Archaeological Evaluation at
13 Hurdleditch Road, Orwell

Archaeological Evaluation Report

May 2014

Client: Hill Partnerships Ltd

OA East Report No: 1615
OASIS No: oxfordr3-177531
NGR: TL 3568 4998
Archaeological Evaluation at 13 Hurdleditch Road, Orwell

By Steven Graham BA (Hons)

With contributions by Sarah Percival BA MA MifA and Rachel Fosberry HNC (Cert Ed)

Editor: Stephen Macaulay BA MPhil, MifA

Illustrator: Séverine Bézie BA MA

Report Date: April 2014
Report Number: 1615
Site Name: 13 Hurdleditch Road, Orwell
HER Event No: CHER 4162
Date of Works: April 2014
Client Name: Hill Partnerships Ltd
Client Ref: 18726
Planning Ref: S/2379/13/FL
Grid Ref: NGR TL 3568 4998
Site Code: ORW HUR 14
Finance Code: ORW HUR 14
Receiving Body: Cambridgeshire County Council
Accession No: n/a

Prepared by: Steven Graham
Date: 23/4/14

Checked by: Stephen Macaulay
Position: Senior Project Manager
Date: 7/5/14
Signed: [Signature]

Disclaimer
This document has been prepared for the titled project or named part thereof and should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authority of Oxford Archaeology being obtained. Oxford Archaeology accepts no responsibility or liability for the consequences of this document being used for a purpose other than the purposes for which it was commissioned. Any person/party using or relying on the document for such other purposes agrees and will by such use or reliance be taken to confirm their agreement to indemnify Oxford Archaeology for all loss or damage resulting therefrom. Oxford Archaeology accepts no responsibility or liability for this document to any party other than the person/party by whom it was commissioned.

Oxford Archaeology East,
15 Trafalgar Way,
Bar Hill,
Cambridge,
CB23 8SQ

t: 01223 850500
f: 01223 850599
e: oaeast@thehumanjourney.net
w: http://thehumanjourney.net/oaeast

© Oxford Archaeology East 2011
Oxford Archaeology Limited is a Registered Charity No: 285627
# Table of Contents

Summary...........................................................................................................................................5  
1 Introduction..........................................................................................................................7  
  1.1 Location and scope of work.....................................................................................7  
  1.2 Geology and topography.........................................................................................7  
  1.3 Archaeological and historical background.........................................................7  
  1.4 Acknowledgements...............................................................................................7  
2 Aims and Methodology.................................................................................................8  
  2.1 Aims.......................................................................................................................8  
  2.2 Methodology..........................................................................................................8  
3 Results.........................................................................................................................9  
  3.1 Introduction..........................................................................................................9  
  3.2 Trench One.........................................................................................................9  
  3.3 Trench Two and Four..........................................................................................9  
  3.4 Trench Three.......................................................................................................9  
  3.5 Finds Summary....................................................................................................9  
  3.6 Environmental Summary....................................................................................9  
4 Discussion and Conclusions.....................................................................................10  
  4.1 Summary............................................................................................................10  
  4.2 Significance...........................................................................................................10  
  4.3 Recommendations.............................................................................................10  
Appendix A. Trench Descriptions and Context Inventory........................................11  
Appendix B. Finds Reports...............................................................................................13  
  B.1 Pottery..................................................................................................................13  
Appendix C. Environmental Reports...............................................................................13  
  C.1 Environmental samples.........................................................................................13  
  By Rachel Fosberry.......................................................................................................13  
Appendix D. Bibliography.................................................................................................14  
Appendix E. OASIS Report Form......................................................................................15
List of Figures

Fig. 1   Site location map
Fig. 2   Trench Planning
Fig. 3   Section Through Ditch 4.

List of Plates

Plate 1   Trench 1 from North west
Plate 2   Ditch 4 from East.
Summary

On the 14th April 2014, Oxford Archaeology East carried out an archaeological evaluation at 13 Hurdleditch Road, Orwell. This evaluation was carried out in advance of the erection of 15 dwellings including associated external works, roads and parking. One ditch was identified along with one post hole and an undetermined feature containing 2 sherds of post-medieval pottery. The ditch contained Late Iron Age pottery and animal bone, and is probably a prehistoric enclosure ditch.
1 INTRODUCTION

1.1 Location and scope of work
1.1.1 An archaeological evaluation was conducted at 13 Hurdleditch Road, Orwell on behalf of Hill Partnerships Ltd.

1.1.2 This archaeological evaluation was undertaken in accordance with a Brief issued by Dan McConnell of Cambridgeshire County Council (CCC; Planning Application S/2379/13/FL), supplemented by a Specification prepared by OA East.

1.1.3 The work was designed to assist in defining the character and extent of any archaeological remains within the proposed redevelopment area, in accordance with the guidelines set out in National Planning Policy Framework (Department for Communities and Local Government March 2012). The results will enable decisions to be made by CCC, on behalf of the Local Planning Authority, with regard to the treatment of any archaeological remains found.

1.1.4 The site archive is currently held by OA East and will be deposited with the appropriate county stores in due course.

1.2 Geology and topography
1.2.1 The site is located on Gault Clay with the northern part of the village on West Melbury Marly Chalk (British Geological Survey 2002). The site lies at an average height of 31.0m aOD.

1.3 Archaeological and historical background
1.3.1 A Neolithic stone axe has been found in the vicinity of Orwell (CHER 03283).

1.3.2 One Belgic Iron Age coin was found in the area of the Village in 1872 (CHER 03266).

1.3.3 South of the development site Romano-British pottery scatters have been recorded (CHER MCB3919, MCB 1030 and MCB 3928). Close by is the A603 which is the route of the Akeman Street Road as it runs southwest from Cambridge towards Ermine Street and Royston.

1.3.4 Saxon pottery has been found in the eastern end of the village (CHER 03270).

1.3.5 Orwell is mentioned in the Domesday Survey as Oreuuelle (EPNS 1973) deriving from a spring located in the village. The village has a number of medieval features north east of the evaluation area including a moated site (CHER 09919), a possible motte (CHER 03267), a rectory (CHER 10846) and ridge and furrow (CHER 03406 and 11259). A scatter of medieval pottery has also been identified within the village (CHER 09161).

1.4 Acknowledgements
1.4.1 The author would like to thank Hill Partnerships Ltd who commissioned and funded the work. Additional thanks go to Louise Bush and James Fairburn for the site survey, Katherine Nicholls for excavation assistance and Severine Bezie for producing the illustrations. Additional specialist expertise was provided by Sarah Percival, Rachel Fosberry and Chris Faine. The project was managed by Stephen Macaulay. The brief for archaeological works was written by Dan McConnell.
2 AIMS AND METHODOLOGY

2.1 Aims

2.1.1 The objective of this evaluation was to determine as far as reasonably possible the presence/absence, location, nature, extent, date, quality, condition and significance of any surviving archaeological deposits within the development area.

2.2 Methodology

2.2.1 The Brief required that 100m of linear trenching were excavated to adequately sample the proposed development area. Four trenches were excavated, one 40m in length and three 20m long each.

2.2.2 Machine excavation was carried out under constant archaeological supervision with a wheeled JCB-type excavator using a toothless ditching bucket.

2.2.3 The site survey was carried out by Louise Bush and James Fairbairn using a Leica GPS 1200.

2.2.4 Spoil, exposed surfaces and features were scanned with a metal detector. All metal-detected and hand-collected finds were retained for inspection, other than those which were obviously modern.

2.2.5 All archaeological features and deposits were recorded using OA East's pro-forma sheets. Trench locations, plans and sections were recorded at appropriate scales and colour and monochrome photographs were taken of all relevant features and deposits.

2.2.6 20 litres of fill from the identified prehistoric feature were sampled for environmental flotation and analysis.

2.2.7 Site conditions were generally good, with dry bright weather.
3 RESULTS

3.1 Introduction
3.1.1 Dimensions of each trench, together with Topsoil and Subsoil depths are given in Appendix A. Descriptions of Trenches and excavated features are given below.

3.2 Trench One
3.2.1 The trench contained one linear ditch (004) at the trenches north western end. The orientation of the ditch was east to west. The ditch comprised of one fill (005) of firm brownish grey clay containing a small amount of prehistoric pottery and one fragment of animal bone.
3.2.2 Further along the south east of the trench was a single post hole (006) in apparent isolation. This comprised of a single fill (007) of firm grey silty clay. There was no surviving evidence in the fill of ether the post or packing nor of any finds.

3.3 Trench Two and Four
3.3.1 No archaeological finds or features were found in ether of these trenches.

3.4 Trench Three
3.4.1 The only feature of note in this tench was a possible pit or ditch (008). Not enough of the feature was available in the trench to ascertain fully its nature, however 2 sherds of ceramic material, clearly post medieval were recovered from its fill.

3.5 Finds Summary
3.5.1 A total of 20 sherds of pottery were recovered from the single ditch (004) in trench One. These were all late Iron Age in date and is fairly unabraded. The two sherds of pottery from the feature in trench three (008) were both post medieval, late 19th or early 20th century.

3.6 Environmental Summary
3.6.1 A single bulk sample of 16 litres was taken from the prehistoric ditch and flotation sampled. All of the samples were devoid of plant remains or finds.
3.6.2 Eight fragments of animal bone were recovered from the ditch, three of these were identified as being cattle humerus and femur fragments and a partial horse astragalus.
4 DISCUSSION AND CONCLUSIONS

4.1 Summary
4.1.1 The only archaeology encountered in the evaluation was a single ditch running on a north to south orientation at the end of Trench One in the western quadrant of the development area. The pottery is typical of later Iron Age local assemblages.

4.2 Significance
4.2.1 The site is indicative of possible Iron Age settlement activity taking place in the local vicinity with the ditch lying on the periphery of this but there is no evidence of Roman or medieval activity occurring within the application area.

4.3 Recommendations
4.3.1 Recommendations for any future work based upon this report will be made by the County Archaeology Office.
## APPENDIX A. TRENCH DESCRIPTIONS AND CONTEXT INVENTORY

### Trench 1

**General description**  
Trench contained one ditch on NE end of trench and one post hole.

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Avg. depth (m)</th>
<th>Width (m)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW-SE</td>
<td>0.60</td>
<td>1.50</td>
<td>40</td>
</tr>
</tbody>
</table>

**Contexts**

<table>
<thead>
<tr>
<th>context no</th>
<th>type</th>
<th>Width (m)</th>
<th>Depth (m)</th>
<th>comment</th>
<th>finds</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Layer</td>
<td>-</td>
<td>0.28</td>
<td>Topsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>002</td>
<td>Layer</td>
<td>-</td>
<td>0.22</td>
<td>Subsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>003</td>
<td>Layer</td>
<td>-</td>
<td>-</td>
<td>Natural</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>004</td>
<td>Cut</td>
<td>0.90</td>
<td>0.42</td>
<td>Ditch</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>005</td>
<td>Fill</td>
<td>0.90</td>
<td>0.42</td>
<td>Fill of Ditch 004</td>
<td>Pottery, Bone</td>
<td>Late Iron Age</td>
</tr>
<tr>
<td>006</td>
<td>Cut</td>
<td>0.23</td>
<td>0.08</td>
<td>Post Hole</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>007</td>
<td>Fill</td>
<td>0.23</td>
<td>0.08</td>
<td>Fill of Post Hole</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Trench 2

**General description**  
Trench devoid of archaeology. Consists of soil and subsoil overlying a natural of silty clay.

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Avg. depth (m)</th>
<th>Width (m)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE-SW</td>
<td>0.60</td>
<td>1.50</td>
<td>20</td>
</tr>
</tbody>
</table>

**Contexts**

<table>
<thead>
<tr>
<th>context no</th>
<th>type</th>
<th>Width (m)</th>
<th>Depth (m)</th>
<th>comment</th>
<th>finds</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Layer</td>
<td>-</td>
<td>0.30</td>
<td>Topsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>002</td>
<td>Layer</td>
<td>-</td>
<td>0.30</td>
<td>Subsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>003</td>
<td>Layer</td>
<td>-</td>
<td>-</td>
<td>Natural</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Trench 3

**General description**  
Trench contains one post medieval intrusion on SE end of trench but is otherwise sterile.

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Avg. depth (m)</th>
<th>Width (m)</th>
<th>Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW-SE</td>
<td>0.60</td>
<td>1.50</td>
<td>20</td>
</tr>
</tbody>
</table>

**Contexts**

<table>
<thead>
<tr>
<th>context no</th>
<th>type</th>
<th>Width (m)</th>
<th>Depth (m)</th>
<th>comment</th>
<th>finds</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Topsoil</td>
<td>-</td>
<td>0.26</td>
<td>Topsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>002</td>
<td>Subsoil</td>
<td>-</td>
<td>0.30</td>
<td>Subsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>003</td>
<td>Layer</td>
<td>-</td>
<td>-</td>
<td>Natural</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>008</td>
<td>Cut</td>
<td>-</td>
<td>0.30</td>
<td>Pit/ditch?</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>009</td>
<td>Fill</td>
<td>-</td>
<td>0.30</td>
<td>Fill of 008</td>
<td>Pottery</td>
<td>Post Medieval.</td>
</tr>
</tbody>
</table>

**Trench 4**

**General description**
Trench devoid of archaeology. Consists of soil and subsoil overlying natural clay

| Orientation | NW-SE |
| Avg. depth (m) | 0.60 |
| Width (m) | 1.50 |
| Length (m) | 20 |

**Contexts**

<table>
<thead>
<tr>
<th>context no</th>
<th>type</th>
<th>Width (m)</th>
<th>Depth (m)</th>
<th>comment</th>
<th>finds</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Topsoil</td>
<td>-</td>
<td>0.28</td>
<td>Topsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>002</td>
<td>Subsoil</td>
<td>-</td>
<td>0.30</td>
<td>Subsoil</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>003</td>
<td>Layer</td>
<td>-</td>
<td>-</td>
<td>Natural</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
APPENDIX B. FINDS REPORTS

B.1 Pottery

By Sarah Percival

A total of 20 Iron Age sherds weighing 59g were recovered from a single feature, ditch [4]. All are undecorated body sherds in various micaceous, sandy fabrics with rounded quartz inclusions. One fabric also contains elongated voids typical of organic inclusions such as grass along with common fossiliferous shell and the other contains sand with moderate shell pieces. These fabrics are typical of Later Iron Age assemblages from the region and compare well with local contemporary assemblages such as that from Hinxton Road, Duxford (Percival 2011, table 15). The pottery is likely to date from c.350-100BC.

APPENDIX C. ENVIRONMENTAL REPORTS

C.1 Environmental samples

By Rachel Fosberry

Introduction.

A single bulk sample was taken from a prehistoric ditch within the evaluated area at 13 Hurdleditch Road, Orwell in order to assess the quality of preservation of plant remains and their potential to provide useful data as part of further archaeological investigations.

Methodology

C.1.1 The total volume (sixteen litres) of the sample was processed by water flotation (using a modified Siraff three-tank system) for the recovery of charred plant remains, dating evidence and any other artefactual evidence that might be present. The floating component (flot) of the sample was collected in a 0.3mm nylon mesh and the residue was washed through 10mm, 5mm, 2mm and a 0.5mm sieve. Both flot and residue were allowed to air dry. A magnet was dragged through each residue fraction prior to sorting for artefacts. The dried flots were subsequently sorted using a binocular microscope at magnifications up to x 60.

Results

C.1.2 All of the samples were devoid of plant remains and finds.
APPENDIX D. BIBLIOGRAPHY


Percival, S., 2011. 'The Pottery' in Lyons, A. Life and Afterlife at Duxford, Cambridgeshire: archaeology and history in a chalkland community. East Anglian Archaeology 141, 57-65. Bar Hill, Oxford Archaeology East,
APPENDIX E. OASIS REPORT FORM
All fields are required unless they are not applicable.

Project Details
OASIS Number: oxford3-177531
Project Name: 13 Hurtleditch Road, Orwell
Project Dates (fieldwork) Start: 14-04-2014 Finish: 14-04-2014
Previous Work (by OA East) No Future Work Unknown

Project Reference Codes
Site Code: ORW HUR 14 Planning App. No.: S/0173/12/FUL
HER No.: 4162 Related HER/OASIS No.: 

Type of Project/Techniques Used
Prompt: Planning condition
Development Type: Housing Estate

Please select all techniques used:
- [ ] Aerial Photography - interpretation
- [X] Aerial Photography - new
- [ ] Annotated Sketch
- [ ] Augering
- [ ] Dendrochronological Survey
- [ ] Documentary Search
- [X] Environmental Sampling
- [ ] Fieldwalking
- [ ] Geophysical Survey
- [ ] Grab-Sampling
- [ ] Gravity-Core
- [ ] Laser Scanning
- [X] Measured Survey
- [ ] Metal Detectors
- [ ] Phosphate Survey
- [X] Photogrammetric Survey
- [ ] Photographic Survey
- [ ] Rectified Photography
- [ ] Remote Operated Vehicle Survey
- [ ] Sample Trenches
- [ ] Survey/Recording Of Fabric/Structure
- [X] Targeted Trenches
- [ ] Test Pits
- [ ] Topographic Survey
- [ ] Vibro-core
- [ ] Visual Inspection (Initial Site Visit)

Monument Types/Significant Finds & Their Periods
List feature types using the NMR Monument Type Thesaurus and significant finds using the MDA Object type Thesaurus together with their respective periods. If no features/finds were found, please state "none".

<table>
<thead>
<tr>
<th>Monument</th>
<th>Period</th>
<th>Object</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ditch</td>
<td>Iron Age -800 to 43</td>
<td>Pottery</td>
<td>Iron Age -800 to 43</td>
</tr>
<tr>
<td>pit/ditch</td>
<td>Modern 1901 to Present</td>
<td></td>
<td>Select period...</td>
</tr>
<tr>
<td></td>
<td>Iron Age -800 to 43</td>
<td></td>
<td>Select period...</td>
</tr>
</tbody>
</table>

Project Location
<table>
<thead>
<tr>
<th>County</th>
<th>Cambridgeshire</th>
<th>Site Address (including postcode if possible)</th>
<th>13 Hurdleditch road, Orwell</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>South Cambridgeshire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parish</td>
<td>Orwell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HER</td>
<td>Cambridgeshire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Area</td>
<td>0.63 ha</td>
<td>National Grid Reference</td>
<td>TL 3568 4998</td>
</tr>
<tr>
<td>Project Originators</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation</td>
<td>OA EAST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Brief Originator</td>
<td>Dan McConnell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Design Originator</td>
<td>Stephen Macaulay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Manager</td>
<td>Stephen Macaulay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervisor</td>
<td>Steven Graham</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Archives</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Archive</td>
<td>Cambridgeshire County Stores</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Archive</td>
<td>O A EAST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper Archive</td>
<td>Cambridgeshire County Stores</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORW HUR 14</td>
<td>ORW HUR 14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Archive Contents/Media</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Animal Bones</td>
<td>✓</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Ceramics</td>
<td>✓</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Environmental</td>
<td>l</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Glass</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Human Bones</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Industrial</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Leather</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Metal</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Stratigraphic</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Survey</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Textiles</td>
<td>l</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Wood</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Worked Bone</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Worked Stone/Lithic</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>None</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>Other</td>
<td>l</td>
<td>l</td>
<td>l</td>
</tr>
</tbody>
</table>

**Digital Media**
- Database
- GIS
- Geophysics
- Images
- Illustrations
- Moving Image
- Spreadsheets
- Survey
- Text
- Virtual Reality

**Paper Media**
- Aerial Photos
- Context Sheet
- Correspondence
- Diary
- Drawing
- Manuscript
- Map
- Matrices
- Microfilm
- Misc.
- Research/Notes
- Photos
- Plans
- Report
- Sections
- Survey
Figure 1: Site location with trenches (black) and development area outlined (red)
Figure 2: Trench plans and selected section
Plate 1: Trench 1 from north west

Plate 2: Ditch 4 from east