

## **8 Sites Affected by the Proposed Pipeline**

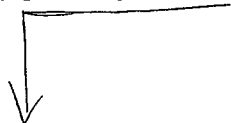
8.1 Of the 104 sites listed in the catalogue 81 are considered to have no implications for the pipeline route. The 23 sites that may have further implications are listed below (8.2). A mitigation strategy for protecting or recording any sites actually threatened by the pipeline route has been determined in collaboration with the West Yorkshire SMR (see Section 9 and Appendix 2).

### *8.2 Archaeological sites potentially threatened by the pipeline*

No	PRN	Grid Ref	Description
7	4489	SE303243	Cropmark enclosure
10	4630	SE322256	Possible medieval park boundary
16	4499	SE336256	Cropmark enclosure and curvilinear features
18	4503	SE34232570	Cropmarks of possible enclosures and field systems
32	3993	SE367280	Corn Mill site within an area of potential prehistoric activity and settlement
33	6199	SE365279	Earthworks and cropmarks within an area of potential prehistoric activity and settlement
34	0	SE366282	An area of possible prehistoric activity and settlement
35	4521	SE369281	Cropmark of ditched lane or trackway within an area of potential prehistoric activity and settlement
43	4996	SE37382948	Possible site of Grim's Ditch
46	5236	SE37602963	Earthworks possibly relating to a former agricultural regime
47	5235	SE377296	Earthwork dam possibly related to Swillington Park
55	4606	SE394299	Cropmark of a possible enclosure
62	0	SE415297	Former medieval park boundary
65	0	SE428297	The route of the Roman road between Aberford and Castleford

69	944	SE436297	Cropmarks of enclosures tracks and field boundaries with possible human burials
71	944	SE439295	Cropmarks of linear features and possible enclosure
79	972	SE458292	Cropmarks of linear features and trackways
81	6926	SE461295	Cropmarks of trackways ditches and enclosures
82	0	SE469300	Route of a possible Roman road
84	9405	SE489307	Cropmarks of tracks ring ditches enclosures and field boundaries
88	0	SE506303	The site of a former medieval park boundary
93	0	SE544303	Cropmark enclosure or field boundary
98	9513	SE562303	Cropmarks of former field systems

NYCC sites



## 9 Summary Recommendations for Further Archaeological Work

9.1 These site specific recommendations are made in collaboration with the West Yorkshire and North Yorkshire Sites and Monuments Records the archaeological advisors to Wakefield and Leeds District Council and Selby District Council respectively. More general requirements for the further archaeological works are provided as Appendix 2.

9.2 Site numbers and grid references relate to the desk-top assessment and walkover surveys carried out by the WYAS Field Operations Team (Archaeological Services WYAS).

### 9.3 *The Sites*

#### Site 7 (SE303243)

The easement adjacent to a cropmark enclosure is to be stripped under archaeological supervision. Any features are to be planned at an appropriate scale, sample excavated and recorded along the line of the proposed pipeline trench.

#### Site 10 (SE322256)

Possible earthworks of a former medieval park boundary. An earthwork survey is required if the park pale is still extant, followed by a watching brief and a cross-section record when the earthworks are cut by the pipe trench.

Site 16 (SE336256)

Cropmarks in the immediate vicinity of the pipeline may extend into the pipeline area. A geophysical survey (40m wide) is recommended in the easement adjacent to the cropmark site to determine whether the cropmarks extend into the area. Should the survey identify potential features avoidance of this area is recommended. Otherwise the easement is to be stripped under archaeological supervision as specified by the Sites and Monuments Record Office (see below) and any features planned at an appropriate scale and sample excavated.

Site 18 (SE34232570)

Cropmarks in the vicinity of the pipeline may extend into the pipeline area. The easement adjacent to the cropmarks requires to be stripped under archaeological supervision and subsequent features planned at an appropriate scale and sample excavated.

Sites 32-35 (c SE365279)

An area of potential prehistoric activity and settlement. The easement in this vicinity is to be subject to a geophysical survey (20m wide) to ascertain the presence or absence of buried features that may represent such sites. Identified potential sites should be stripped under archaeological supervision (see below) and features planned at an appropriate scale and sample excavated.

Site 43 (SE37382948)

The projected line of a major earthwork is to be determined through field inspection or geophysical scanning. If the feature is not detected by these means the pipeline should be subject to a watching brief in order to locate it and to record its orientation and profile/section. The recovery of datable artefacts from the ditch is of high priority.

Site 46 (SE37602963)

A field inspection is required to clarify the nature of these earthworks in order to determine archaeological requirements. Extant earthworks in the path of the pipeline shall be surveyed as required.

Site 47 (SE377296)

A field inspection is required to clarify the nature of these earthworks in order to determine archaeological requirements.

Site 55 (SE394299)

The easement adjacent to a cropmark enclosure is to be stripped under archaeological supervision and identified features to be planned and sample excavated.

Site 62 (SE415297)

Medieval Deer Park boundary if extant requires a photographic contour and earthwork survey to be followed by a watching brief. If the earthworks are cut by the pipeline a cross section is required and reinstatement of the earthwork when construction work is completed.

Site 65 (SE428297)

A watching brief is recommended during stripping and trench cutting in order to determine the position of the Roman road. The road should be recorded in section and its state of preservation noted.

Site 69 (SE436297)

An extensive area of cropmarks which may extend into the pipeline corridor. A geophysical survey 20m wide or 40m wide according to archaeological potential along the line of easement is required. Where potential features are identified by the survey the easement is to be stripped under archaeological supervision and features planned and sample excavated. Should the area contain human burials then construction work in the area would cease until a licence to exhume the remains has been obtained from the Home Office.

Site 71 (SE439295)

As for site 69 (above)

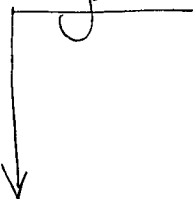
Site 79 (SE458292)

Cropmarks may extend into the pipeline corridor. Geophysical scanning is required in the easement adjacent to the cropmarks with controlled stripping under archaeological supervision of features detected by the scan. Features are to be planned, sample excavated and recorded.

Site 81 (SE461295)

Cropmarks may extend into the easement area. Controlled stripping under archaeological supervision should be carried out in areas where geophysical scanning suggests potential archaeological features. Where located archaeological features are to be planned at an appropriate scale and sample excavated and recorded along the line of the proposed pipe trench.

NYCC mitigation



Site 82 (SE469300)

Geophysical scanning is required in order to locate the line of a possible Roman road. If a positive result is achieved then a watching brief is to be carried out during top soil stripping.

Site 84 (SE489307)

Cropmarks may extend into the easement area. Controlled stripping under archaeological supervision should be carried out in areas where geophysical scanning suggests potential archaeological features. Where located archaeological features are to be planned at an appropriate scale and sample excavated and recorded along the line of the proposed pipe trench.

Site 88 (SE506303)

A medieval park boundary if extant requires an earthwork survey A watching brief is to be carried out when/if the earthworks are cut by the pipeline corridor and a cross section recorded

Site 93 (SE544303)

The easement adjacent to cropmarks is to be stripped under archaeological supervision and any archaeological features to be planned sample excavated and recorded along the line of the proposed pipe trench

Site 98 (SE562303)

The easement adjacent to cropmarks is to be stripped under archaeological supervision and any archaeological features to be planned at an appropriate scale sample excavated and recorded along the line of the proposed pipe trench

9 4 *General Requirements*

9 4 1 *Scanning*

Geophysical scanning using two magnetometers operating in tandem will be carried out over the whole of the Magnesian Limestone belt between the Roman road at Kippax Mill and Milford Junction near Monk Fryston

9 4 2 *Stripping*

All mechanical stripping under archaeological supervision should be carried out using machines equipped with smooth ditching buckets

9 4 3 *Excavation*

Any necessary manual excavations will be carried out on the line of the proposed pipe trench (i.e. in the areas to be destroyed by the pipe laying operation) The pipe trench is 2.5m and normally a 1m wide section (40% sample) through each feature will suffice Additional machine cut sections may be undertaken for clarification at the supervising archaeologist's discretion

9 4 4 *Health and Safety*

All archaeological staff will abide by the Health and Safety conditions of the pipeline contractors and West Yorkshire Archaeology Risk Assessment It shall be understood that the easement is a hard hat area and that fluorescent bibs and safety footwear shall be worn at all times Archaeologists working with or in close proximity to heavy plant shall take special care to heed the relevant instructions included in the risk assessment

## **10 Conclusions**

10 1 Consultation with the West Yorkshire SMR resolved that there were no archaeological implications for sites 1 6 8 9 11 15 17 19-31 36-42 44 45 48-54 56 61 63 64 66-68 70 72-78 80 83 85-87 89-92 94-97 in the scope of the proposed pipeline works Other catalogue sites if affected

by the pipeline and easement are subject to specific archaeological requirements

- 10 2 Whilst sites 47 and 82 were subsequently avoided cropmarks at Sites 7 18 55 93 and 98 are sites considered most likely to possess preserved archaeological features and deposits threatened by the pipeline works These sites are to receive advance controlled stripping under archaeological supervision with any subsequent identified features planned and sample excavated
- 10 3 Medieval Deer Park boundaries at Sites 10 62 and 88, if extant require a photographic, contour and earthwork survey to be followed by a watching brief and subsequent recording
- 10 4 Geophysical surveys are a requirement for the easement areas of Sites 16 32 35 69 71 79 81 and 84 Any identified areas of archaeology are to be stripped under archaeological supervision planned and sample excavated
- 10 5 Site 65 where the Roman road may be cut by the pipe trench has been ear marked for a watching brief If Site 43 is not detected in the first instance through a field mspection or geophysical scanmng this site will also be subject to a watching brief
- 10 6 An earthwork site Site 46 will be subject to an earthwork survey prior to topsoil stripping
- 10 7 Specification details for potential archaeological sites have been produced by the West Yorkshire SMR The approach to and standard of work in these detailed specifications will be adopted in combination with regular SMR haison
- 10 8 The results of the subsequent archaeological fieldwork earrned out in accordance with the aforementioned SMR specifications will be presented as an annex to this assessment report

### ***Acknowledgements***

<b><i>Report</i></b>	Kath Keith BA, Ian Roberts BSc MIFA
<b><i>Catalogue</i></b>	Kath Keith BA
<b><i>Research</i></b>	Kath Keith Ian Roberts Magda Boucher BA Charlie Morris BA
<b><i>Walk-over survey</i></b>	Ian Roberts Andrew Boucher BSc Alistair Webb BA Charlie Morris BA Paul Wheelhouse BA
<b><i>Figures</i></b>	David Berg BA, Helen Boyd

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Leeds City Archives 1840 Ledston Tithe map Part copy in SMR files L C A PRO Award 10 Map 26

Leeds City Archives 1840 Ledsham Tithe map Part copy in SMR files L C A PRO Award 9 Map 25

Leeds City Archives 1838 Lofthouse with Carlton Tithe map Part copy in SMR files  
L C A RD/RT260

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Wakefield City Archives 1785 East Ardsley (south) Enclosure Plan A1

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Ordnance Survey 1850 1st edition six inches to the mile series Sheet 220

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SE3226 SE3325 SE3326

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SE32SW SE42NE SE42NW SE43SE SE53SE SE53SW

Ordnance Survey various dates 1 25000 series SE23/33 SE22/32 SE42/52  
SE43/53

## **Aerial Photographs**

<b>NGR number</b>	<b>PRN</b>	<b>Accession No</b>	<b>Catalogue No</b>
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### **West Yorkshire Sites and Monuments Record Office**

SE297238	4549	44 22 93 57	4
SE299243	968	44 22 94 93	6
SE303243	4489	44 22 04 23	7
SE321258	4487	44 32 25 08	9
SE336256	4499	44 32 35 55	16
SE339252	4500	44 32 35 82	17
SE34232570	4503	44 32 45 26	18
SE352268	4506	44 32 56 28	26
SE365279	6199	44 32 78 10	33
SE369281	4521	44 32 78 10	35
SE366275	4516	44 32 67 45	36
SE369278	4523	44 32 77 06	37
SE368274	4522	44 32 77 14	38
SE37542980	4572	44 32 79 47	44
SE394299	4606	44 32 99 49	55
SE425299	4434	44 42 29 69	63
SE429298	4458	44 42 29 87	68
SE436297	944	44 42 39 47	69
SE439295	944	44 42 39 83	71
SE445297	4433	44 42 49 57	74
E452295	4564	44 42 59 15	76
SE458292	972	44 92 59 82	79
SE458296	4565	44 42 59 67	80
SE461295	6926	44 42 69 26	81

### **West Yorkshire District Council Planning Office**

SE369278	4523		37
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### **North Yorkshire Sites and Monuments Record Office**

SE489307	9405	AP3 AP20 AP22	84
SE505304	0	AP22	86
SE502303	0	AP42	87
SE562303	9513	AP37	98
SE569301	0	AP35	102
SE556302	9509	AP6	97
SE533303	0	58 67 120	91
SE541303	9479	PVA 77 1 1/5	92-94
SE556302	9509	61 67 130/1	97
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## ***Appendix 1***

# NORTH AND WEST YORKSHIRE ARCHAEOLOGY SERVICES - SPECIFICATION FOR AN ARCHAEOLOGICAL ASSESSMENT OF A PROPOSED PIPELINE ROUTE

A specification of work to determine the archaeological sensitivity of a proposed new water main pipeline from Brayton (in North Yorkshire) to Kirkhamgate, West Yorkshire

Specification prepared for Yorkshire Water

## 1 0 Summary

1 1 A desk-based assessment and route walkover is proposed to establish the archaeological sensitivity of the proposed route. The report produced will allow the formulation of an archaeological mitigation strategy by the North and West Yorkshire Sites and Monuments Records (hereafter, the SMRs) in discussion with Yorkshire Water. Any work to be carried out as a result of the agreed mitigation strategy will be covered by further specifications of work drawn up by the SMRs separately for their own area of responsibility.

1 2 This specification has been written by the curatorial branch of the West Yorkshire Archaeology Service, the holders of the West Yorkshire Sites and Monuments Record, in discussion and with the agreement of the Archaeology Section of North Yorkshire County Council, the holders of the North Yorkshire Sites and Monuments Record.

## 2 0 Site Route and Details of Pipeline

2 1 The current proposed route runs from Brayton Reservoir (SE 5842 3038) for a distance of c 35km to Jaw Hill Reservoir, Kirkhamgate (SE 2926 2330). The SMRs have been supplied by Yorkshire Water with details of the proposed route on 9 sheets at 1:10,000 scale.

Sheet 1	36276/WSD/BK/001	Rev	P	(N Yorks SE 53 SE)
Sheet 2	36276/WSD/BK/002	Rev	P	(N Yorks SE 53 SW)
Sheet 3	36276/WSD/BK/003	Rev	P	(N Yorks SE 43 SE)
Sheet 4	36276/WSD/BK/004	Rev	P	(N Yorks/W Yorks SE 42 NE)
Sheet 5	36276/WSD/BK/005	Rev	P	(W Yorks SE 42 NW)
Sheet 6	36276/WSD/BK/006	Rev	P	(W Yorks SE 32 NE)
Sheet 7	36276/WSD/BK/007	Rev	P	(W Yorks SE 32 NW)
Sheet 8	36276/WSD/BK/008	Rev	P	(W Yorks SE 32 SW)
Sheet 9	36276/WSD/BK/009	Rev	P	(W Yorks SE 22 SE)

2 2 The archaeological contractor should be issued with their own set of maps by Yorkshire Water, which should incorporate the latest revisions.

2 3 The intention is to lay a new 800mm diameter water main. This will generally entail the excavation of a trench approximately 2.5m wide at the surface, tapering to a width of c 1.5m at c 600 mm depth and with a variable total depth (generally 2 - 2.5m). The pipe will be laid within an easement 25m wide, which will have been fenced and from part of which the topsoil will have been stripped. The easement will be used for soil dumps (usually a c 5m strip adjacent to one of the fences) and for the

movement of heavy plant Part of the route in both North and West Yorkshire involves laying the new main adjacent to existing water mains (see maps for details)

2 4 The archaeological contractor should also consider the siting of ancillary sites such as pipe dumps, temporary work areas etc These have not been identified on the plans available to the SMRs Access to the easement at the moment is believed to be restricted to existing highways and tracks

### 3 0 Background Information

3 1 Yorkshire Water has a statutory obligation under the Water Act, 1989 "to have regard to the desirability of protecting and conserving buildings, sites and objects of archaeological, architectural or historic interest and to take into account any effect which the proposals would have on any such features, buildings, sites or objects" (Section 8 (1) (b) and (c))

3 2 The pipeline is necessary as part of Yorkshire Water's distribution strategy to help relieve the current water shortage and is a high priority scheme Work is likely to commence in the very near future (a date of January 6th 1996 has been mentioned)

### 4 0 Aim of the Specification

4 1 The purpose of the work is to produce a formal report to allow an informed archaeological mitigation strategy to be drawn up by the SMRs in discussion with Yorkshire Water The report should help identify areas where minor re-routes can achieve site avoidance, and also where local modifications to construction methods (e g reduced working widths protection by temporary running tracks etc ) may preserve deposits in-situ It should also allow the SMR to identify areas where additional archaeological field evaluation may be necessary prior to construction, as well as others where recording (either prior to or during construction) may be more appropriate, whether this be a summary record from a salvage excavation or watching brief, or a detailed record from an open area excavation The report itself should not make recommendations as to what appropriate course of action to adopt, but should be sufficiently detailed to allow the SMR to do so

### 5 0 Approach

5 1 The archaeological contractor should establish formal liaison and review procedures with each of the SMRs

5 2 A desk-based assessment is to be carried out on the proposed route and any associated ancillary working areas This is to involve the collation of secondary sources, including relevant written, cartographic and photographic information The assessment should also cover a distance of 100m either side of the pipeline to allow for informed decisions to be made regarding localised diversions should these be necessary, and for access routes for plant

5 3 The following is a list, not necessarily comprehensive, of

sources that are to be consulted

- The W Yorks SMR (details on known archaeological sites and findspots, the First Edition 6" mile O S maps, field names from estate maps and Tithe Awards, some oblique aerial photographs, listed buildings lists)

- Wakefield District Planning Office at Newton Bar, Wakefield to consult the vertical air photographs held from West Yorkshire County Council

- The N Yorks SMR (details on known archaeological sites and findspots, oblique and vertical aerial photographs, listed building lists, Scheduled monument lists, registers of historic parks and battlefields, O S cards)

- The N Yorks County Record Office (field names from Tithe and estate maps where available, First Edition O S maps)

- Yorkshire Water's own records regarding the detailed geology of the proposed route and any aerial photographs or other records that they may hold

- any other easily accessible local archive that the contractor is aware of which will produce information commensurate with the time spent extracting it

5.4 The entire route, including alternatives where indicated on the route plans, is to be the subject of a systematic walk-over after the desk-based assessment has been carried out. The results of the desk-based assessment should inform the fieldwork. The intention is to assess known archaeological sites, identify new ones and areas of potential archaeological sensitivity. Concise but detailed field observations should be made, illustrated where appropriate by sketches or photography. Note should be made of current landuse (see para 7.1 below)

## 6.0 Monitoring

6.1 The project will be monitored as necessary and practicable by the SMRs in their role as 'curators' of their County's archaeology. The SMRs should receive as much notice as possible and certainly one week, of the intention to start the walkover survey.

## 7.0 Results

7.1 A report is to be produced, two copies of which are to be supplied to each SMR, on the understanding that it will become a publicly accessible document after an appropriate period of time (generally not exceeding six months). It is not envisaged that the report will be published, but it should be produced with sufficient care and attention to detail to be of academic use to future researchers. Details of style and format are to be determined by the archaeological contractor, but should include a catalogue of all identified or potential archaeological sites, each individually numbered, and located with as accurate a grid reference as possible. The catalogue of sites should clearly separate sites in North Yorkshire from those in West Yorkshire. Each site should have a sufficiently full description (with illustrations where possible and appropriate) to allow the SMR to recommend an appropriate course of action without requiring a field visit. For sites within North Yorkshire only, the contractor should attempt to assess the relative archaeological

importance of each site, and include this assessment within their report. Each site should be fully referenced, including the identity of the individual making the field observations. The approximate extent and morphology of a site (where appropriate) should be represented on a map base and related to fixed structures or roads. The geology, soils and current landuse to be shown on the map base, where the County boundary is also to be clearly identified. The report should also possess appendices listing all sources consulted, a quantified index to the project archive, and a copy of this specification.

7.2 Provision should be made to supply a draft copy of the report to each SMR prior to the production of the final report, both for speed of response in recommending further work and to allow the SMR to comment before the production of the final report.

7.3 The contractor should make provision for a meeting with each SMR after supplying a copy of the draft report, to discuss the report and to aid the SMR in formulating appropriate further recommendations. The meeting may take the form of a telephone discussion at the discretion of the SMR.

7.4 The relevant part of the project archive, or a copy of it, is to be deposited with the appropriate County SMR on completion of the project. The archive is to be fully indexed and to include any copies of plans or maps, any notes, including those made in the field, photographs and sketches.

#### 8.0 Queries

8.1 Any queries relating to this specification should be addressed to the appropriate County Sites and Monuments Record, either the West Yorkshire Archaeology Service, 14 St John's North, Wakefield WF1 3QA (Tel 01924 306801 Fax 01924 306810), or the Archaeology Section, North Yorkshire County Council, Planning Department, County Hall, Northallerton, DL7 8AQ (Tel 01609 780780 x2839 Fax 01609 777719).

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## ***Appendix 2***

## Specification Details for Potential Archaeological Sites within the Pipeline Corridor

1 The topsoil and recent overburden to be removed down to the first significant archaeological horizon, in successive level spits. The machine work must be carried out under direct archaeological supervision and the machine halted if archaeological deposits are encountered. The top of the first significant archaeological horizon may be cleared by the machine but must then be cleaned by hand and inspected for features. The machine should be then be used to identify the full area of archaeological interest upto the boundaries of the pipeline easement. Once the full area of archaeological interest has been identified the area should be cleaned and planned. The nature of the archaeology ( i.e its condition, character and date) should then be established by excavation by hand. If the area requiring excavation is relatively extensive and/or time-consuming, the WYAS SMR should be consulted and the agreement of the SMR obtained prior to excavation continuing. NOTE It is likely that arrangements will need to be made to increase the resources available on site. **The intention of this specification is to identify areas of particular archaeological sensitivity which will require more detailed recording prior to destruction, whilst allowing the recording of minor archaeological features to be made if those are the only features present, so that the area can be handed over to the pipeline contractors.** The trenches to be recorded according to the normal principles of stratigraphic excavation. The stratigraphy of any trench to be recorded even where no archaeological deposits have been identified.

2 The actual areas of machine-stripping and any features of possible archaeological concern noted within the trenches should be accurately located on a site plan and recorded by photographs, summary scale drawings and written descriptions as judged adequate by the archaeologist in charge of the exercise.

3 The archaeological contractor will be responsible for ensuring that Health and Safety requirements are met, with regard to site personnel and to members of the public.

4 Any human remains which are excavated must initially be left in-situ covered and protected. If removal is necessary, this must comply with the relevant Home Office and local environmental health regulations.

5 Any finds of gold and silver must be removed to a safe place and reported to the local coroner as required by the procedures relating to Treasure Trove. Where removal cannot be effected on the same working day as the discovery suitable security measures must be taken to protect the finds from theft.

6 It is the responsibility of the archaeological contractor to endeavour to obtain the consent of the landowner in writing for the deposition of finds with the appropriate archaeological store.

7 The evaluation will be monitored as necessary and practicable by the County SMP in its role as 'curator' of the county's archaeology.

8 On completion of the fieldwork, any samples taken shall be processed and all finds shall be cleaned, identified, assessed, spot-dated, marked (if appropriate) and properly packed and stored in accordance with the requirements of national guidelines. A field archive shall be compiled consisting of all primary written documents, plans, sections and photographs. The field archive or a copy of it will be deposited with the West Yorkshire SMR.

9 A written report to be produced. The report should include a full description and interpretation of results produced. It is not envisaged that the report is likely to be published, but it should be produced with sufficient care and attention to detail to be of academic use to future researchers. Plans should be at an appropriate scale showing trench layout (as dug) and features located. Artefact analysis to include the production of a descriptive catalogue with finds critical for dating and interpretation illustrated. Details of the style and format of the report are to be determined by the archaeological contractor, but should include a full bibliography.

10 A copy of the full report to be supplied to the County Sites and Monuments Record held by the WYAS within a period of two months unless specialist reports are awaited. In the latter case a revised date should be agreed with the WYAS SMR. The Report will be supplied on the understanding that it will become a public document after an appropriate period of time (generally not exceeding six months).

11 Any queries relating to this specification should be addressed to the County Sites and Monuments Record, West Yorkshire Archaeology Service, 14, St John's North, Wakefield WF1 3QA (tel (01924) 306801).

West Yorkshire Archaeology Service  
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