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Breedon Trading Limited Denbigh Quarry Denbigh, Denbighshire

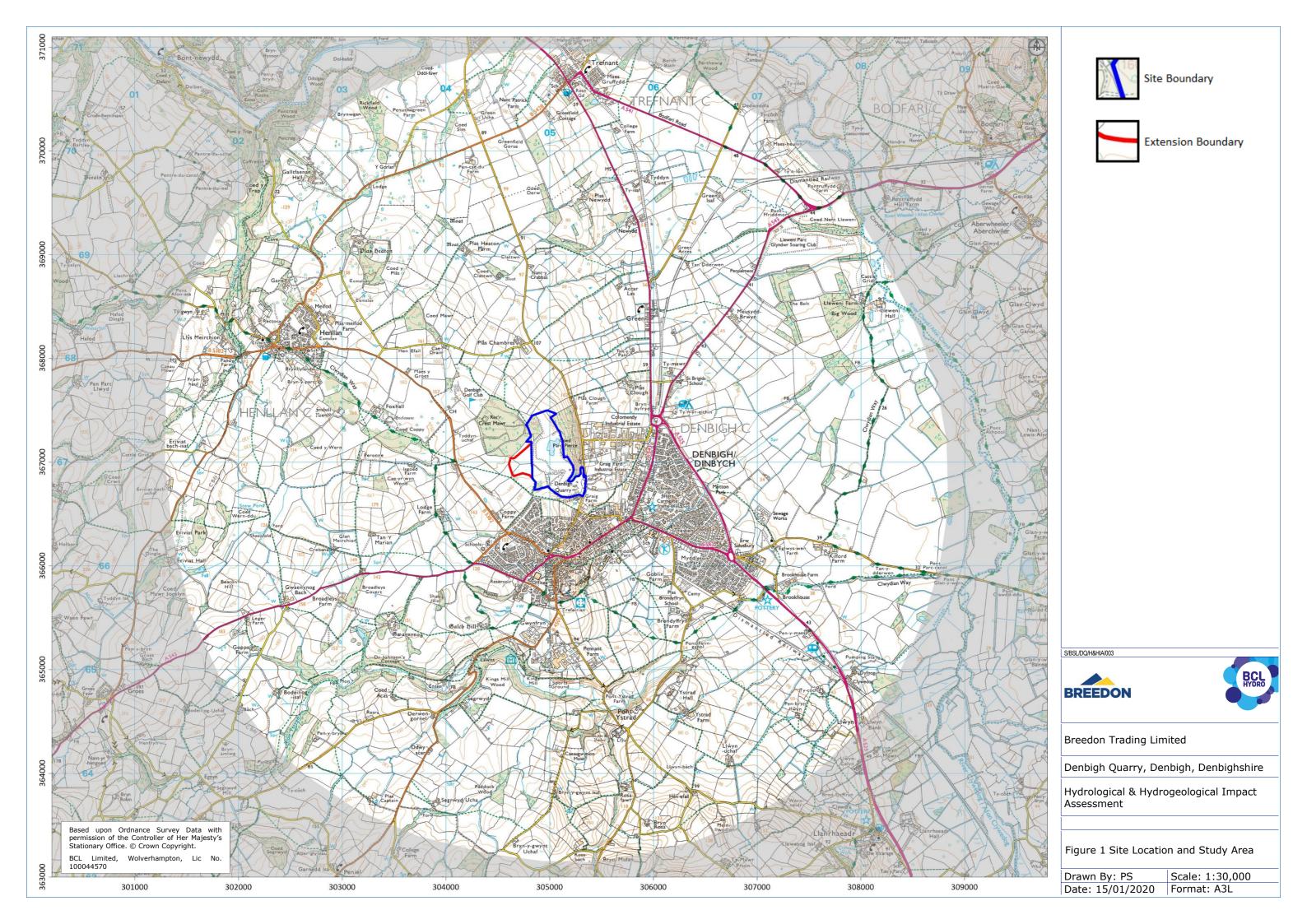
Extension to Existing Mineral Workings

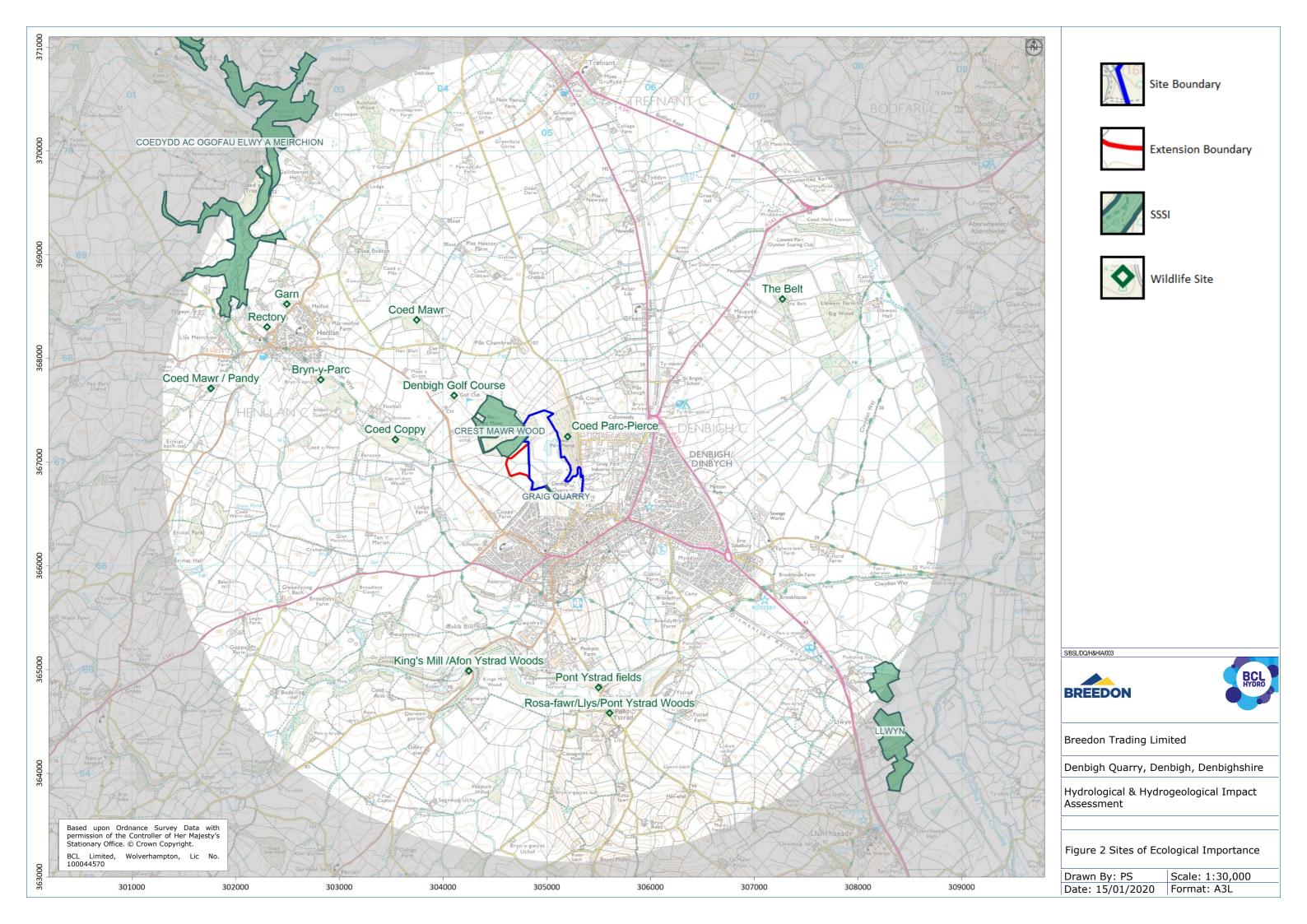
Hydrological & Hydrogeological **Impact Assessment**

02nd Febuary 2022

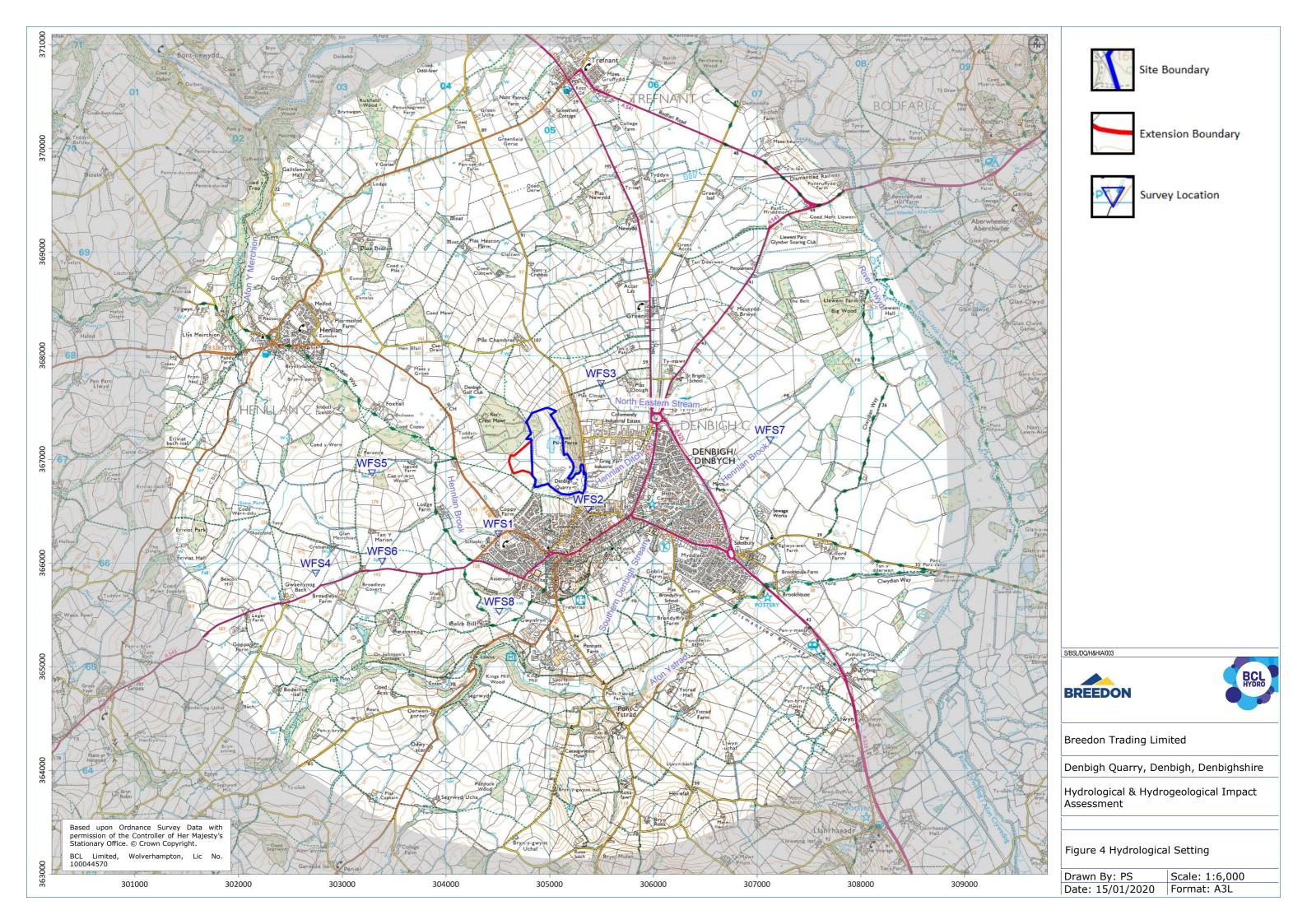
Figures

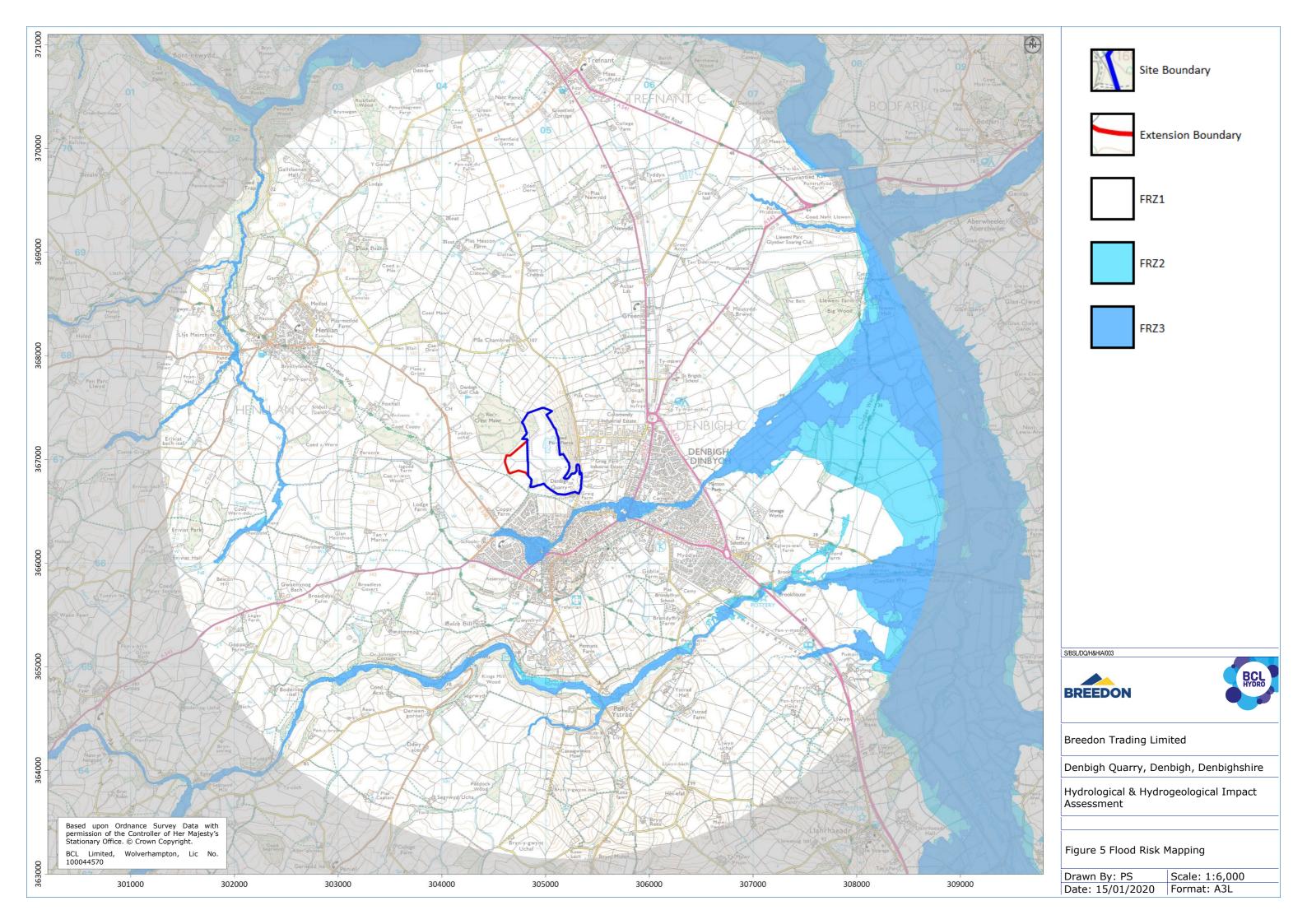


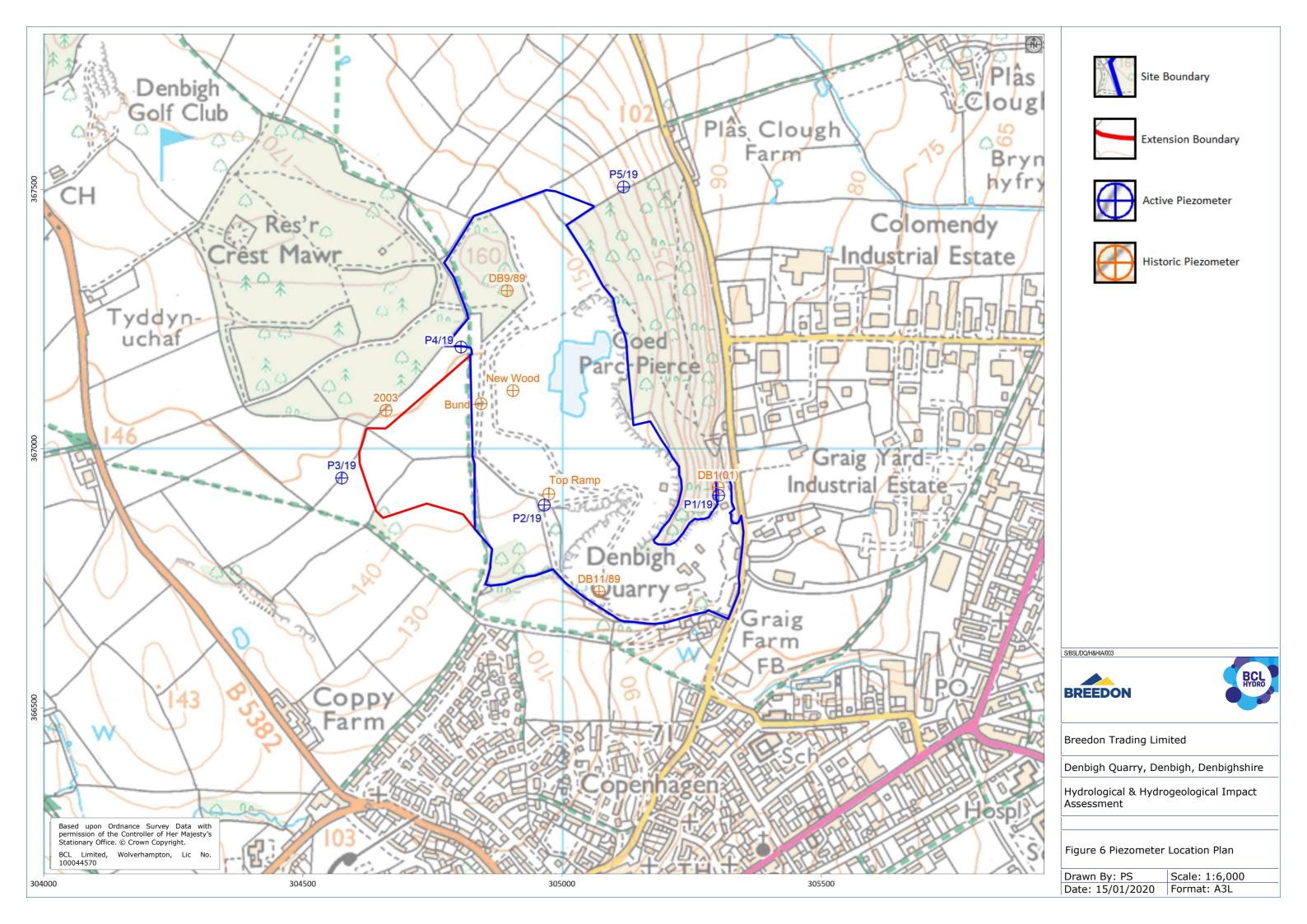


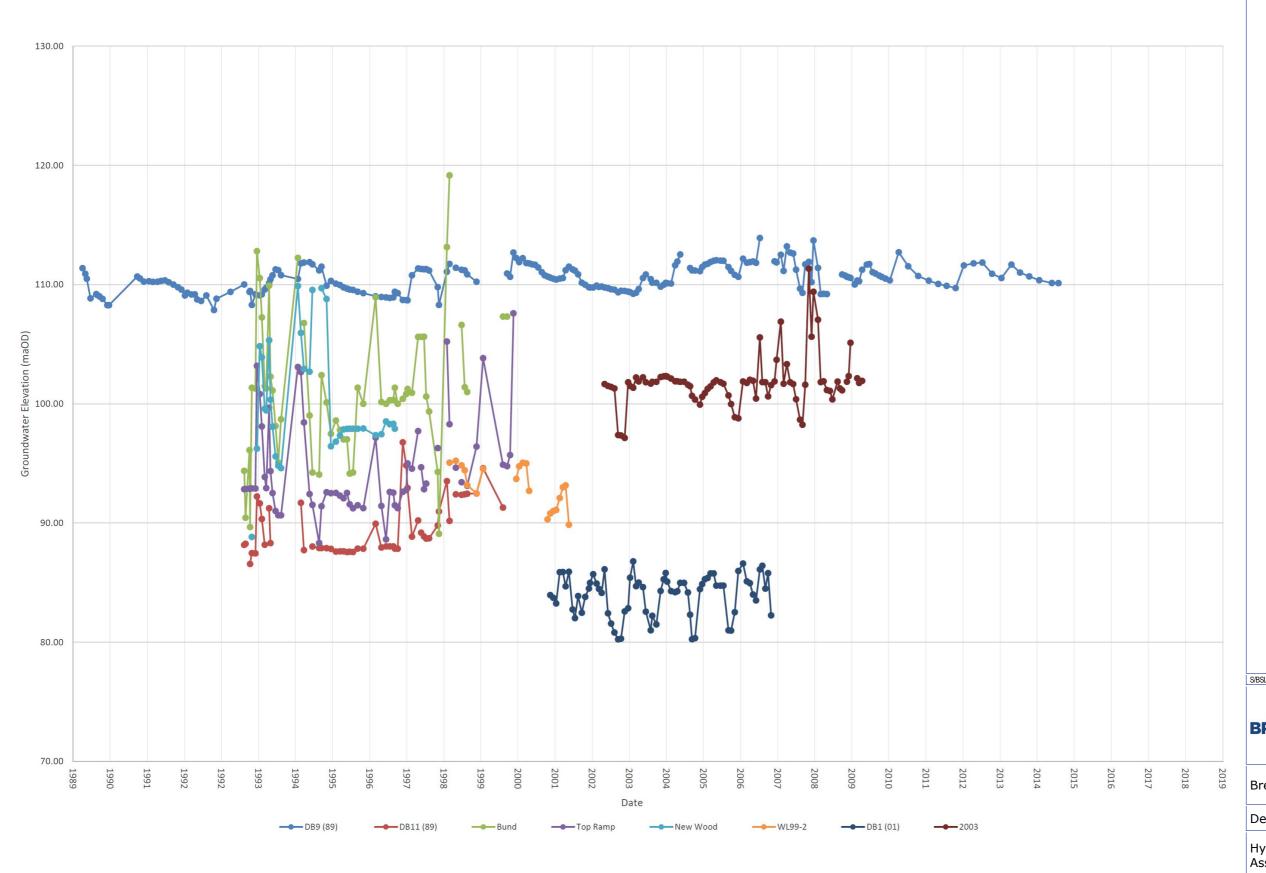


Based upon Ordnance Survey Data with permission of the Controller of Her Majesty's Stationary Office. © Crown Copyright. BCL Limited, Wolverhampton, Lic No. 100044570 Site Boundary Lacustrine Alluvium Extension Boundary Alluvial Fan, Cone or Delta PLEISTOCENE AND RECENT First Terrace Second Terrace Third Terrace River Terrace Deposits, undifferentiated Head, undifferentiated Fluvio-glacial or Older River Gravel Glacial Sand and Gravel Sandy Boulder Clay Boulder Clay 302000 303000 304000 305000 306000 307000 308000 and sandstones wit seatearths and one recorded coal. **BREEDON** Breedon Trading Limited Denbigh Quarry, Denbigh, Denbighshire Hydrological & Hydrogeological Impact Assessment Figure 3 Geological Mapping Scale: 1:50,000 Drawn By: PS 302000 303000 304000 306000 307000 Date: 15/01/2020 Format: A3L 305000 308000









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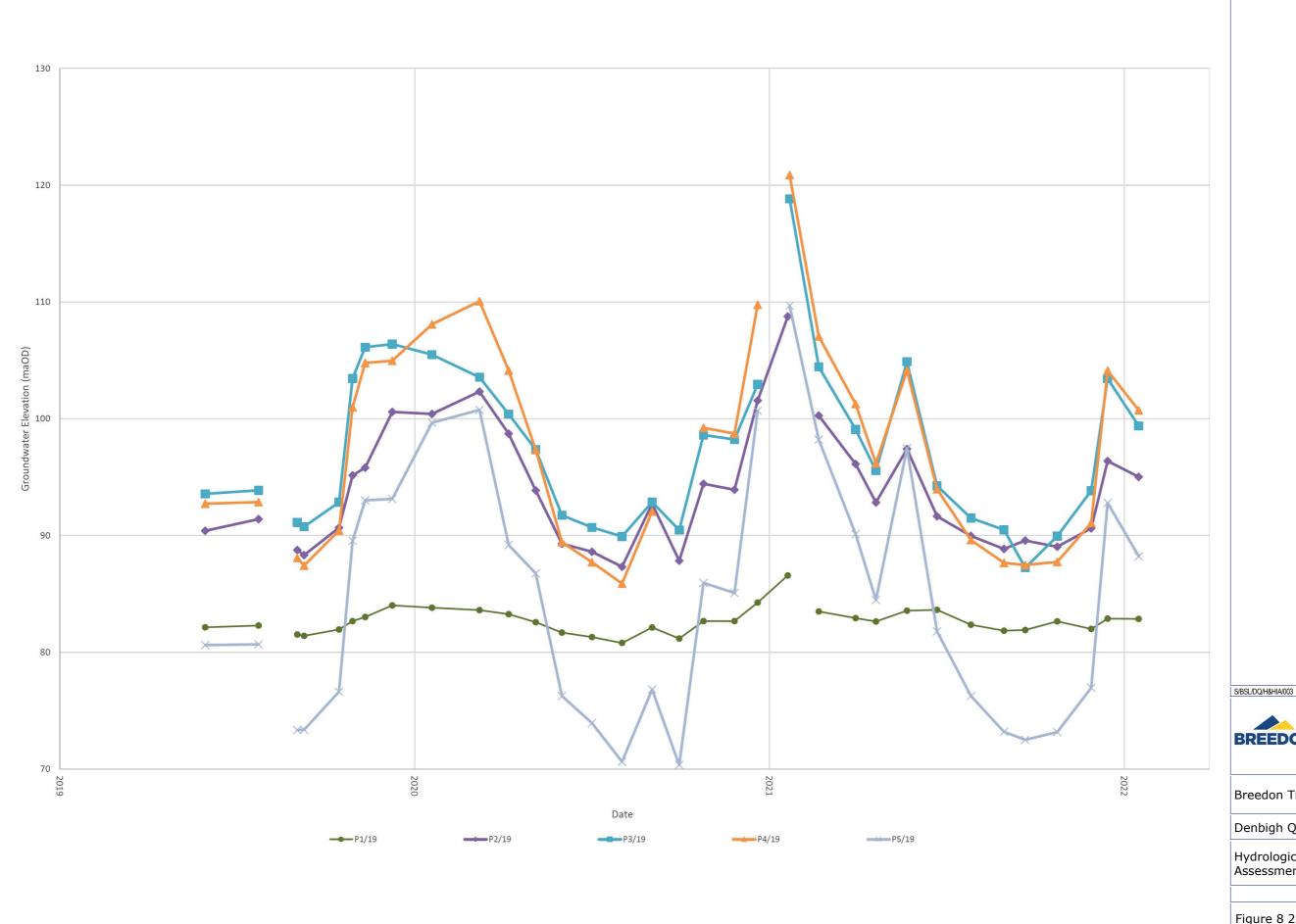
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Figure 7 Historic Piezometer Hydrograph

Drawn By: PS Scale: maOD
Date: 15/01/2020 Format: A3L







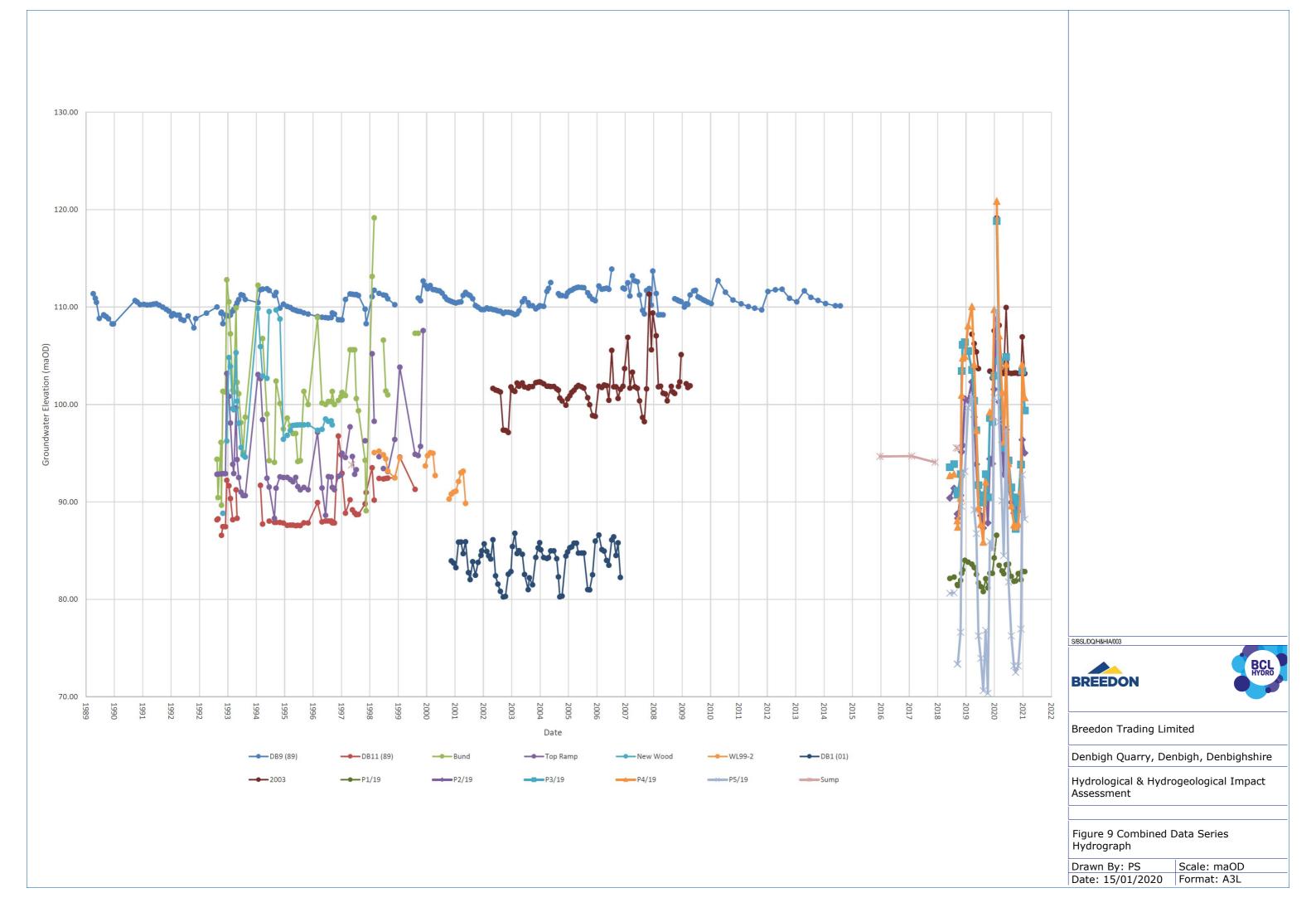
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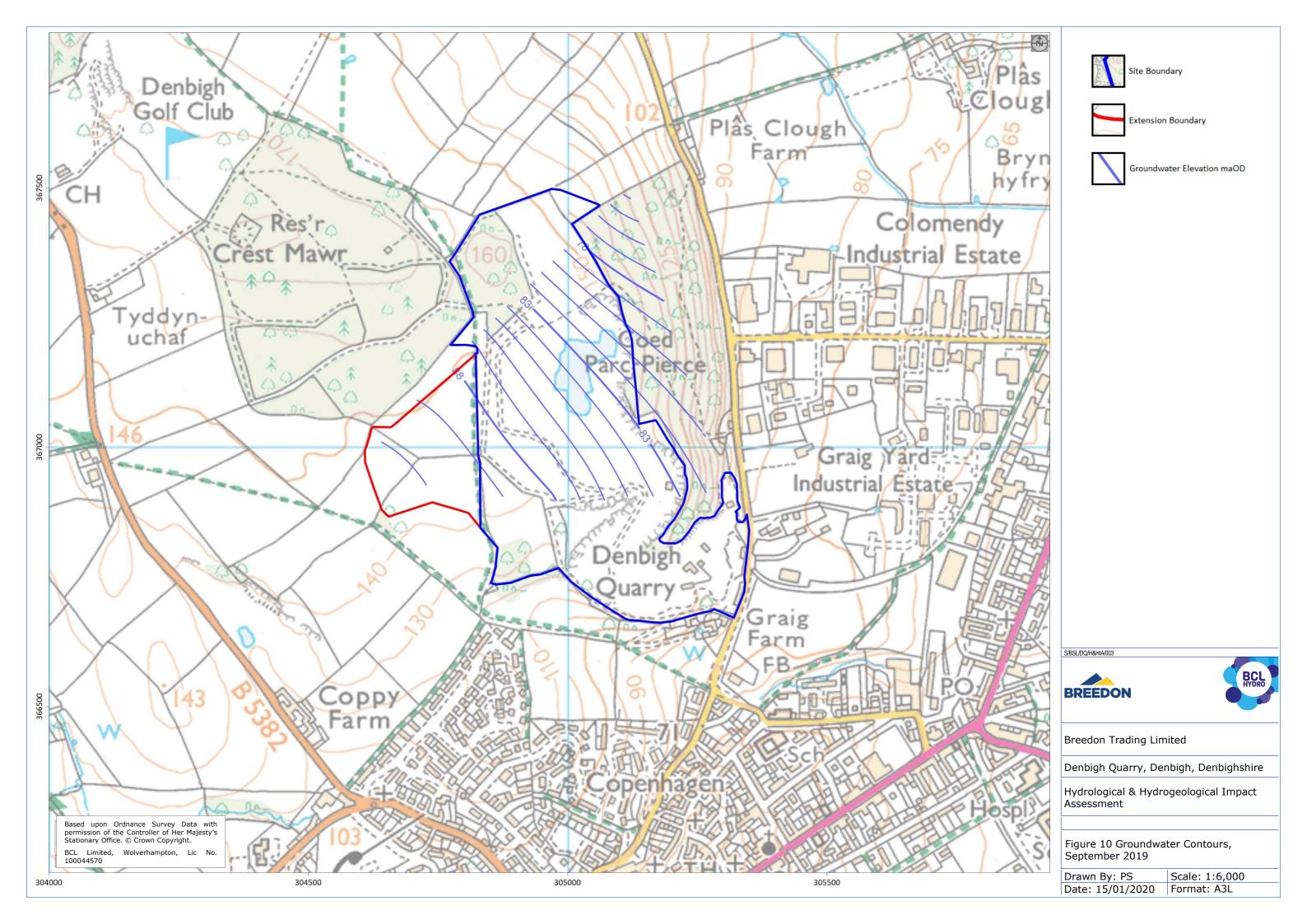
Denbigh Quarry, Denbigh, Denbighshire

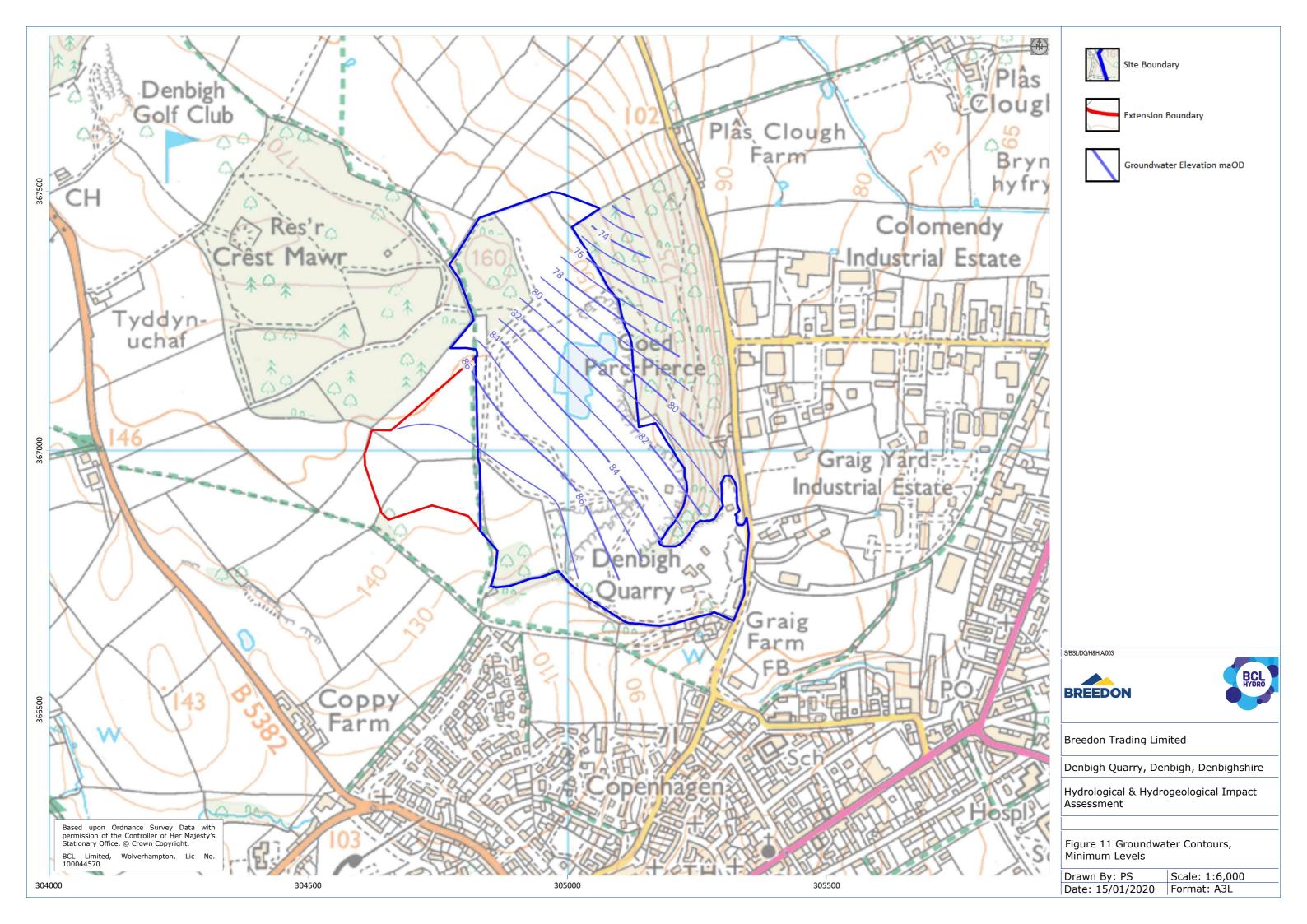
Hydrological & Hydrogeological Impact Assessment

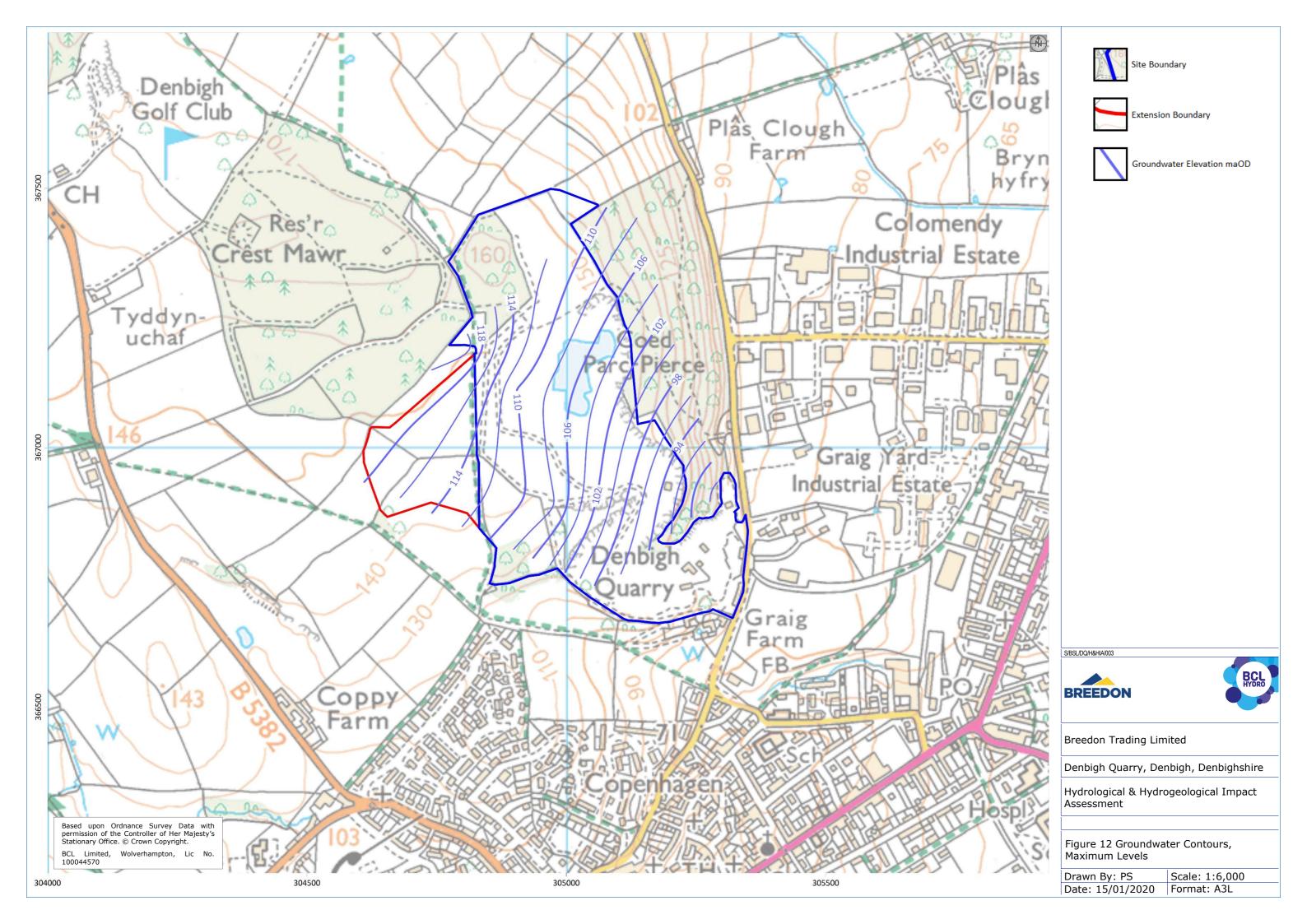
Figure 8 2019 Series Piezometer Hydrograph

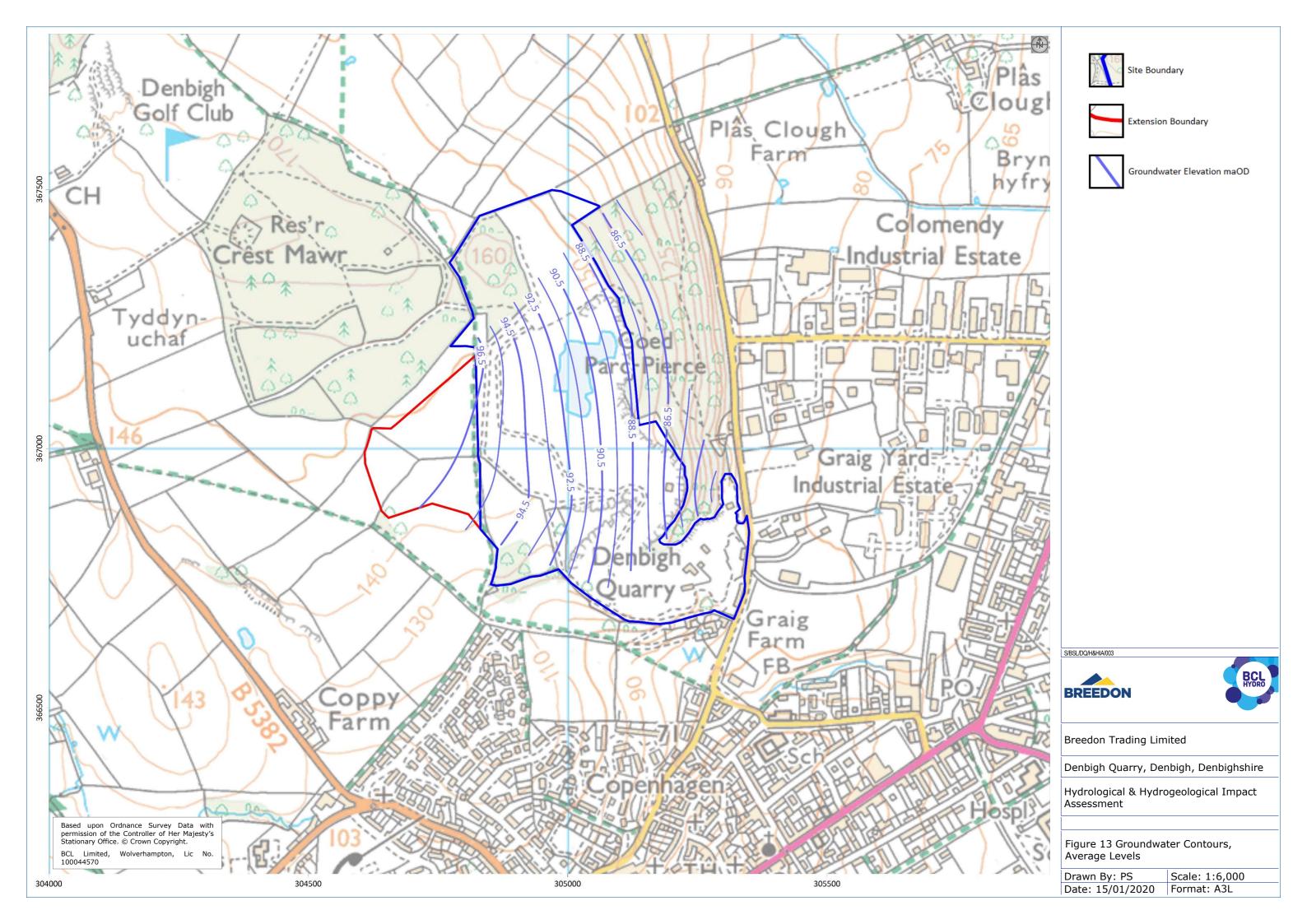
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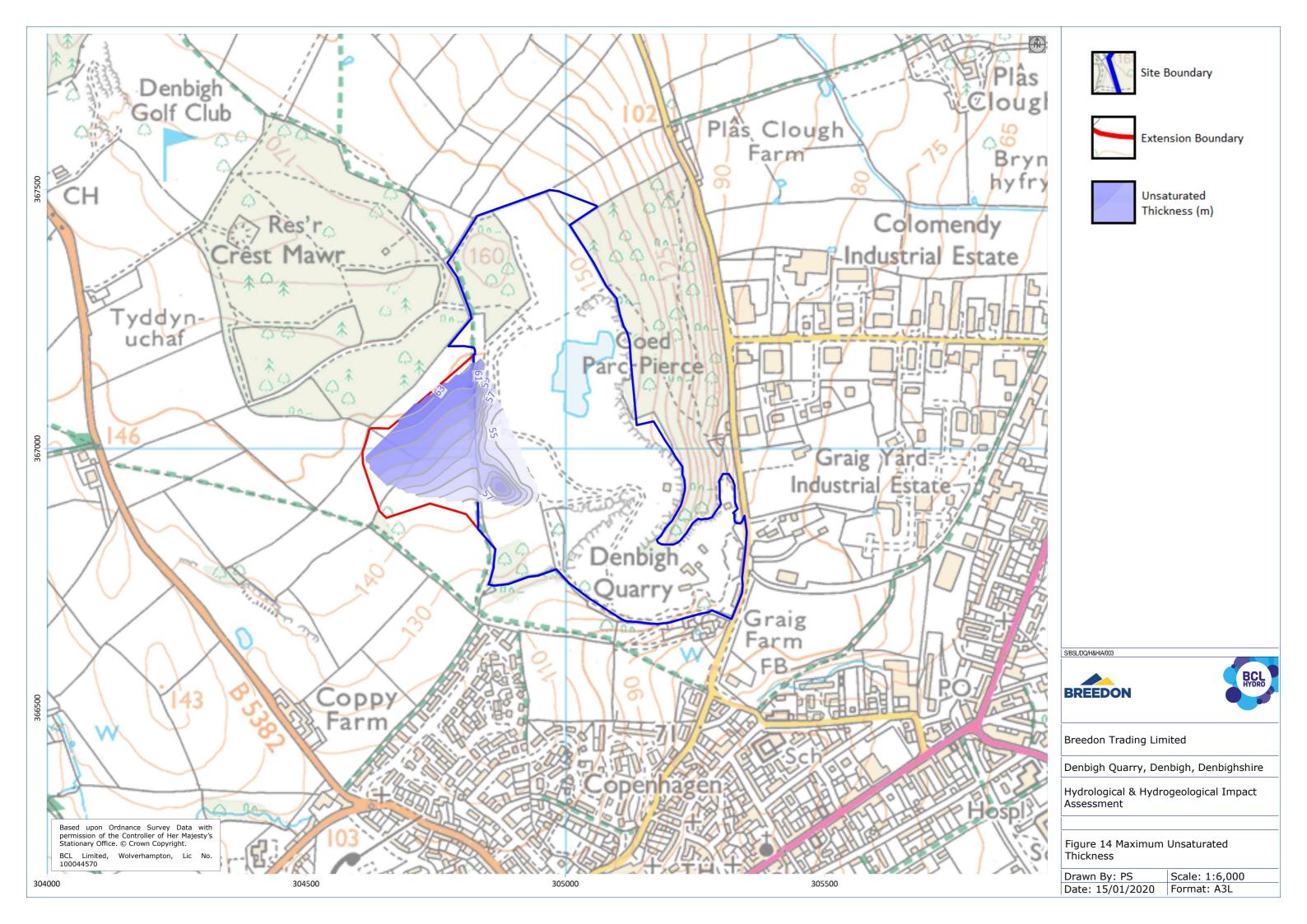


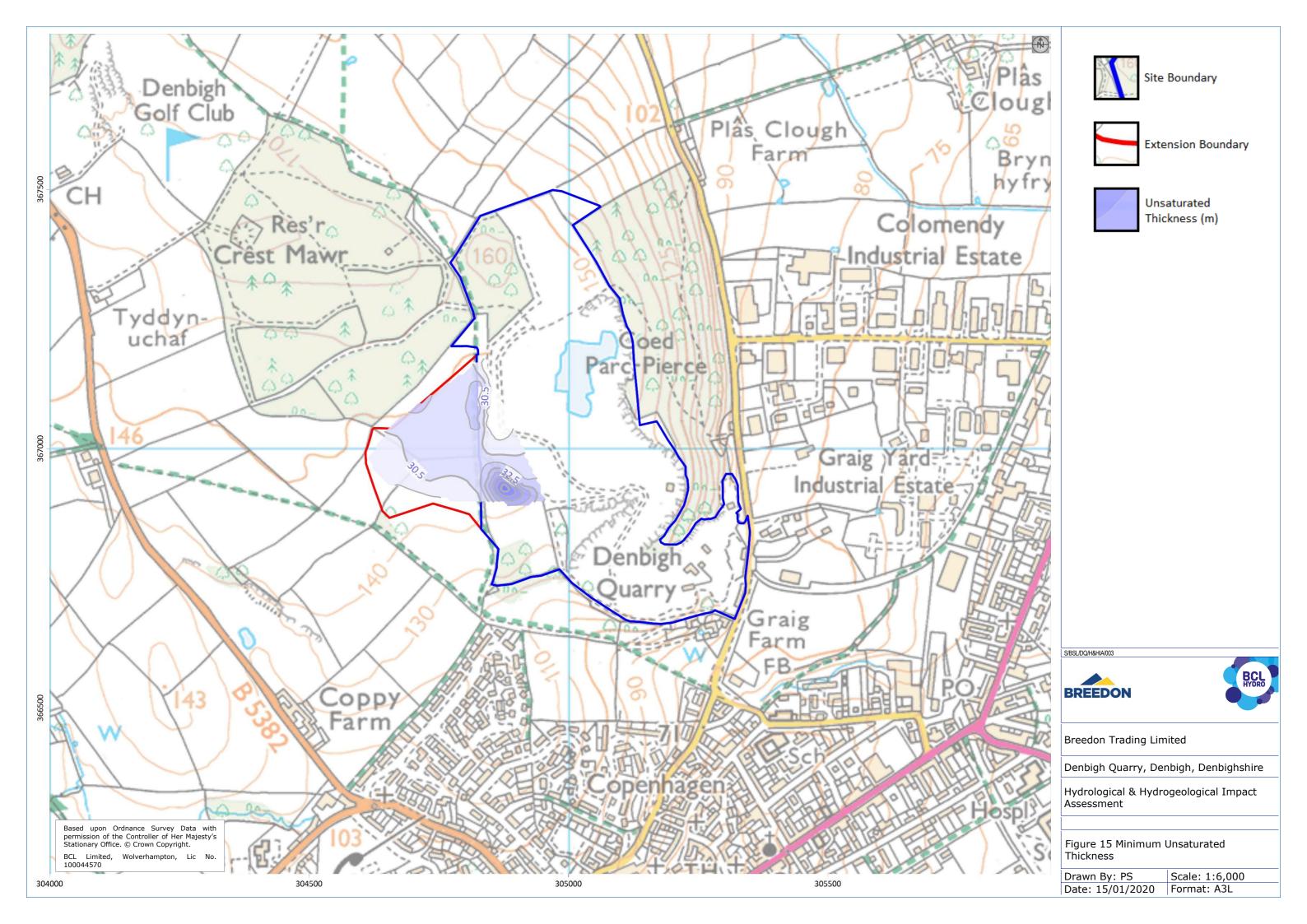


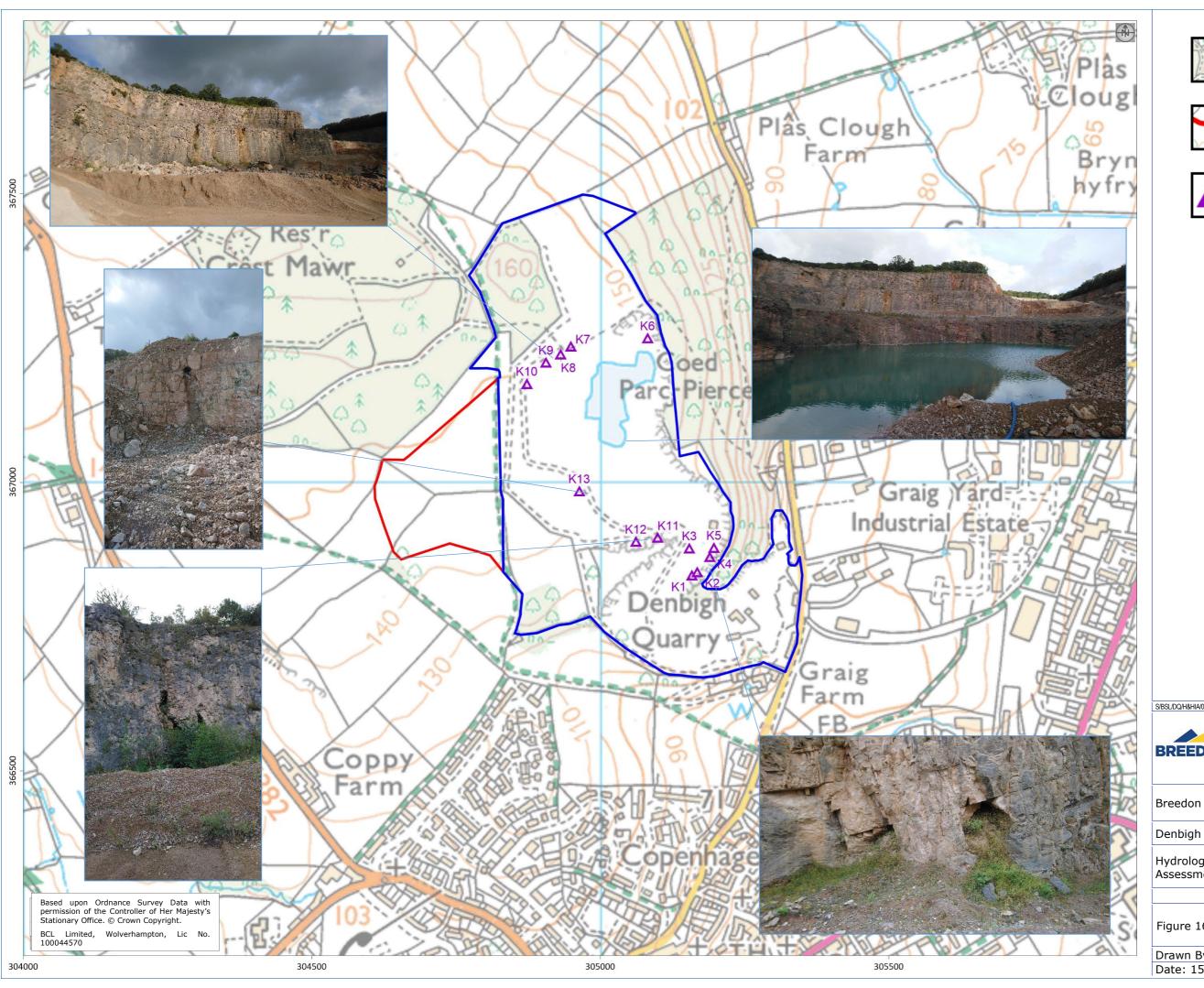














Site Boundary



Extension Boundary



Karst Feature





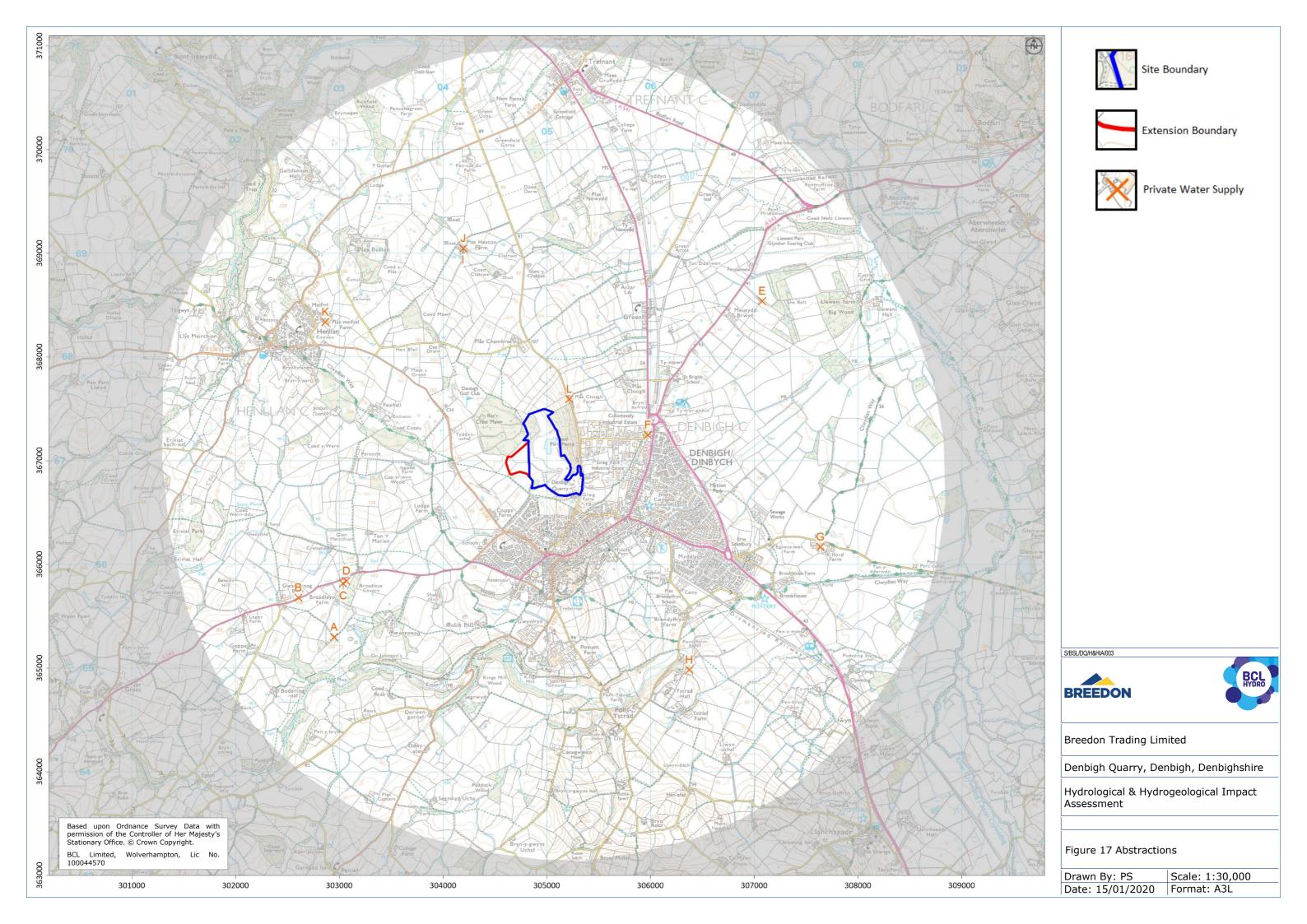
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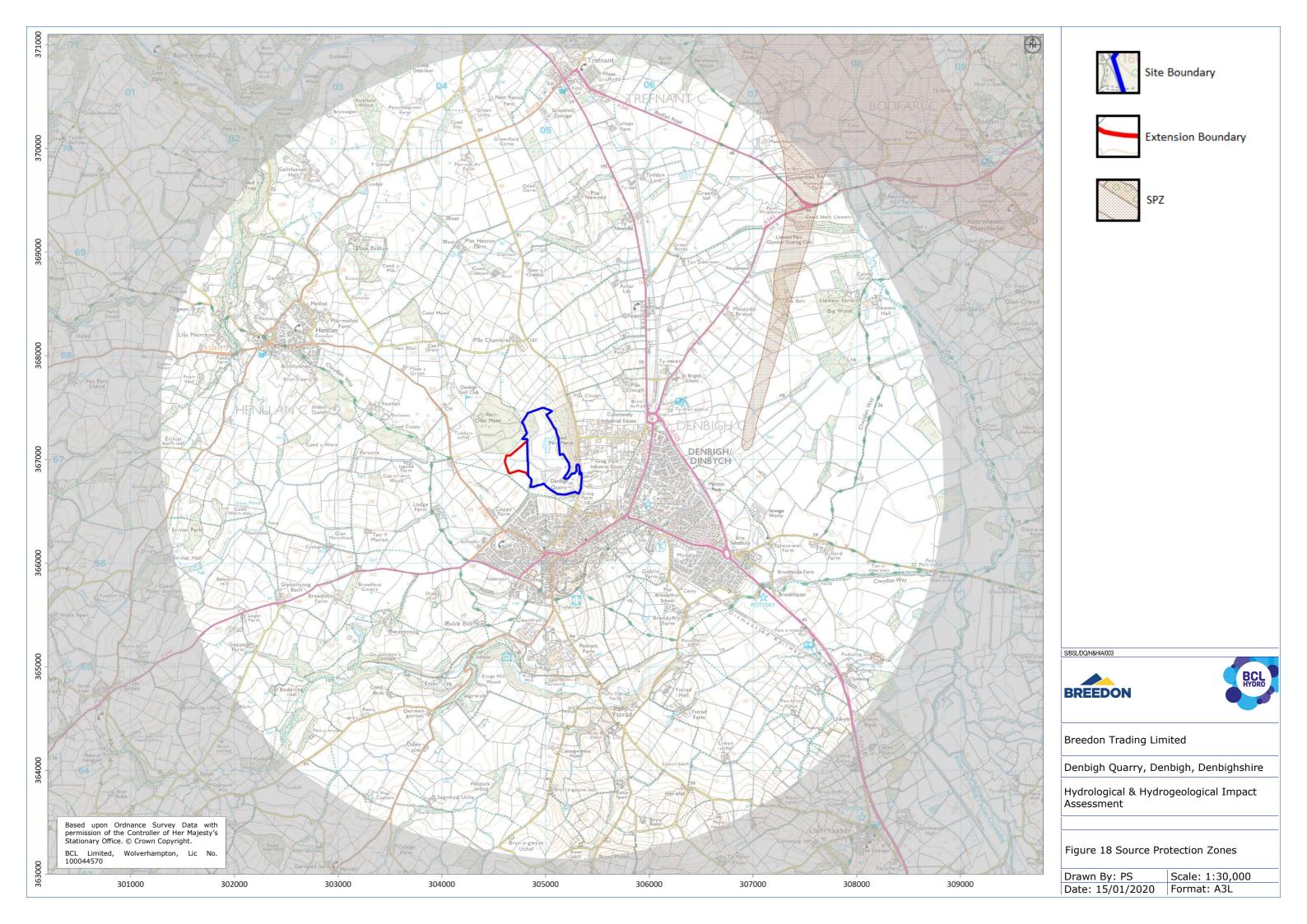
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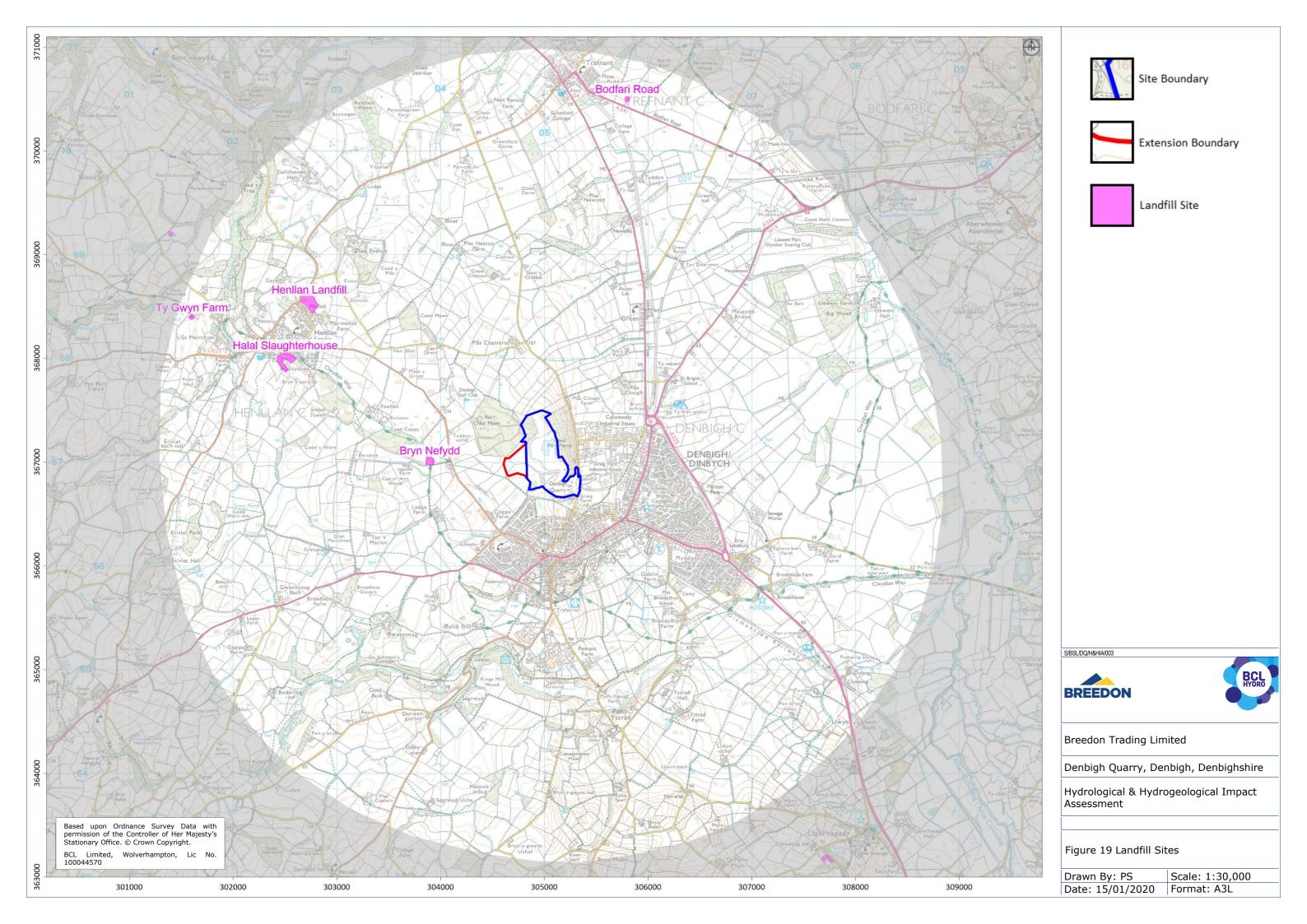
Hydrological & Hydrogeological Impact Assessment

Figure 16 Karst Features

Scale: 1:6,000 Drawn By: PS Date: 15/01/2020 Format: A3L











Site Boundary



Extension Boundary



Runof



Drain



Pipe (Gravity)



Pipe (Pumped)

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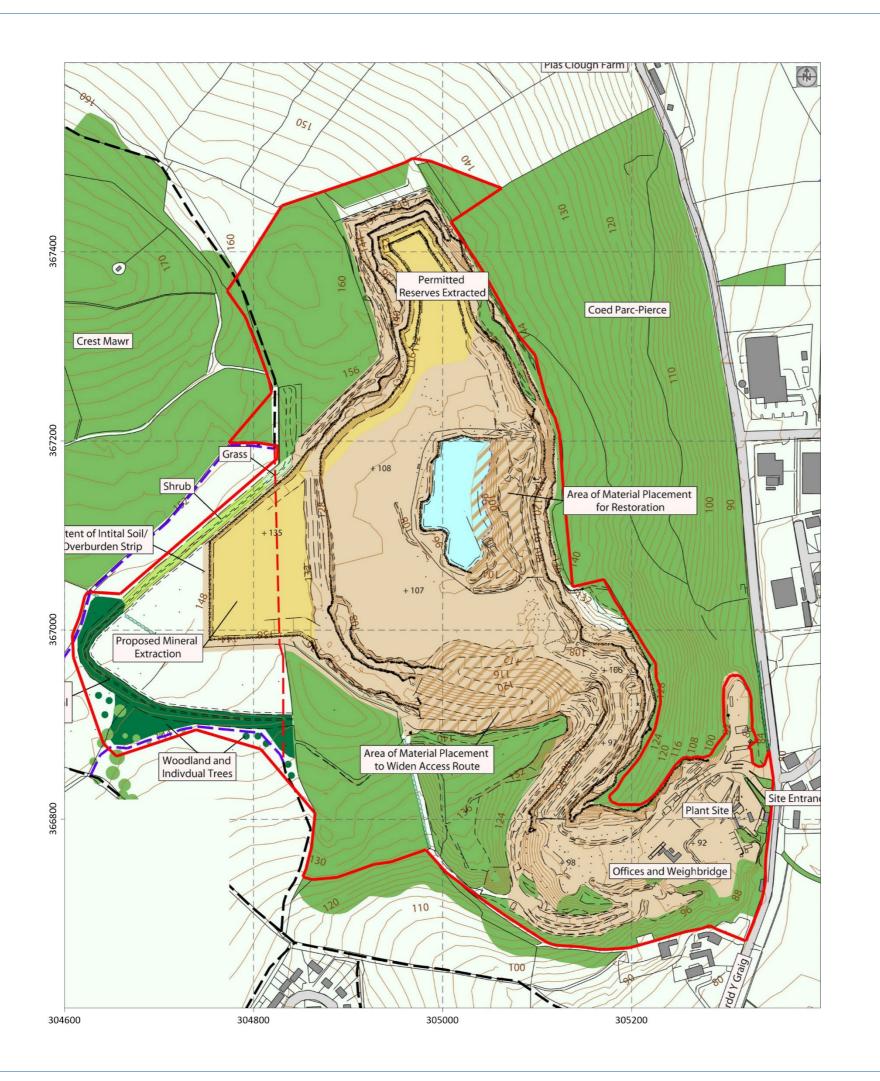


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Figure 20 Existing Site Water Management



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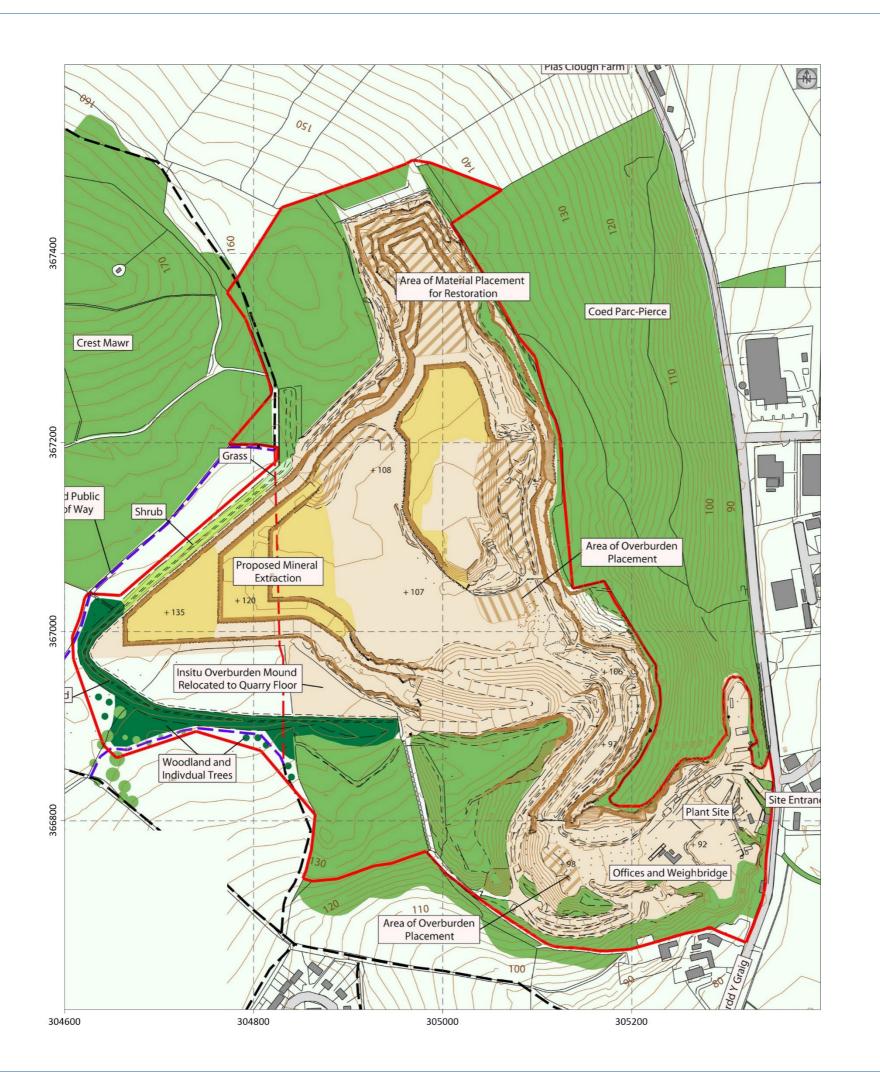


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Figure 21 Phasing Plan, Phase 1



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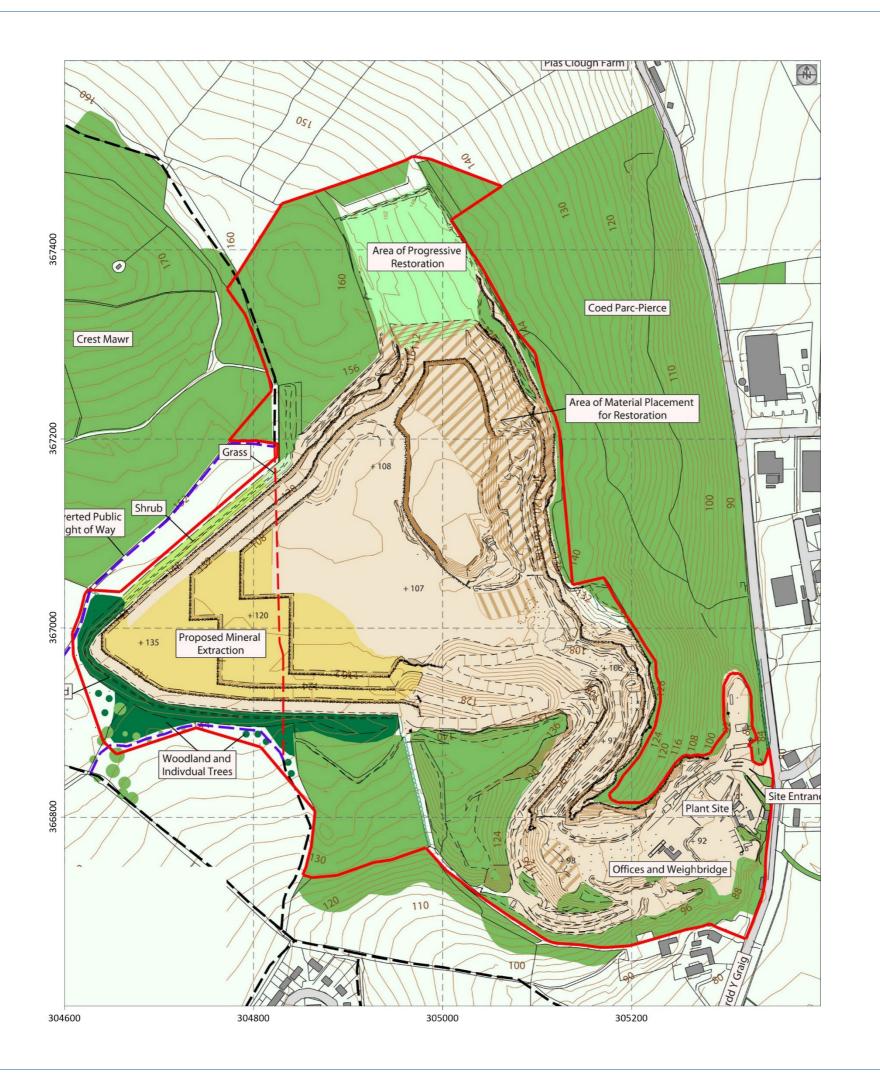


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Figure 22 Phasing Plan, Phase 2



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Figure 23 Phasing Plan, Phase 3



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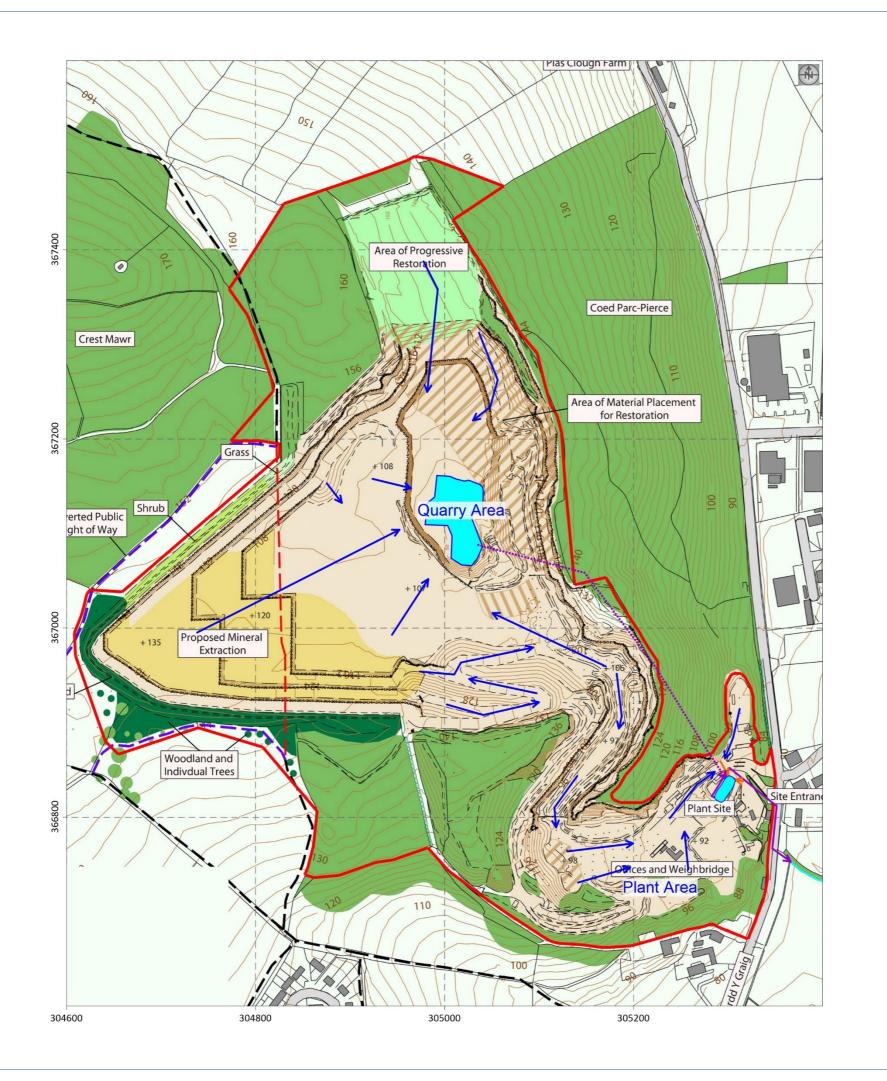


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Figure 24 Phasing Plan, Phase 4





Site Boundary



Extension Boundary



Runoff



Drain





Pipe (Gravity)



Pipe (Pumped)

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Figure 25 Development Water Management

Drawn By: PS | Scale: 1:4,000 | Scale: 15/01/2020 | Scale: 1:4,000 | Scale



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Figure 26 Concept Restoration





Site Boundary



Extension Boundary



Runoff



ī.,



Pipe (Gravity)



Extent of Infi



Restoration Lake Attenuating Level



Restoration Lake Maximum



Ditch 1

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Figure 27 Restoration Water Management