

Historical Aerial Photography

Published 1948 - 1950

Source map scale - 1:10,560

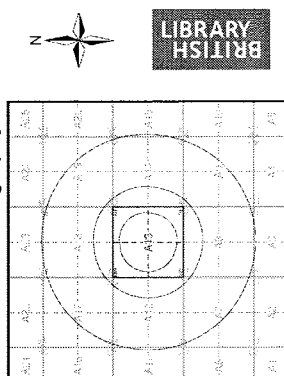
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was rechecked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)

NS88SE	1948	1:10,560
NS88SW	1950	1:10,560
NS87NE	1950	1:10,560
NS87NW	1950	1:10,560

Historical Aerial Photography - Slice A



Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Westquarter Avenue, Falkirk

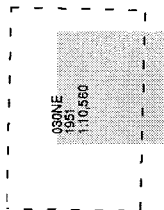


Tel: 0844 844 9932
Fax: 0844 844 9951
Web: www.landmark.co.uk

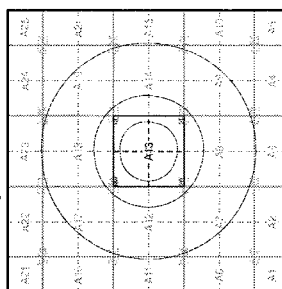
**Stirlingshire
Published 1951
Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid in 1970, the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Westquarter Avenue, Falkirk



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Ordnance Survey Plan
Published 1967 - 1969

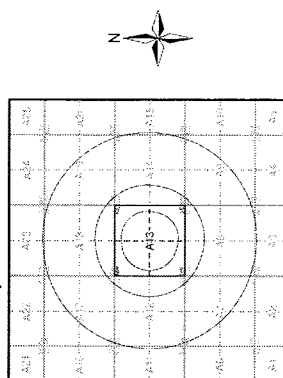
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the time applied for England, Wales and Scotland in the 1940's. In 1654 a survey was conducted for mapping urban areas; these maps are now known as 1:50,000 scale maps. The first map of Great Britain was produced in 1780, and the last Ordnance Survey map published in 1950. Before 1938, all OS maps were based on the Cassini Projection with inadequate surveys of a single country or group of countries, providing little significant information which updated the 1:10,560 mapping from a number of sources. The maps appear unfinisheD - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NS88SE	1967	1:10.560	NS98SW	1968	1:10.560
NS87NE	1967	1:10.560	NS97NW	1969	1:10.560

Historical Map - Slice A



Order Details

Order Number: 31327701_2_1

Customer Ref: J2429

National Grid Reference: 291270, 678800

Slice: A
Site Area (Ha): 0.33

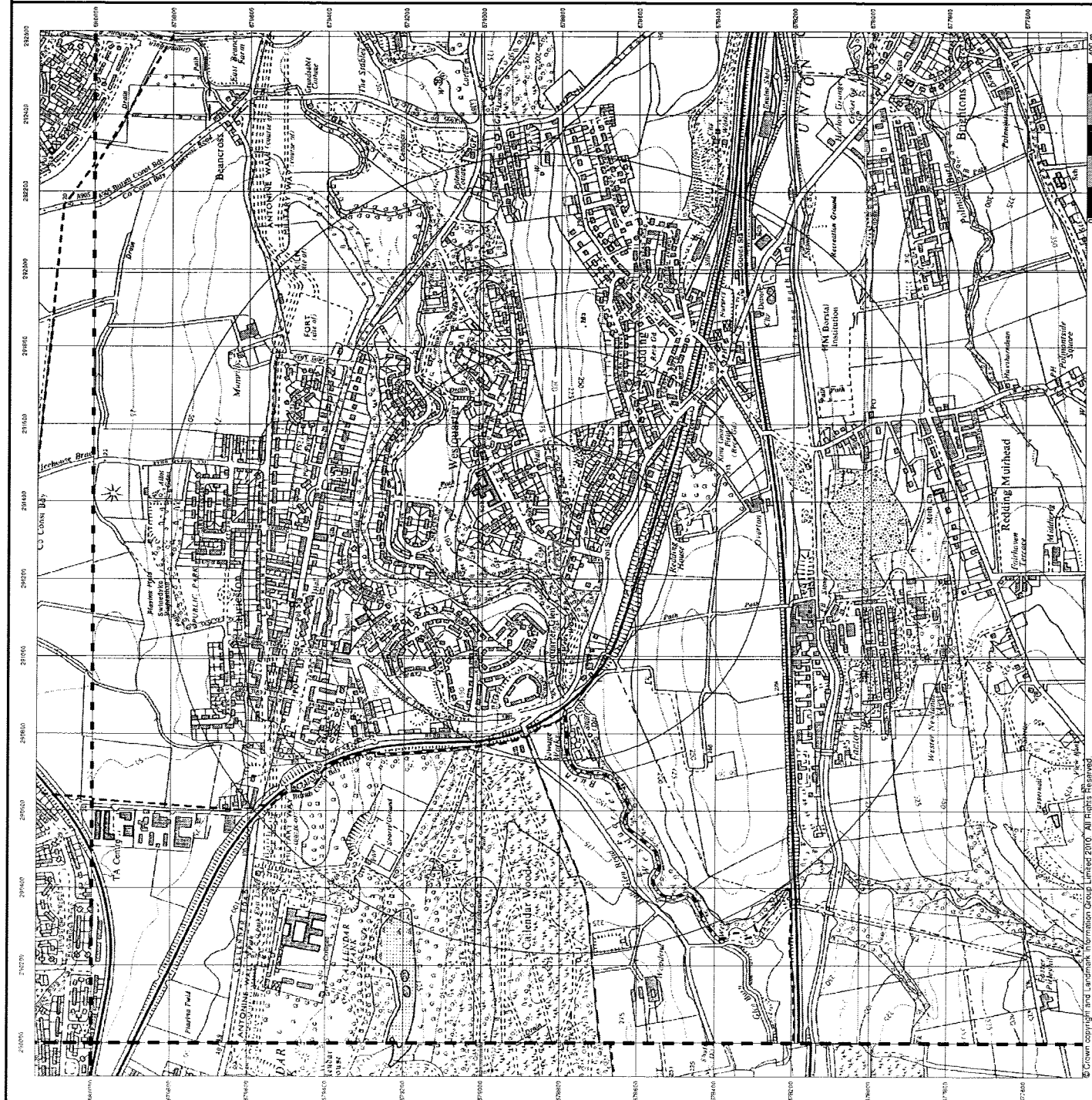
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Westquarter Avenue, Falkirk



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consulting civil and structural engineers

Ordnance Survey Plan Published 1973

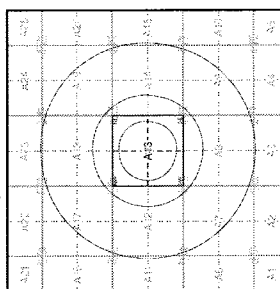
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 maps to the Transverse Mercator Projection. These maps were unfinished - with all military canals and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NS96SW
1973
1:10,000

Historical Map - Slice A



Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 676800
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

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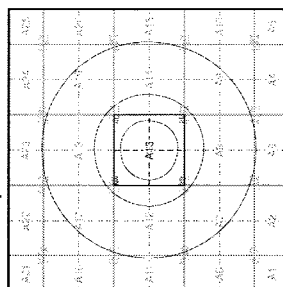
Ordnance Survey Plan Published 1980 - 1987 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NSBASE	NSBASE
1982	1987
1:10,000	1:10,000
NSSENE	NSSENE
1981	1980
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800

Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Westquarter Avenue, Falkirk



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Ordnance Survey Plan Published 1990 - 1993

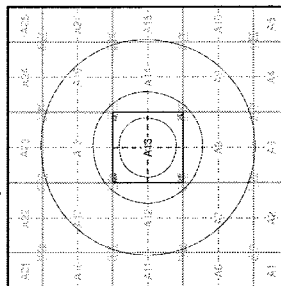
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were often some years later than the surveyed date. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These are actually overprinted on the National Grid Map 1970 Projection. The 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NS88SE	NS96SW
1992	1993
1:10,000	1:10,000
NS07NW	
1990	
1:10,000	

Historical Map - Slice A

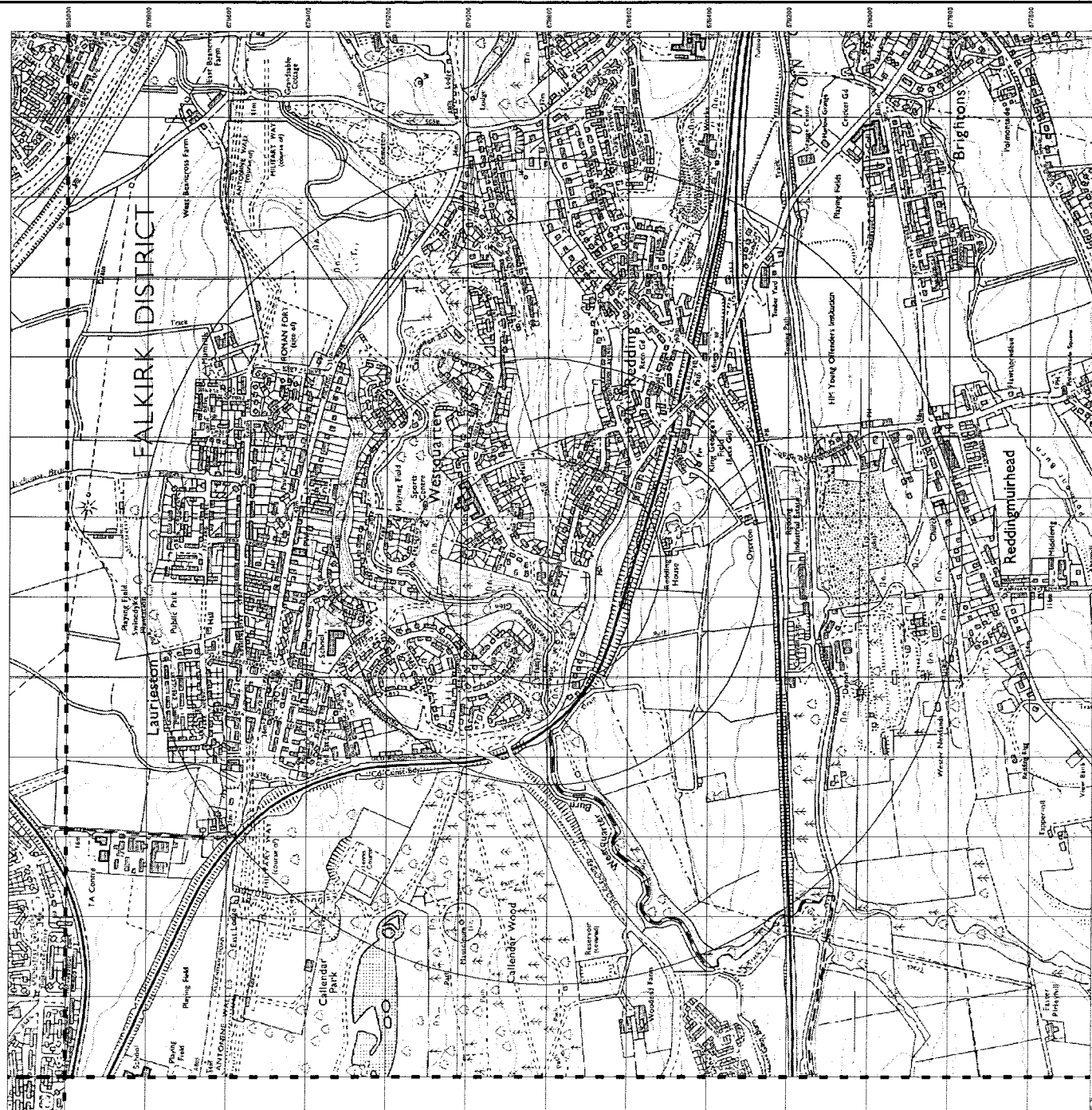


Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

Westquarter Avenue, Falkirk



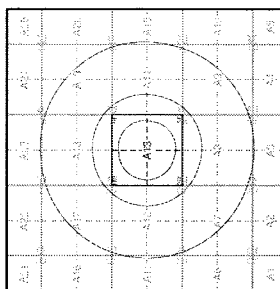
10k Raster Mapping **Published 1999** **Source map scale - 1:10,000**

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS98SE	1999	1:10,000
NS97NW	1999	1:10,000

Historical Map - Slice A



Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

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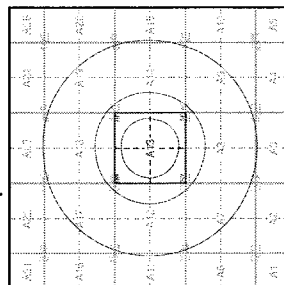
10k Raster Mapping **Published 2006** **Source map scale - 1:10,000**

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour topographic maps as they were derived from the 1:10,000 maps which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS88SE	NS98SW
2006	2006
1:10,000	1:10,000
NS87NE	NS97NW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A

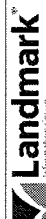


Order Details

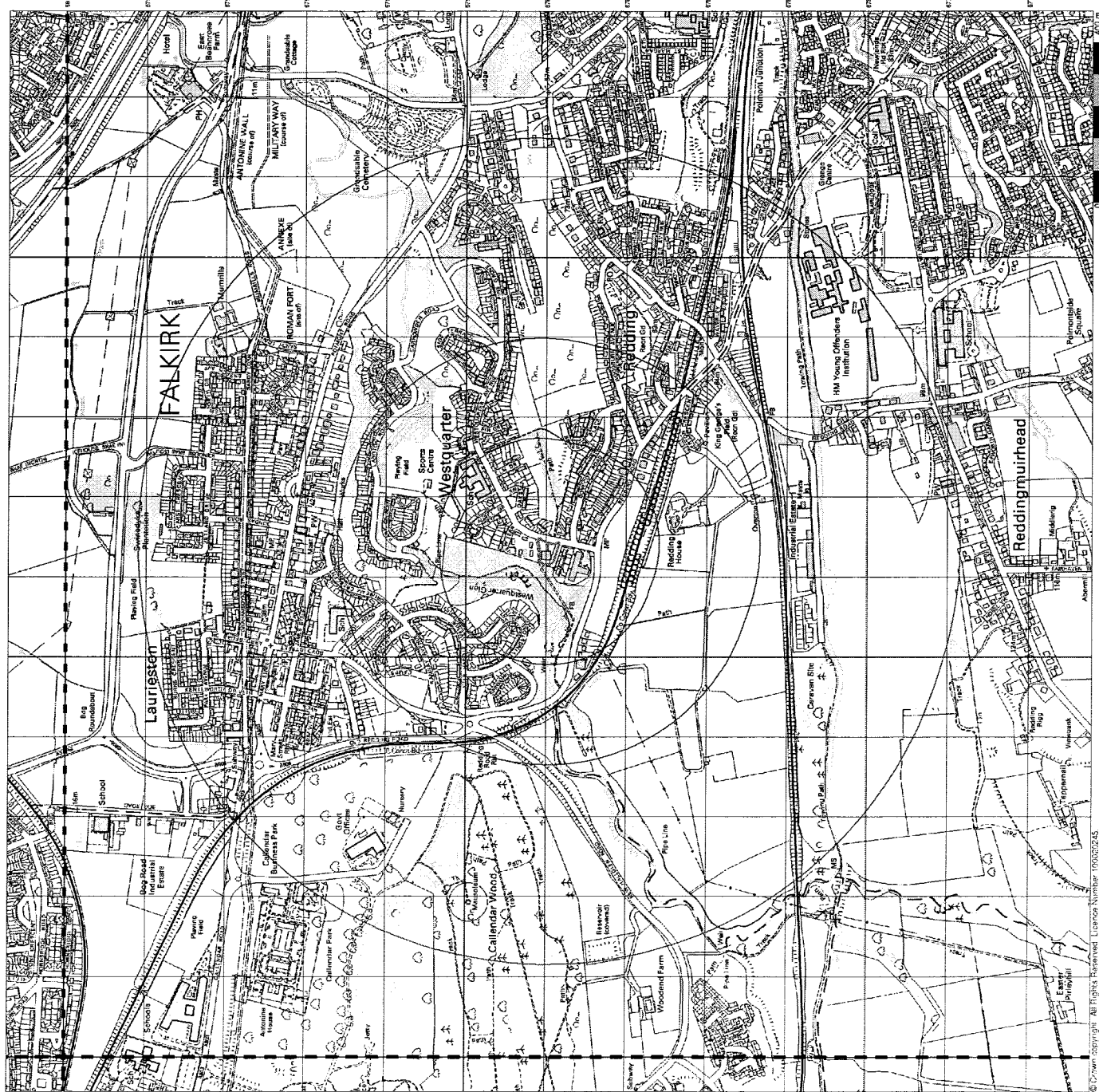
Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800
Slice: A
Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

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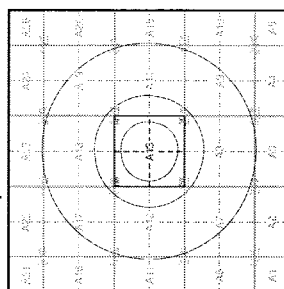
10k Raster Mapping Published 2010 Source map scale - 1:10,000

The historical maps shown are produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS98SE	NS98SW
2010	2010
1:10,000	1:10,000
NS97NE	NS97NW
2010	2010
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 31327701_2_1
Customer Ref: J2429
National Grid Reference: 291270, 678800

Site Area (Ha): 0.23
Search Buffer (m): 1000

Site Details

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Appendix D

Sampling Protocol



SAMPLING PROTOCOL

The site investigations generally followed the procedures outlined in the available guidance (BS 5930:1999 'Code of Practice for Site Investigations' and BS 10175:2001 'Investigation of Potentially Contaminated Land').

Trial Pitting

The trial excavations are undertaken by a mechanical excavator and positioned across the site to provide a broad coverage of the site area. The excavations are directed and supervised by an engineering geologist who recorded the properties of the various strata encountered. The soils are described in accordance with BS 5930:1999, generally including composition, strength, colour, density, odour and any other notable features.

Boreholes

Soils

Soils boring are generally undertaken using the cable percussion method of drilling, although alternative methods are available and typically utilised when access constraints are present.

In-situ sampling and geotechnical testing is undertaken at regular intervals as the bores are advanced.

Gas/groundwater standpipes installed within the bores generally comprise 50mm diameter slotted polythene pipe placed to the specified depth, typically with a 1m length of plain polythene placed above. The hole is then backfilled with an appropriate gravel surrounding the response zone and a bentonite and cement seal placed around the pipe at the surface. A gas valve is placed in the top of the installation, with a metal cover placed over the installation to prevent damage or disturbance. The installations allow monitoring of groundwater depths and gaseous conditions, and also permit groundwater sampling.

Rock

Rotary bores are employed to extend the investigation beyond the limit of the soils bores into the hard formation. Core drilling recovers continuous intact samples, while open hole methods provide fast effective penetration.

The open hole bores are drilled at nominal 125 mm diameter, using water flush techniques. The drilling foreman assesses the rock chippings that are returned to the surface and records the general colour and odour in order to identify the rock type. The presence, or otherwise, of any broken ground and approximate depth of each notable change in rock strata is also noted.

Soil Infiltration Tests

Soakaways tests are carried out in accordance with BRE Digest 365. A trial pit of sufficient size is excavated to represent a section of the design soakaway. The trial pit should be excavated to the same depth as



anticipated in the full size soakaway, typically 1.5m to 2.5m and should be approximately 0.3m to 1.0m wide and 1.0m to 3.0m long with vertical sides.

The pit is filled to the maximum effective depth and the water level and time from filling are recorded, at sufficiently close intervals to clearly define water level versus time. This is repeated three times to represent soil moisture conditions typical of the site when the soakaway becomes operative and should be done on the same or consecutive days. The infiltration rate is calculated from the time taken for the water level to fall from 75% to 25% effective storage depth.

Soil Sampling

The sampling regime for the recovery of samples was generally in accordance with BS 10175:2001.

Disturbed representative soil samples of approximately 1kg weight are obtained and placed in a clean sealed appropriate container supplied by the testing laboratory. Sampling is undertaken at regular intervals, including a sample from each stratum. Bulk samples are also obtained from the boring. The samples are labelled with depth, number and location to allow identification for subsequent analysis. Potentially contaminated samples are labelled as hazardous where appropriate.

Undisturbed samples of cohesive materials are also obtained from the bores, where possible. The sample tube is sealed with wax and fitted with plastic end caps.

Chain of custody documentation accompanied the samples during transit from the contractor's store to the testing laboratory. All samples are stored appropriately and analysed without undue delay.

Groundwater Sampling

Any groundwater observed in sufficient quantities within the trial excavations was sampled.

Where possible, groundwater samples were recovered from the installations placed within the bores. Prior to sampling, the well was developed and purged of the appropriate volume of water. Samples were collected into clean containers and labelled accordingly.

Gas/Groundwater Monitoring

Ground gases (carbon dioxide, methane, oxygen, hydrogen sulphide and nitrogen) are monitored from the installations utilising a portable LMS gas monitor and flow meter. The atmospheric pressure is also recorded during each monitoring. Following the gas monitoring, groundwater depths are monitored using a dip meter.

Analytical Procedures

The scope of chemical testing was based on the interpreted origin of the soils encountered in association with their description. This is consistent with best practice under current contaminated land guidance. Analytical procedures adopted during the chemical analyses, carried out on our behalf by the testing laboratory, conform to recognised practices, allowing the award of NAMAS accreditation. The laboratory also participates in the MCERTS scheme.

Appendix E

Record of Exploratory Holes

Rotary Borehole Logs

Cable Percussive Borehole Logs

Trial Pit Logs

Project Name Westquarter Avenue, Falkirk						Exploratory Probe Log				Hole ID. R01	
Project No. TD7359 Engineer Scott Bennett Associates (Group 1) Ltd Employer Hanover (Scotland) Housing Association						Sheet 1 of 1					
Ground Level -		Coordinates -									
Hole Type IP+RO		Inclination Vertical									

Description of Strata	Legend	Depth (Thickness)	Datum Level	Flush Details and Remarks				
				Zone	Return	Remarks	Type	Colour
TARMAC.		(0.30) 0.30						
RED ASH BRICK.		(0.30) 0.80						
OVERBURDEN.		(3.20)						
SOFT GROUND.		4.00 (0.50) 4.50						
HARD.		(4.00)						
COAL.		8.50 (1.00) 9.50						
SANDSTONE.		(4.00)						
COAL TRACE.		13.50 (0.50) 14.00						
SANDSTONE.		(6.00)						

Exploratory hole complete at 20.00 m						Hole Formation		Hole Diameter		Casing	
Top	Base	Type	Start Date	End Date	Equipment	Remarks	Diameter	Depth	Diameter	Depth	
0.00	1.20	IP	19/03/2014	19/03/2014	Hand Tools Deltabase 420	Water Flush. Loss of flush from 4.00 to 8.50m. Backfilled with cement/bentonite grout.	63	20.00	89	4.00	

NOTES: All depths in metres, all diameters in millimetres.
 All strata descriptions are Driller Foremans best description from flush returns.
 For details of abbreviations, see key

Log Print Date And Time: 24/03/2014 09:50:04

SOIL engineering

Part of the Bachy Soletanche group

Form No: SI EXP PROBE LOG

Issue Revision No: 1.03

Issue Date: 07/10/2013

Project Name Westquarter Avenue, Falkirk Project No. TD7359 Engineer Scott Bennett Associates (Group 1) Ltd Employer Hanover (Scotland) Housing Association						Exploratory Probe Log		Hole ID. R02 Sheet 1 of 1					
Ground Level - Hole Type IP+RO		Coordinates - Inclination Vertical											
Description of Strata				Legend	Depth (Thickness)	Datum Level	Flush Details and Remarks						
							Zone	Return	Remarks	Type	Colour		
INFILL.					(0.50)								
OVERBURDEN.					0.50								
					(1.50)								
					2.00								
SANDSTONE.													
					(7.50)								
					9.50								
COAL.					(0.50)								
SANDSTONE.					10.00								
					(3.00)								
					13.00								
COAL TRACE.					(0.50)								
SANDSTONE.					13.50								
					(6.50)								
Exploratory hole complete at 20.00 m. Hole Formation													
Top	Base	Type	Start Date	End Date	Equipment	Remarks	Hole Diameter		Casing				
0.00	1.20	IP	19/03/2014	19/03/2014	Hand Tools	Water Flush Full Returns.	Diameter	Depth	Diameter	Depth			
1.20	20.00	RO	19/03/2014	19/03/2014	Deltabase 420	Backfilled with cement/bentonite grout.	63	20.00	89	2.00			
NOTES: All depths in metres, all diameters in millimetres. All strata descriptions are Driller Foremans best description from flush returns. For details of abbreviations, see key													
Log Print Date And Time: 24/03/2014 09:50:07													
Form No SI EXP PROBE LOG				Issue Revision No. 1.03				Issue Date: 07/10/2013				Part of the Bachy Soletanche group	

Project Name Westquarter Avenue, Falkirk							Exploratory Probe Log			Hole ID. R03	
Project No. TD7359										Sheet 1 of 1	
Engineer Scott Bennett Associates (Group 1) Ltd											
Employer Hanover (Scotland) Housing Association											
Ground Level -		Coordinates -									
Hole Type IP+RO		Inclination Vertical									

Description of Strata	Legend	Depth (Thickness)	Datum Level	Flush Details and Remarks					
				Zone	Return	Remarks	Type	Colour	
TARMAC.		(0.30)							
RED ASH RUBBLE.		0.30 (0.20)							
SANDY CLAY.		0.50 (2.50)							
OVERBURDEN.		3.00 (1.00)							
SANDSTONE.		4.00 (4.50)							
COAL.		8.50 (1.00)							
SANDSTONE.		9.50 (3.50)							
COAL TRACE.		13.00 (0.50)							
SANDSTONE.		13.50 (6.50)							

Exploratory hole complete at 20.00 m						Hole Formation		Hole Diameter		Casing	
Top	Base	Type	Start Date	End Date	Equipment	Remarks	Diameter	Depth	Diameter	Depth	
0.00	1.20	IP	19/03/2014	19/03/2014	Hand Tools Deltabase 420	Water Flush, Full Returns. Backfilled with cement/bentonite grout	63	20.00	89	4.00	

NOTES: All depths in metres, all diameters in millimetres.
All strata descriptions are Driller Foremans best description from flush returns.
For details of abbreviations, see key

Log Print Date And Time: 24/03/2014 09:50:10


SOIL engineering
Part of the Bachy Soletanche group

Form No: SI EXP PROBE LOG
Issue/Revision No: 1.03
Issue Date: 07/10/2013

Project Name Westquarter Avenue, Falkirk Project No. TD7359 Engineer Scott Bennett Associates (Group 1) Ltd Employer Hanover (Scotland) Housing Association						Exploratory Probe Log		Hole ID. R04 Sheet 1 of 1	
Ground Level -		Coordinates -							
Hole Type IP+RO		Inclination Vertical							

Description of Strata	Legend	Depth (Thickness)	Datum Level	Flush Details and Remarks				
				Zone	Return	Remarks	Type	Colour
SOIL RED ASH.		(1.20)						
OVERBURDEN.		1.20 (1.30)						
SANDSTONE.		2.50 (5.50)						
COAL.		8.00 (0.50)						
SOFT BROKEN.		8.50 (1.00)						
HARD.		9.50 (2.50)						
SOFT.		12.00 (0.50)						
HARD.		12.50 (7.50)						

Exploratory hole complete at 20.00 m. Hole Formation						Hole Diameter		Casing		
Top	Base	Type	Start Date	End Date	Equipment	Remarks	Diameter	Depth	Diameter	Depth
0.00	1.20	IP	19/03/2014	19/03/2014	Hand Tools	Water Flush. Loss of flush at 12.50m.	63	20.00	89	2.50
1.20	20.00	RO	19/03/2014	19/03/2014	Deltabase 420	Backfilled with cement/bentonite grout.				

NOTES: All depths in metres, all diameters in millimetres.
 All strata descriptions are Driller Foremans best description from flush returns.
 For details of abbreviations, see key

SOIL engineering

Log Print Date And Time: 24/03/2014 09:50:14

Form No: SI EXP PROBE LOG Issue Revision No: 1.03 Issue Date: 07/10/2013

Part of the Bachy Soletanche group

 AITKEN LABORATORIES LTD						Site WESTQUARTER AVENUE, FALKIRK		Borehole Number BH1	
Boring Method Cable Percussion		Casing Diameter 150mm cased to 3.60m		Ground Level (mOD)		Client		Job Number J725	
		Location		Dates 21/03/2014		Engineer SCOTT BENNETT ASSOCIATES LIMITED		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	V1					(0.10)	#MADE GROUND (Tarmac)		
0.20	T1					0.10			
0.20	J1					(0.20)	MADE GROUND (Reddish brown slightly clayey fine to coarse sand and fine to coarse gravel of burnt shale)		
0.50	V2					0.30			
0.50	T2					(0.80)	MADE GROUND (Brown sandy slightly gravelly clay with brick and burnt shale. Gravel content is fine to coarse)		
0.50	J2								
1.00	V3					1.10			
1.00	T3					(0.10)	#Sandy CLAY		
1.00	J3					1.20			
1.20-1.65	SPT N=11			1,2/4,2,3,2			Medium dense brown very silty gravelly fine to coarse SAND. Gravel content is fine to coarse		
1.20-1.65	B4								
2.00-2.45	SPT N=13			3,4/4,3,3,3		(1.40)			
2.00-2.45	B5								
						2.60	Loose brown very silty slightly gravelly fine to coarse SAND. Gravel content is fine to coarse		
3.00-3.45	SPT N=7			1,1/2,1,2,2		(1.00)			
3.00-3.45	B6								
				21/03/2014: DRY		3.60	#OBSTRUCTION (Bedrock or boulder) Complete at 3.60m		
Remarks # Denotes drillers' description A 50mm diameter standpipe was installed at a depth of 3.60m Chiselling from 2.50m to 2.60m for 0.50 hours. Chiselling from 3.50m to 3.60m for 1 hour. Excavating from 0.00m to 1.20m for 1 hour.							Scale (approx) 1:50	Logged By SM	Figure No. J725.BH1



AITKEN LABORATORIES LTD

Site
WESTQUARTER AVENUE, FALKIRK

Borehole
Number
BH2

Boring Method Cable Percussion	Casing Diameter	Ground Level (mOD)	Client	Job Number J725
	Location	Dates 21/03/2014	Engineer SCOTT BENNETT ASSOCIATES LIMITED	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				21/03/2014: DRY		(0.10) 0.10 (0.10) 0.20 (0.60) 0.80	TOPSOIL MADE GROUND (Reddish brown slightly clayey fine to coarse sand and fine to coarse gravel of burnt shale with concrete) MADE GROUND (Brown silty fine to coarse sand and fine to coarse gravel with brick, sandstone and burnt shale) #OBSTRUCTION (Bedrock or boulder) Complete at 0.80m		

Remarks BH2 terminated on an obstruction at a depth of 0.80m. BH2A was put down at an adjacent location # Denotes drillers' description Excavating from 0.00m to 0.80m for 1 hour.	Scale (approx) 1:50	Logged By PJ
	Figure No. J725.BH2	



AITKEN LABORATORIES LTD

Site
WESTQUARTER AVENUE, FALKIRK

Borehole
Number
BH2A

Boring Method Cable Percussion	Casing Diameter 150mm cased to 1.20m	Ground Level (mOD)	Client	Job Number J725
	Location	Dates 21/03/2014	Engineer SCOTT BENNETT ASSOCIATES LIMITED	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	V1					(0.10)	TOPSOIL		
0.20	T1					0.10			
0.20	J1					(0.10)	MADE GROUND (Reddish brown slightly clayey fine to coarse sand and fine to coarse gravel of burnt shale with concrete)		
0.50	V2					0.20			
0.50	T2					(1.00)	MADE GROUND (Brown silty fine to coarse sand and fine #OBSTRUCTION (Bedrock or boulder) to coarse gravel with brick, sandstone and burnt shale)		
0.50	J2								
1.00	V3					1.20			
1.00	T3								
1.00	J3								
				21/03/2014: DRY					
							Complete at 1.20m		

Remarks # Denotes drillers' description Chiselling from 1.10m to 1.20m for 1 hour. Excavating from 0.00m to 1.20m for 1 hour.	Scale (approx)	Logged By
	1:50	SM
	Figure No. J725.BH2A	

 AITKEN LABORATORIES LTD					Site WESTQUARTER AVENUE, FALKIRK		Trial Pit Number TP1		
Excavation Method JCB 3CX		Dimensions 3.00x0.60m		Ground Level (mOD)		Client		Job Number J725	
		Location		Dates 21/03/2014		Engineer SCOTT BENNETT ASSOCIATES LIMITED		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.20	V1				(0.05)	MADE GROUND (Tarmac)			
0.20	T1				0.05				
0.20	J1				(0.20)	MADE GROUND (Burnt shale)			
0.50	V2				0.25				
0.50	T2				(0.15)	MADE GROUND (Brown sandy gravelly clay with ash and cobbles. Gravel content is fine to coarse)			
0.50	J2				0.40				
1.00	V3				(0.60)	Light brown fine to coarse GRAVEL with cobbles (Possible Made Ground)			
1.00	T3				1.00				
1.00	J3								
1.00	B3					Brown sandy fine to coarse GRAVEL with cobbles and boulders			
1.50	B4								
2.50	B5				(1.90)				
					2.90	OBSTRUCTION (Bedrock or boulder) Complete at 2.90m			
Plan					Remarks Trial pit walls remained dry and stable throughout				
Scale (approx) 1:50					Logged By CB		Figure No. J725.TP1		



Site
WESTQUARTER AVENUE, FALKIRK

**Trial Pit
Number**
TP2

Excavation Method
JCB 3CX

Dimensions
3.00x0.60m

Ground Level (mOD)

Client	
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Job
Number
J725

Location

Dates	21/03/2014
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Engineer
SCOTT BENNETT ASSOCIATES LIMITED

Sheet
1/1

OBSTRUCTION (Bedrock or boulder)
Complete at 2.80m

Plan

Remarks

Trial pit walls remained dry and stable throughout

Scale (approx)

1:50

Logged By

CB

Figure No.

J725.TP2



Site
WESTQUARTER AVENUE, FALKIRK

**Trial Pit
Number**
TP3

Excavation Method
JCB 3CX

Dimensions
6.00x0.60m

Ground Level (mOD)

Client

Job
Number
J725

Location

Dates 21/03/2014

Engineer

SCOTT BENNETT ASSOCIATES LIMITED

Sheet
1/1

Remarks

Trial pit walls remained dry and stable throughout

Scale (approx)

1:50

Logged By

CB

Figure No.

J725.TP3



**Trial Pit
Number**
TP4

Sheet
1/1

Japan

J725.TP4

Appendix F

Geotechnical Test Results