

21–23 Watling Street, Bexleyheath, Greater London DA6 7QJ

Archaeological watching brief on geotechnical site investigation

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01	Adelina Teoaca & Simon Pratt	Senior Archaeologist Project Officer	31 January 2018	

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Abstract

This document reports upon an archaeological watching brief during geotechnical site investigation at the former used-car dealers occupying 21–23 Watling Street, Bexleyheath, Greater London DA6 7QJ (NGR 549750 175070). It was undertaken in December 2017 and January 2018 in relation to Condition 9 of Bexley Planning Consent 16/02086/FULM, to inform the design of an archaeological evaluation.

Archaeologically sterile Palaeogene deposits, culminating in 7.5m of Harwich Formation marine gravels were capped by what was probably similar material either weathered in situ or a head deposit derived from them.

Generally silty clay and gravel overlay this and may have represented one or more metallated surfaces. Although no dateable material was recovered, if these are metallings they are probably of Roman date and it is possible that those close to the south-western margin of the site are part of Roman 'Watling Street'. Various loamy deposits probably represented subsequent cultivation.

The basement of the late Victorian building which occupied the north-western part of the site was found, along with what was probably part of an associated out-house and a deep, largely void, soakaway(?). Modern structures, surfaces and deposits completed the stratigraphic sequence.

Given the presence of the basement and that the proposed newbuild will be limited to the northern half of the site, it is suggested that evaluation trenching be limited to the north-eastern quarter, with a watching brief on construction groundworks in the north-western. If significant groundworks, such as tank-removal or the installation of a soakaway, are undertaken in the southern half of the site, the former should be subject to a watching brief, the latter excavated archaeologically in advance.

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1 General

1.1 Introduction (Figs 1–2)

1.1.1 This document reports upon an archaeological watching brief (WB) on geotechnical site investigation (SI) at the former used-car dealers occupying 21–23 Watling Street, Bexleyheath, Greater London DA6 7QJ (NGR 549750 175070). The watching brief was commissioned of Canterbury Archaeological Trust (CAT) by Sevenoaks Environmental Consultancy (SEC).

1.1.2 The Local Planning Authority (LPA) is the London Borough of Bexley, who attached an archaeological condition to their Planning Consent (16/02086/FULM, Condition 9). With the agreement of the LPA and of their archaeological advisors, Historic England's Greater London Archaeological Advisory Service, and in accordance with Historic England's guidelines for such work (HE 2017), the SI was undertaken prior to archaeological evaluation so that the latter could be better targeted (both in plan and depth) and to reduce the risk that it might encounter hazardous contamination.

1.1.3 Prior to the fieldwork, a preliminary desk-based assessment (DBA) of the site had already been prepared by CgMs Consulting (Dicks 2016). The line of the major Roman road (later known as Watling Street) connecting London with Rochester, Canterbury, Dover, Richborough and Lympne was expected to pass to the south of the site.

1.2 Methodology (Fig 3)

1.2.1 On 20–21 December 2017, following breaking-out, thirteen starter pits were excavated manually and logged archaeologically. One (WS04), was abandoned due to scanning showing potential unexploded ordnance (UXO) and another (BHAX) due to inaccessibility. At nine of these pits, relatively shallow boreholes (WS01–WS03 and WS05–WS10) were sunk using a hydraulic-percussion rig taking windowless cores which were all split on site and logged archaeologically. At the remaining two (BHA–BHB), a cable-percussion rig was used to auger more deeply, mostly taking disturbed samples which were logged archaeologically until well into pre-Quaternary deposits. Seven more small, shallow pits (HP01–HP07) were excavated manually: by an oversight these were cut a few days before the WB began but all save HP02–HP03 were left open and logged on 20 December. On 10 January 2018, seven test-pits (TP01, TP02A, TP02B, TP03A, TP03B, TP04 and TP05), of varying dimensions were excavated by a tracked mechanical excavator under constant geotechnical and archaeological supervision.

1.2.2 Most of the archaeological fieldwork was undertaken by Adelina Teoaca, with Simon Pratt taking over for the latter part of 10 January.

1.2.3 No artefacts other than a clearly modern material were seen and no archaeological or geoarchaeological samples were retained.

1.2.4 The archaeological field logs were transcribed into CAT's borehole/test-pit database system. Formatted logs were generated and each deposit assigned a schematic colour representing probable general deposit type (Fig 4).

1.2.5 Pseudo-sections along selected transect lines (Fig 3, TX1–TX6) were drafted automatically, general interpretative groups added manually (Figs 5–10), transcribed to the logs (Appendix 1) and briefly described (Appendix 2).

1.2.6 For transparency and reinterpretability, the original field interpretations are retained in the formatted logs and group details, but may be at variance with the more considered overall group interpretations. In no cases did analysis suggest significantly different interpretations from those made in the field.

1.2.7 The group numbers were next added to the database, each group assigned a broad phase (A–D, perhaps more properly considered as levels of different archaeological potential) and, save for B, a subphase: these were added to the transects and a phased stratigraphic group matrix generated (Fig 4).

1.2.8 This introductory section (1) was written and the geological, topographical and historical background of the site summarized (2). A chronological summary of the phases as interpreted from the results of the watching brief was produced (3), conclusions drawn and recommendations made for the evaluation program (4).

1.3 *Confidence*

1.3.1 Despite the relatively small aggregate footprint of the SI interventions, and some uncertainty whether particular layers were natural head deposits or artificial surfaces (which evaluation trenching should be able to establish), the overall sequence is clear.

1.3.2 It must be borne in mind that the geotechnical and archaeological logs were made by specialists with different training, experience, priorities and criteria (*eg*, 0.1m of peat within a metre of soft silt may be irrelevant to an engineer but indicate three separate subphases to an archaeologist). Precise correlation between archaeological and geotechnical logs should not, therefore, be expected.

1.3.3 Had archaeological structures been encountered they would have been accurately surveyed. However, as none were, and given the nature of the deposits encountered, the approximate centres of all the pits and boreholes were simply plotted by tape measure from features shown on the topographic survey. Ground levels were taken from the same survey.

1.3.4 The archaeological logs must not be relied upon to assess the presence, absence or nature of any contaminated material or unexploded ordnance: the geotechnical and UXO report(s) should be consulted instead.

2 Background

2.1 Previous evidence

2.1.1 The British Geological Survey (BGS) has mapped the uppermost geological deposits under the site as Harwich Formation sand and gravels dating to the Paleogene (Lower Tertiary) and thus archaeologically sterile. The site lies at the very top of the north slope of the Cray Valley.

2.1.2 Although modern Watling Street now forms the northern boundary of the site, its Roman predecessor lay further south and was suspected to pass south of the current site (Dicks 2016, 4.5.2, fig 3). The site is within the LPA's designated Area of High Archaeological Potential 9 (AHAP 9, formerly AHAP 5; Stabler Heritage 2014, 35-37) but the DBA concluded that it held a low to moderate potential for Roman activity and a low potential for all other periods (Dicks 2016, 4.8.4).

2.1.3 Eighteenth-century maps show the site lying in open heathland and the tithe map of 1842 showed it still undeveloped (*op cit*, 4.71–4.7.2, figs 3–4). By 1897 one large house stood wholly upon the site and extensions to another encroached on its eastern side (*op cit*, 4.7.3, fig 5). By 1938 the latter had been demolished and replaced by a detached house entirely within the current site (*op cit*, 4.7.4, fig 7). The site was cleared sometime after 1990 and converted to a car dealership by 2003 (GoogleEarth historic imagery).

2.2 Current situation (Fig 2)

2.2.1 Nineteenth-century houses to either side of the current site have half basements, with steps up to an elevated ground floor. These buildings also have open basement areas to the front.

2.2.2 There is a sharp drop in ground level along the southern edge of this and, though less markedly, adjoining properties: all the properties along this stretch of Watling Street ending at a similar depth (37–38m) from the road frontage. The drop is probably not ancient and is most likely due to nineteenth-century terracing up of the natural, south-facing slope, although there may also have been some terracing down for the twentieth-century school to their rear. The rear of the current site was probably levelled up even further when converted to a dealership and it thus stands above the rear gardens of the adjoining properties.

3 Results (Figs 4–10)

3.1 Phases A–B: geology and geoarchaeology

3.1.1 The earliest material encountered may have been Lambeth Group sand, but was probably Thanet Formation encountered (Phase A1, G10189) at about 42.25 to 42.90m OD. It was overlain by 7.5m of Harwich Formation marine gravels (Fig 11, Phase A2, G10185). All these deposits pertain to the archaeologically sterile Palaeogene Period (Lower Tertiary, 48-59 million years ago).

3.1.2 Capping the clean Harwich Formation gravels were generally slightly greyer gravels (Fig 12, Phase B, G10184), probably similar material weathered *in situ* or perhaps Head derived from them.

3.2 *Phase C: potential archaeology*

3.2.1 Except where cut away by modern features, up to 0.7m of mostly silty clay and gravel (Fig 13, Phase C1, G10183) overlay possible Head material G10184. This may represent one or more metalled surfaces but may include, or consist entirely of, cultivated(?) or weathered natural gravel. Although no dateable material was recovered, if these are metallings, they are probably of Roman date and it is possible that those close to the south-western margin of the site are part of Roman 'Watling Street'.

3.2.2 Surviving patchily over metalling(?) G10183 were various loamy deposits (Phase C2, G10014 and G10113). These probably represented cultivation over a long period of time up until the creation of the car dealership in the twentieth century. However, at least some of this material may be associated with contemporary or Victorian levelling.

3.3 *Phase D: modern* (Fig 14)

3.3.1 A brick wall in TP05 must represent the basement of the late Victorian building which occupied the north-western part of the site whilst a brick structure in HP06 was probably part of an associated out-house (Phase D1, G10123).

3.3.2 A large, deep void, cylindrical brick structure with a brick dome capped with a mortared-in yorkstone slab was encountered in TP04 and WS07 (Phase D1, G10134). This was probably a late nineteenth- or twentieth-century soakaway. Brick rubble and/or brickwork at its base had probably all fallen in but may have included a brick floor (Phase D1, G10139).

3.3.3 Modern structures, surfaces and deposits (Phase D2, G10001), including demolition rubble infill of the basement, completed the stratigraphic sequence.

4 Conclusions and recommendations

4.1 *Conclusions*

4.1.1 Although some potential head material has been identified, it is not thought likely to be of anything but low geoarchaeological potential. Possible gravel metallings have been identified: in the northern part of the site these are particularly dubious but, in the southern part, they appear thicker, more deeply buried and may include part of Roman 'Watling Street'.

4.1.2 The north-western part of the site has clearly been heavily impacted upon by the Victorian basement, though this has left a (probably narrow) undisturbed zone against the street frontage. It is unknown whether a twentieth-century house in the site's north-eastern corner was also basemented. Much of the ground in the middle of

the western side of the site has been deeply impacted upon by an existing soakaway(?).

4.2 *Recommendations*

4.1.1 Given the above, and as the new building will be limited to the northern half of the site, it is suggested that evaluation trenching be limited to the site's north-eastern quarter, with only a watching brief on construction groundworks in the north-western. A principal aim of the evaluation should be to establish whether metallings are indeed present and, if so, their date and nature.

4.1.2 However if significant groundworks, such as tank-removal or the installation of a soakaway, are undertaken in the southern half of the site, the former should be subject to a watching brief, the latter excavated archaeologically in advance.

References

- Dicks, S., 2016, 'Archaeological desk-based assessment: 21–23 Watling Street, Bexleyheath', unpublished CgMs Consulting Client Report SD/22727.
- HE 2017, *Land Contamination and Archaeology: good practice guidelines*, Historic England.

Appendix 1: individual position logs

A1.1 Conventions

The following logs exclude shallow positions HP02-HP03 which were not recorded archaeologically: for these reference should be made to the geotechnical logs. Depths (below contemporary ground level) and elevations (above Ordnance Datum) and National Grid References (NGR) are given in metres. Interpretations are those assigned at the time of recording and do not always accord with subsequent analysis (which is indicated by membership of specific groups). U50, U60, U80 etc refer to windowless-samples of the indicated nominal diameter (in mm), alphabetic suffixes denote where successive lengths of the same diameter were taken. Most soil descriptions use the following frequency and size codes for inclusions: R = Rare, C = Common, A = Abundant, V = Very, S = Small (<10 mm in each dimension), M = Medium, L = Large (>100 mm in any dimension).

A1.2 BHA (NGR 549742.621E 175084.171N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.08	53.90-53.82	10180	(G10001) Tarmacadam, CSM flint. Modern surface.	Dug
0.08-0.65	53.82-53.25	10181	(G10001) Concrete. Modern ?surface.	
0.65-0.80	53.25-53.10	10182	(G10001) Compact brownish grey sand and gravel, CSM flint, CSM brick, RS tarmacadam. ?Levelling.	
0.80-1.10	53.10-52.80	10183	(G10183) Compact dark brown clayey sandy gravel, CSAM flint. ?Metalling/head.	Dug Bulk
1.10-2.10	52.80-51.80	10184	(G10184) Compact slightly pale brown clayey fine sandy gravel, ASCM rounded to well-rounded flint. ?Head.	
2.10-3.00	51.80-50.90	10185	(G10185) Compact slightly reddish brown clayey fine sandy gravel, ASCM rounded to well-rounded flint. ?Marine gravel.	
3.00-4.00	50.90-49.90	10186	(G10185) Very compact very slightly greenish brown slightly clayey coarse sandy gravel, ASM subangular to rounded. ?Marine gravel.	
4.00-5.50	49.90-48.40	10187	(G10185) Compact pale brown sandy gravel, ASM rounded to well rounded flint. ?Marine gravel.	
5.50-11.00	48.40-42.90	10188	(G10185) Compact pale brown sandy gravel, ASCM well-rounded flint. ?Marine gravel.	
11.00-15.00	42.90-38.90	10189	(G10189) Compact slightly greenish yellowish grey very fine sand. ?Marine sand.	Bulk

A1.3 BHAX (NGR 549744.500E 175084.500N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.06	53.90-53.84	10170	(G10001) Tarmacadam. Modern	Dug

0.06-0.12	53.84-53.78	10171	(G10001) Concrete. Modern ?surface.	
0.12-0.28	53.78-53.62	10172	(G10001) Pale brownish grey sand and gravel, CSM flint, CSM brick, RS tarmacadam. ?Levelling.	
0.28-0.53	53.62-53.37	10173	(G10001) Dark brown with grey mottles sandy gravel, RSM brick, ASM subrounded to well-rounded flint. ?Levelling.	
0.53-1.00	53.37-52.90	10174	(G10183) Dark brown clayey sandy gravel, CSAM flint. ?Metalling/head.	Dug

A1.4 BHB (NGR 549758.960E 175051.548N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.20	53.25-53.05	10000	(G10001) Tarmacadam. Modern surface.	Dug
0.20-0.50	53.05-52.75	10001	(G10001) Concrete and crushed brick. Demolition/levelling.	
0.50-1.00	52.75-52.25	10002	(G10183) Compact brownish grey silty clay and gravel, ASMRL subrounded to well-rounded flint. ?Metalling/head.	Dug
1.00-2.00	52.25-51.25	10003	(G10184) Compact brown slightly silty clay and gravel, ASMCL subangular to subrounded flint. ?Head.	Bulk
2.00-4.50	51.25-48.75	10004	(G10185) Compact pale brown slightly clayey sandy gravel, ASMCL subrounded to well-rounded flint. ?Marine gravel.	
4.50-6.50	48.75-46.75	10005	(G10185) Compact pale brown sandy gravel, ASM subrounded to well-rounded flint. ?Marine gravel.	
6.50-8.00	46.75-45.25	10006	(G10185) Compact pale brown sandy gravel, CSAM well-rounded flint. ?Marine gravel.	
8.00-11.00	45.25-42.25	10007	(G10185) Compact brown coarse sandy gravel, CSAM well-rounded flint. ?Marine gravel.	
11.00-15.00	42.25-38.25	10008	(G10189) Very pale greenish grey fine sand. ?Marine sand.	Bulk

A1.5 HP01 (NGR 549751.197E 175083.072N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.03	53.70-53.67	10070	(G10001) Tarmacadam. Modern surface.	Dug
0.03-0.10	53.67-53.60	10071	(G10001) Concrete. Modern ?surface.	
0.10-0.30	53.60-53.40	10072	(G10001) Fairly compact dark greyish brown sandy gravel, CSM brick. ?Levelling.	
0.30-0.54	53.40-53.16	10073	(G10014) Compact dark slightly greyish brown sandy clay, RSM flint.	

?Levelling.

Dug

A1.6 HP05 (NGR 549729.967E 175055.189N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.10	53.45-53.35	10010	(G10001) Tarmacadam. Modern surface.	Dug
0.10-0.16	53.35-53.29	10011	(G10001) Concrete. Modern ?surface.	
0.16-0.30	53.29-53.15	10012	(G10001) Compact dark brown silty clay and rubble. ?Demolition/levelling.	
0.30-0.38	53.15-53.07	10013	(G10001) Compact pale yellow sand. Levelling.	
0.38-0.75	53.07-52.70	10014	(G10014) Compact dark grey silty clay, CSM flint. Old ground ?surface/levelling.	Dug

A1.7 HP06 (NGR 549727.718E 175055.949N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.13	53.45-53.32	10020	(G10001) Tarmacadam. Modern surface.	Dug
0.13-0.25	53.32-53.20	10021	(G10001) Concrete. Modern ?surface.	
0.25-0.44	53.20-53.01	10022	(G10001) Fairly loose pale yellowish grey sand and rubble, CL brick. ?Demolition/levelling.	
0.25-0.50 / 0.44	53.20-52.95 / 53.01	10023	(G10023) Compact reddish orange brickwork. Building foundation.	
0.25-0.50	53.20-52.95	10025	(G10023) Fairly compact very dark grey ?ashy silty clay, CS flint, CS mortar, RS brick. Fill of construction cut for building foundation.	
0.25-0.73 / 0.50	53.20-52.72 / 52.95	10024	(G10014) Compact very dark grey silty clay, CSM modern roof tile. ?Levelling.	Dug

A1.8 HP07 (NGR 549732.410E 175061.232N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.08	53.45-53.37	10030	(G10001) Tarmacadam. Modern surface.	Dug
0.08-0.65	53.37-52.80	10031	(G10001) Concrete. Modern ?surface.	Dug

A1.9 HP08 (NGR 549755.098E 175082.506N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.07	53.70-53.63	10060	(G10001) Tarmacadam. Modern surface.	Dug
0.07-0.15	53.63-53.55	10061	(G10001) Concrete. Modern ?surface.	
0.15-0.29	53.55-53.41	10062	(G10001) Fairly loose pale grey sand and rubble, CSM brick. ?Demolition/levelling.	

0.29-0.43	53.41-53.27	10063	(G10014) Dark greyish brown silty clay and rubble, CSM flint, CSMRL brick. ?Demolition/levelling.	Dug
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A1.10 TP01 (NGR 549753.965E 175073.795N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.23	53.80-53.57	10210	(G10001) Modern floor tile and concrete. Modern surface.	Dug
0.23-0.40	53.57-53.40	10211	(G10001) Pale grey ?ashy sand and rubble, CML brick, RM bone, RM modern clay vase pot. Levelling.	
0.40-0.85	53.40-52.95	10212	(G10001) Dark grey slightly clayey silty gravel with or mottles, RM chalk, RS brick, RM oyster, AMCL subrounded flint. ?Levelling.	
0.85-1.15	52.95-52.65	10213	(G10183) Dark greyish brown silty sandy gravel, ASCM subrounded to well-rounded flint. ?Head.	
1.15-1.30	52.65-52.50	10215	(G10184) Pale grey very fine sandy gravel, ASCM subrounded to well-rounded flint. ?Head.	
1.30-1.40	52.50-52.40	10214	(G10185) Dark reddish brown sandy gravel. Natural gravel.	Dug

A1.11 TP02A (NGR 549757.065E 175057.230N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.12	53.45-53.33	10240	(G10001) Tarmacadam. Modern surface.	Dug
0.12-0.20	53.33-53.25	10241	(G10001) Fairly loose post hole crushed stone. Levelling.	
0.20-0.55	53.25-52.90	10242	(G10014) Fairly pale brownish grey clay silt, RSM flint, RSM chalk, RS tile. Old ground ?surface.	Dug

A1.12 TP02B (NGR 549738.935E 175060.395N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.10	53.45-53.35	10190	(G10001) Tarmacadam. Modern surface.	Dug
0.10-0.20	53.35-53.25	10191	(G10001) Fairly loose slightly pinkish grey gravel. Type I levelling.	
0.20-0.43	53.25-53.02	10192	(G10001) Loose pale grey sand mixed with yellow and orange brick rubble, CL brick, RSM tarmacadam. Demolition/levelling.	
0.43-0.70	53.02-52.75	10193	(G10001) Dark grey silty gravel mixed with concrete, CSM subangular flint. Demolition/levelling.	
0.70-0.93	52.75-52.52	10194	(G10001) Compact concrete slabs. Demolition/levelling.	
0.93-1.14	52.52-52.31	10195	(G10001) Compact dark grey ?ashy	

				clayey silt and gravel, CSM subangular to subrounded flint, CSM clinker. Levelling.	
1.14-1.43	52.31-52.02	10196	(G10183)	Compact dark greyish brown silty very clayey gravel. ?Metalling.	
1.43-1.80	52.02-51.65	10197	(G10184)	Compact dark reddish brown sandy gravel. Natural gravel.	Dug
A1.13 TP03A (NGR 549744.075E 175049.675N)					
Depth (m)	Elevation (m OD)	Con-text	(Group)	Description & interpretation	Sample type
0.00-0.10	53.50-53.40	10230	(G10001)	Tarmacadam. Modern surface.	Dug
0.10-0.30	53.40-53.20	10231	(G10001)	Fairly loose pale grey crushed stone. Levelling.	
0.30-0.60	53.20-52.90	10232	(G10001)	Concrete. Modern surface.	
0.60-0.80	52.90-52.70	10233	(G10014)	Grey clay silt. Old ground ?surface.	
0.80-0.90	52.70-52.60	10234	(G10183)	Grey silty sandy gravel. ?Head.	Dug
A1.14 TP03B (NGR 549750.755E 175047.530N)					
Depth (m)	Elevation (m OD)	Con-text	(Group)	Description & interpretation	Sample type
0.00-0.17	53.50-53.33	10200	(G10001)	Compact concrete. Modern surface.	Dug
0.17-0.36	53.33-53.14	10201	(G10001)	Pale grey sand, rubble and crushed brick. Levelling.	
0.36-0.90	53.14-52.60	10202	(G10001)	Compact dark brown silty gravel, RL brick, ASM subrounded flint. ?Levelling.	
0.90-1.15	52.60-52.35	10203	(G10183)	Very dark grey silty sandy gravel, CSM subrounded flint. ?Metalling/levelling.	
1.15-1.60	52.35-51.90	10204	(G10183)	Dark brown silty clayey gravel, ASCM rounded to wellrounded flint. ?Metalling.	
1.60-1.80	51.90-51.70	10205	(G10184)	Dark greyish brown silty sandy gravel, CSAM subrounded to well-rounded flint. ?Head.	
1.80-2.30	51.70-51.20	10206	(G10184)	Compact orange brown sandy gravel. Natural gravel.	Dug
A1.15 TP04 (NGR 549734.165E 175068.740N)					
Depth (m)	Elevation (m OD)	Con-text	(Group)	Description & interpretation	Sample type
0.00-0.12	53.84-53.72	10250	(G10001)	Tarmacadam. Modern surface.	Dug
0.12-0.50	53.72-53.34	10251	(G10001)	Fairly compact sandy loamy rubble. Levelling.	
0.50-0.65	53.34-53.19	10252	(G10001)	Concrete. Modern surface.	
0.65-0.85	53.19-52.99	10253	(G10001)	Fairly compact sandy loamy rubble. Levelling.	

0.65-1.40	53.19-52.44	10256	(G10014) Compact dark grey silty clay. Old ground ?surface.	
0.85-0.95	52.99-52.89	10254	(G10134) ?Yorkstone slab. ?Levelling.	
0.95-3.00	52.89-50.84	10255	(G10134) Circular vaulted yellow brickwork structure ?1.4m diameter with ?secondary glazed sewer-pipe feeding in from south-east. ?Soakaway.	
1.40+	52.44>	10257	(G10184) Grey silty sandy gravel. ?Head.	Dug

A1.16 TP05 (NGR 549739.490E 175076.915N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.07	53.93-53.86	10220	(G10001) Tarmacadam. Modern surface.	Dug
0.07-1.50	53.86-52.43	10221	(G10023) 9" brickwork running south-west to north-east with plastered south-east face interrupted by junction with lost wall running to south-east. Basement wall.	
0.07-1.50	53.86-52.43	10222	(G10001) Fairly loose rubble. Backfill of basement.	Dug

A1.17 WS01 (NGR 549761.832E 175072.657N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.10	53.80-53.70	10040	(G10001) Tarmacadam. Modern surface.	Dug
0.10-0.80	53.70-53.00	10041	(G10001) Loose pale yellowish grey gravelly coarse sand, RSM brick, CSM subangular flint. Levelling/fill.	
0.80-1.00	53.00-52.80	10042	(G10183) Compact dark brown silty clay and gravel, ASM subangular to subrounded flint. ?Metalling/head.	
1.00-1.70	52.80-52.10	10043	(G10184) Compact pale slightly reddish orangey brown slightly clayey sandy gravel. ?Head.	Dug

A1.18 WS02 (NGR 549755.855E 175063.023N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.08	53.50-53.42	10050	(G10001) Tarmacadam. Modern surface.	Dug
0.08-0.60	53.42-52.90	10051	(G10001) Fairly compact very dark grey sandy gravel, CSM brick. ?Levelling.	
0.60-1.00	52.90-52.50	10052	(G10183) Compact dark brown silty clay and gravel, ASMRL subangular to subrounded flint. ?Metalling/head.	Dug
1.00-1.60	52.50-51.90	10053	(G10184) Very compact pale slightly	U90

reddish brown sandy gravel. |
 ?Marine gravel. U90

A1.19 WS03 (NGR 549755.111E 175047.702N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.17	53.25-53.08	10090	(G10001) Concrete, CSM flint. Modern surface.	Dug
0.17-0.33	53.08-52.92	10091	(G10001) Compact dark grey sandy gravel and rubble, CL brick. ?Demolition/levelling.	
0.33-1.00	52.92-52.25	10092	(G10001) Compact dark greyish brown gravelly silty clay, CSM subangular to subrounded flint. ?Levelling.	Dug
1.00-1.20	52.25-52.05	10093	(G10001) Compact dark greyish brown gravelly silty clay, RS brick. ?Levelling.	U90
1.20-1.46	52.05-51.79	10094	(G10183) Compact dark brown very silty clay and gravel, ASM subangular to subrounded flint. ?Metalling/head.	
1.46-1.70	51.79-51.55	10095	(G10184) Compact brown silty gravel, ASCM flint. ?Head.	
1.70-2.00	51.55-51.25	10096	(G10185) Compact pale orangey brown sandy gravel. ?Marine gravel.	U90

A1.20 WS04 (NGR 549745.195E 175049.303N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.15	53.40-53.25	10100	(G10001) Tarmacadam.	Dug
0.15-0.50	53.25-52.90	10101	(G10001) Very compact pale grey sand, rubble and crushed brick, CSM flint, CL brick, AML concrete. ?Demolition/backfill.	
0.50-1.00	52.90-52.40	10102	(G10014) Compact mixed dark grey and brown silty clay, RSM flint, RM brick, RS slate. ?Levelling.	Dug

A1.21 WS05 (NGR 549746.466E 175060.164N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.15	53.60-53.45	10080	(G10001) Concrete. Modern surface.	Dug
0.15-0.70	53.45-52.90	10081	(G10001) Compact dark grey sandy gravel and rubble, RL brick, CL concrete. ?Demolition/levelling.	
0.70-1.00	52.90-52.60	10082	(G10014) Very dark brownish grey silty gravelly clay, CSM flint, RM brick, RM clay tobacco-pipe stem. ?Levelling.	Dug
1.00-1.10	52.60-52.50		Void.	U90
1.10-1.52	52.50-52.08	10083	(G10183) Compact dark grey silty clay and gravel, CSM subrounded to rounded flint. ?Metalling/head.	
1.52-2.00	52.08-51.60	10084	(G10184) Compact slightly orangey	

			brown very clayey sandy gravel, ASM subrounded to well-rounded flint. ?Head.	
2.00-2.46	51.60-51.14		Void.	
2.46-3.00	51.14-50.60	10085	(G10185) Compact pale slightly reddish brown slightly clayey sandy gravel, ASM subrounded to well-rounded flint. ?Marine gravel.	U90

A1.22 WS06 (NGR 549732.705E 175054.096N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.25	53.45-53.20	10110	(G10001) Tarmacadam. Modern surface.	Dug
0.25-0.68	53.20-52.77	10111	(G10001) Fairly loose pale grey sand and crushed brick, CSM flint, CML pink brick, CML concrete. ?Demolition/levelling.	
0.68-1.00	52.77-52.45	10112	(G10001) Compact dark grey silty sandy clay with brown mottles, RSM flint, RS brick, RM concrete. Levelling.	Dug
1.00-1.45	52.45-52.00		Void.	U90
1.45-1.50	52.00-51.95	10113	(G10113) Compact dark greyish brown slightly silty clay, CS flint, CS chalk, RS charcoal. ?Levelling.	
1.50-1.92	51.95-51.53	10114	(G10183) Compact dark brown slightly silty clay and gravel, RS ?roots. ?Metalling/head.	
1.92-2.00	51.53-51.45	10115	(G10184) Compact brown very clayey gravel. ?Head.	U90
2.00-2.35	51.45-51.10	10116	(G10184) Compact brown very clayey gravel. ?Head.	U80
2.35-2.50	51.10-50.95	10117	(G10185) Compact pale orangey brown sandy gravel. ?Head.	U80

A1.23 WS07 (NGR 549734.630E 175069.138N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.10	53.85-53.75	10130	(G10001) Tarmacadam. Modern surface.	Dug
0.10-0.49	53.75-53.36	10131	(G10001) Pale grey sand, crushed brick and rubble, CML brick, CSM concrete. ?Demolition/backfill.	
0.49-0.62	53.36-53.23	10132	(G10001) Fairly loose pale grey sand and concrete, CSM flint, RSM brick, ASM concrete. ?Levelling.	
0.62-0.80	53.23-53.05	10133	(G10001) Fairly compact dark grey sand and rubble, CML brick. ?Demolition/backfill.	
0.80-1.00	53.05-52.85	10134	(G10134) Compact dark greenish grey clayey gravel, ASM flint, RM brick, RM brown-glazed ?drain ceramic. ?Levelling.	Dug
1.00-1.20	52.85-52.65		Void.	U90

1.20-1.70	52.65-52.15	10135	(G10134) Compact dark brown with grey mottles gravelly silty clay, ASM flint, RS brick. ?Levelling.	
1.70-2.00	52.15-51.85	10136	(G10134) Very compact rubble or brickwork. ?Backfill.	U90
2.00-4.50	51.85-49.35		Void.	U80
4.50-5.00	49.35-48.85	10137	(G10139) Compact dark grey sandy clayey gravel and rubble, RL brick. ?Backfill.	U80
5.00-5.77	48.85-48.08		Void.	U60
5.77-6.00	48.08-47.85	10138	(G10139) Very compact rubble or brickwork. ?Backfill.	U60
6.00-6.40	47.85-47.45		Void.	U50
6.40-6.56	47.45-47.29	10139	(G10139) Very compact rubble or brickwork. ?Backfill.	
6.56-6.60	47.29-47.25	10150	(G10185) Compact orangey brown sandy gravel, ASM flint. ?Head.	U50

A1.24 WS08 (NGR 549743.615E 175073.475N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.23	53.93-53.70	10120	(G10001) Tarmacadam. Modern surface.	Dug
0.23-1.00	53.70-52.93	10121	(G10001) Fairly loose pale grey sand and crushed brick, CML brick, CML wood, RM slate, CM concrete, RM modern metal cap. ?Levelling/backfill.	Dug
1.00-1.30	52.93-52.63	10122	(G10001) Fairly loose pale grey sand and crushed brick, RM plastic. ?Levelling/backfill.	U90
				U90

A1.25 WS09 (NGR 549753.837E 175080.351N)

Depth (m)	Elevation (m OD)	Con-text	(Group) Description & interpretation	Sample type
0.00-0.10	53.85-53.75	10140	(G10001) Tarmacadam. Modern surface.	Dug
0.10-0.18	53.75-53.67	10141	(G10001) Concrete. Modern ?surface.	
0.18-0.36	53.67-53.49	10142	(G10001) Fairly loose pale grey sand and concrete. ?Demolition/levelling.	
0.36-0.80	53.49-53.05	10143	(G10014) Compact dark brown gravelly silty clay with grey mottles, RM brick, CSM subrounded flint. ?Levelling.	
0.80-1.00	53.05-52.85	10144	(G10183) Compact dark brown very clayey sandy gravel, ASM subrounded to well-rounded flint. ?Metalling/head.	Dug
1.00-1.16	52.85-52.69	10145	(G10183) Compact dark brown very clayey sandy gravel. ?Metalling/head.	U90
1.16-1.50	52.69-52.35	10146	(G10184) Compact brown very fine sandy gravel, ASCM well-rounded flint. ?Head.	

1.50-1.60	52.35-52.25	10147	(G10185) Compact pale slightly reddish orangey brown fine sandy gravel, ASM subrounded to well-rounded flint. ?Head.	U90
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A1.26 WS10 (NGR 549739.058E 175064.943N)

Depth (m)	Elevation (m OD)	Con- text	(Group) Description & interpretation	Sample type
0.00-0.12	53.70-53.58	10160	(G10001) Tarmacadam. Modern surface.	Dug
0.12-0.42	53.58-53.28	10161	(G10001) Fairly loose pale yellowish grey sand and rubble, CS flint, CS tarmacadam, CML concrete, CSRL brick. ?Demolition/levelling.	
0.42-1.00	53.28-52.70	10162	(G10001) Fairly loose dark grey slightly clayey sandy gravel and rubble, CSM flint, RSM slate, RM glass, CSM brick, CS concrete, CS tarmacadam. ?Backfill.	Dug
1.00-1.40	52.70-52.30		Void.	U90
1.40-1.50	52.30-52.20	10163	(G10001) Fairly loose dark grey slightly clayey sandy gravel and rubble. ?Backfill.	
1.50-1.80	52.20-51.90	10164	(G10184) Compact pale orangey brown sandy gravel, ASM flint. ?Head.	U90

Appendix 2: group descriptions

A2.1 Conventions

The following descriptions (arranged by group number) do not include positions HP02–HP03, which were not recorded archaeologically. Individual context details are omitted for the larger modern or geological groups. Individual context interpretations are those assigned at the time of recording and do not always accord with that of the overall group (prefixed with 'G') to which each deposit was subsequently assigned: the latter should take precedence. Soil descriptions use the following frequency and size codes for inclusions: R = Rare, C = Common, A = Abundant, V = Very, S = Small (<10 mm in each dimension), M = Medium, L = Large (>100 mm in any dimension).

A2.2 Group G10001

Phase D2

General number for the existing tarmacadam surface, underlying modern structures and largely rubble levelling/infill beneath.

Modern deposits and structures.

Transects: TX01, TX02, TX03, TX04, TX05, TX06

Positions: BHA, BHAX, BHB, HP01, HP05, HP06, HP07, HP08, TP01, TP02A, TP02B, TP03A, TP03B, TP04, TP05, WS01, WS02, WS03, WS04, WS05, WS06, WS07, WS08, WS09, WS10

Contexts: 10000, 10001, 10010, 10011, 10012, 10013, 10020, 10021, 10022, 10030, 10031, 10040, 10041, 10050, 10051, 10060, 10061, 10062, 10070, 10071, 10072, 10080, 10081, 10090, 10091, 10092, 10093, 10100, 10101, 10110, 10111, 10112, 10120, 10121, 10122, 10130, 10131, 10132, 10133, 10140, 10141, 10142, 10160, 10161, 10162, 10163, 10170, 10171, 10172, 10173, 10180, 10181, 10182, 10190, 10191, 10192, 10193, 10194, 10195, 10200, 10201, 10202, 10210, 10211, 10212, 10220, 10222, 10230, 10231, 10232, 10240, 10241, 10250, 10251, 10252, 10253

A2.3 Group G10014

Phase C2

Compact dark greyish brown to grey, mostly silty clays, including a mix of inclusions, from modern roof-tile to fragments of clay tobacco-pipe stem. Directly under modern deposits G10001.

Possibly one or more old ground surfaces, perhaps including ?pit fills and perhaps disturbed by modern activity.

Transects: TX01, TX02, TX03, TX04, TX05, TX06

Positions: HP01, HP05, HP06, HP08, TP02A, TP03A, TP04, WS04, WS05, WS09

Contexts: 10014, 10024, 10063, 10073, 10082, 10102, 10143, 10233, 10242, 10256

Details:

Position Con Description & initial interpretation

- HP01 10073 Compact dark slightly greyish brown sandy clay, RSM flint. ?Levelling.
 HP05 10014 Compact dark grey silty clay, CSM flint. Old ground ?surface/levelling.
 HP06 10024 Compact very dark grey silty clay, CSM modern roof tile. ?Levelling.
 HP08 10063 Dark greyish brown silty clay and rubble, CSM flint, CSMRL brick.
 ?Demolition/levelling.
 TP02A 10242 Fairly pale brownish grey clay silt, RSM flint, RSM chalk, RS tile. Old ground
 ?surface.
 TP03A 10233 Grey clay silt. Old ground ?surface.
 TP04 10256 Compact dark grey silty clay. Old ground ?surface.
 WS04 10102 Compact mixed dark grey and brown silty clay, RSM flint, RM brick, RS slate.
 ?Levelling.
 WS05 10082 Very dark brownish grey silty gravelly clay, CSM flint, RM brick, RM clay
 tobacco-pipe stem. ?Levelling.
 WS09 10143 Compact dark brown gravelly silty clay with grey mottles, RM brick, CSM
 subrounded flint. ?Levelling.

A2.4 Group G10023

Phase D1

Brick floor and ?basement wall or partially truncated brick ?foundation and fill of associated construction cut identified in HP06 and basement wall in TP05.

Victorian basemented building(s).

Transects: TX01, TX06

Positions: HP06, TP05

Contexts: 10023, 10025, 10221

Details:

Position Con Description & initial interpretation

HP06 10023 Compact reddish orange brickwork. Building foundation.

HP06 10025 Fairly compact very dark grey ?ashy silty clay, CS flint, CS mortar, RS
 brick. Fill of construction cut for building foundation.

TP05 10221 9" brickwork running south-west to north-east with plastered south-east face
 interrupted by junction with lost wall running to south-east.
 Basement wall.

A2.5 Group G10113

Phase C2

Compact dark greyish brown slightly silty clay with chalk fragments and charcoal flecking.
 Identified only in WS06, immediately over ?metalling G10183, non-recovery above.

Possible old ground surface, tread or fill. Perhaps equivalent to base of G10014.

Transects: TX01, TX06

Position: WS06

Context: 10113

Details:

Position Con Description & initial interpretation

WS06 10113 Compact dark greyish brown slightly silty clay, CS flint, CS chalk, RS charcoal. ?Levelling.

A2.6 Group G10134

Phase D1

Large, largely void, cylindrical brick structure with brick dome capped with a mortared-in yorkstone slab in TP04 and WS07. Also includes overlying levelling deposits.

Probably some form of late nineteenth- or twentieth-century soakaway.

Transects: TX01, TX05

Positions: TP04, WS07

Contexts: 10134, 10135, 10136, 10254, 10255

Details:

Position Con Description & initial interpretation

TP04 10254 ?Yorkstone slab. ?Levelling.

TP04 10255 Circular vaulted yellow brickwork structure ?1.4m diameter with ?secondary glazed sewer-pipe feeding in from south-east. ?Soakaway.

WS07 10134 Compact dark greenish grey clayey gravel, ASM flint, RM brick, RM brown-glazed ?drain ceramic. ?Levelling.

WS07 10135 Compact dark brown with grey mottles gravelly silty clay, ASM flint, RS brick. ?Levelling.

WS07 10136 Very compact rubble or brickwork. ?Backfill.

A2.7 Group G10139

Phase D1

Brick rubble and/or brickwork at base of 2.5m void in ?soakaway G10134. Probably directly over ?truncated natural gravel G10185.

Possible base of ?soakaway, probably largely fill of or collapse into such a feature..

Transects: TX01, TX05

Position: WS07

Contexts: 10137, 10138, 10139

Details:

Position Con Description & initial interpretation

- WS07 10137 Compact dark grey sandy clayey gravel and rubble, RL brick. ?Backfill.
 WS07 10138 Very compact rubble or brickwork. ?Backfill.
 WS07 10139 Very compact rubble or brickwork. ?Backfill.

A2.8 Group G10183

Phase C1

Generally compact, generally dark, grey to brown mostly silty clay and gravel but with some sandier elements. Identified at 51.95m OD in the south-western corner of the site rising gently to north and east, to a maximum elevation of about 53.1m OD near the north-western corner. Over, and not always easily distinguished from, ?head G10184. Under old ground ?surface(s) G10014 and G10113 where present, Victorian or modern material elsewhere. About 0.20 to 0.36m thick in the northern part of the site, probably thickening downslope to an observed maximum of 0.7m near the south-eastern corner.

Probably one or more metallised surfaces but not necessarily contiguous across the site. May consist partly or entirely of cultivated/disturbed/weathered natural gravel.

Transects: TX01, TX02, TX03, TX04, TX05, TX06

Positions: BHA, BHAX, BHB, TP01, TP02B, TP03A, TP03B, WS01, WS02, WS03, WS05, WS06, WS09

Contexts: 10002, 10042, 10052, 10083, 10094, 10114, 10144, 10145, 10174, 10183, 10196, 10203, 10204, 10213, 10234

Details:

Position Con Description & initial interpretation

BHA 10183 Compact dark brown clayey sandy gravel, CSAM flint. ?Metalling/head.

BHAX 10174 Dark brown clayey sandy gravel, CSAM flint. ?Metalling/head.

BHB 10002 Compact brownish grey silty clay and gravel, ASMRL subrounded to well-rounded flint. ?Metalling/head.

TP01 10213 Dark greyish brown silty sandy gravel, ASCM subrounded to well-rounded flint. ?Head.

TP02B 10196 Compact dark greyish brown silty very clayey gravel. ?Metalling.

TP03A 10234 Grey silty sandy gravel. ?Head.

TP03B 10203 Very dark grey silty sandy gravel, CSM subrounded flint. ?Metalling/levelling.

TP03B 10204 Dark brown silty clayey gravel, ASCM rounded to wellrounded flint. ?Metalling.

WS01 10042 Compact dark brown silty clay and gravel, ASM subangular to subrounded flint. ?Metalling/head.

WS02 10052 Compact dark brown silty clay and gravel, ASMRL subangular to subrounded flint. ?Metalling/head.

WS03 10094 Compact dark brown very silty clay and gravel, ASM subangular to subrounded flint. ?Metalling/head.

WS05 10083 Compact dark grey silty clay and gravel, CSM subrounded to rounded flint. ?Metalling/head.

WS06 10114 Compact dark brown slightly silty clay and gravel, RS ?roots. ?Metalling/head.

WS09 10144 Compact dark brown very clayey sandy gravel, ASM subrounded to well-

rounded flint. ?Metalling/head.

WS09 10145 Compact dark brown very clayey sandy gravel. ?Metalling/head.

A2.9 Group G10184

Phase B

Generally compact, generally greyish reddish or orangey brown clayey to sandy gravels over natural gravel G10185, under ?metalling(s) G10183. Difficult to distinguish from G10183 and very difficult to distinguish from G10185.

Harwich Formation ?weathered in situ or head derived from Harwich Formation.

Transects: TX01, TX02, TX03, TX04, TX05, TX06

Positions: BHA, BHB, TP01, TP02B, TP03B, TP04, WS01, WS02, WS03, WS05, WS06, WS09, WS10

Contexts: 10003, 10043, 10053, 10084, 10095, 10115, 10116, 10146, 10164, 10184, 10197, 10205, 10206, 10215, 10257

Details:

Position Con Description & initial interpretation

BHA 10184 Compact slightly pale brown clayey fine sandy gravel, ASCM rounded to well-rounded flint. ?Head.

BHB 10003 Compact brown slightly silty clay and gravel, ASMCL subangular to subrounded flint. ?Head.

TP01 10215 Pale grey very fine sandy gravel, ASCM subrounded to well-rounded flint. ?Head.

TP02B 10197 Compact dark reddish brown sandy gravel. Natural gravel.

TP03B 10205 Dark greyish brown silty sandy gravel, CSAM subrounded to well-rounded flint. ?Head.

TP03B 10206 Compact orange brown sandy gravel. Natural gravel.

TP04 10257 Grey silty sandy gravel. ?Head.

WS01 10043 Compact pale slightly reddish orangey brown slightly clayey sandy gravel. ?Head.

WS02 10053 Very compact pale slightly reddish brown sandy gravel. ?Marine gravel.

WS03 10095 Compact brown silty gravel, ASCM flint. ?Head.

WS05 10084 Compact slightly orangey brown very clayey sandy gravel, ASM subrounded to well-rounded flint. ?Head.

WS06 10115 Compact brown very clayey gravel. ?Head.

WS06 10116 Compact brown very clayey gravel. ?Head.

WS09 10146 Compact brown very fine sandy gravel, ASCM well-rounded flint. ?Head.

WS10 10164 Compact pale orangey brown sandy gravel, ASM flint. ?Head.

A2.10 Group G10185

Phase A2

Generally compact reddish to orangey brown sandy gravels, about 7.5m thick, overwhelmingly small to medium and rounded to well-rounded, and generally spherical to sub-prismoidal.

Harwich Formation marine gravels.

Transects: TX01, TX02, TX03, TX04, TX05, TX06

Positions: BHA, BHB, TP01, WS03, WS05, WS06, WS07, WS09

Contexts: 10004, 10005, 10006, 10007, 10085, 10096, 10117, 10147, 10150, 10185, 10186, 10187, 10188, 10214

Details:

Position Con Description & initial interpretation

BHA	10185	Compact slightly reddish brown clayey fine sandy gravel, ASCM rounded to well-rounded flint. ?Marine gravel.
BHA	10186	Very compact very slightly greenish brown slightly clayey coarse sandy gravel, ASM subangular to rounded. ?Marine gravel.
BHA	10187	Compact pale brown sandy gravel, ASM rounded to well rounded flint. ?Marine gravel.
BHA	10188	Compact pale brown sandy gravel, ASCM well-rounded flint. ?Marine gravel.
BHB	10004	Compact pale brown slightly clayey sandy gravel, ASMCL subrounded to well-rounded flint. ?Marine gravel.
BHB	10005	Compact pale brown sandy gravel, ASM subrounded to well-rounded flint. ?Marine gravel.
BHB	10006	Compact pale brown sandy gravel, CSAM well-rounded flint. ?Marine gravel.
BHB	10007	Compact brown coarse sandy gravel, CSAM well-rounded flint. ?Marine gravel.
TP01	10214	Dark reddish brown sandy gravel. Natural gravel.
WS03	10096	Compact pale orangey brown sandy gravel. ?Marine gravel.
WS05	10085	Compact pale slightly reddish brown slightly clayey sandy gravel, ASM subrounded to well-rounded flint. ?Marine gravel.
WS06	10117	Compact pale orangey brown sandy gravel. ?Head.
WS07	10150	Compact orangey brown sandy gravel, ASM flint. ?Head.
WS09	10147	Compact pale slightly reddish orangey brown fine sandy gravel, ASM subrounded to well-rounded flint. ?Head.

A2.11 Group G10189

Phase A1

Compact pale greenish grey fine sand beneath the Harwich Formation G10185, encountered at about 42.25 to 42.90m OD.

Thanet Formation sands.

Transects: TX01, TX03, TX04, TX06

Positions: BHA, BHB

Contexts: 10008, 10189

Details:

Position Con Description & initial interpretation

BHA 10189 Compact slightly greenish yellowish grey very fine sand. ?Marine sand.

BHB 10008 Very pale greenish grey fine sand. ?Marine sand.

**21–23 Watling Street,
Bexleyheath,
Bexley DA6 7QJ**

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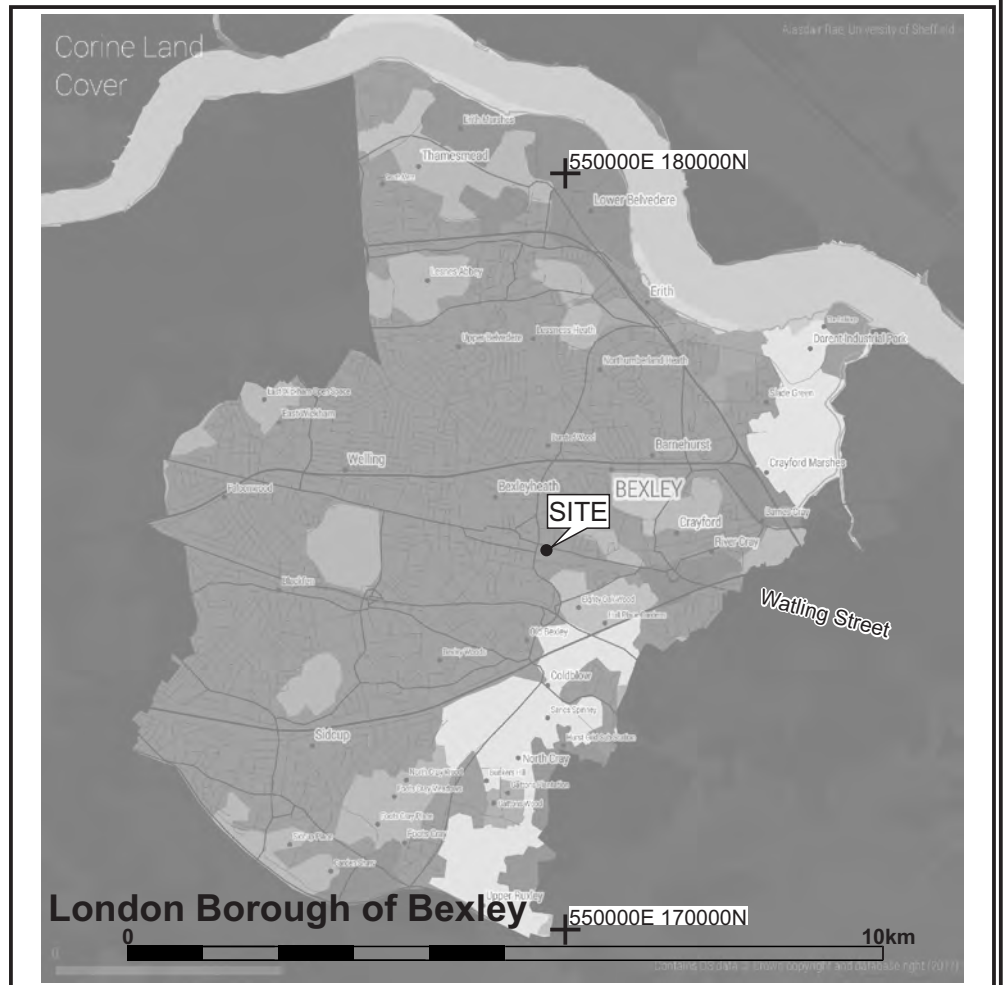


Fig 1 Location maps (1:500,000 and 1:100,000).

Digital terrain model (DTM) based upon 2012-2014 lidar data collected for DEFRA on a 0.5m or finer grid. Contains public sector information licensed under the Open Government Licence v3.0 (<<http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>>).

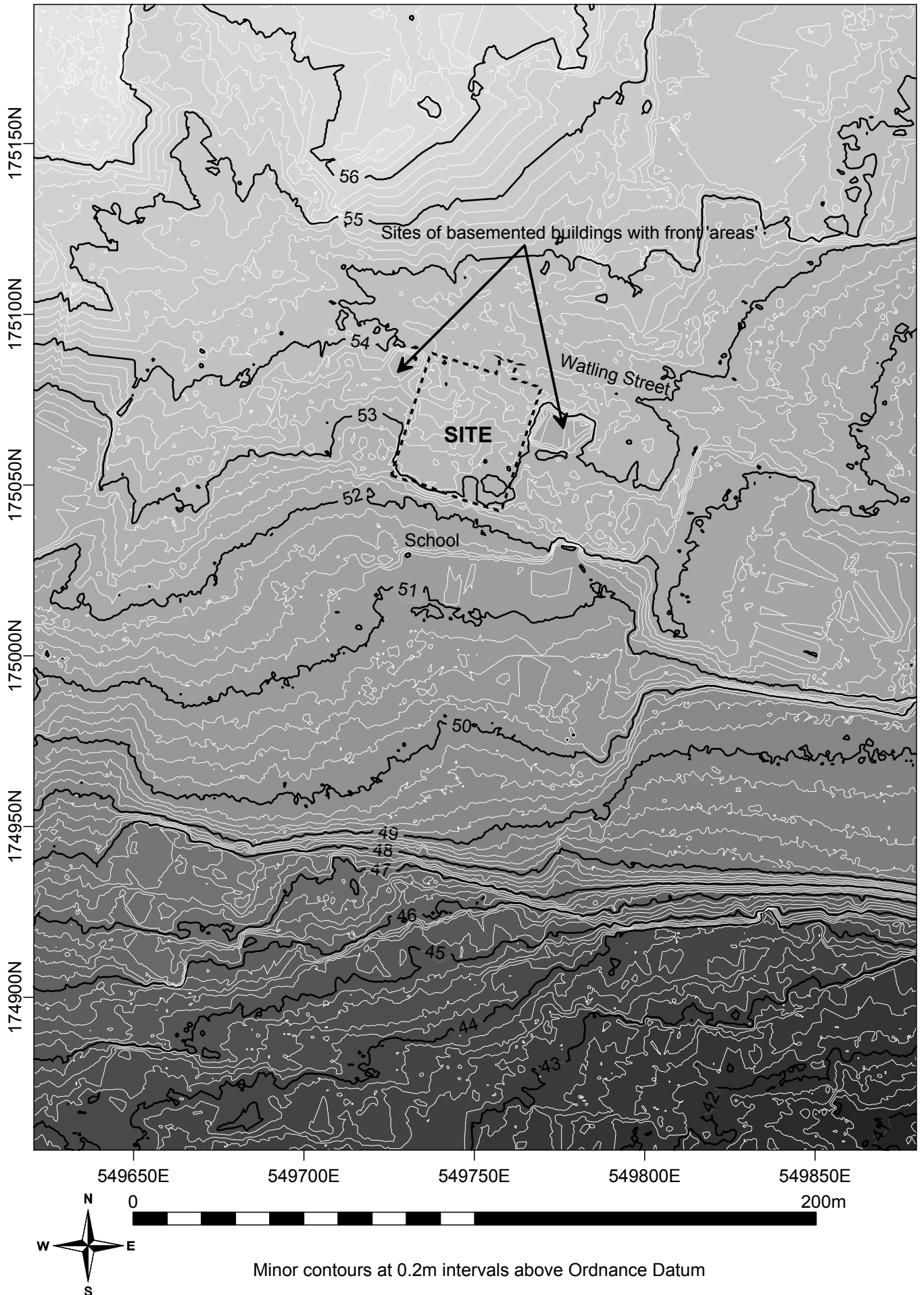


Fig 2 Digital terrain model of environs (1:1500).

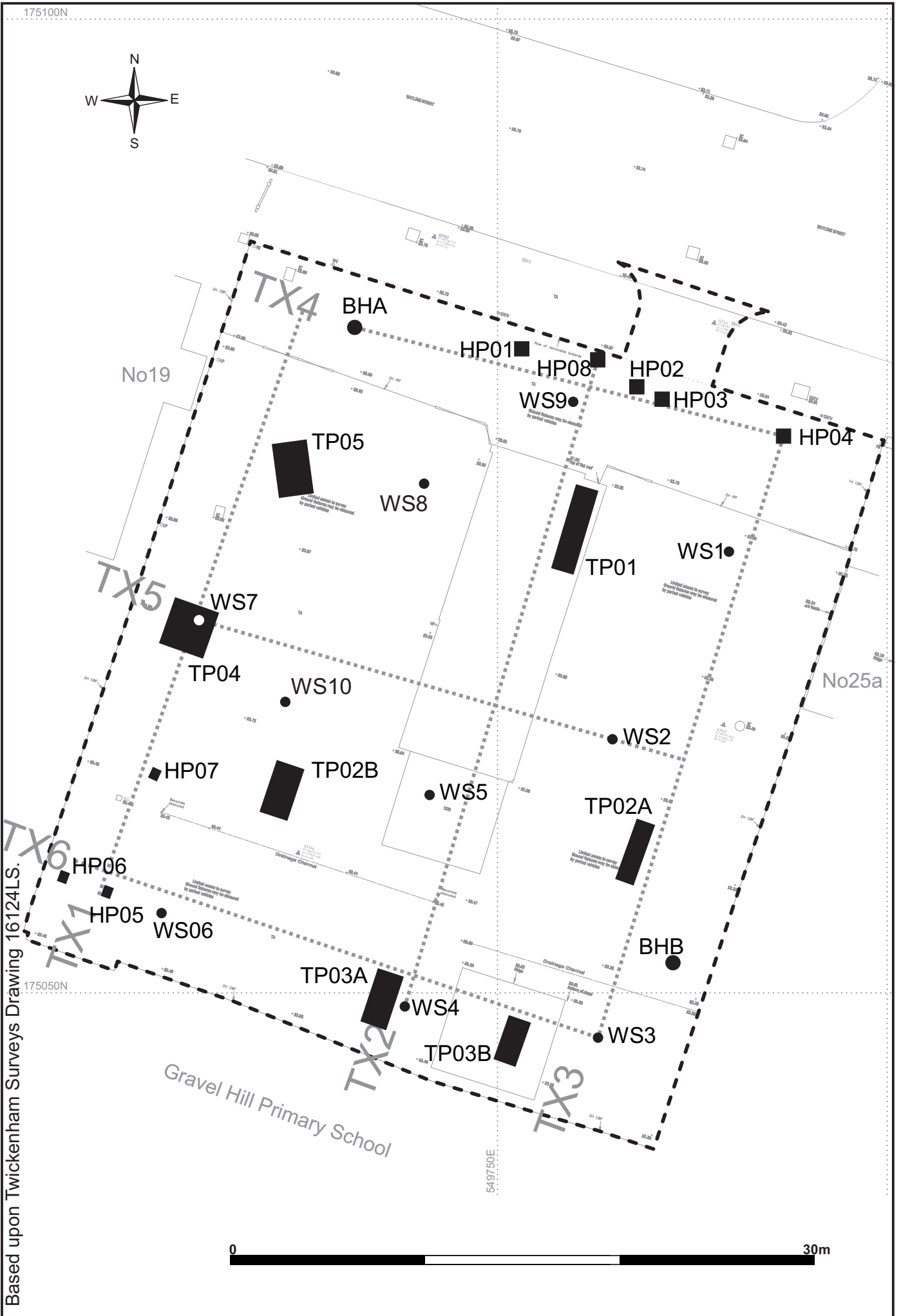


Fig 3 Site plan (1:250).

Key to contexts

	Demolition, collapse, razing, abandonment debris <i>etc</i>
	Burning
	Industrial waste, tarmacadam, dumped ash <i>etc</i>
	London Clay or tread, occupation <i>etc</i> , usually includes <i>in situ</i> hearth ash
	Clay, tile, earthen, chalk or other non-flint stone floor, paving <i>etc</i>
	Dumped flint gravel/pebbles/cobbles or river bed, metalling, tarmacadam <i>etc</i>
	Wall, concrete (including floors), brickwork (including floors), levelling <i>etc</i>
	Root, timber, brushwood, twigs <i>etc</i>
	Ditch, wash, waterlain inorganic silt <i>etc</i>
	Topsoil, pit fill, loam, old ground surface <i>etc</i>
	Waterlain organic silt <i>etc</i>
	Sand or gravelly sand
	Clean ?natural brickearth, clay, loamy clay or sandy clay
	Clean ?natural silty clay or geologically recent ?alluvial clayey sand
	Clean ?natural flint gravel or gravel-and-sand
	Cess or colluvium
	Sandstone
	Coombe deposit, periglacial fill or cryoturbated chalk
	Natural chalk (numbered) or void/discarded (unnumbered)

Key to interpolations

	Demolition <i>etc</i>
	Burning
	Industrial activity <i>etc</i>
	London Clay or treads, occupation <i>etc</i>
	Buildings, floors <i>etc</i>
	Metallings <i>etc</i>
	Walls, levellings, modern features <i>etc</i>
	Timber <i>etc</i>
	Ditches, washes, inorganic waterlain silts <i>etc</i>
	Pit fills, loams, old ground surfaces <i>etc</i>
	Peats <i>etc</i>
	Natural sands or gravelly sands
	Natural brickearths
	Natural silty clays or clayey sands
	Natural gravels or gravels-and-sands
	Cess or colluvia
	Coombe deposit, periglacial fill or cryoturbated chalk
	Natural chalk
	Unknown

Key to inclusions

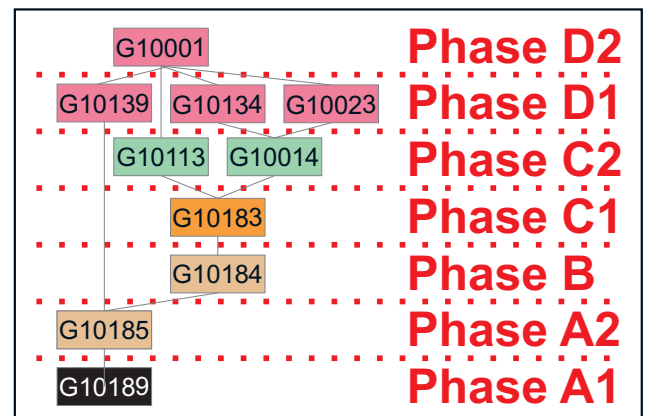
	Charcoal
	Bone, tooth, antler or horn
	Brick, tile or daub
	Pottery or clay tobacco pipe

Miscellanea

Chainages and offsets in metres
 Negative offsets towards the reader
 Intersects show positions also on at least one other transect
 Where a position has been moved to improve clarity the correct relative chainage is marked by a black square or circle, unshifted positions by a grey one

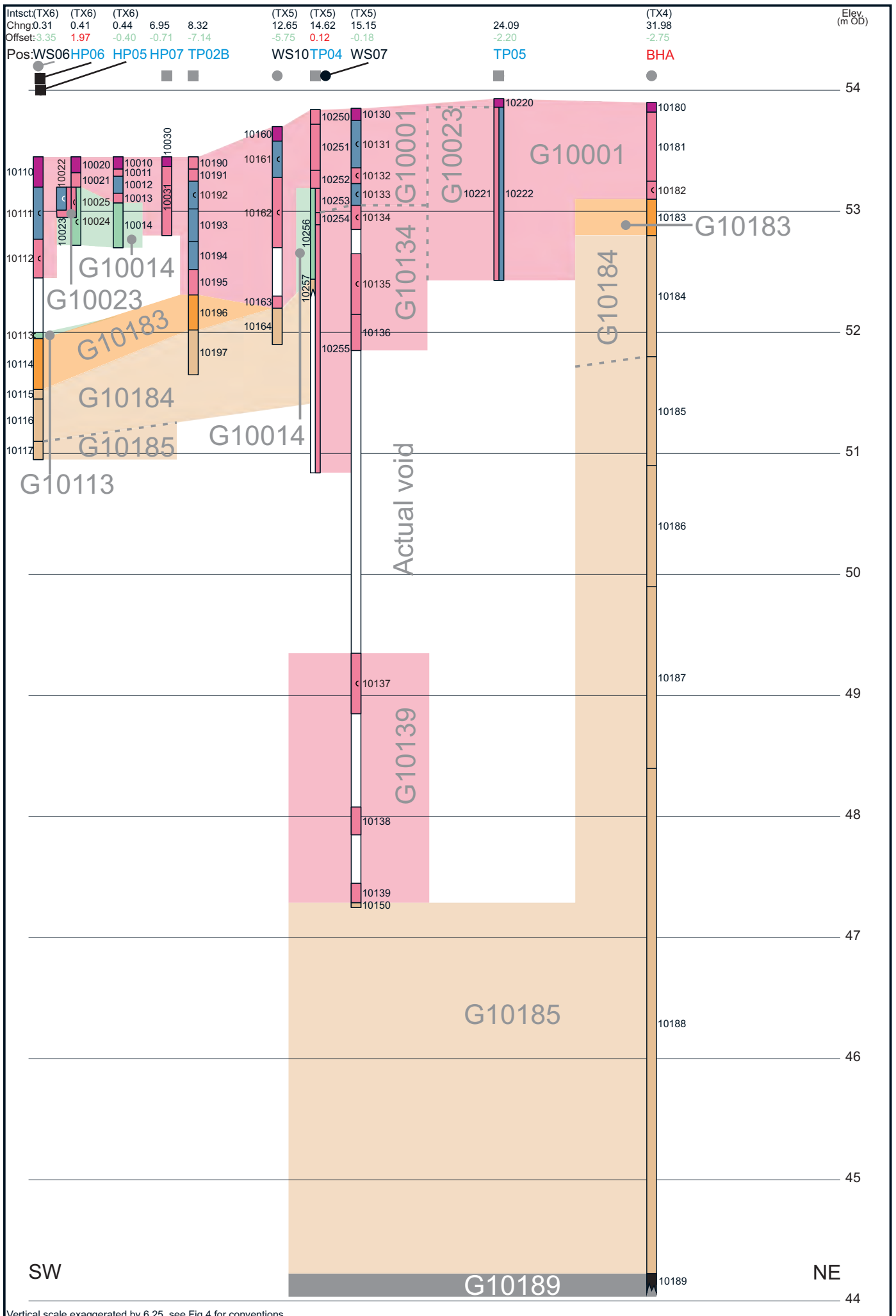
Key to sampling

Position name	Windowless sampling
	Window sampling
	Shell-and-auger (bulk) sampling
	Trench or pit
Context number	No archaeological sub-sampling
	Archaeological monolith sample taken
	Archaeological bulk sample taken
	Other archaeological sample taken
	Depth of context ?top only recorded



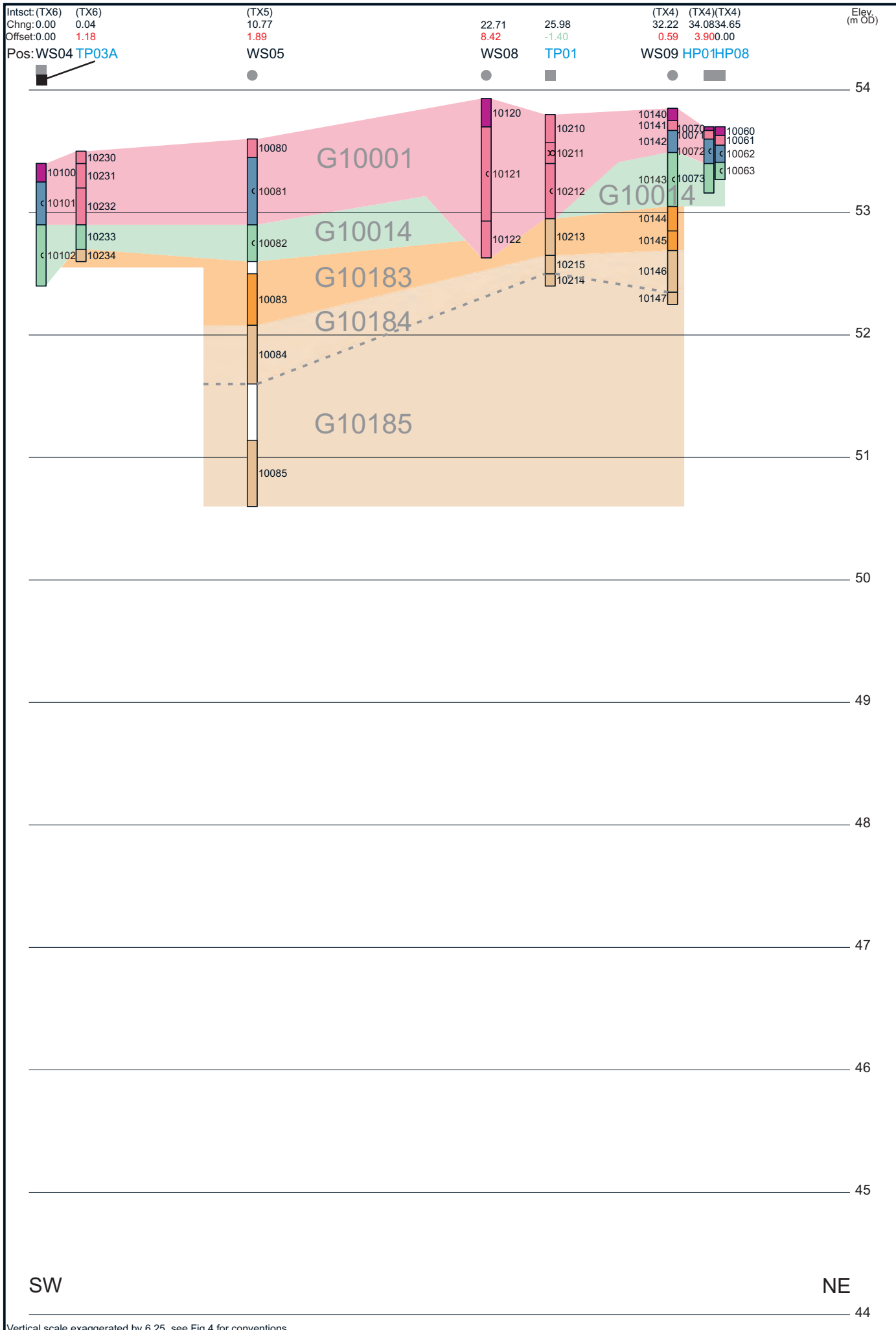
Not all conventions are used in all figures, nor on all sites

Fig 4 Phased stratigraphic group matrix and keys to transects.



Vertical scale exaggerated by 6.25, see Fig 4 for conventions.

Fig 5 Transect TX1 (vertical scale 1:40, ave. horizontal spacing 1:250).



Vertical scale exaggerated by 6.25, see Fig 4 for conventions.

Fig 6 Transect TX2 (vertical scale 1:40, ave. horizontal spacing 1:250).

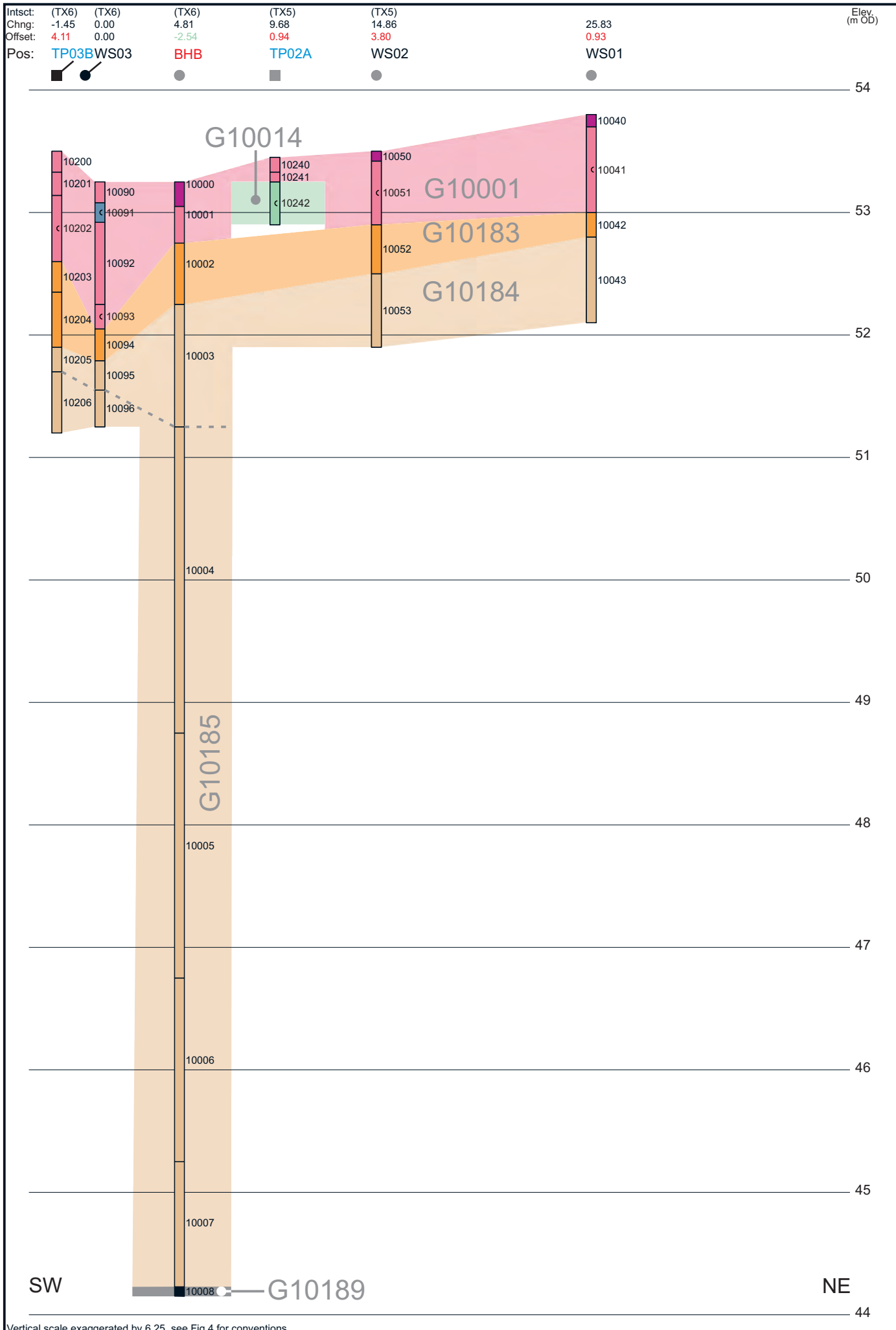


Fig 7 Transect TX3 (vertical scale 1:40, ave. horizontal spacing 1:250).

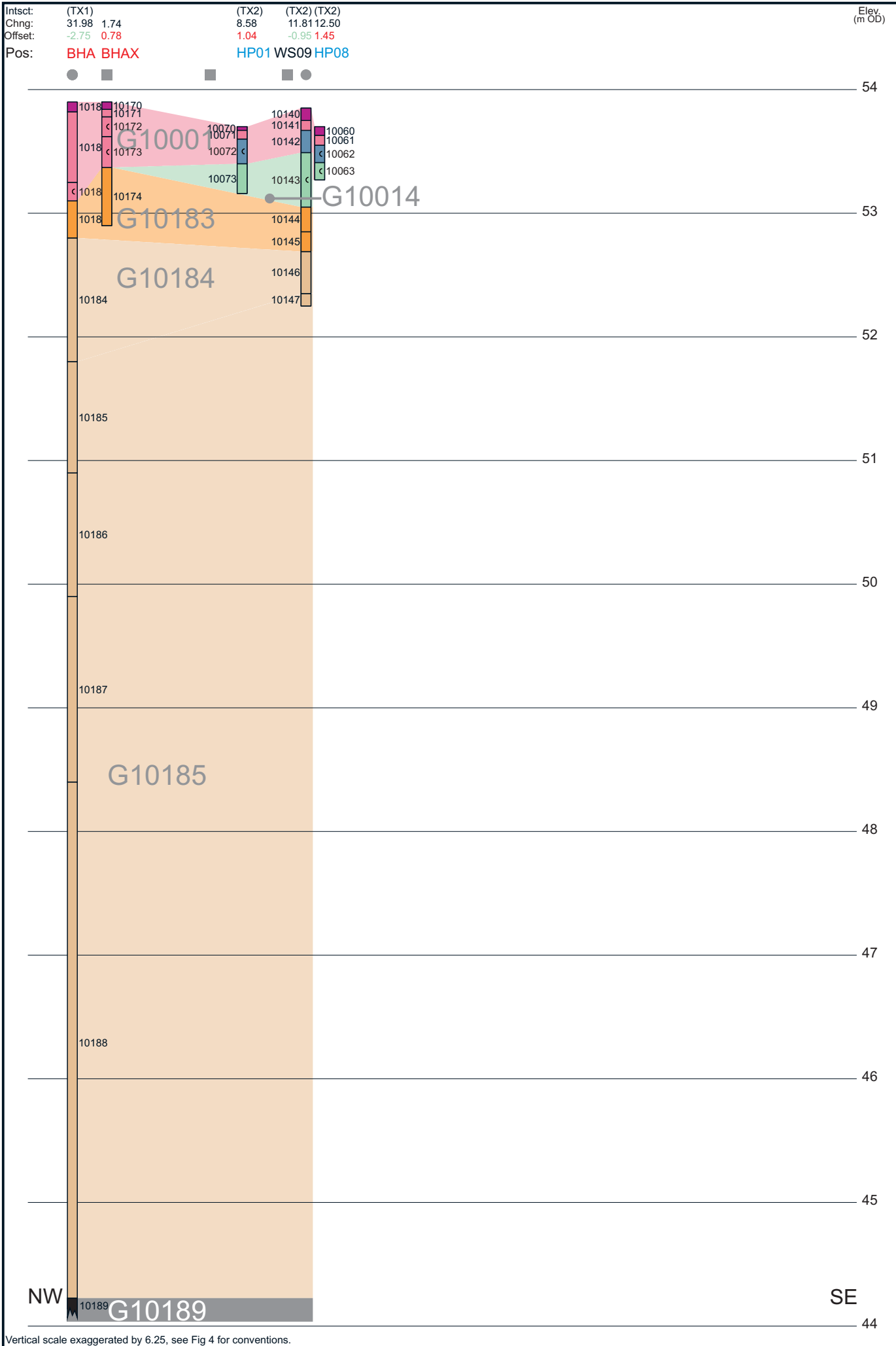
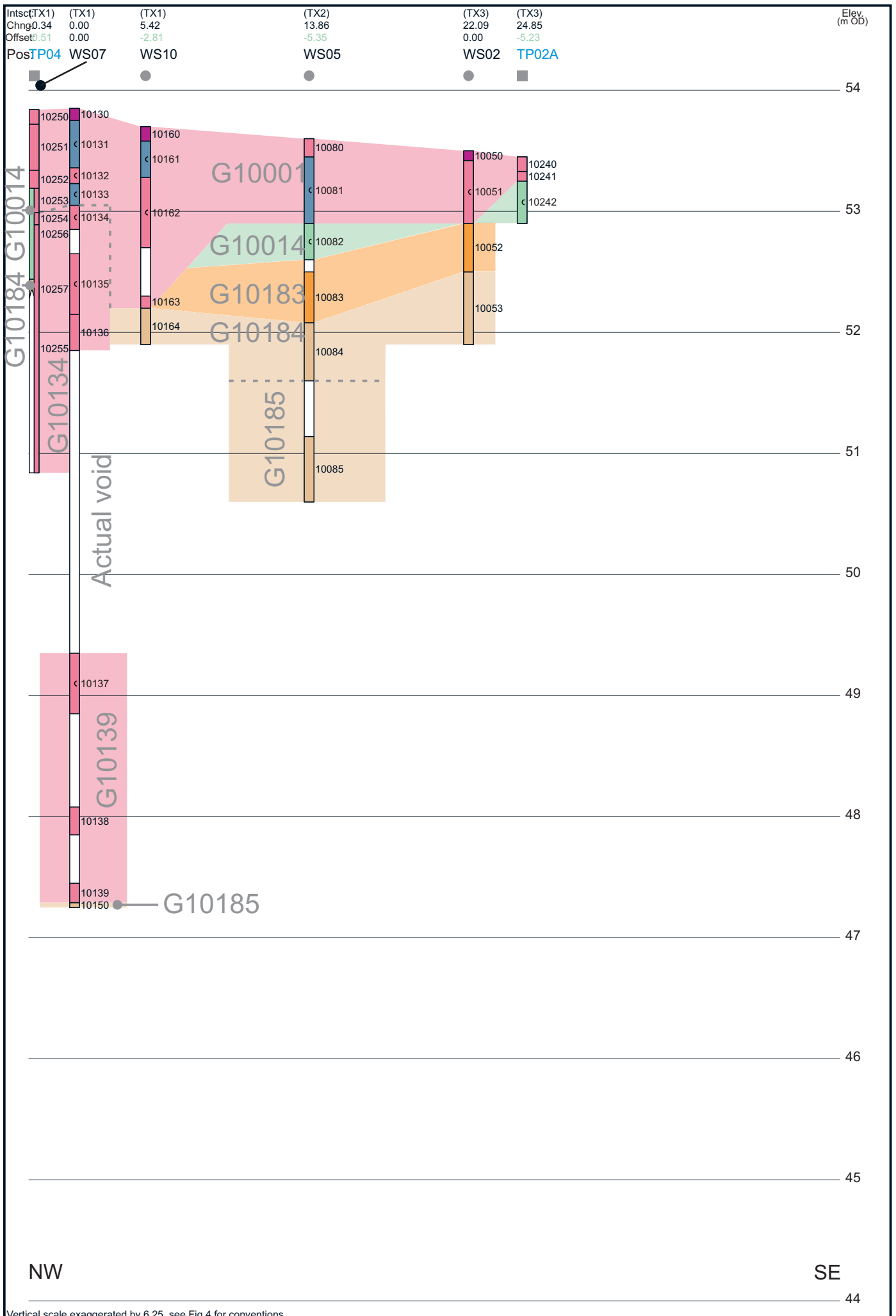


Fig 8 Transect TX4 (vertical scale 1:40, ave. horizontal spacing 1:250).



Vertical scale exaggerated by 6.25, see Fig 4 for conventions.

Fig 9 Transect TX5 (vertical scale 1:40, ave. horizontal spacing 1:250).

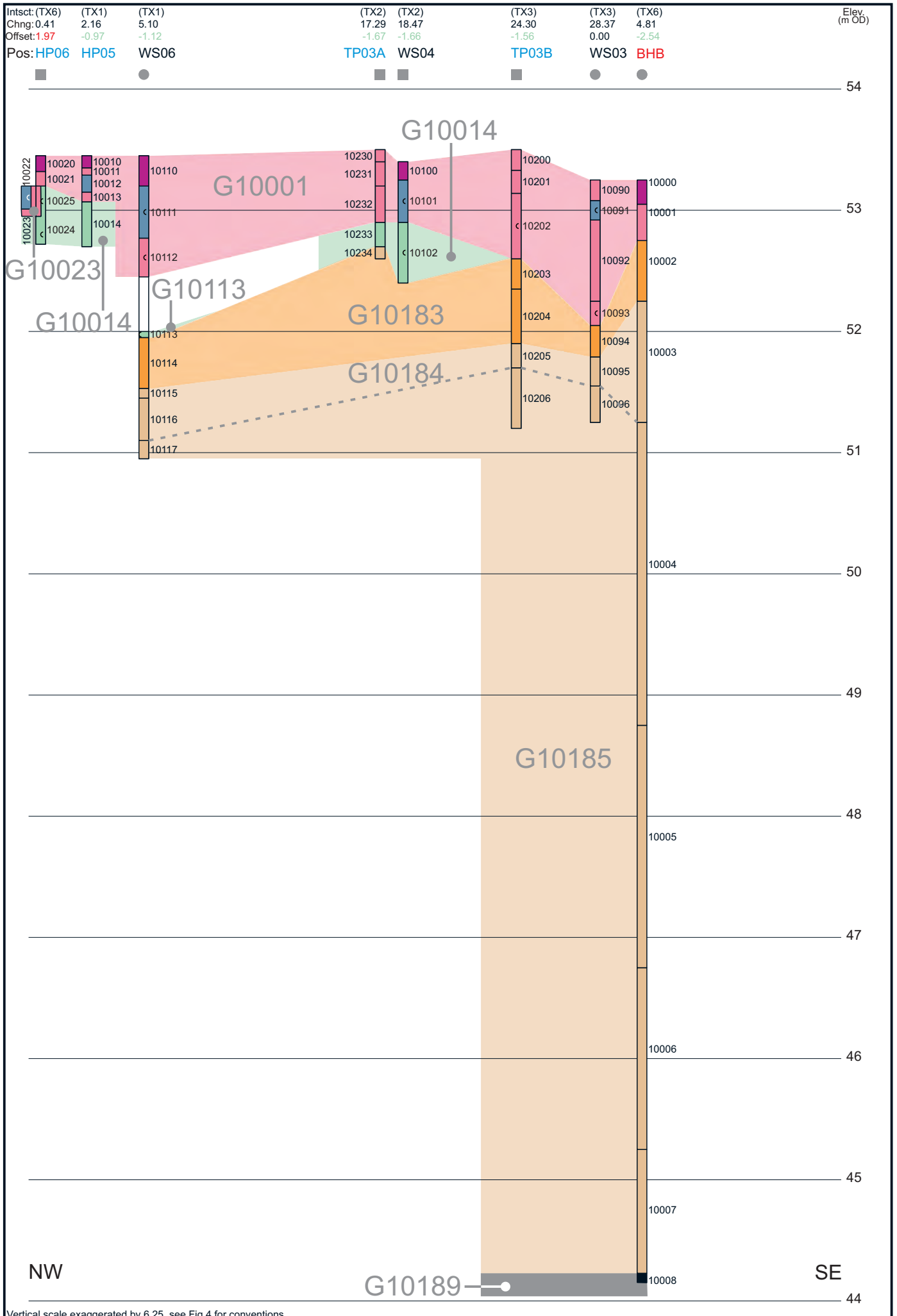


Fig 10 Transect TX6 (vertical scale 1:40, ave. horizontal spacing 1:250).

Contouring algorithm: triangulation with linear interpolation
Minor contours at 0.2m intervals above Ordnance Datum

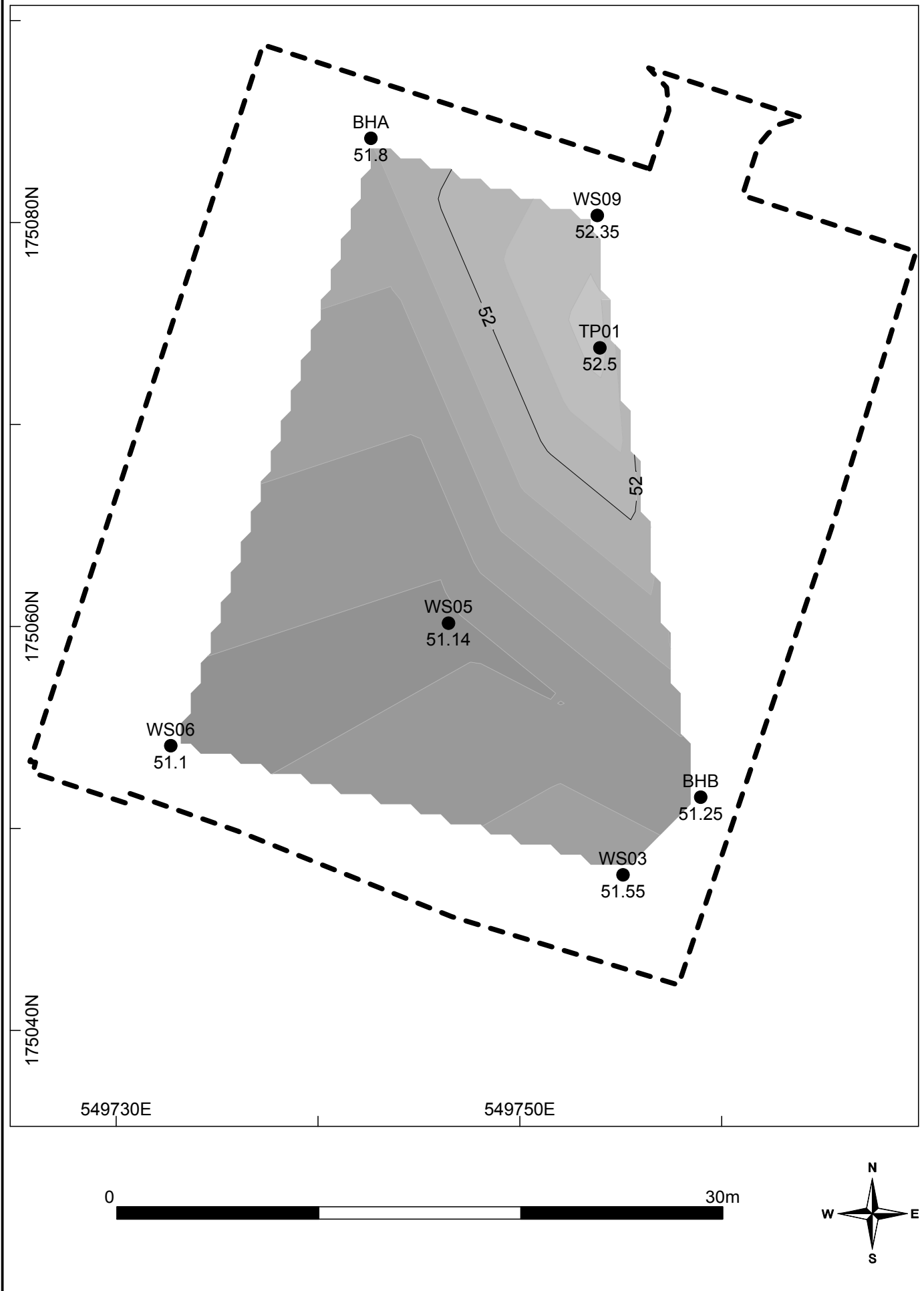


Fig 11 Levels on G10185, omitting WS07 (1:250).

Contouring algorithm: triangulation with linear interpolation
Minor contours at 0.2m intervals above Ordnance Datum

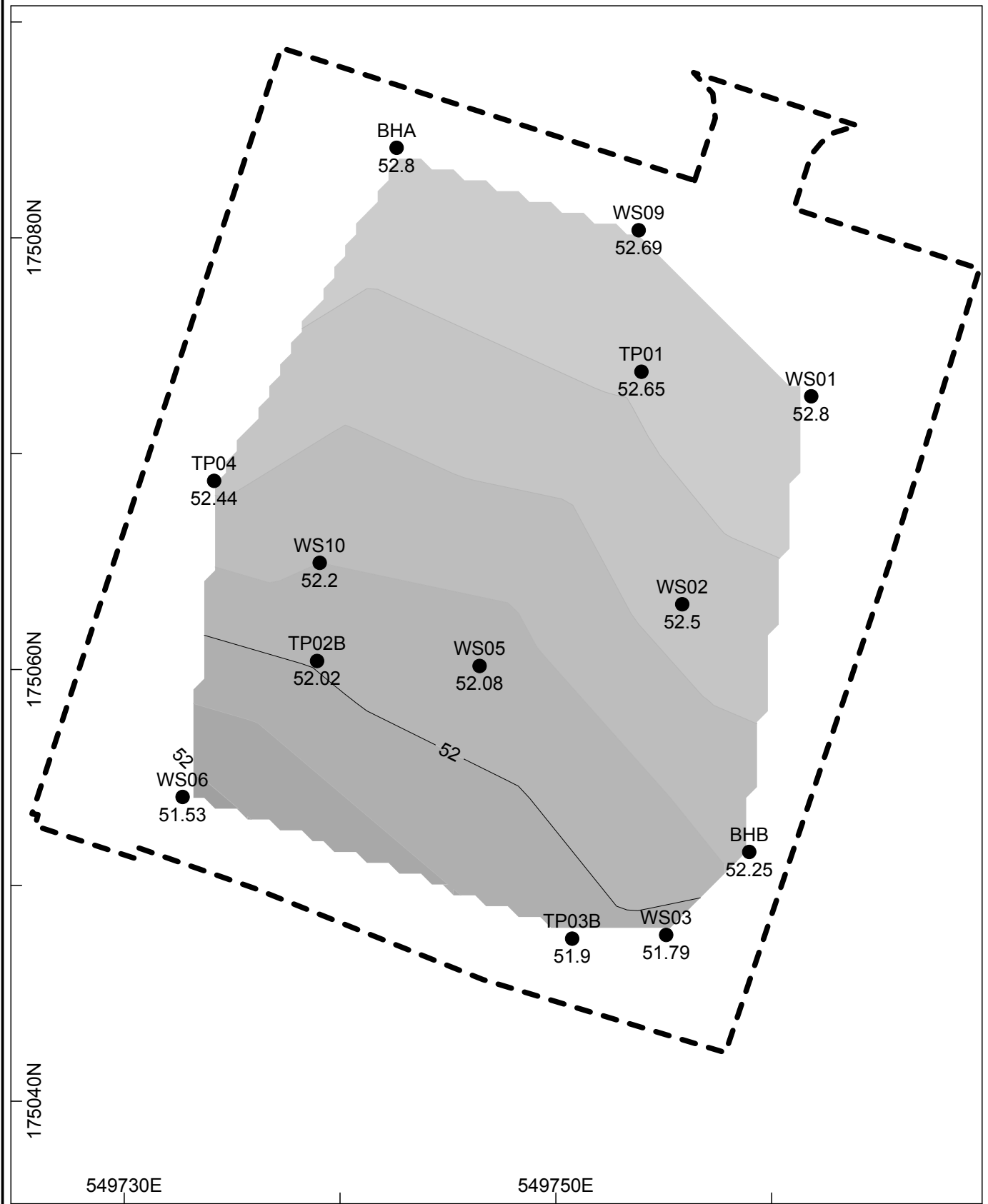


Fig 12 Levels on G10184 (1:250).

Contouring algorithm: triangulation with linear interpolation
Minor contours at 0.2m intervals above Ordnance Datum

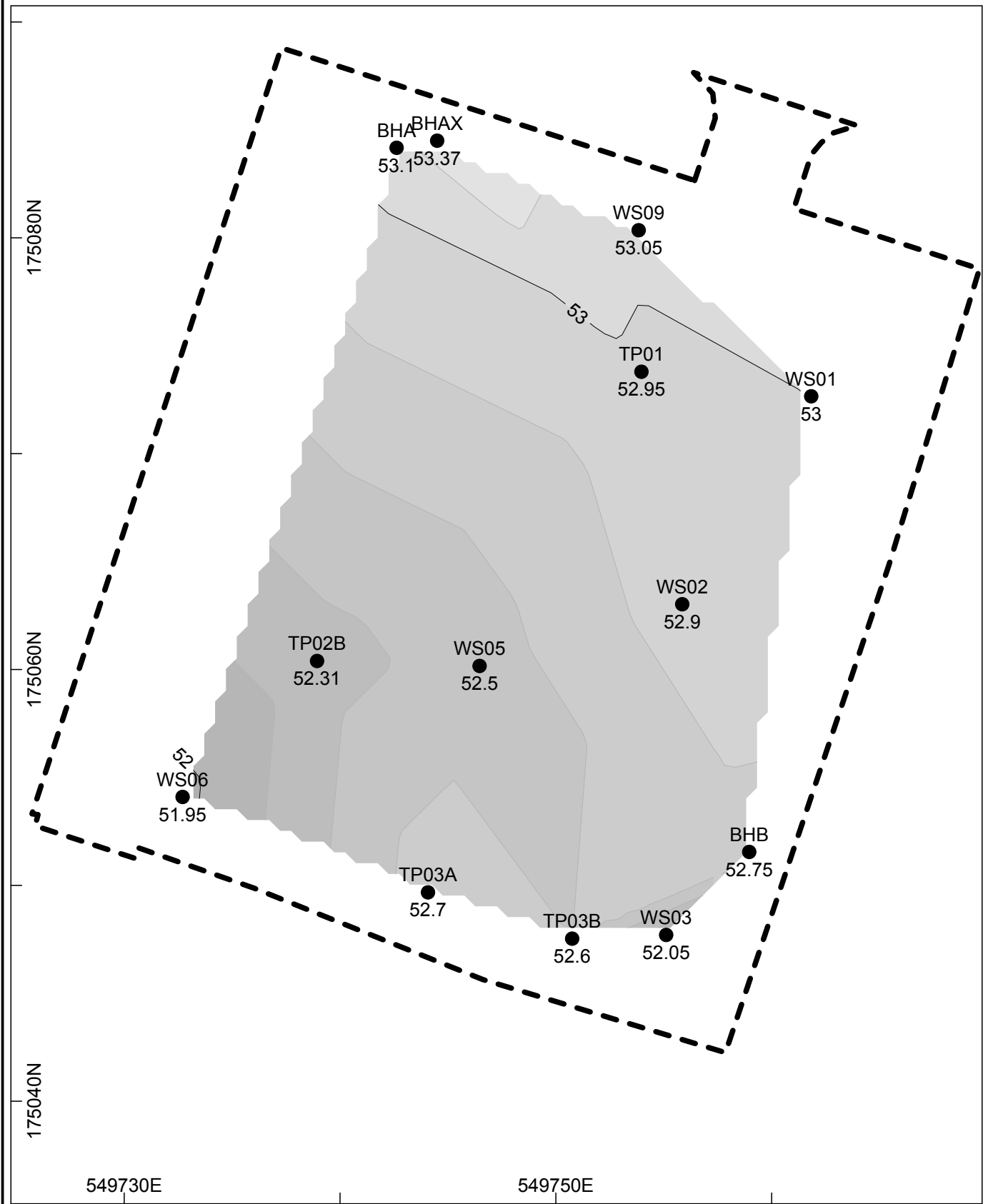


Fig 13 Levels on G10183 (1:250).

Contouring algorithm: triangulation with linear interpolation
 Minor contours at 0.2m intervals above Ordnance Datum
 * Indicates earlier deposits not reached

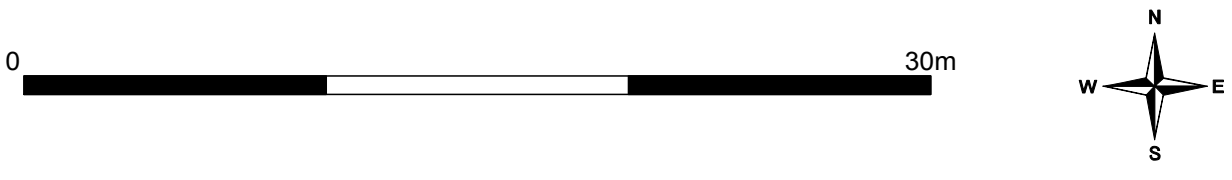
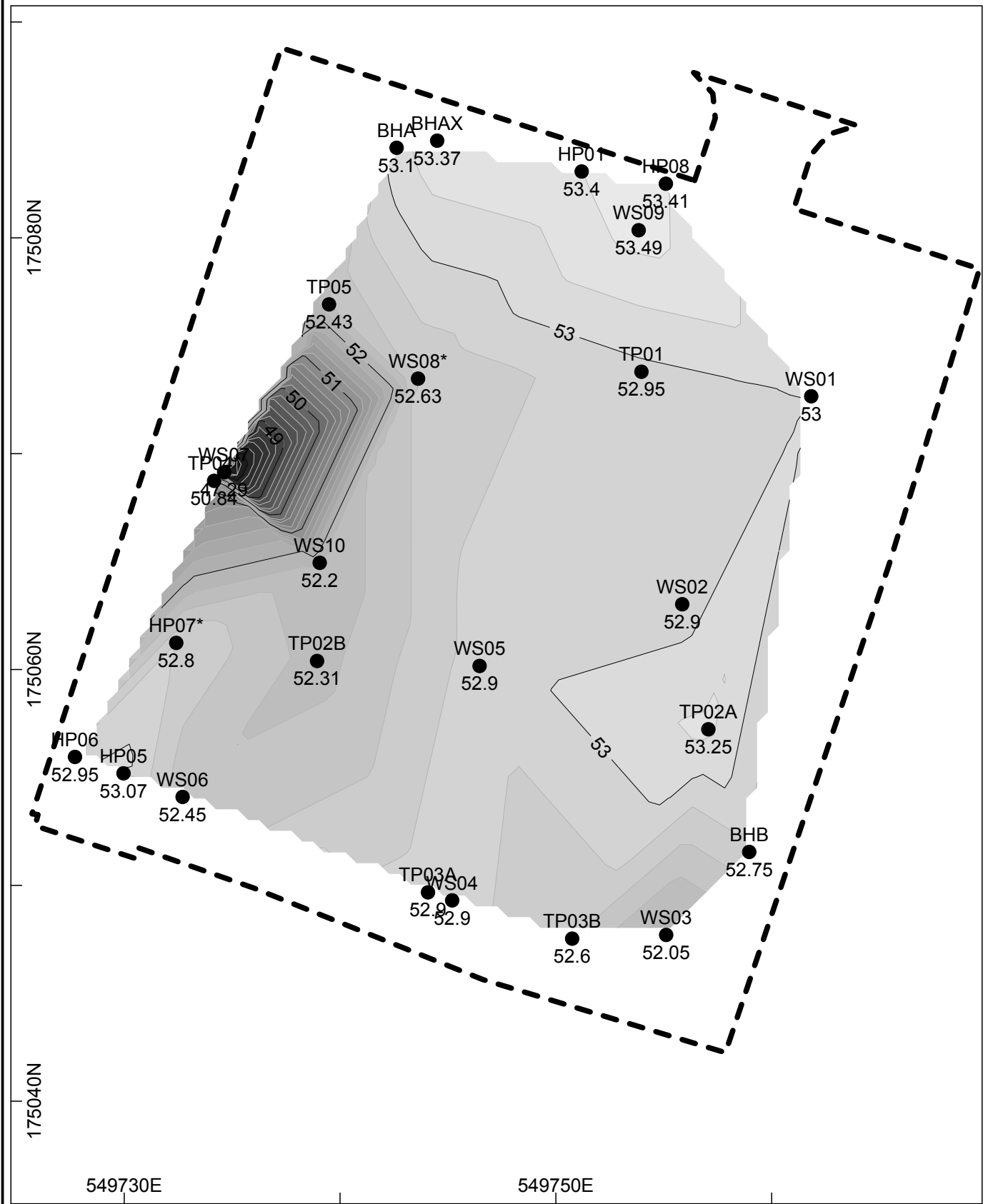


Fig 14 Levels at base of Phases D1-D2 (1:250).