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Our ref 322014(M)L08
16 February 2016

The Coal Authority
200 Lichfield Lane
Berry Hill
Mansfield
Nottinghamshire
NG18 4RG

For the attention of: Mr L Sharpe

Dear Leigh

**FORMER NORTH GAWBER COLLIERY, MAPPLEWELL
Shaft reference 433409-001 and adit reference 433409-011**

In October 2015, RSK produced a report (reference 322014-R01) summarising investigatory works carried out at each mine entry within the boundaries of the former North Gawber Colliery site. This letter has been prepared in order to provide further details on the concrete caps that have been encountered at shaft reference 433409-001 and adit reference 433409-011, as requested in your email dated Monday 8 February 2016.

Shaft 433409-001

Information provided within The Coal Authority report states that Shaft 433409-001 'was filled to the surface in 1967 and following slumping was excavated and capped at 3.8m bgl [below ground level] with a 6m x 6m reinforced concrete cap by the Coal Authority in March 2005'. Coordinates for the shaft are provided within the Shaft Plan and Data Sheets, reference 71000491160001 (Appendix A), as 433228 409752.

Trial trenches were excavated in July 2014 to prove the location of the mine shaft. A concrete cap was encountered within the trenches at the coordinates provided by the Coal Authority, at a depth of approximately 3.8m bgl at the time of the investigation. Photograph 1 provided in Appendix B shows one edge of the concrete slab exposed by the excavator. Three corners of the square slab were exposed during the 2014 investigation and the sides were measured to be 6m long.

The concrete cap was uncovered again by a contractor in July 2015 during a process of chasing and breaking out buried foundations. The location of the cap was recorded by the contractor's surveyor, and the coordinates are attached as Appendix C. The elevation of the cap was recorded as between 87.57m AOD and 87.68m AOD. The concrete cap was left intact and not damaged by the contractor.

The ground level in the vicinity of the shaft has been reduced as part of recent site restoration works, and when a clean cover layer of 0.6m has been placed over the colliery fill as part of the residential development, there will be approximately 2.6m of soil overlying the bedrock. RSK originally proposed a no-build area of 9.0m in diameter around the shaft coordinates for the proposed residential development, however this diameter has been revised to 8.0m based on the more accurate coordinates recorded by GPS by the contractor.

The shaft has been cordoned off for the entirety of the restoration works, and RSK proposes that the cordon remains in place during the development works to prevent heavy machinery from imposing stress on the concrete cap.

Information provided by the Coal Authority indicates the reinforced concrete cap was installed in 2005, eleven years ago. RSK has assumed that the Coal Authority holds details of the concrete cap design, and that it was constructed to the Coal Authority's specification. Due to the no-build area around the coordinates, the development would not further stress the concrete cap.

Adit 433409-011

Information provided within The Coal Authority report indicates that adit 433409-011 is located beyond the site's northern boundary. However during site preparatory earthworks, a buried reinforced concrete plug was uncovered within the site, close to the northern boundary, at coordinates 433153, 409808 (approximately 35m southeast of the Coal Authority recorded coordinates). The structure exposed included a linear concrete slab with rails leading towards the plug. These features can be seen in photographs in Appendix B. Appendix D shows the coordinates of the concrete plug, as recorded by the contractor during the restoration works. The concrete slab and rails leading up to the concrete plug were broken out, but the concrete plug at the mouth of the adit was not disturbed, and was re-covered with soil arisings. A small corner of the plug was broken exposing steel reinforcements measuring approximately 30mm in diameter. The concrete appeared to be in good condition and extends beyond the site boundary.

The adit plug is located on the northern boundary of the site, falling in a northerly direction away from the site. The plug is beyond the development platform, and is indicated in Figure 1. The ground level to the south of the plug was raised, so the plug is no longer visible. To the south of the plug, the concrete was broken out to weathered rock level, and this area will be part of a back garden in the proposed housing layout. RSK does not consider that the adit will impact the proposed development.

It is hoped The Coal Authority, as statutory consultee, is satisfied with this detail.

Yours sincerely

On behalf of RSK Environment Limited



E Upton
Geoenvironmental Consultant

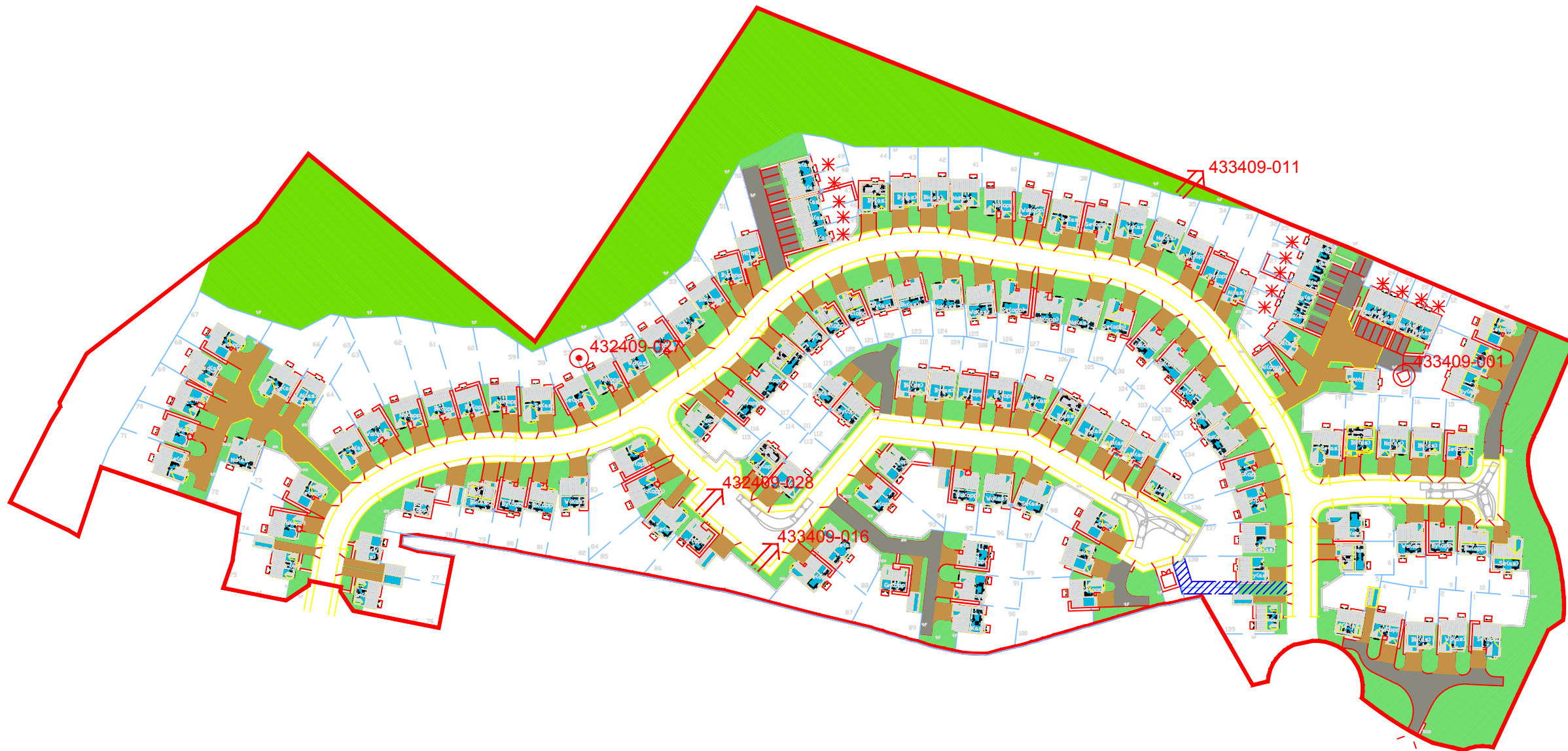


Ian Wilson
Associate Director

Enclosed

- Figure 1 Proposed housing layout in north of site
- Figure 2 Proposed no-build area around shaft 433409-001

- Appendix A Coal Authority Shaft Plan and Data Sheets
- Appendix B Site Photographs
- Appendix C Coordinates of cap over shaft 433409-001
- Appendix D Coordinates of plug over adit 433409-011



LEGEND:

Base plan provided by Harron Homes Planning Layout 313-100

Mine Shaft 433409-001
Reinforced concrete cap identified during enabling works 2015 at 433225.6893 409749.2317 centre provided by contractor - Proposed 'no build one' shown 8m diameter see RSK letter 322014 L08

Adit 433409-011
Adit entrance identified during enabling works 2015 co-ordinates 433153 409808

Adits 433409-016 and 432409-028
See RSK reports 322014 R01 and 32201 R04 co-ordinates provided by The Coal Authority 433015 409687 Adit 016 and 432997 409705 Adit 028

Mine Shaft 432409-027
Mine feature identified during investigation works 2015 at co-ordinates 432957-95. 409755.27. See RSK reports 322014 R1 322014 R05 and letter 322014 L07. Proposed 'no build one' shown.

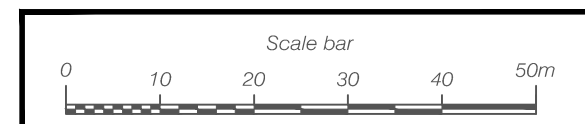
Note:
Drawing shown is for illustrative purposes only. developer should confirm mine entry locations by co-ordinates provided.

A	16.02.16	FIRST ISSUE	HD	IW	IW
REV	DATE	DESCRIPTION	BY	CHD	APR.
Dimensions		Projection	Scale	Orig Size	
m			AS SHOWN	A3	



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CLIENT	HARWORTH ESTATES				
PROJECT	NORTH GAWBER				
TITLE	SUMMARY OF MINE ENTRIES (HARRON HOMES)				
JOB No.:	322014		DRAWING FILE:	322014-L08 00 D001A	
BY:	DATE:	CONTRACT NO.	REV:		
HD	16.02.16		FIGURE 1		A





APPENDIX A COAL AUTHORITY SHAFT PLAN AND DATA SHEETS

The
COAL
AUTHORITY

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

RSK
12 ROYAL SCOT ROAD
PRIDE PARK
DERBY
DE24 8AJ

Our reference: **71000491160001**
Your reference: **321370 North Gawber**
Date of your enquiry: **20 August 2013**
Date we received your enquiry: **20 August 2013**
Date of issue: **20 August 2013**

This report is for the property described in the address below and the attached plan.

Shaft Plan and Data Sheets

**FORMER NORTH GAWBER COLLIERY, MAPPLEWELL, SPARK LANE, MAPPLEWELL,
BARNSELY, SOUTH YORKSHIRE,**

I refer to the enquiry dated 20 August 2013, received 20 August 2013, in connection with the above.

As requested I enclose the mine entry data sheet(s) held for the mine entry/entries referred to.

Mine Entry Data

Shaft/adit:	Shaft
Reference:	433409-005
Source:	OS:1/2500 Scale 262/15 1st ed Ab Plan:BE29
Colliery name:	Unknown
Entry name:	North Gawber Colliery Air Shaft
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	51.0
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	433071
Northing:	409617
Other information:	None

Mine Entry Data (continued)

Shaft/adit: Shaft
Reference: 433409-001
Source: OS:1/2500 Scale 262/15 1st 2nd 4th ed Ab Plan:SCC12/1
M1096 M1097 NE978 NE979 NE816 NE695 NE868
Geol:1/10560 Scale SE 30 NW NG ed Other:North Gawber-
Barnsley SMP
Colliery name: Unknown
Entry name: North Gawber Colliery Barnsley Downcast
Date abandoned: Unknown
Depth of superficial deposits (m): Unknown
Depth of shaft (m): 96.0
Diameter of shaft (m): 3.0
Probable adit azimuth: Not Applicable
Treatment details: was filled to the surface in 1967 and following slumping was
excavated and capped at 3.8m bgl with a 6m x 6m reinforced
concrete cap by the Coal Authority in March 2005
Conveyance: Not Applicable
Easting: 433228
Northing: 409752
Other information: Yes

Mine Entry Data (continued)

Shaft/adit:	Adit
Reference:	433409-011
Source:	Ab Plan:NE492 NE978 NE979 NE493 NE996 NE868 Geol:1/10560 Scale SE 30 NW NG ed Other:Colliery Surface Overlay
Colliery name:	Unknown
Entry name:	North Gawber Colliery No.1 Adit
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	41
Treatment details:	was filled in May 1987
Conveyance:	Not Applicable
Easting:	433126
Northing:	409830
Other information:	None

Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	432409-027
Source:	Former British Coal Records (North Gawber 1/2500 Opencast Site Plan)
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	432955
Northing:	409761
Other information:	None

Mine Entry Data (continued)

Shaft/adit:	Adit
Reference:	432409-028
Source:	NG SE30NW Ed. 6 inch Geological. Ab Plan NE1037
Colliery name:	Unknown
Entry name:	North Yorkshire Adit
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	45
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	432997
Northing:	409705
Other information:	None

Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	432409-025
Source:	Former British Coal Records (North Gawber 1/2500 Opencast Site Plan)
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	432883
Northing:	409833
Other information:	None

Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	432409-026
Source:	Former British Coal Records (North Gawber 1/2500 Opencast Site Plan)
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	432895
Northing:	409825
Other information:	None

Mine Entry Data (continued)

Shaft/adit:	Adit
Reference:	433409-016
Source:	Ab Plan:NE1037 Geol:1/10560 Scale SE 30 NW NG ed Other:North Gawber 1/2500 Opencast Site Plan Kents Thick
Colliery name:	Unknown
Entry name:	Old Adit
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	42
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	433015
Northing:	409687
Other information:	None

Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Tax Point Date:	20 August 2013
Issued to:	RSK 12 ROYAL SCOT ROAD PRIDE PARK DERBY DE24 8AJ
Property Search for:	FORMER NORTH GAWBER COLLIERY, MAPPLEWELL, SPARK LANE, MAPPLEWELL, BARNSLEY, SOUTH YORKSHIRE,
Reference Number:	71000491160001
Date of Issue:	20 August 2013
Cost:	£105.00
VAT @ 20%:	£21.00
Total Received:	£126.00
VAT Registration	598 5850 68

Location map

Approximate position of enquiry



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This plan shows the approximate location of the disused mine entry / entries referred to in the attached mining report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A DTI leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0845 762 6848.

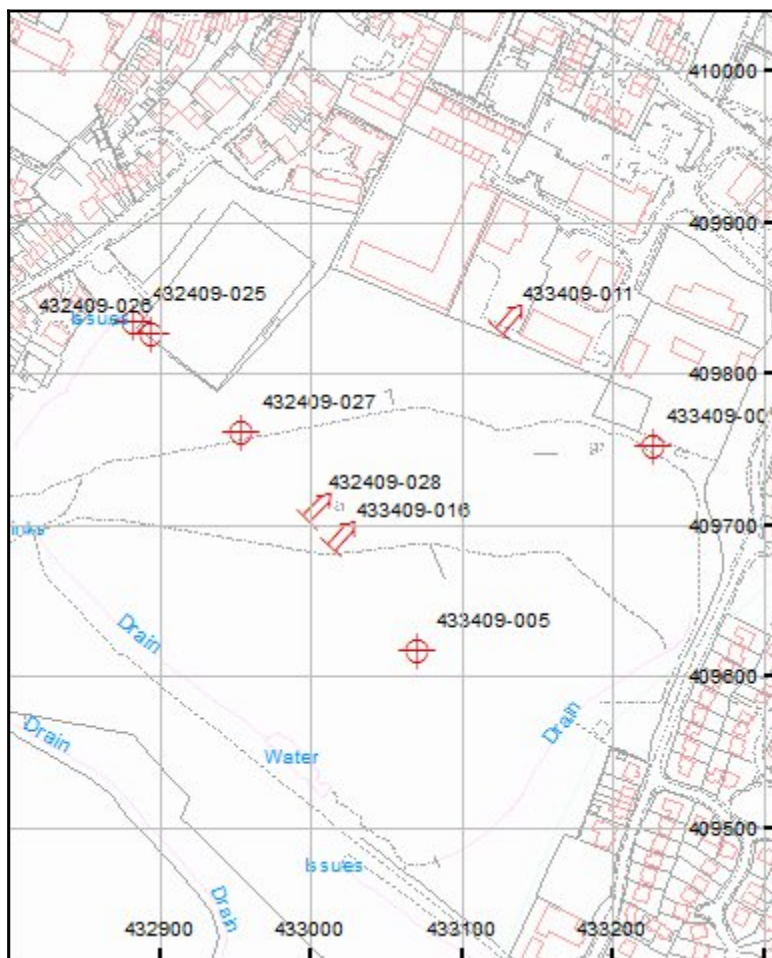
If you wish to discuss the relevance of any of the information contained in the attached report you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken these are available at our Mansfield office, free of charge by prior appointment, telephone 01623 637235. Should you or your advisor wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries).

Our emergency telephone number at all times is 01623 646333.

Key

Disused Adit or Mineshaft



APPENDIX B

SITE PHOTOGRAPHS



PHOTOGRAPHIC LOG		
Photo no. 1	Date: 10/07/2014	
Direction photo taken: Towards the south		
Description: Edge of the concrete cap over 433409-001		

Photo No. 2	Date: 14.07.15	
Direction photo taken: Northwest		
Description: Reinforcement visible at top of concrete plug on adit 433409-011		

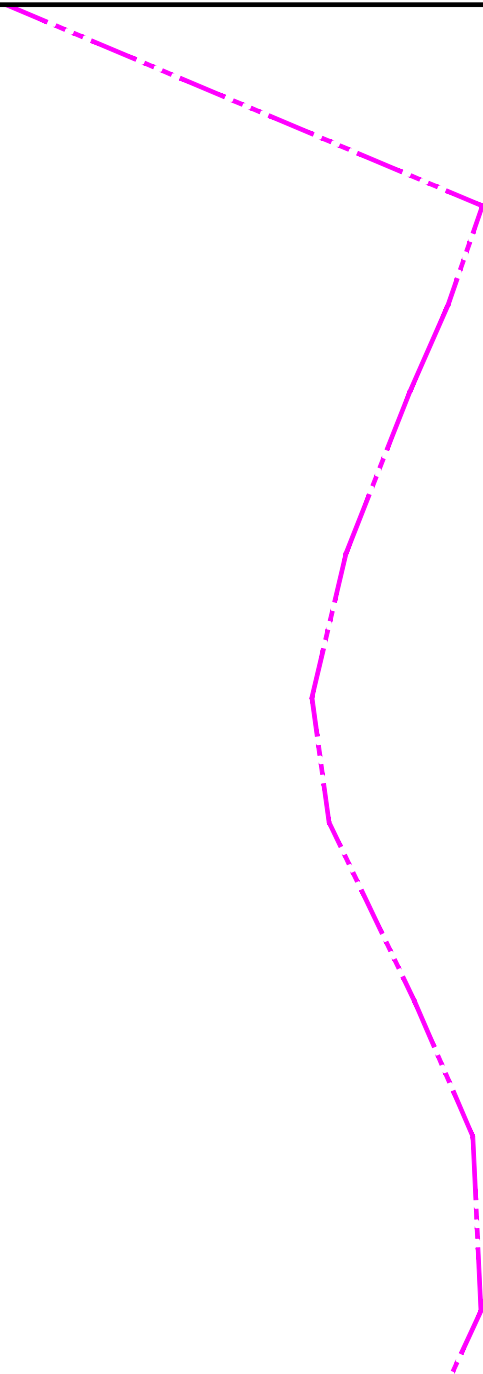
Photo No. 3	Date: 14.07.16	
Direction Photo Taken: Southeast		
Description: Concrete base for railway that ran into adit 433409-011 which is located just to the left of the photo		

Photo No. 4	Date: 15.07.16	
Direction Photo Taken: Northwest		
Description: Extent of excavation around adit 433409-011. Fence in background is northern site boundary. The plug was backfilled.		

APPENDIX C
COORDINATES OF CAP OVER SHAFT 433409-001



Surveyed Cap Position		
433227.01	409751.50	87.68
433227.74	409749.08	87.57
433227.17	409748.19	87.61
433225.83	409747.59	87.65
433224.99	409747.42	87.68
433223.46	409750.19	87.68



Notes
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Rev	Date	Drawn	Description	Ch'kd
-	--/--/----	--	Description	--
-	--/--/----	--	Description	--



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 W: www.vhe.co.uk

T: 01226 320150
 F: 01226 320151

Client
 Harworth Estates

Site
 North Gawber

Title
 Shaft Location Plan

Surveyed	CM	Drawn	JW
Chk.	GS	Date	22/07/2015
Scale	[A4 Sheet] NTS	CAD file	J649-JWSK001.dwg
Dwg No.	J649 Gawber		Rev 0



APPENDIX D

COORDINATES OF PLUG OVER ADIT 433409-011

REMAINING CONCRETE - ADIT CAP

E : 433150.360
N : 409811.636
L : 91.920

E : 433157.591
N : 409809.238
L : 91.816

E : 433149.331
N : 409808.684
L : 91.030

