

**RWE Renewables UK Dogger Bank
South (West) Limited**

**RWE Renewables UK Dogger Bank
South (East) Limited**

**Dogger Bank South Offshore
Wind Farms**

**Appendix 22-11 Phase 1 Trenching Report (Part 3
of 4)**

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Rev No.	Page	Section	Description
01	N/A	N/A	This document was previously submitted at the Pre-Examination Procedural Deadline under the title Archaeological Trial Trenching Phase 1 (Final) [PDA-025 to PDA-028]. This document has been resubmitted as Appendix 22-11 Phase 1 Trenching Report [document reference 7.22.22.11] to Chapter 22 Onshore Archaeology and Cultural Heritage [document reference 7.22] at the request of the Examining Authority within the Rule 17 [PD-018] so that all the updated information is within the relevant chapter. No changes have been made to the content of the document.

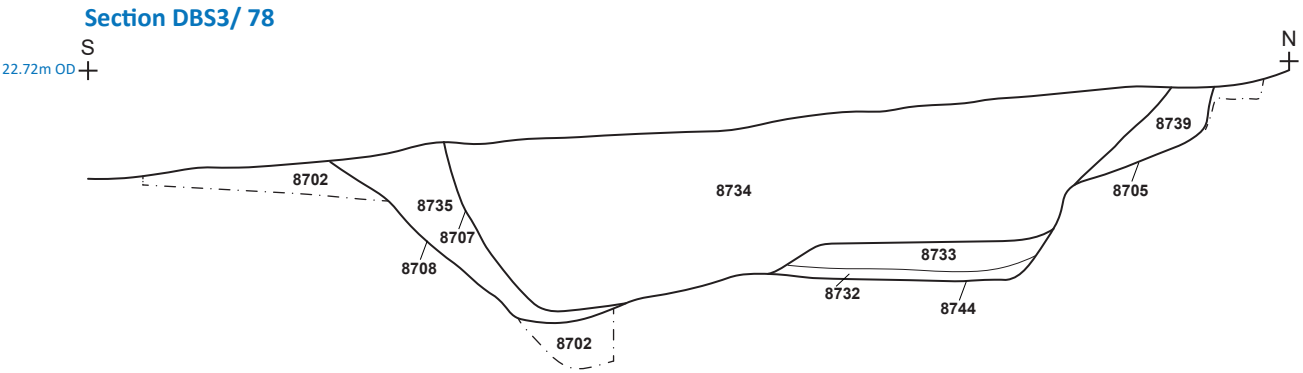
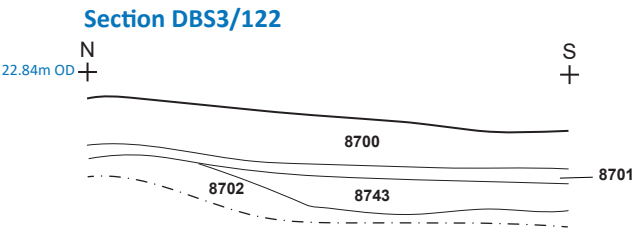
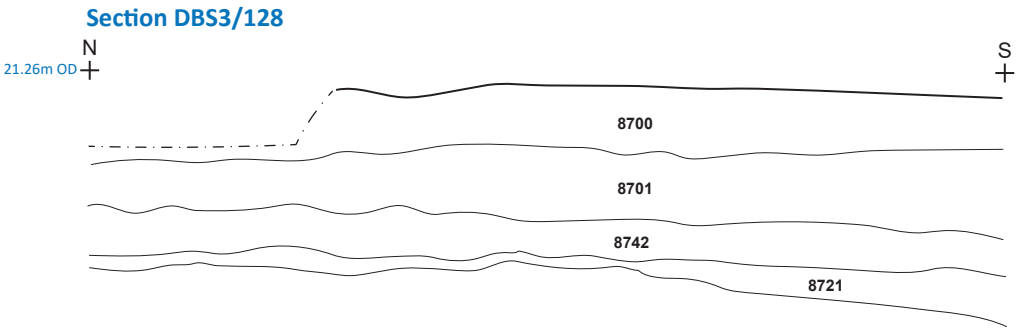
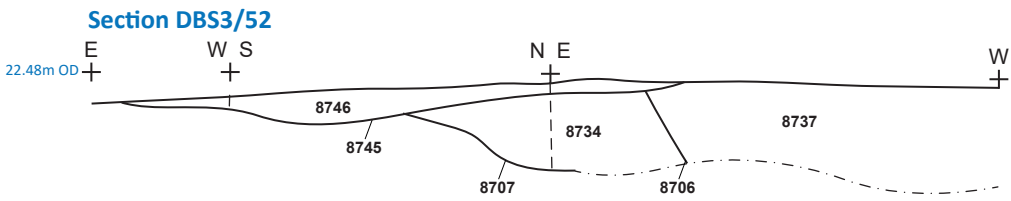
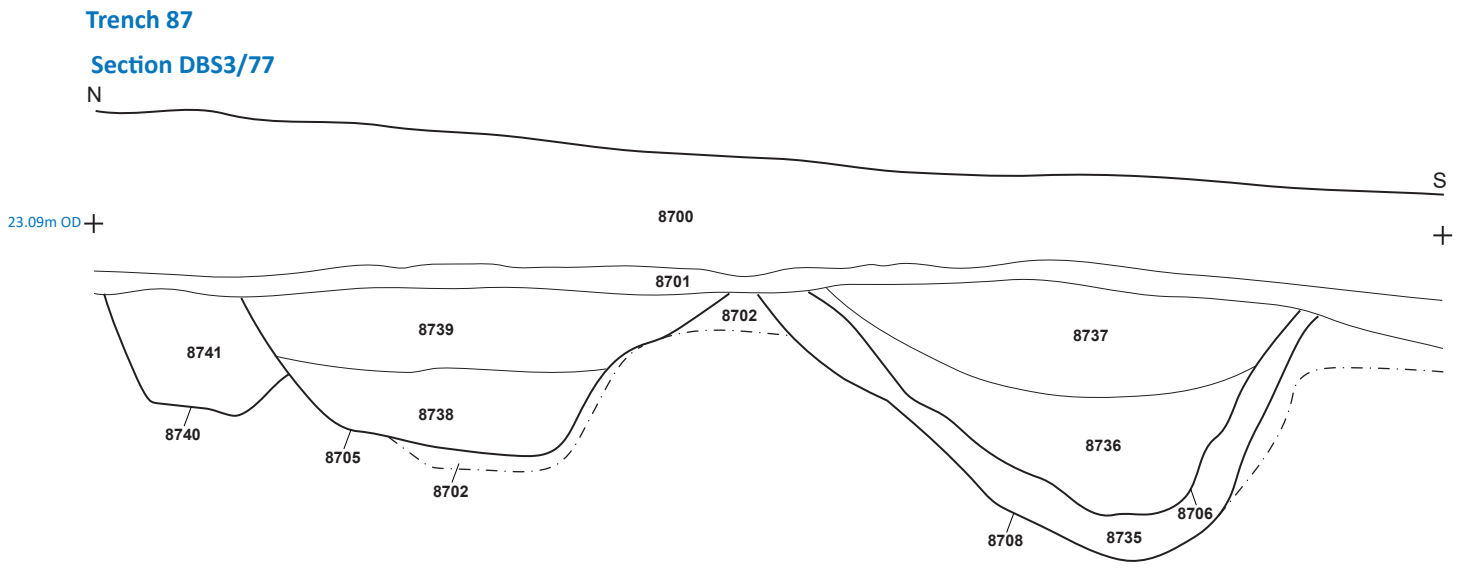
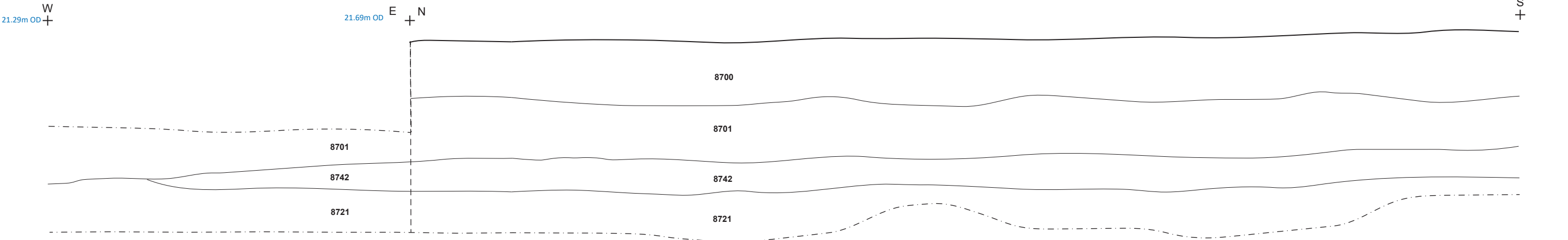


Figure 36: Trench 87 Selected Sections

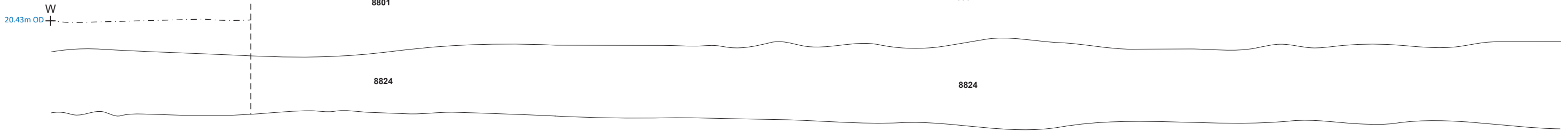
Trench 87

Section DBS3/123 & 124

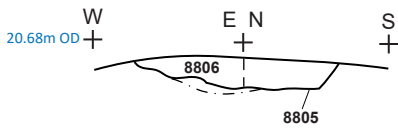


Trench 88

Section DBS3/114 & 115



Section DBS3/102



Section DBS3/103

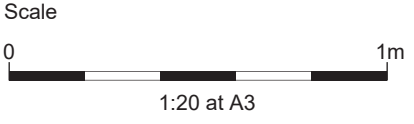
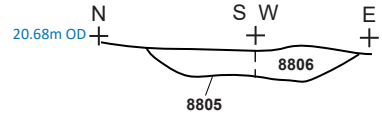
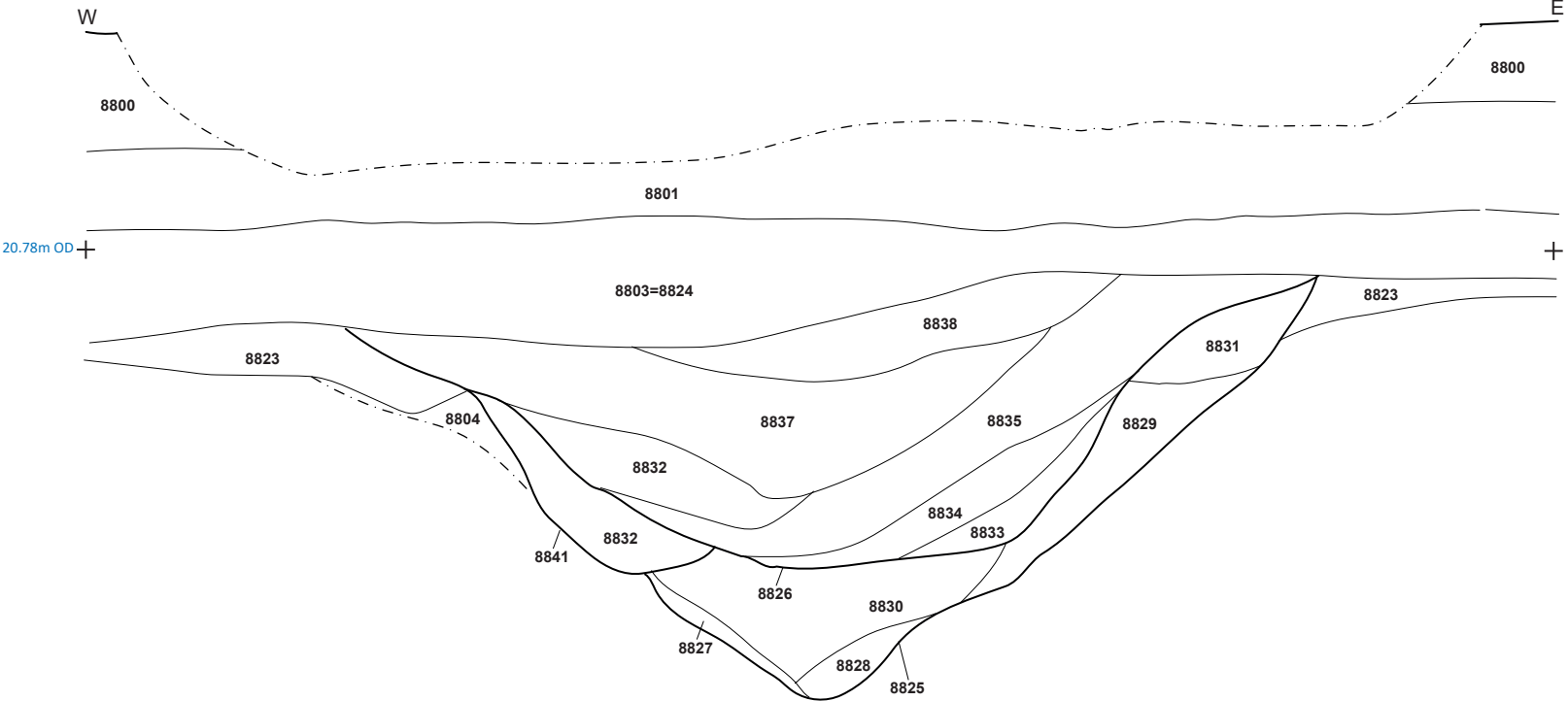


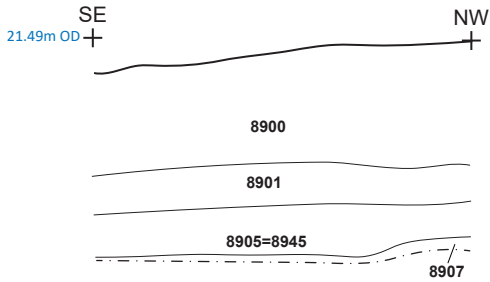
Figure 37: Trenches 87 and 88 Selected Sections

Trench 88

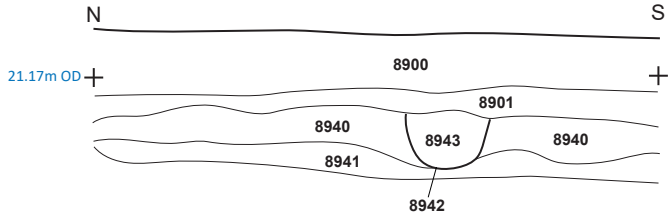
Section DBS3/129



Section DBS3/59

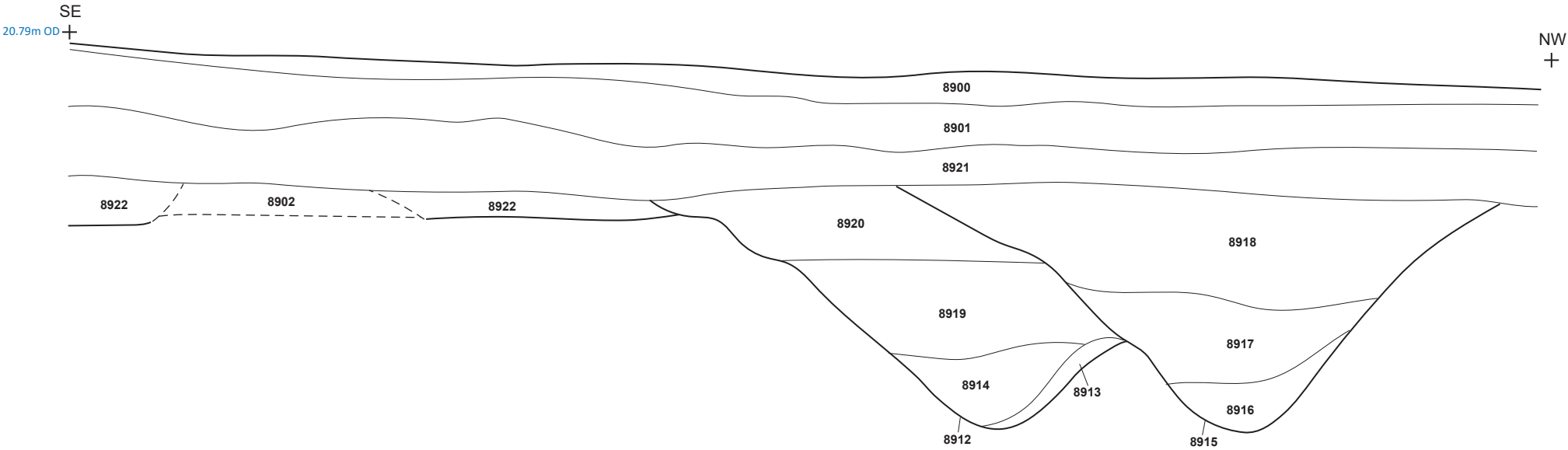


Section DBS3/131



Trench 89

Section DBS3/66



Section DBS3/63

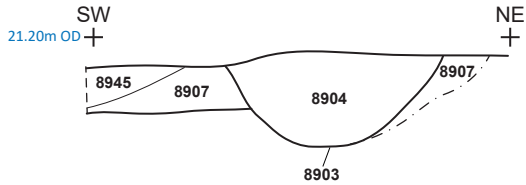


Figure 38: Trenches 88 and 89 Selected Sections

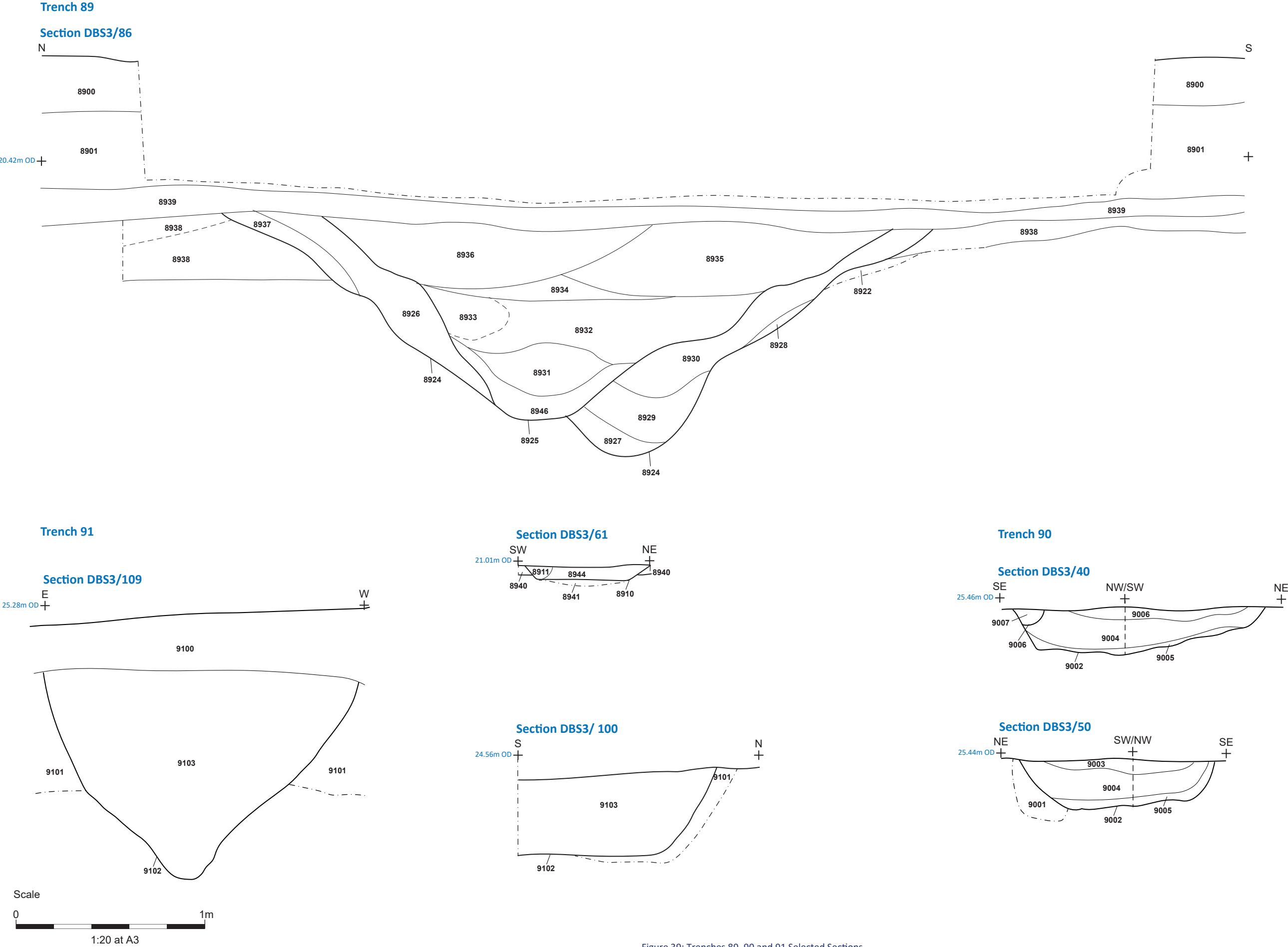
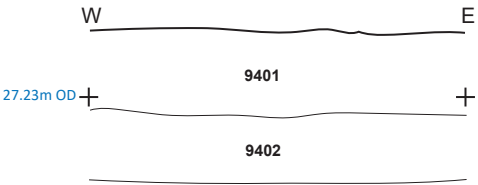


Figure 39: Trenches 89, 90 and 91 Selected Sections

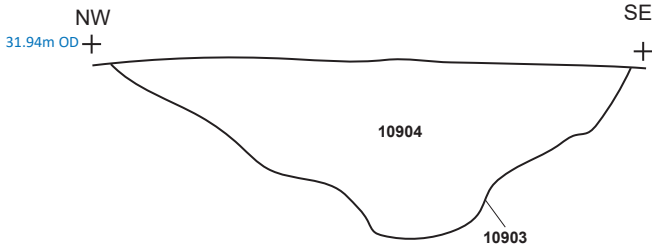
Trench 94

Section DBS4/1



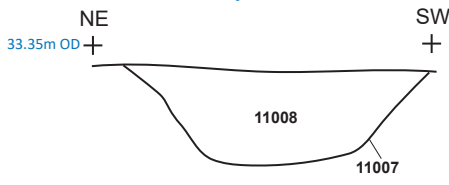
Trench 109

Section DBS4/7

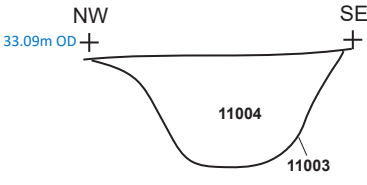


Trench 110

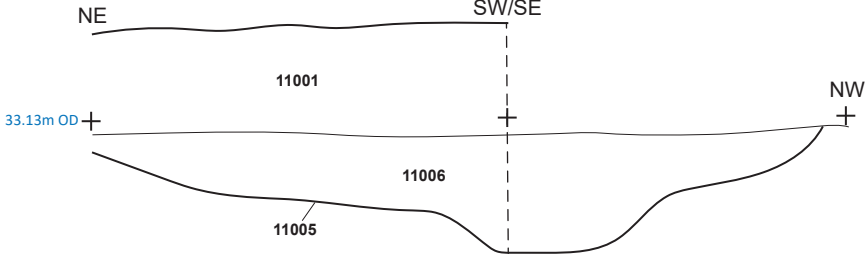
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Section DBS4/6

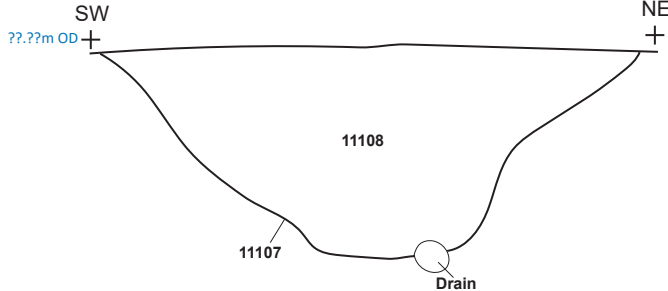


Section DBS4/18



Trench 111

Section DBS4/13



Section DBS4/11

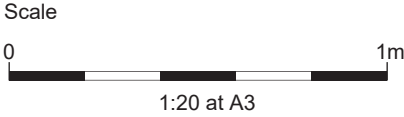
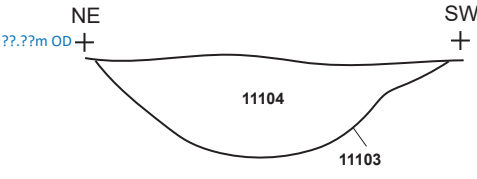


Figure 40: Trenches 94, 109, 110 and 111 Selected Sections



Figure 41: Trenches 112, 115, 117 and 118 Selected Sections

Plates: Landfall



Plate 1.1: Trench 21. Trench shot showing a typical example of boulder clay natural. Looking northeast.



Plate 1.2: Trench 40. Trench shot showing a typical example of natural with dense natural silty clay layers or patches overlying the boulder clay. Ditch [4004] is visible in the foreground. Looking northeast.



Plate 1.3: Trench 31. Trench shot showing a typical example of soft sandy natural. Looking southeast.



Plate 1.4: Trench 11. Plan view of investigations into pond-like sequence (1109)-(1107), looking west.



Plate 1.5: Trench 41. Oblique view of hand excavations in large pond or channel [4103], looking east.



Plate 1.6: Trench 27. Probable geological channel [2704], looking east.



Plate 1.7: Trench 23. Probable tree throw [2309], looking north-northwest.



Plate 1.8: Trench 56. Fully excavated natural hollow [5603], looking east.



Plate 1.9: Trench 1. Sterile blue-grey and gleyed sandy fills in natural feature [105] within natural sandy clay (113). Looking southwest.



Plate 1.10: Trench 1. Ditch [119] cutting natural gravel (118), with the ground level dropping away to the northeast (right). Looking northwest.



Plate 1.11: Trench 2. Plan view of pit [215], looking north.



Plate 1.12: Trench 2. Ditch [203] with recut [206]; looking west.



Plate 1.13: Trench 2. View from the south end of the trench showing curvilinear gully [210] in foreground (with [213] in background), with deposit (218) intermittently in plan. Looking northeast.



Plate 1.14: Trench 3. Fully excavated ditch [330] with recuts [305] and [307]. Looking northwest.



Plate 1.15: Trench 3. Oblique view of ditch [354] (mid-excitation) containing stone deposit (359), and parallel ditch sequence [355], [379], [381]. Looking northeast.



Plate 1.16: Trench 3. Plan view of near-complete pot RF DBS2/3, close to the base of the ditch recut [305] with unexcavated fills of the original ditch [330] visible below.



Plate 1.17: Trench 3. Feature [309], with distinctive yellow clay-rich lower fill (310), cutting into the backfilled ditch recuts [305], [307]. Looking east.



Plate 1.18: Trench 3. View from the eastern end of the trench with ditch [343] in foreground and perpendicular ditches [354], [355] in background. Looking west.



Plate 1.19: Trench 3. North-facing section of ditch [313], probable post-medieval recut [386] and drainage ditch [319], with broad and shallow cut [321] across the top. Looking south.



Plate 1.20: Trench 4. Plan view of pits [433], [431] and [429]. Looking southwest.



Plate 1.21: Trench 4. Pit [410] fully excavated, with lining (409) in section. The pit is cut into the fills of the southern trackway ditch [407] and its recut [420]. Looking southeast.



Plate 1.22: Trench 4. Detail view of coal/shale and pebble lining (409) in pit [410]. Looking southeast.



Plate 1.23: Trench 4. Northern trackway ditch [473] with recut [479]. Looking northwest.



Plate 1.24: Trench 4. Ditch [414] cut by [418]; the latest feature is pit or terminus [412]. Looking southeast.



Plate 1.25: Trench 4. Pit [448]=[436], truncated by east-west aligned ditch [451] in background. The gully terminus [452], prior to excavation, is visible in plan to the right of pit [448]=[436]. Looking west.



Plate 1.26: Trench 5. Broad pit [518], a possibly man-made pond, viewed from upslope. The drop in ground level from north to south is clear. Looking west-southwest.



Plate 1.27: Trench 5. Southern trackway ditch [535] with recuts [538] and [541]. Looking northwest.



Plate 1.28: Trench 5. Northern trackway ditch [508] with furrow [512]. Overcut on the right (and slightly on the left) through the natural layer (503) above boulder clay (502). Looking northwest.



Plate 1.29: Trench 5. Ditch [504], the excavation substantially overcut through natural layer (503). Looking northwest.



Plate 1.30: Trench 5. Ditch [522], looking southeast.



Plate 1.31: Trench 6. View of excavations through naturally deposited layer (607) sealing probable glacial features [605], [613], [604] and [603]. Looking east.



Plate 1.32: Trench 7. Ditch [720] with elongated pit [713]=[718] in the foreground and pit [715] to the right. Looking southeast.



Plate 1.33: Trench 7. Undated Gully [709]. Looking southeast.



Plate 1.34: Trench 7. Furrow [703], post-medieval ditch [705] and recut [707]. Looking north.



Plate 1.35: Trench 8. Oblique view of ditch [803] cut into the broad pond feature [805]. The flooded lower sondage in the background is the location of parallel ditch [830]. Looking southeast.



Plate 1.36: Trench 8. Oblique view of ditch [830] cut into fills of [805]. Looking northeast.



Plate 1.37: Trench 8. Stakeholes [822] and [824], looking northeast.



Plate 1.38: Trench 9. Ditch [917] and recut [918]. Looking northwest.



Plate 1.39: Trench 9. Oblique view of possible ditch [906]. Looking northeast.



Plate 1.40: Trench 12. Pit [1211] truncating the natural hollow [1209]. Looking east.



Plate 1.41: Trench 14. Trench view looking upslope with the dark infilled ditches [1406] and [1407] in foreground. Looking northeast.



Plate 1.42: Trench 15. Ditch [1504] and minor recut [1503], looking southeast.



Plate 1.43: Trench 18. Archaeology at the northwest end of the trench, showing [1803], [1809], [1806] and [1807]/[1808]. Furrow [1810] is partially in plan in the background, and the grey sealing deposit (1819) is clearly visible in the trench-section below the orange-brown subsoil (1801). Looking north.



Plate 1.44: Trench 18. Pit [1813] (right) and ditches [1815] and [1814]. The grey sealing deposit (1829) is clearly visible above [1813] but has been removed by a furrow [1831] above the ditches. Looking north.



Plate 1.45: Trench 19. Plan view of fire pit [1902] mid-excavation. Looking southeast.



Plate 1.46: Trench 19. Possible gully terminus [1904], looking southwest.



Plate 1.47: Trench 20. Plan view of probable natural channel [2011], showing contrast of (2012) with the surrounding natural (2002). The excavated slot has been deliberately overcut to evaluate the natural deposits (2029), (2014) and (2013) below. Looking northwest.



Plate 1.48: Trench 20. Ditches [2005] and [2003] with furrow [2007] (left). Looking northwest.



Plate 1.49: Trench 20. Ditch [2015] with recuts [2017] and [2019]. The sterile fills closely resemble the surrounding natural clay (2002) and the ditch fill is hard to discern in plan. Looking northwest.



Plate 1.50: Trench 24. Ditch [2403] with recut [2406], truncated by [2409]. Looking southwest.



Plate 1.51: Trench 25. Oblique view of excavated features within the pond [2521]. Pit [2506] (left) and ditch [2507] (right) cut the pond layers, sealed by layer (2505). Looking southeast.



Plate 1.52: Trench 25. Plan view of possible pit [2503], looking southwest.



Plate 1.53: Trench 26. Plan view of evaluated deposits infilling a shallow natural hollow; pit [2608] is visible in plan in the foreground, truncated by a field drain cut. Looking southeast.



Plate 1.54: Trench 28. Plan view of ditch [2803], looking northwest



Plate 1.55: Trench 28. Pit [2807] mid-excavation, showing compacted stone layer (2809). Looking east-northeast.



Plate 1.56: Trench 28. Hand-excavated evaluation of natural deposit (2811) overlain by the darker possible occupation layer (2812), showing the drop in ground level to the south (flooded area). Looking southeast.



Plate 1.57: Trench 29. Pit [2904], looking west.



Plate 1.58: Trench 29. Ditch [2906] (left), also showing adjacent tree throw [2908]. Looking southeast.



Plate 1.59: Trench 30. Ditch [3004] with recut [3006] and deposit (3011) in sequence. Looking northwest.



Plate 1.60: Trench 33. View of hand-excavated deposit (3304) at its deepest point. Looking northwest.



Plate 1.61: Trench 33. Stepped excavation in ditch [3308] and recut [3313]. The relationship with deposit (3305) is visible in the trench-edge section. Looking northwest.



Plate 1.62: Trench 34. Pond [3437] cut by ditch [3435] with pit [3430] in the background. Looking south.



Plate 1.63: Trench 34. Detail view of fill sequence in pond [3437]. Looking northwest.



Plate 1.64: Trench 34. Pit [3404]. Looking northwest.



Plate 1.65: Trench 34. Pit [3413] (right), cut by [3415]. Looking north.



Plate 1.66: Trench 34. Elongated shallow pit [3402]. Looking south.



Plate 1.67: Trench 34. Pits [3418] and [3421] with [3409] in background. Looking north.



Plate 1.68: Trench 35. Ditch [3508] with recut [3514] and shallow cut [3517]. Looking west-northwest.



Plate 1.69: Trench 35. Post-medieval drainage ditch [3502]. Looking west-northwest.



Plate 1.70: Trench 37. Possible pit [3703]. Looking west.



Plate 1.71: Trench 37. Plan view of ditch terminus [3706], looking southeast.



Plate 1.72: Trench 37. Possible pit [3708] with furrow [3713]. Looking northeast.



Plate 1.73: Trench 38. Possible pond [3826] with deposit sequence in section, truncated to the north by a broad modern land drain cut [3818]. Looking south.



Plate 1.74: Trench 38. Plan view of pits [3811], [3813] and [3815] at the northwest end of the trench. Looking northwest.



Plate 1.75: Trench 40. Plan view of ditch [4004] and recut [4013]. Looking north-northwest.



Plate 1.76: Trench 42. Pit or ditch terminus [4204] mid-excitation, testing profiles on both axes; feature excavated in very wet conditions. Looking northeast.



Plate 1.77: Trench 43. Ditch [4304] in plan and section, looking northeast.



Plate 1.78: Trench 43. Plan view of cobble layer (4303) in wet ground conditions. Looking northwest.



Plate 1.79: Trench 44. Plan view of pit [4411], looking southwest.



Plate 1.80: Trench 50. Plan view of pit [5042], visible after removal of the sealing deposit (5054). Looking west.



Plate 1.81: Trench 50. Overall view of pit [5049] at the north end of Trench 50, with distinctive stony upper fill (5065). The southern edge of the cut (right) truncated the layer (5054) as well as an early pit [5050]. Looking east.



Plate 1.82: Trench 50. Ditch [5040] truncating deposit (5054) in section; ditch [5041]=[5049] is in plan in the foreground. Looking east.



Plate 1.83: Trench 50. Overall view of parallel ditch sequences [5003]/[5018], [5009]/[5037]/[5016]/[5010]/[5017] and [5005]/[5029] in the southern half of Trench 50. Looking southeast.



Plate 1.84: Trench 51. Oblique view of ditch sequence [5113]/[5116]/[5117] and pit [5114], showing large stones in the west-facing section. Looking northeast.



Plate 1.85: Trench 51. Plan view of pit [5103], looking southwest.



Plate 1.86: Trench 51. Overall view of pits [5130] and [5129], with ditches [5128] and [5132] (mid-excavation) in background. Looking southwest.



Plate 1.87: Possible prehistoric pit [5222], sealed by a probable flooding layer (5223)=(5240). Looking east.



Plate 1.88: Trench 52. Oblique view of south-facing section through ditch sequence [5219]/[5220]/[5255]/[5224]/[5225]. Looking northwest.



Plate 1.89: Trench 52. Oblique view of ditch [5202] cut by pit [5203] and horizontally truncated by [5221]. The dark fills of the uppermost feature [5221] yielded a high concentration of charred macroplants. Looking east.



Plate 1.90: Trench 53. Stepped excavation in ditch [5382] and recuts [5393], [5397]. Looking south.



Plate 1.91: Trench 53. Area view of curvilinear ditch [5313]=[023], north-south aligned ditch [5312] and deep pit [5314]. North-south aligned ditch [5303] is visible in the background. Looking east-northeast.



Plate 1.92: Trench 53. Ditch [5320] recut by [5346], looking south.



Plate 1.93: Trench 53. Overall view of curvilinear ditch [5321]=[5322]=[5334], pits [5323], [5339] and ditch [5320] (mid-excavation) in background. Looking southeast.



Plate 1.94: Trench 53. Mid-excavation view of ditch [5324] and curvilinear gully [5325]=[5342], showing concentrations of medieval pottery in [5325], with small pit [5338]. Looking northeast.



Plate 1.95: Trench 53. Plan view of features at west end of trench: pits [5385], [5364]; deposit (5383) cut by pits [5388], [5387]; gully terminus [5361] cut by pit [5363]. Pits [015] and [5395] are visible (prior to excavation) in the background. Looking west.



Plate 1.96: Trench 53. Possible pit [5356], [5357] and [5368] with probable natural features [5358] and [5359] and deposit (5360). Looking southwest.



Plate 1.97: Trench 55. View of natural hollow [5507]. Looking north.



Plate 1.98: Trench 55. Ditch [5504], looking southeast.



Plate 1.99: Trench 56. Ditch [5608], looking east.



Plate 1.100: Trench 57. Oblique view of pit or ditch [5707], looking north.



Plate 1.101: Trench 58. Ditch terminus [5806], looking northeast towards furrow [5808].



Plate 1.102: Trench 58. Ditch [5803], looking north-northwest.



Plate 1.103: Trench 59. Ditch [5905], looking northwest.

Plates: Onshore Substation Zone



Plate 2.1: Aerial view focusing on south end of site (foreground). Mid-excavation view with Trenches 80 – 85 & 87 – 93 open. Looking northwest.



Plate 2.2: View of the southern end of site, showing low lying hollow in landscape, looking northwest.



Plate 2.3: Trench 79. Representative section showing natural deposits. Looking southwest.



Plate 2.4: Trench 83. Trench shot showing an example of clay and chalk natural. Looking northwest.



Plate 2.5: Trench 84. Representative section showing natural deposits. Looking southeast.



Plate 2.6: Trench 95. Trench shot showing example of natural clay in blank trench, looking west.

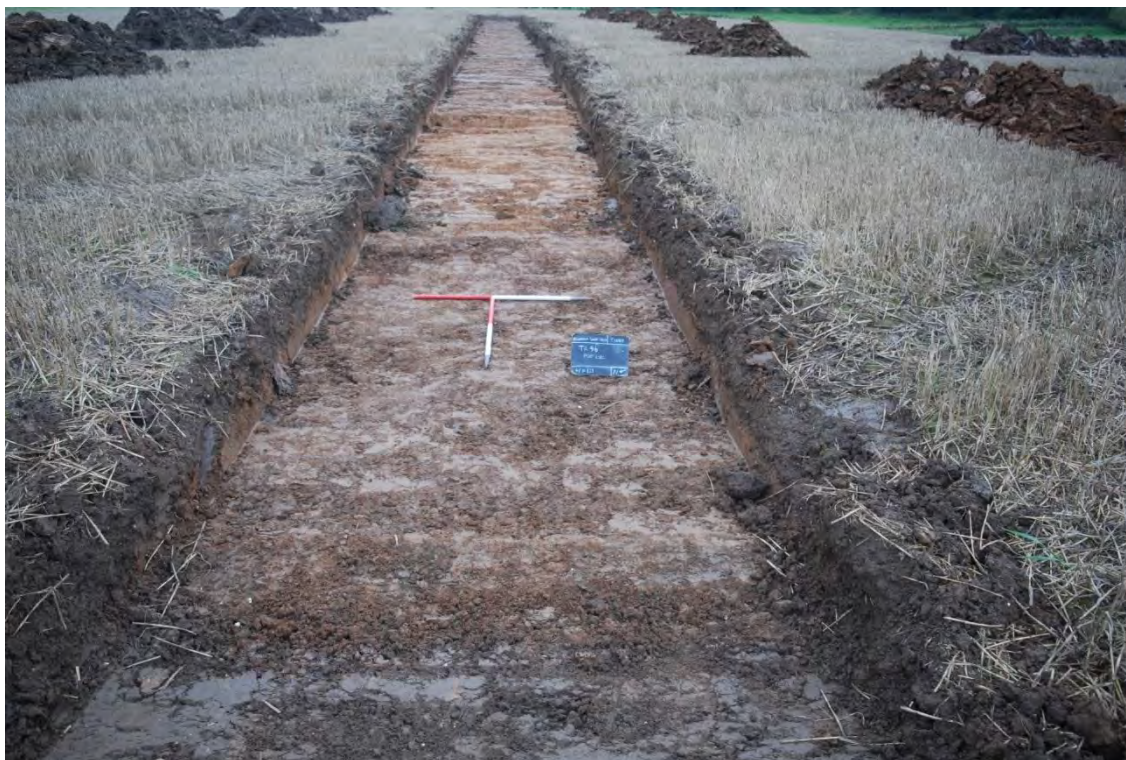


Plate 2.7: Trench 96. Trench shot showing the clay natural in blank trench, looking northwest.



Plate 2.8: Trench 65. Trench shot pre-excitation showing furrow [6501] in foreground. Looking southwest.