35	0.4	0.75	10YR 3/2 very dark greyish brown	10YR 4/3 brown	10YR 4/6 strong brown	friable silty clay	firm silty clay, mod chalk flecks	clay
41	5.2	516022	212030	0.38	n/a	0.38	10YR 3/2 very dark greyish brown	n/a	7.5 YR 4/6 strong brown	firm silty clay	n/a	clay with flints
42	5.2	515984	212062	0.3	0.15	0.45	10YR 3/2 very dark greyish brown	7.5YR 4/4 brown	10YR 4/6 strong brown	firm silty clay	firm silty clay	very firm very silty clay colluvium
43	1.1	518022	212479	0.25	n/a	0.25	10YR 4/4 dark brownish yellow	n/a	7.5YR 5/8 strong brown	friable sandy silt, freq stones	n/a	firm sandy clay
44	1.1	517990	212441	0.26	n/a	0.26	10YR 3/4 dark yellowish brown	n/a	7.5YR 5/8 strong brown	firm silty clay, freq flint	n/a	firm slightly silty clay
45	1.1	517957	212403	0.35	n/a	0.35	10YR 3/4 dark yellowish brown	n/a	7.5YR 5/8 strong brown	firm silty clay, freq flint	n/a	firm slightly silty clay
46	1.1	517925	212365	0.29	n/a	0.29	10YR 3/4 dark yellowish brown	n/a	7.5YR 5/8 strong brown	firm slightly silty clay, freq flint	n/a	firm slightly silty clay

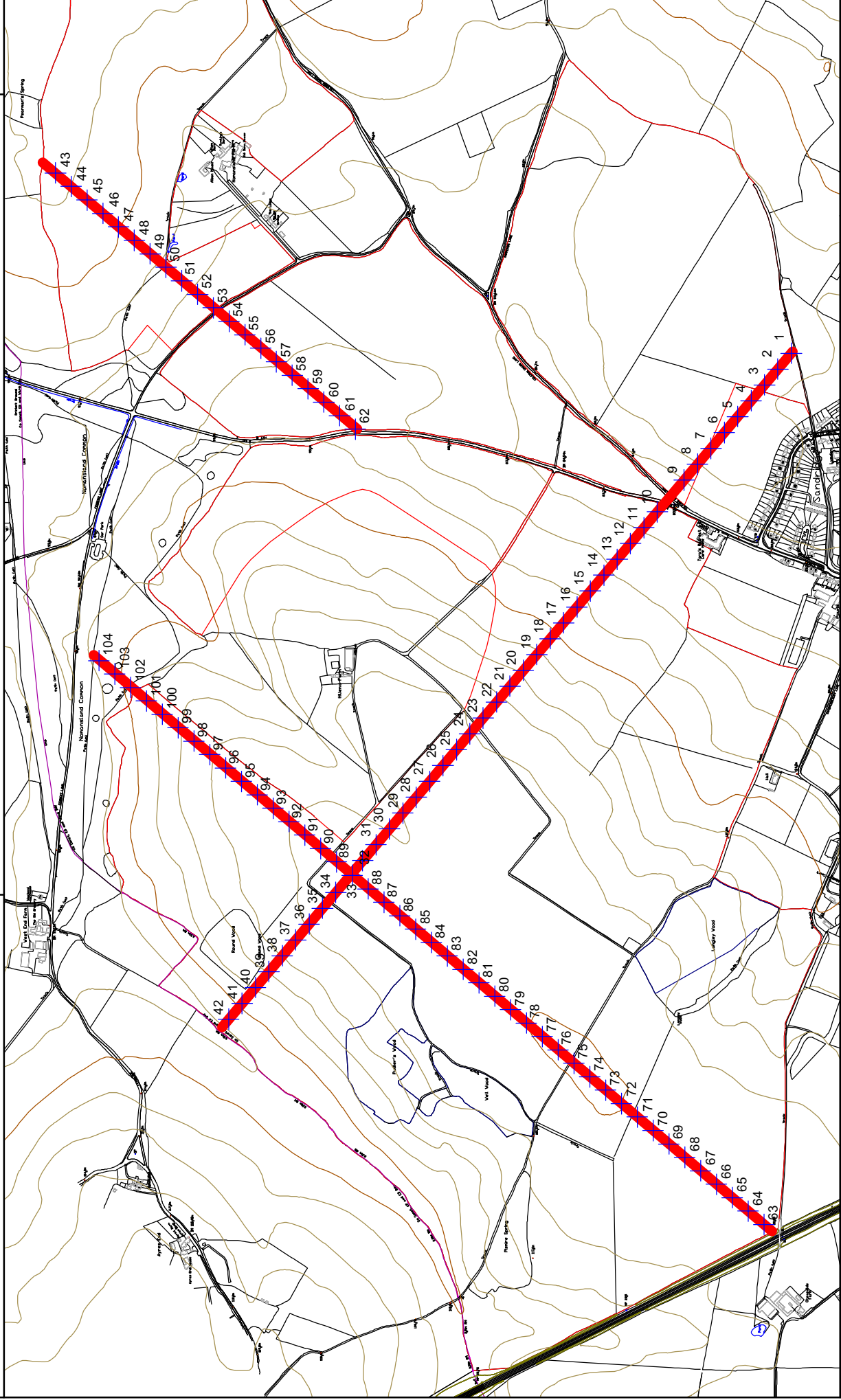
No.	Zone	Eastings	Northing	Topsoil (m)	Subsoil (m)	O'burden (m)	Topsoil colour	Subsoil colour	Natural colour	Topsoil description	Subsoil description	Natural description
47	1.1	517893	212327	0.35	n/a	0.35	10YR 5/4 yellowish brown	n/a	10YR 4/6 strong brown	firm slightly clayey silt, freq flint	n/a	firm clay
48	1.1	517860	212289	0.35	n/a	0.35	10YR 5/4 yellowish brown	n/a	10YR 4/6 strong brown	firm slightly clayey silt, freq flint	n/a	firm clay
49	1.1	517828	212251	0.38	n/a	0.38	10YR 4/4 dark brownish yellow	n/a	10YR 4/6 strong brown	friable clayey silt, freq flint	n/a	firm clay
50	1.3	517795	212213	0.45	0.25	0.7	10YR 4/4 dark brownish yellow	7.5YR 4/4 brown	7.5YR 5/6 strong brown	friable clayey silt, freq flint	form silty clay	firm clay
51	1.3	517763	212175	0.48	n/a	0.48	10YR 3/3 dark brown	n/a	7.5YR 5/8 strong brown	firm slightly silty clay, freq flint	slightly clay sand	slightly clay sand
52	1.3	517730	212137	0.55+	n/a	0.55+	10YR 3/4 dark yellowish brown	n/a	n/a	firm slightly silty clay, freq flints	n/a	n/a
53	1.3	517698	212099	0.40+	n/a	0.40+	10YR 3/3 dark brown	n/a	n/a	firm slightly silty clay, freq flints	n/a	n/a
54	2.1	517665	212061	0.3	0.52+	0.82+	10YR 3/3 dark brown	10YR 4/4 dark yellowish brown	n/a	firm slightly silty clay	sandy gravel	n/a
55	2.1	517633	212023	0.27	0.49	0.76	10YR 4/3 brown	10YR 4/6 dark yellowish brown	10YR 4/4 dark yellowish brown	firm slightly silty clay, mod large flint	firm silty clay	clayey sandy gravel
56	2.1	517600	211985	0.32	0.48	0.8	10YR 4/3 brown	10YR 4/6 dark yellowish brown	10YR 5/6 yellowish brown	firm slightly silty clay, mod large flint	firm silty clay	sandy clay
57	2.1	517568	211947	0.37	n/a	0.37	10YR 4/3 brown	n/a	10YR 4/4 dark yellowish brown	firm silty clay, freq large flints	n/a	clayey sandy gravel
58	2.1	517535	211909	0.44	0.31	0.75	10YR 4/4 dark brownish yellow	10YR 5/6 yellowish brown	10YR 4/6 strong brown	friable silty clay	firm silty clay, mod flints	clayey sandy gravel
59	2.1	517503	211871	0.38	n/a	0.38	10YR 3/4 dark yellowish brown	n/a	7.5YR 5/8 strong brown	friable silty clay	n/a	clay
60	2.1	517470	211833	0.37	n/a	0.37	10YR 3/4 dark yellowish brown	n/a	10YR 4/6 strong brown	firm silty clay	n/a	sandy gravel
61	2.1	517438	211795	0.32	n/a	0.32	10YR 3/4 dark yellowish brown	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	sandy clay
62	2.1	517405	211757	0.42	n/a	0.42	10YR 4/4 dark brownish yellow	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	sandy gravel
63	5.7	515489	210773	0.28	n/a	0.28	2.5Y 3/3 dark olive brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
64	5.7	515522	210811	0.29	n/a	0.29	2.5Y 3/3 dark olive brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
65	5.7	515554	210849	0.26	n/a	0.26	2.5Y 3/3 dark olive brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
66	5.7	515586	210887	0.29	n/a	0.29	2.5Y 3/3 dark olive brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
67	5.7	515619	210925	0.28	n/a	0.28	2.5Y 3/3 dark olive brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
68	5.7	515651	210963	0.33	n/a	0.33	2.5Y 3/3 dark olive brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
69	5.7	515684	211002	0.29	n/a	0.29	2.5Y 3/2 very dark greyish brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
70	5.7	515716	211040	0.29	n/a	0.29	10YR 4/3 brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay

No.	Zone	Eastings	Northing	Topsoil (m)	Subsoil (m)	O'burden (m)	Topsoil colour	Subsoil colour	Natural colour	Topsoil description	Subsoil description	Natural description
71	5.7	515748	211078	0.27	n/a	0.27	10YR 4/3 brown	n/a	10YR 5/8 yellowish brown	firm silty clay	n/a	firm clay
72	5.6	515781	211116	0.32	n/a	0.32	2.5Y 3/2 very dark greyish brown	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	firm clay
73	5.6	515813	211154	0.26	n/a	0.26	2.5Y 3/2 very dark greyish brown	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	firm clay
74	5.6	515845	211192	0.29	n/a	0.29	2.5Y 3/2 very dark greyish brown	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	firm clay
75	5.6	515878	211230	0.5	0.18	0.68	2.5Y 4/2 dark greyish brown	2.5Y 3/1 very dark grey, ?feature	10YR 5/6 yellowish brown	firm silty clay	firm silty clay with mod chalk and CBM and frequent charcoal inclusions	firm clay
76	5.3	515910	211268	0.28	n/a	0.28	2.5Y 4/2 dark greyish brown	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	firm clay with frequent large flint inclusions
77	5.3	515942	211307	0.32	n/a	0.32	2.5Y 4/2 dark greyish brown	n/a	10YR 5/6 yellowish brown	firm silty clay	n/a	firm clay with frequent large flint inclusions
78	5.3	515975	211345	0.31	n/a	0.31	2.5Y 4/2 dark greyish brown	n/a	10YR 5/6 yellowish brown	firm silty clay	n/a	firm clay with frequent large flint inclusions
79	5.3	516007	211383	0.27	n/a	0.27	2.5Y 3/2 very dark greyish brown	n/a	10YR 5/6 yellowish brown	firm silty clay	n/a	firm clay
80	5.3	516039	211421	0.28	n/a	0.28	10YR 3/3 dark brown	n/a	7.5YR 5/6 strong brown	friable, very silty clay	n/a	firm clay
81	5.3	516072	211459	0.3	n/a	0.3	10YR 4/2 dark greyish brown	n/a	7.5YR 5/6 strong brown	friable, very silty clay	n/a	firm clay
82	5.3	516104	211497	0.34	n/a	0.34	10YR 4/2 dark greyish brown	n/a	7.5YR 5/6 strong brown	friable, very silty clay	n/a	firm clay
83	5.3	516136	211535	0.26	n/a	0.26	10YR 4/2 dark greyish brown	n/a	7.5YR 5/6 strong brown	friable, very silty clay	n/a	firm clay
84	5.4	516169	211574	0.34	n/a	0.34	10YR 3/3 dark brown	n/a	10YR 4/6 strong brown	loose silt with frequent large flint inclusions	n/a	friable clayey gravel
85	5.4	516201	211612	0.35	n/a	0.35	10YR 3/3 dark brown	n/a	7.5YR 5/4 strong brown	friable silty clay	n/a	firm clay
86	5.4	516233	211650	0.25	n/a	0.25	10YR 3/3 dark brown	n/a	7.5YR 5/6 strong brown	friable silty clay with frequent medium size flint	n/a	firm clay
87	5.4	516266	211688	0.28	n/a	0.28	10YR 3/3 dark brown	n/a	7.5YR 5/6 strong brown	friable silty clay with frequent medium size flint	n/a	firm clay
88	5.4	516298	211726	0.25	n/a	0.25	10YR 3/3 dark brown	n/a	7.5YR 5/6 strong brown	friable silty clay with frequent medium size flint	n/a	firm clay
89	5.4	516363	211802	0.28	n/a	0.28	10YR 3/3 dark brown	n/a	7.5YR 5/6 strong brown	friable silty clay with frequent medium size flint	n/a	firm clay
90	5.1	516395	211840	0.31	n/a	0.31	10YR 3/3 dark brown	n/a	7.5YR 5/6 strong brown	friable silty clay with frequent medium size flint	n/a	firm clay
91	5.1	516427	211879	0.24	n/a	0.24	10YR 3/3 dark brown	n/a	10YR 5/8 yellowish brown	friable silty clay with frequent medium size flint	n/a	gravelly clay



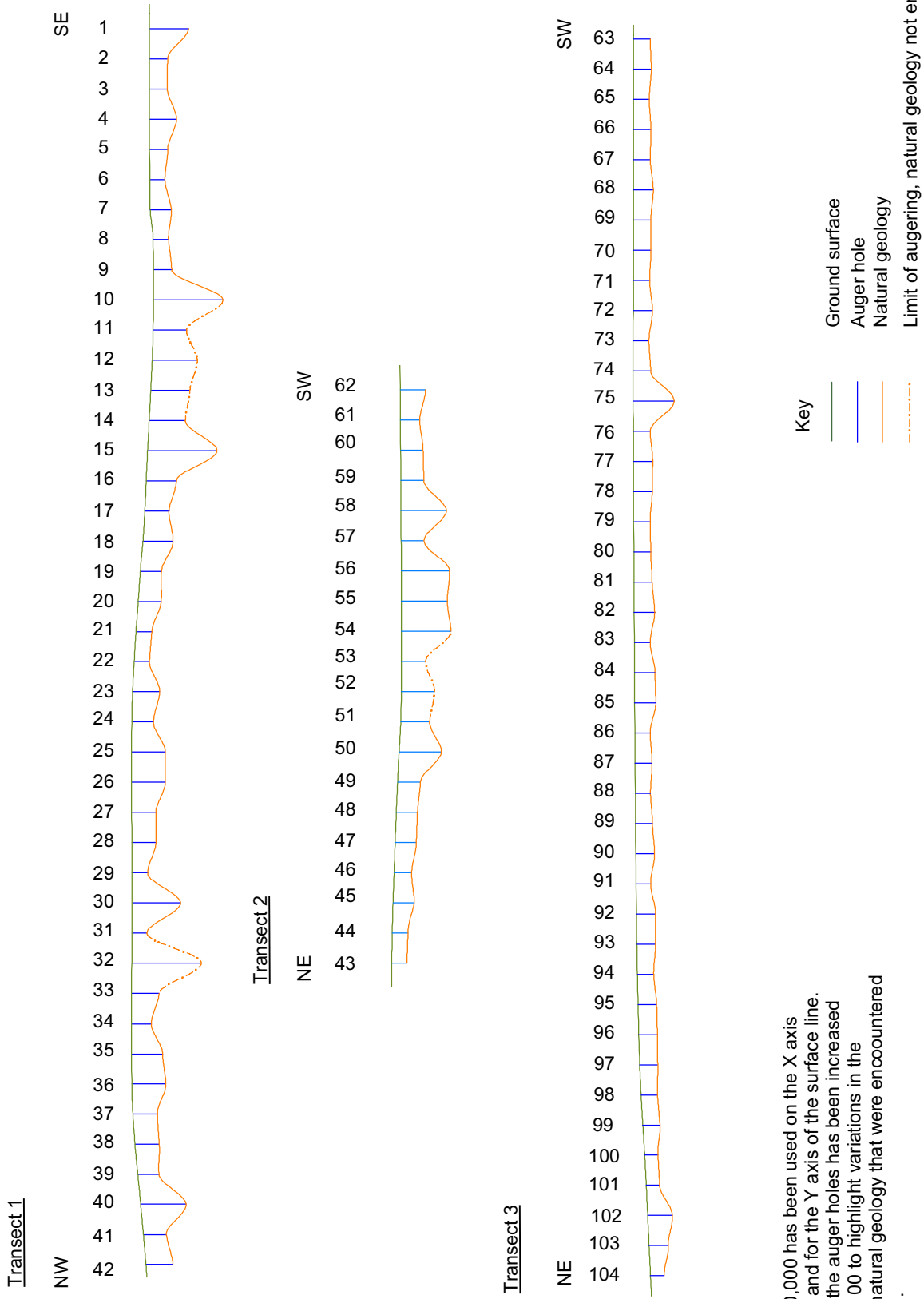
No.	Zone	Easting	Northing	Topsoil (m)	Subsoil (m)	O'burden (m)	Topsoil colour	Subsoil colour	Natural colour	Topsoil description	Subsoil description	Natural description
92	5.1	516460	211917	0.32	n/a	0.32	10YR 3/2 very dark greyish brown	n/a	10YR 5/8 yellowish brown	friable silty clay with frequent medium size flint	n/a	gravelly clay
93	5.1	516492	211955	0.31	n/a	0.31	10YR 3/3 dark brown	n/a	10YR 5/8 yellowish brown	friable silty clay with frequent medium size flint	n/a	firm clay
94	5.1	516524	211993	0.27	n/a	0.27	10YR 3/3 dark brown	n/a	10YR 5/8 yellowish brown	friable silty clay with frequent medium size flint	n/a	firm clay
95	5.1	516557	212031	0.31	n/a	0.31	10YR 3/3 dark brown	n/a	10YR 5/6 yellowish brown	friable silty clay with frequent medium size flint	n/a	gravelly clay
96	5.1	516589	212069	0.31	n/a	0.31	10YR 3/3 dark brown	n/a	7.5YR 5/8 strong brown	firm silty clay	n/a	firm clay
97	5.1	516621	212107	0.3	n/a	0.3	10YR 4/2 dark greyish brown	n/a	10YR 5/6 yellowish brown	friable silty clay with moderate medium flint inclusions	n/a	firm clay
98	5.1	516654	212146	0.27	n/a	0.27	10YR 3/3 dark brown	n/a	7.5YR 5/8 strong brown	firm silty clay with moderate medium flints inclusions	n/a	firm clay
99	5.1	516686	212184	0.28	n/a	0.28	10YR 3/3 dark brown	n/a	7.5YR 5/8 strong brown	firm silty clay with moderate medium flints inclusions	n/a	firm clay
100	5.1	516718	212222	0.22	n/a	0.22	10YR 3/3 dark brown	n/a	7.5YR 5/8 strong brown	firm silty clay with moderate medium flints and root inclusions	n/a	firm clay
101	5.1	516751	212260	0.22	n/a	0.22	10YR 3/3 dark brown	n/a	10YR 8/1 white	firm silty clay with frequent chalk flecks	n/a	chalk
102	N/a	516783	212298	0.41	n/a	0.41	10YR 4/4 dark brownish yellow	n/a	7.5YR 5/8 strong brown	friable silty clay with occasional large flint inclusions	n/a	clay
103	N/a	516815	212336	0.32	n/a	0.32	10YR 4/4 dark brownish yellow	n/a	7.5YR 5/8 strong brown	friable silty clay with occasional large flint inclusions	n/a	clay
104	N/a	516848	212374	0.23	n/a	0.23	10YR 4/4 dark brownish yellow	n/a	7.5YR 5/8 strong brown	firm silty clay with moderate medium flint inclusions	n/a	clay





Auger-hole Location





Note:  
 A scale of 1:10,000 has been used on the X axis of the drawing and for the Y axis of the surface line. The Y axis for the auger holes has been increased by a factor of 100 to highlight variations in the depths of the natural geology that were encountered across the site.

Auger survey results

Scale 1:10,000 (X axis)

Figure 2