

Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_1_2
Grid Ref: 280926, 212347

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A



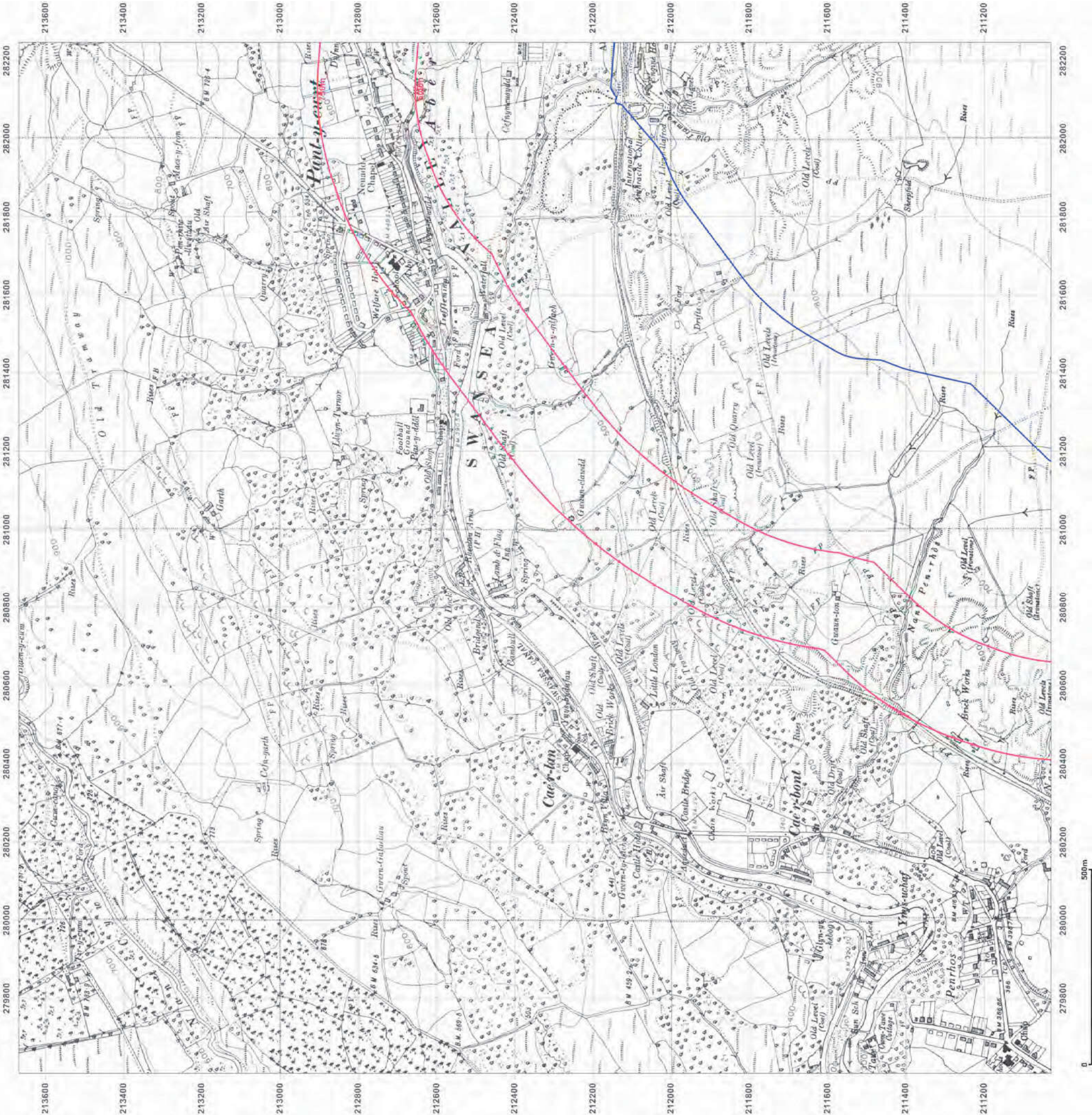
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

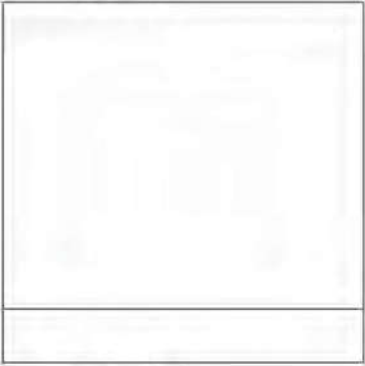
Client Ref: GCORE
Report Ref: GS-6396071_SS_1_2
Grid Ref: 280926, 212347

Map Name: Provisional

Map date: 1965

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

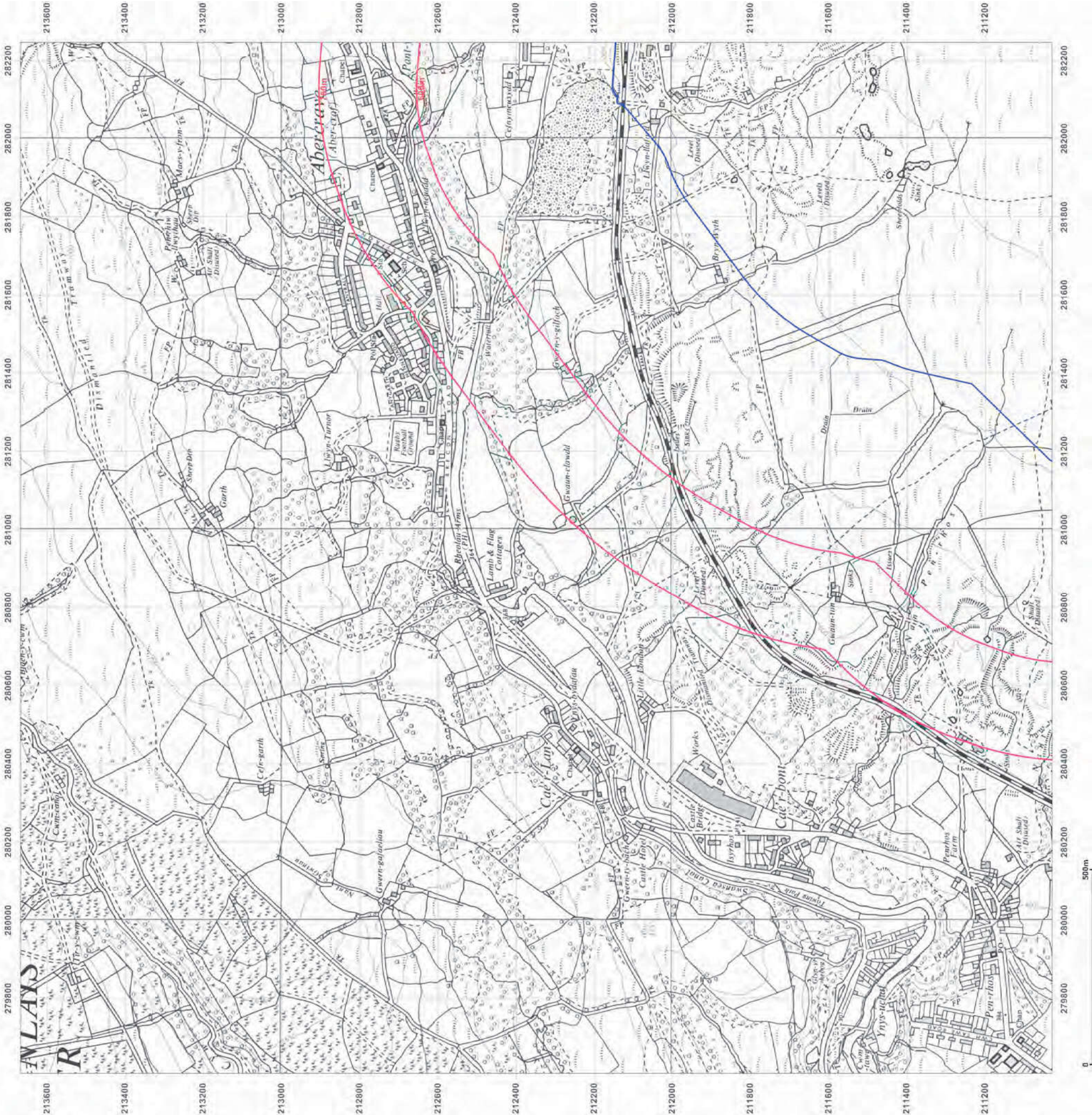


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_1_2
Grid Ref: 280926, 212347

Map Name: National Grid

Map date: **1985-1987**

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

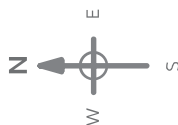
Client Ref: GCORE
Report Ref: GS-6396071_SS_1_2
Grid Ref: 280926, 212347

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

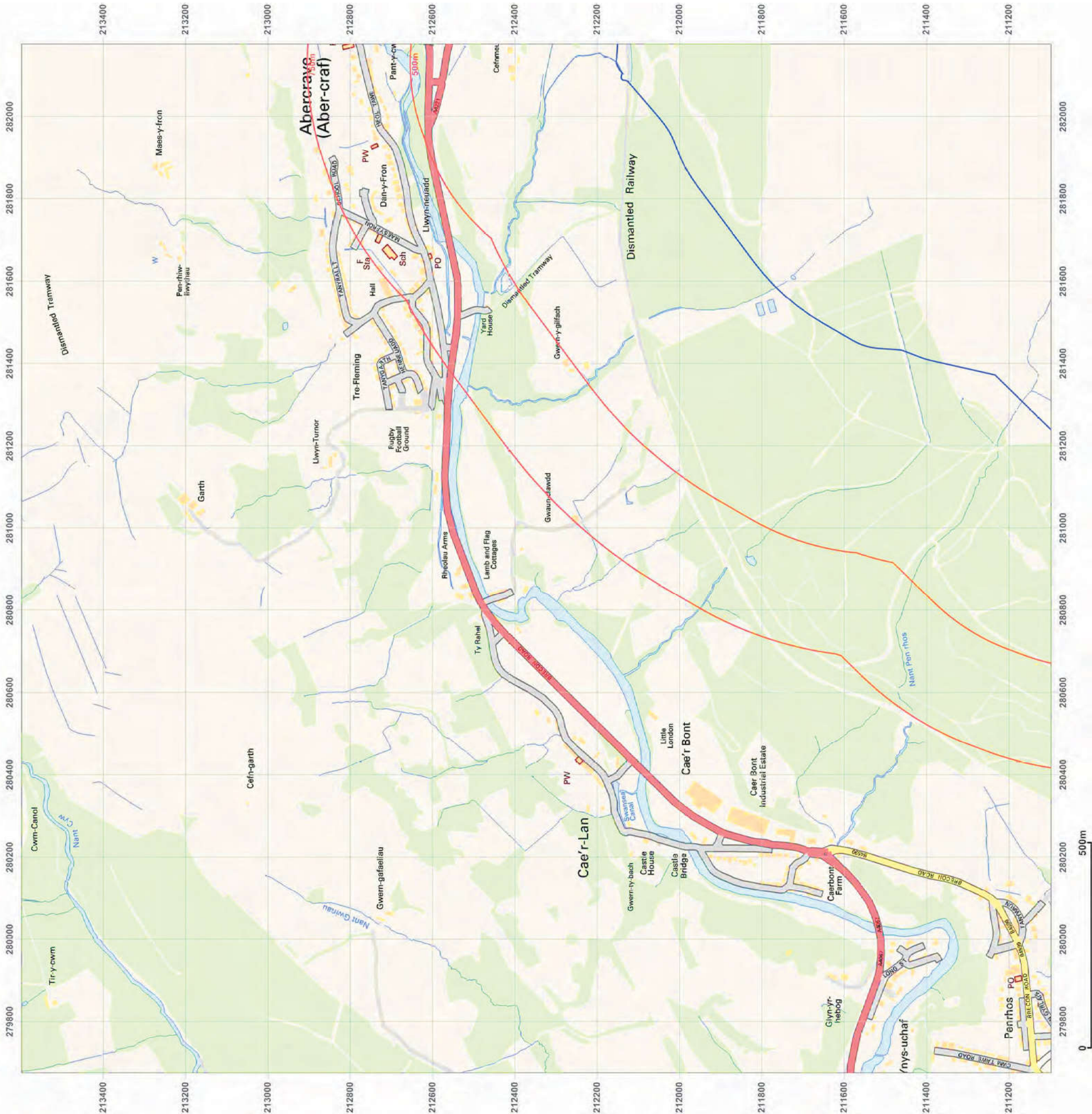


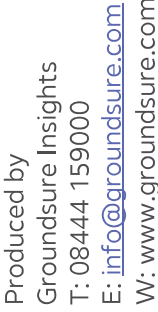
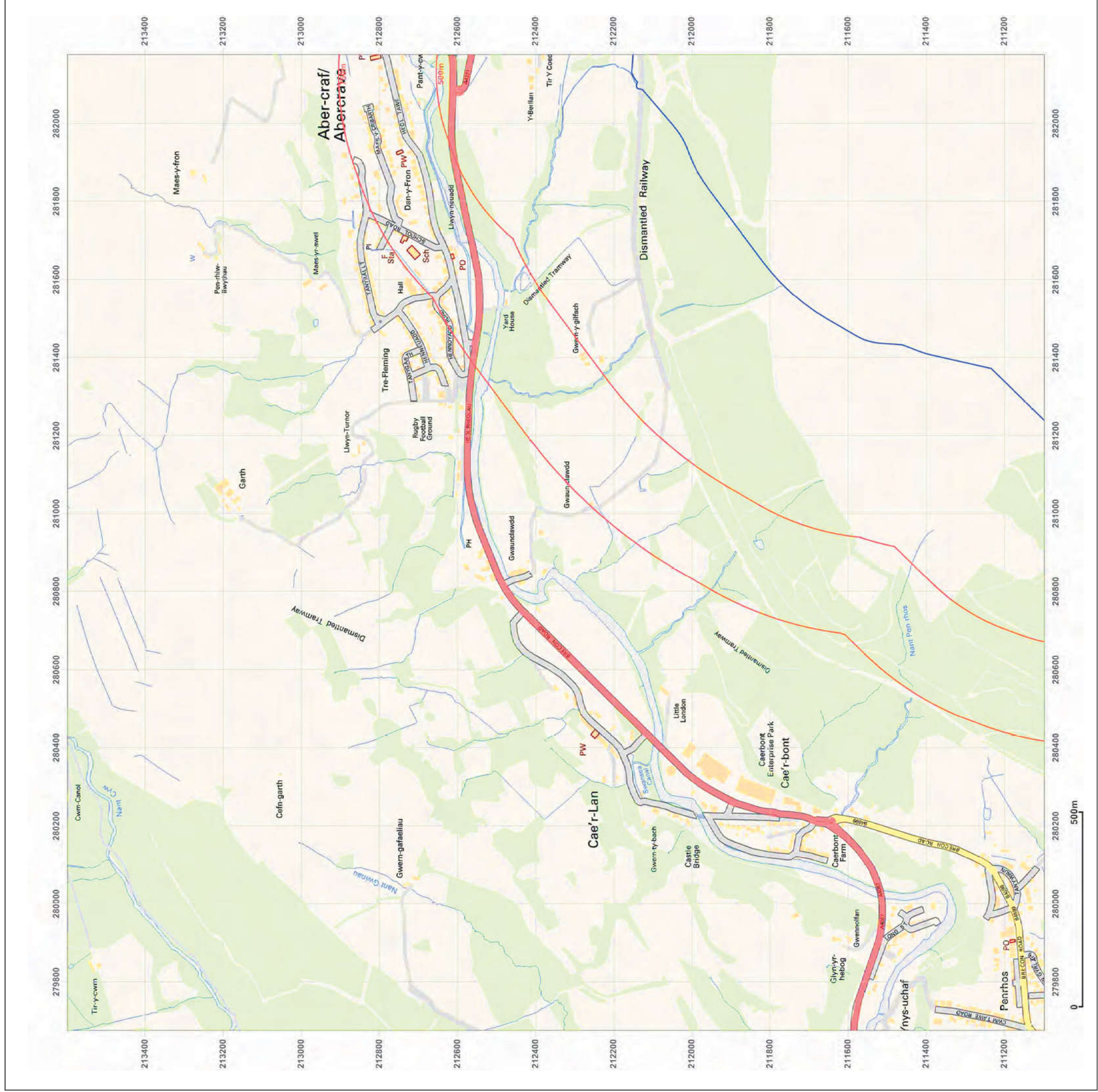
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_1_2
Grid Ref: 280926, 212347

Map Name: National Grid

Map date: 2019

Scale: 1:10,000

Printed at: 1:10,000

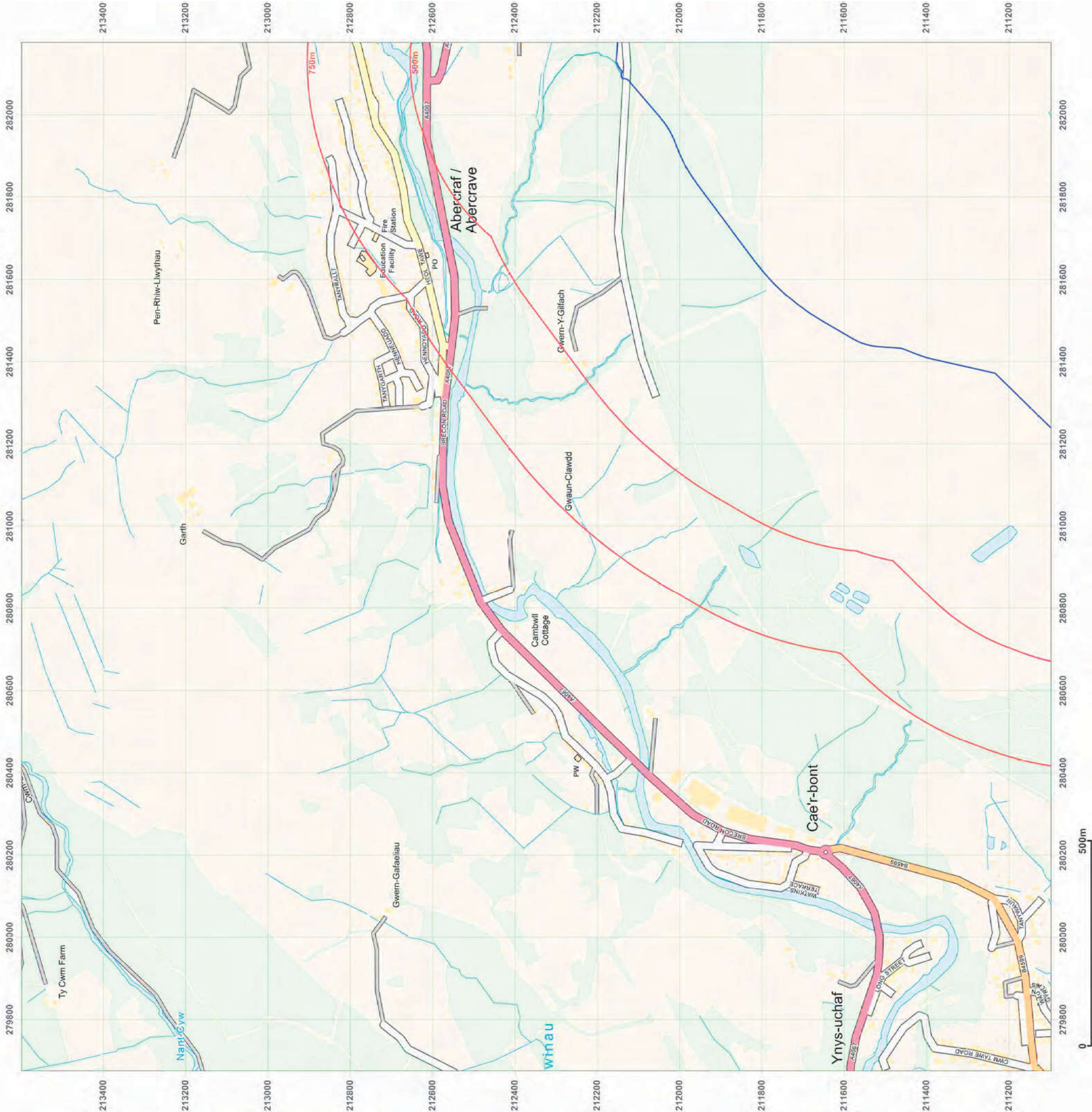


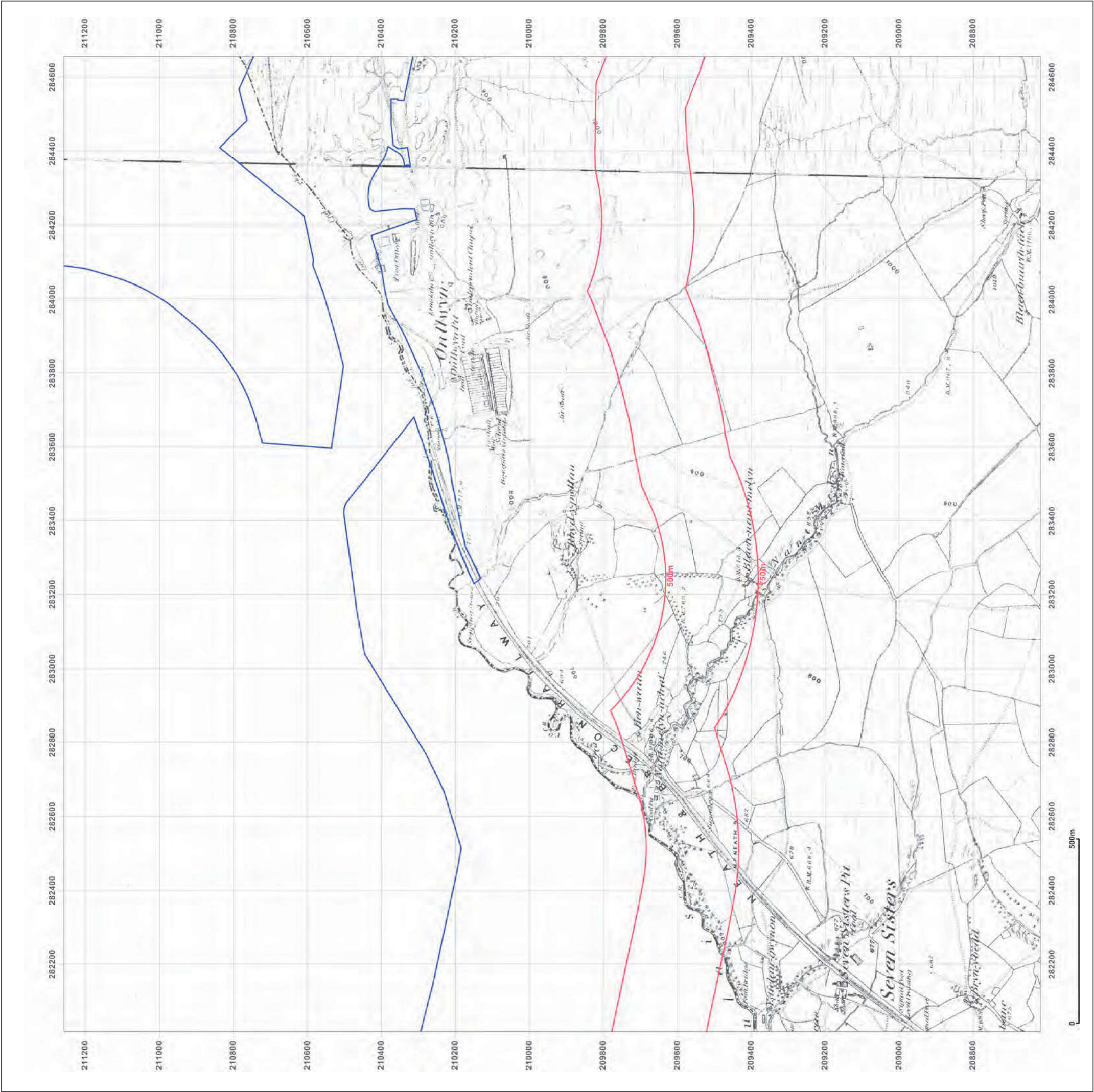
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

Map date: 1876

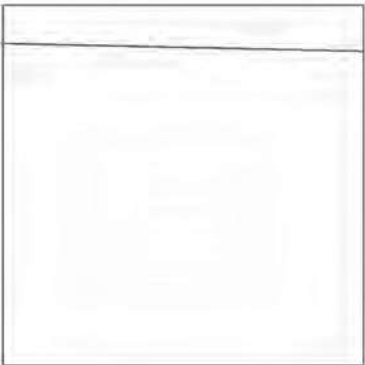
Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1876
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

282917.86237392283,
211100.677756288

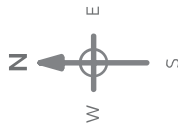
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

Map date: 1877

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

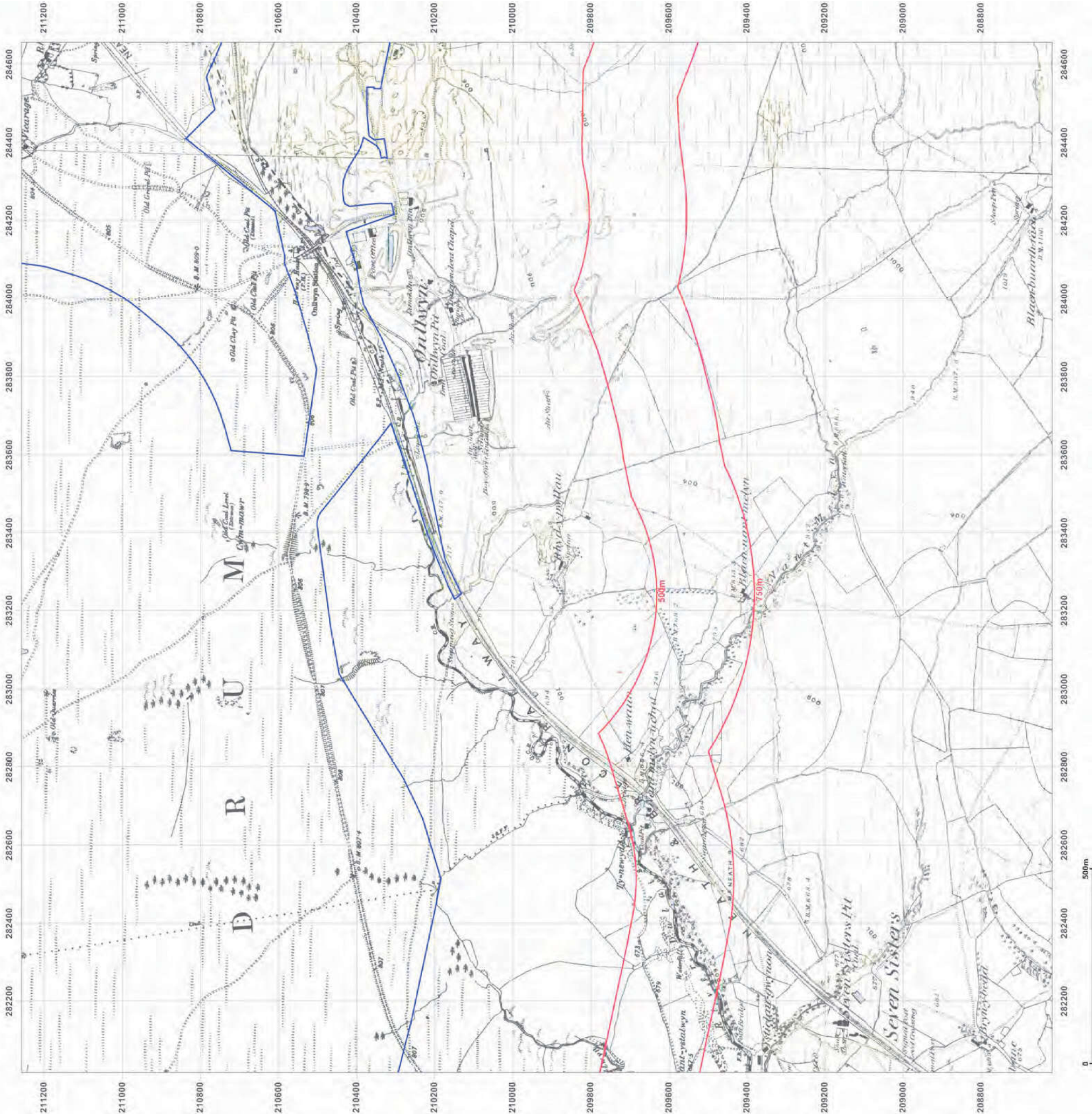


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

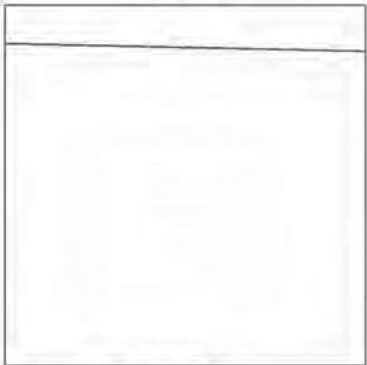
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:		
282917.86237392283, 211100.677756288		
Client Ref:	GCORE	
Report Ref:	GS-6396071_SS_2_1	
Grid Ref:	283336, 209937	
Map Name:	County Series	
Map date:	1900-1903	
Scale:	1:10,560	
Printed at:	1:10,560	



Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

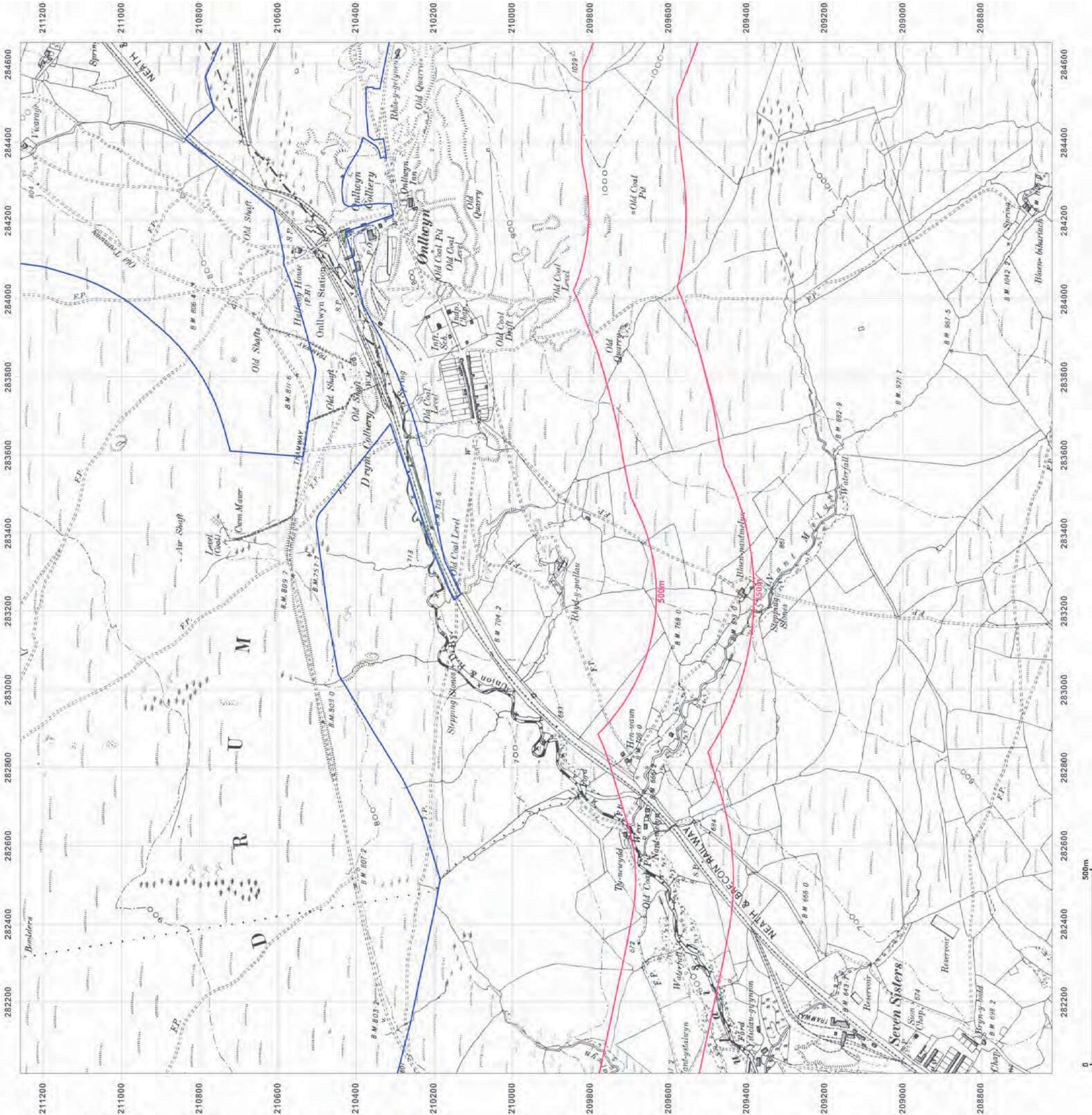


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

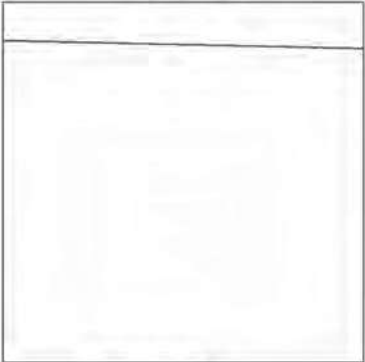
Map date: 1901-1903

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

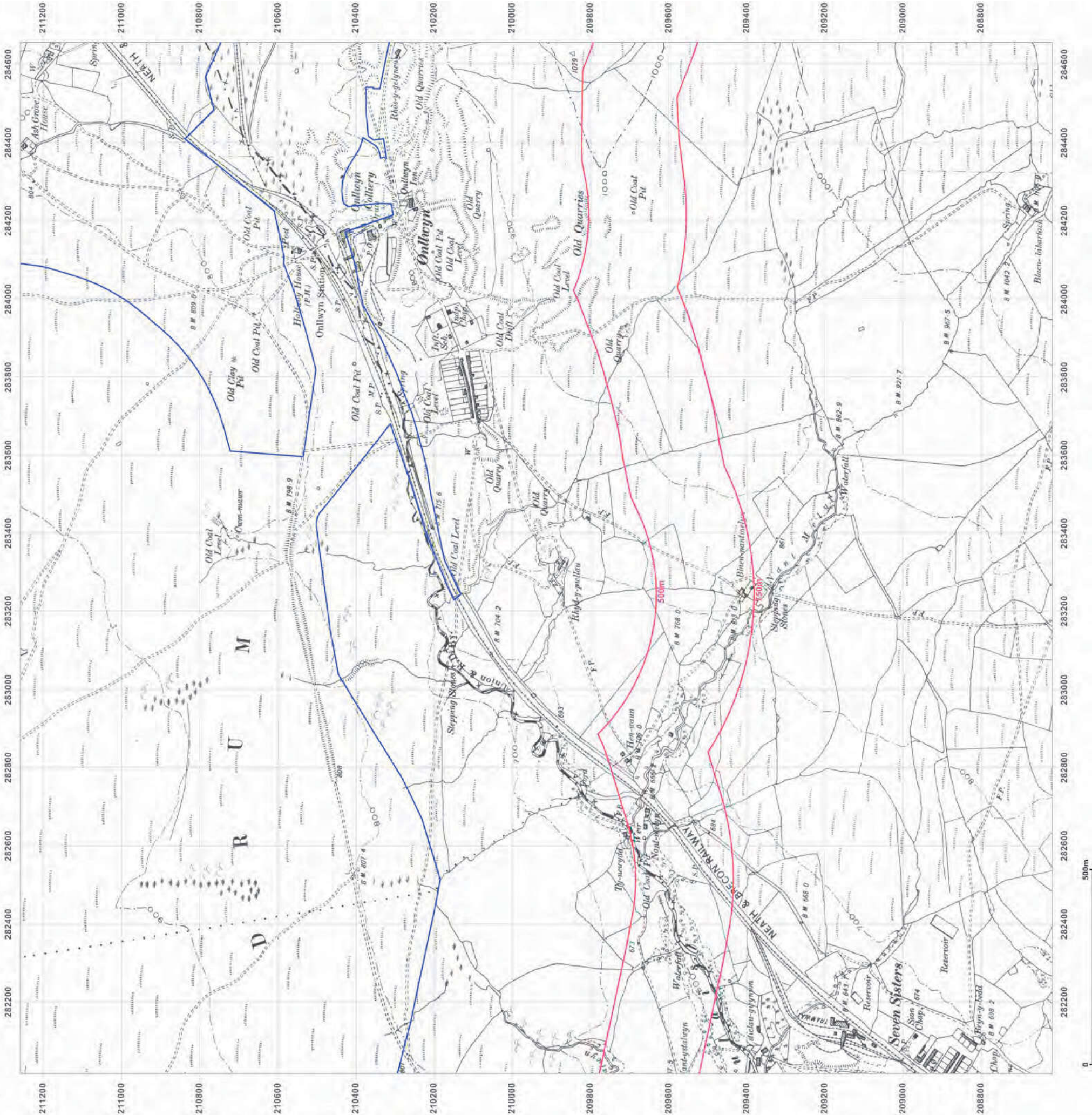


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

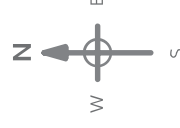
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

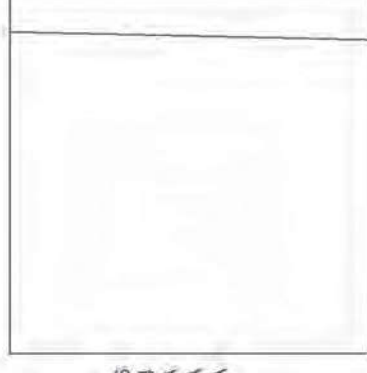
Map date: 1914

Scale: 1:10,560

Printed at: 1:10.560



Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

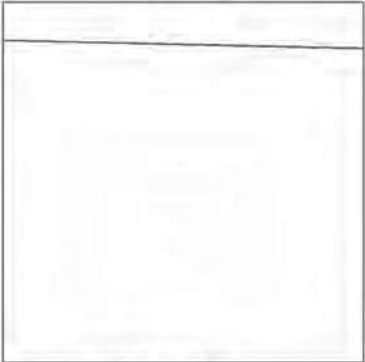
Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:		
282917.86237392283, 211100.677756288		
Client Ref:	GCORE	
Report Ref:	GS-6396071_SS_2_1	
Grid Ref:	283336, 209937	
Map Name:	County Series	
Map date:	1921	
Scale:	1:10,560	
Printed at:	1:10,560	



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

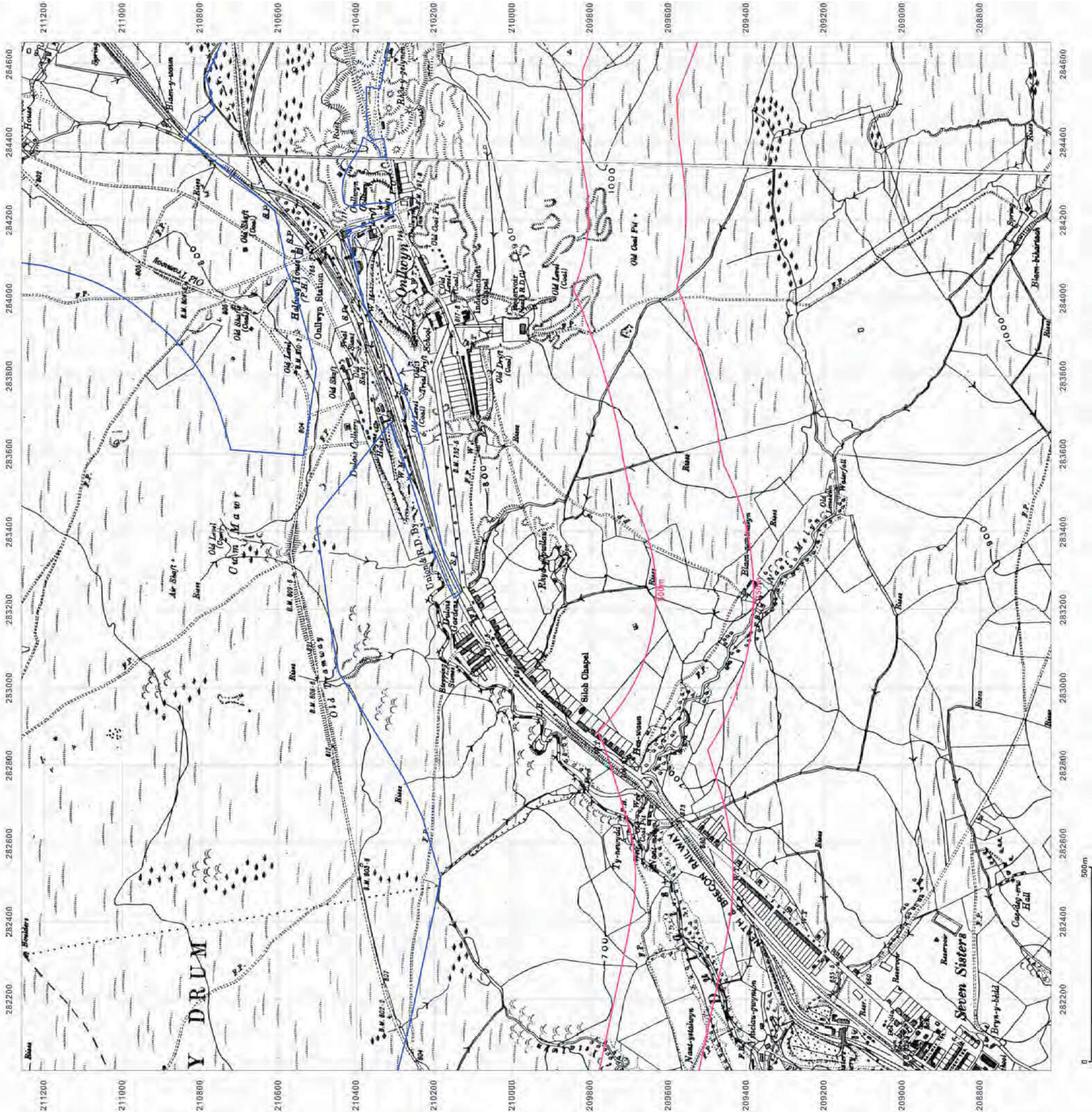


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

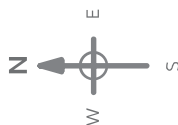
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

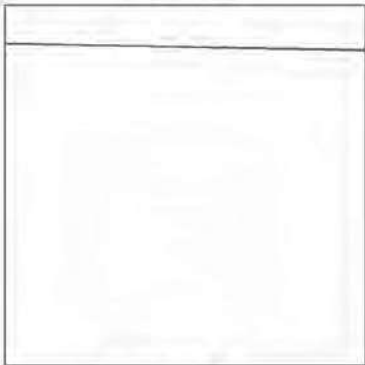
Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1921
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1921
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



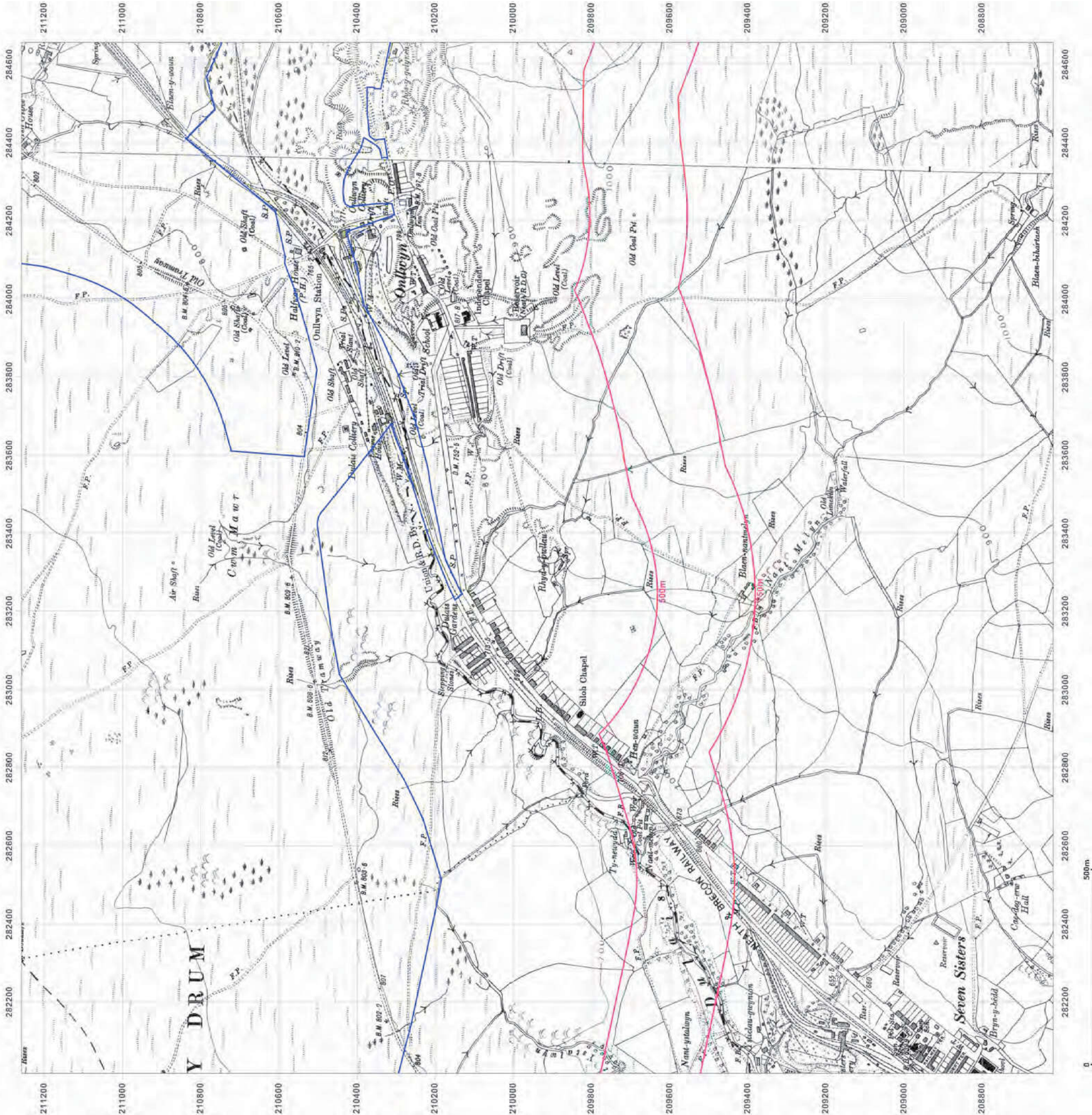
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

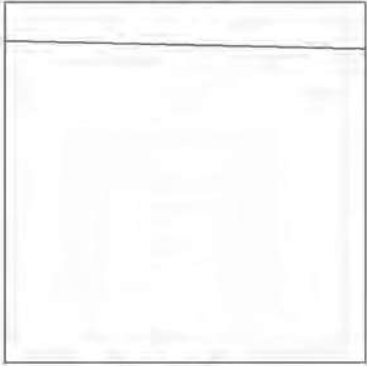
Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1921
Edition 1921
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1921
Edition 1921
Copyright N/A
Levelled N/A



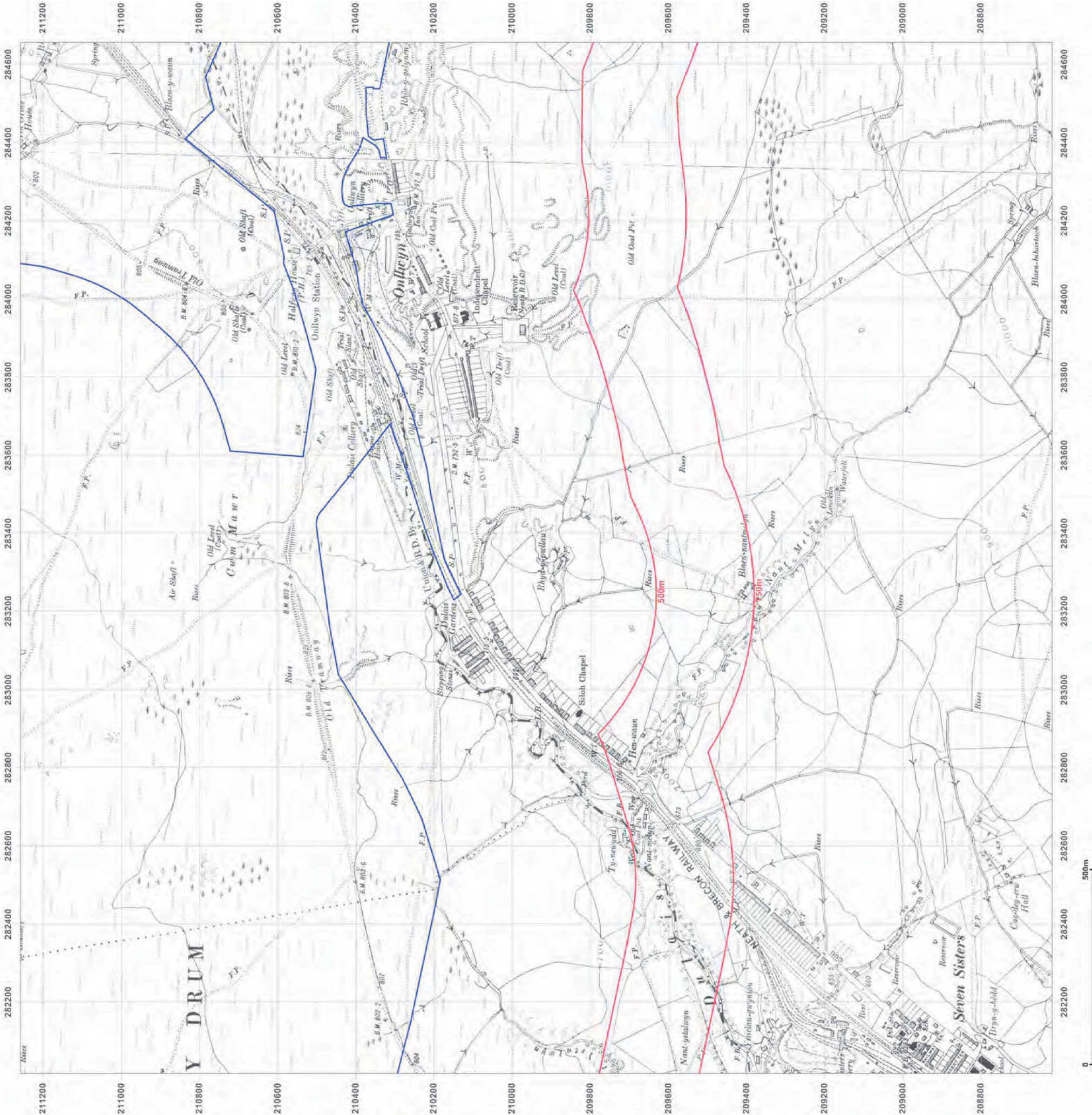
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

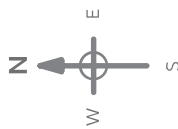
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: County Series

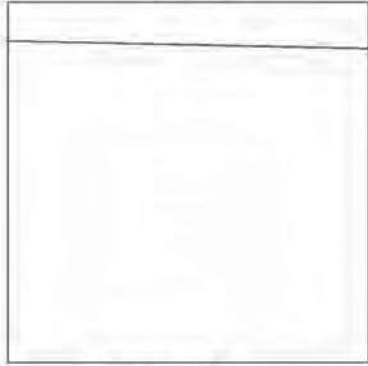
Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

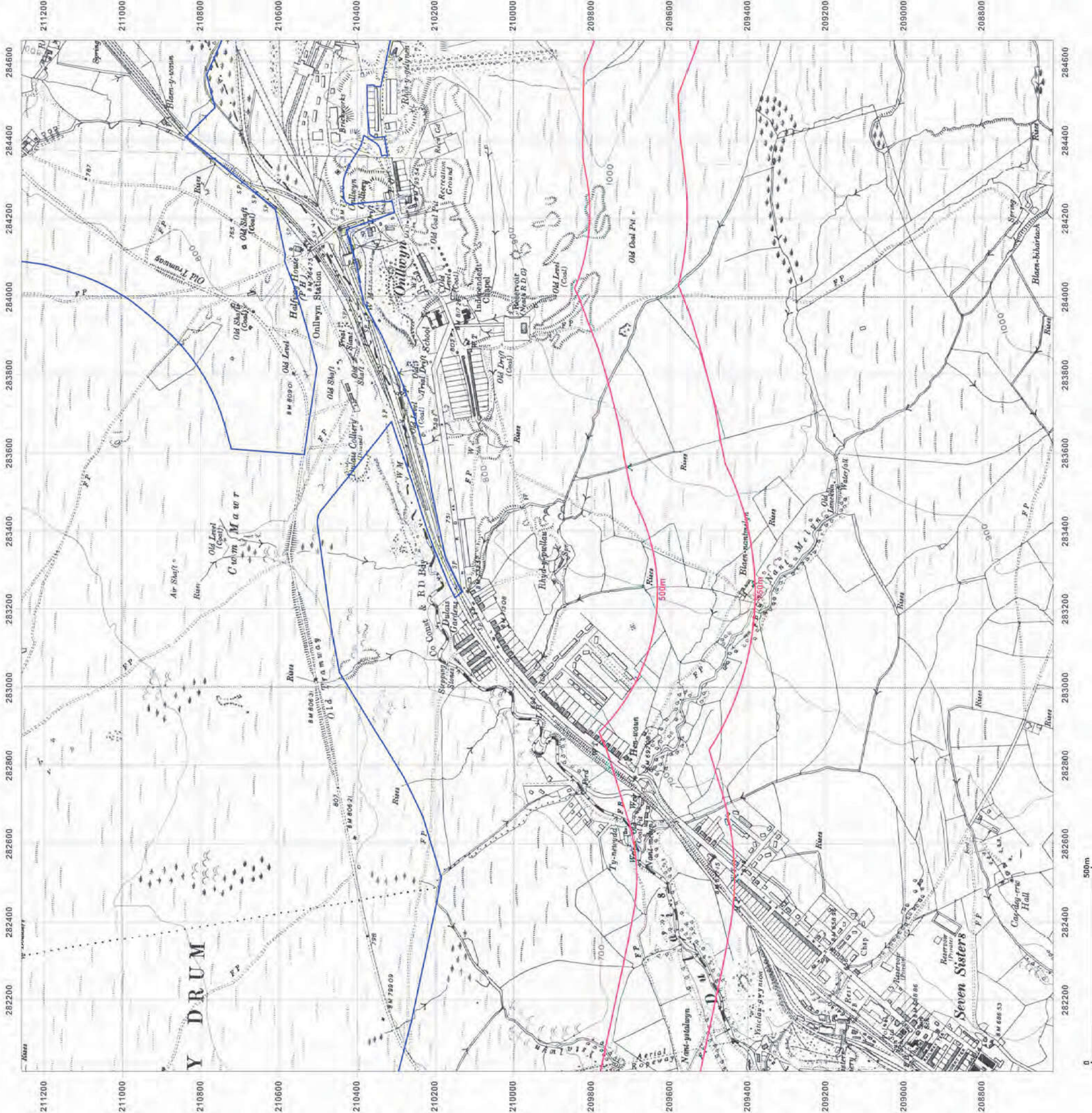


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

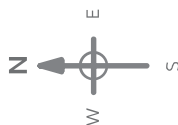
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: Provisional

Map date: 1964-1965

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

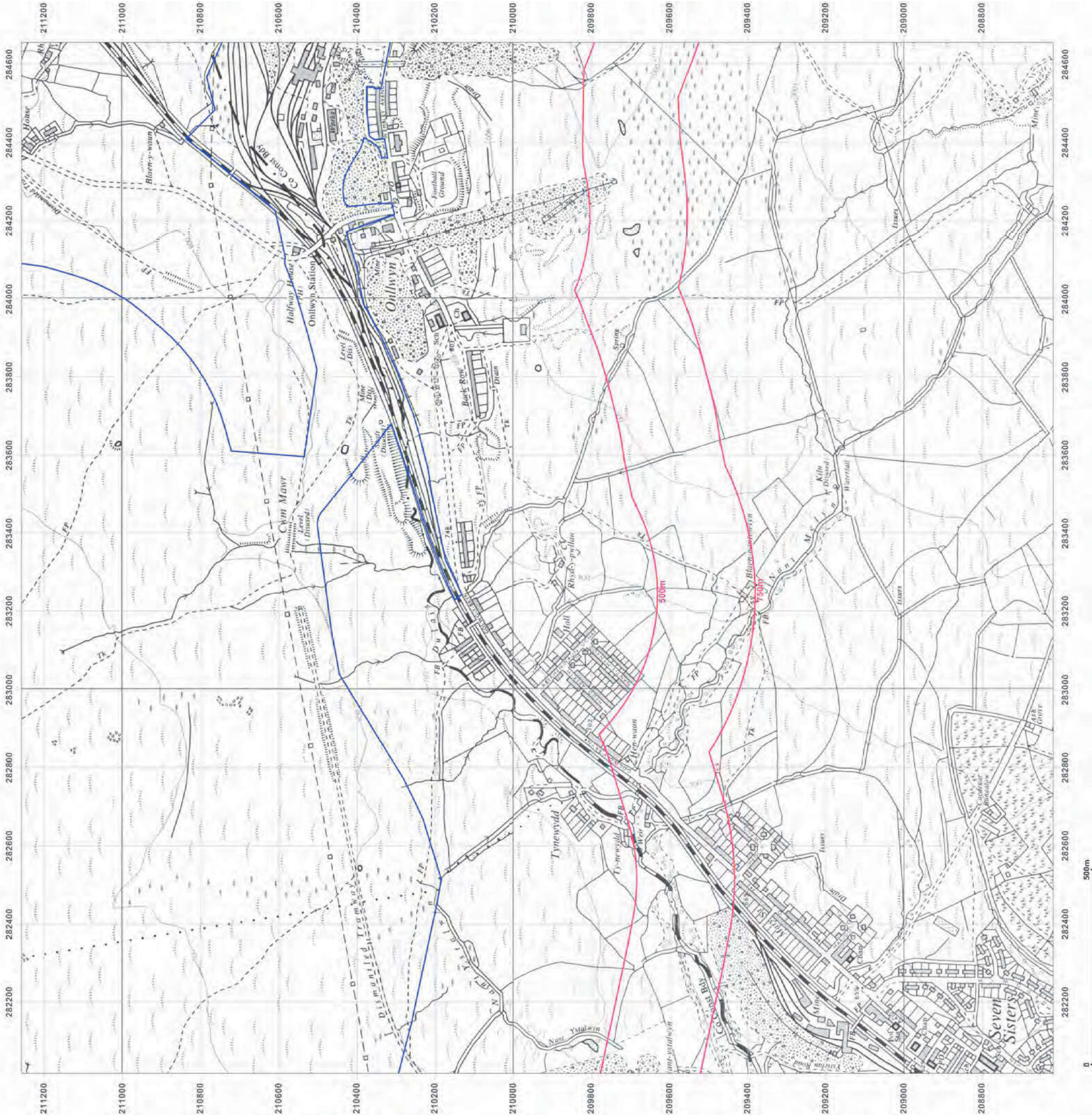


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

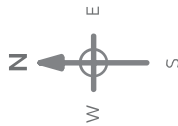
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: National Grid

Map date: 1987-1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1962
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

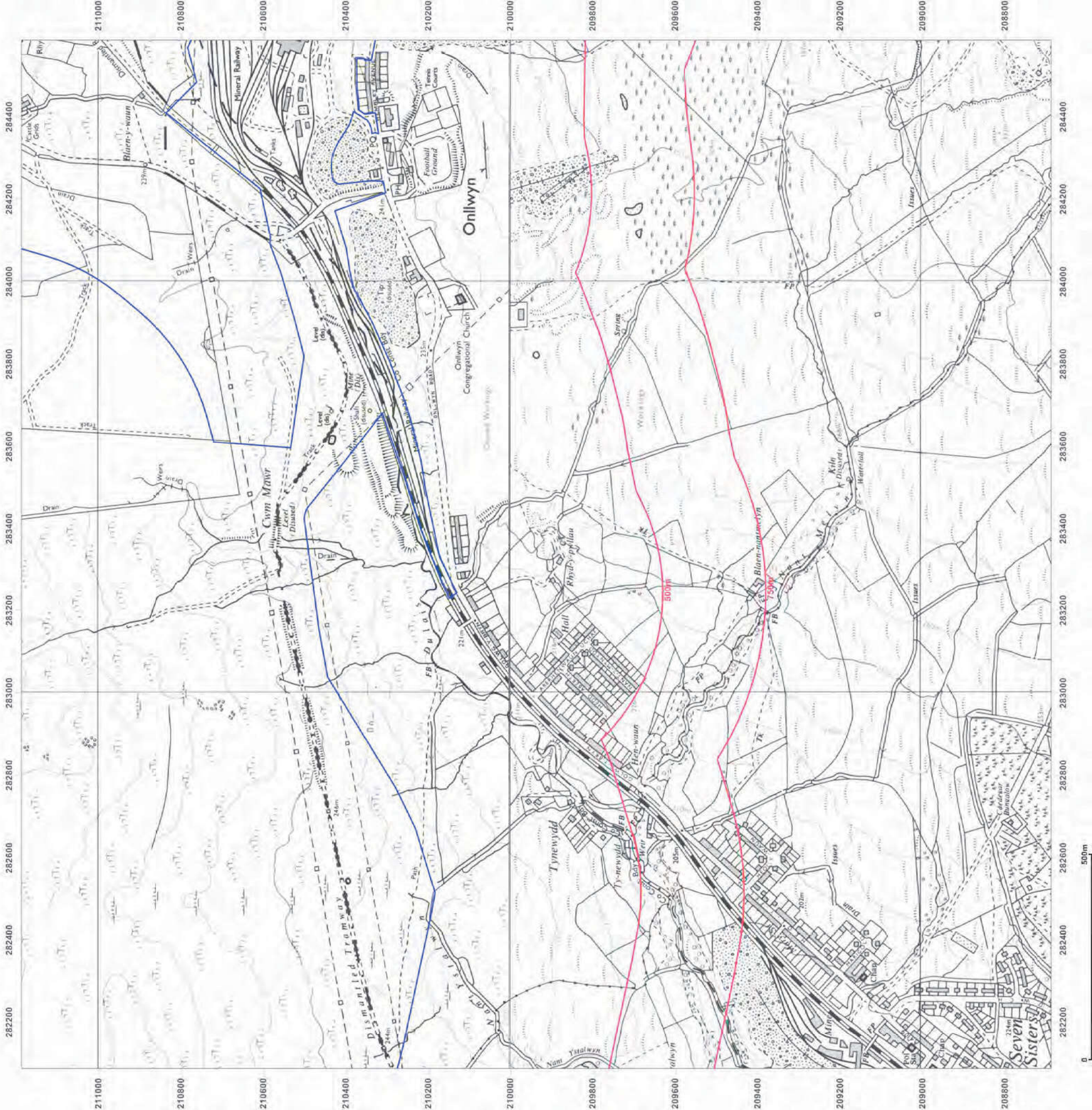


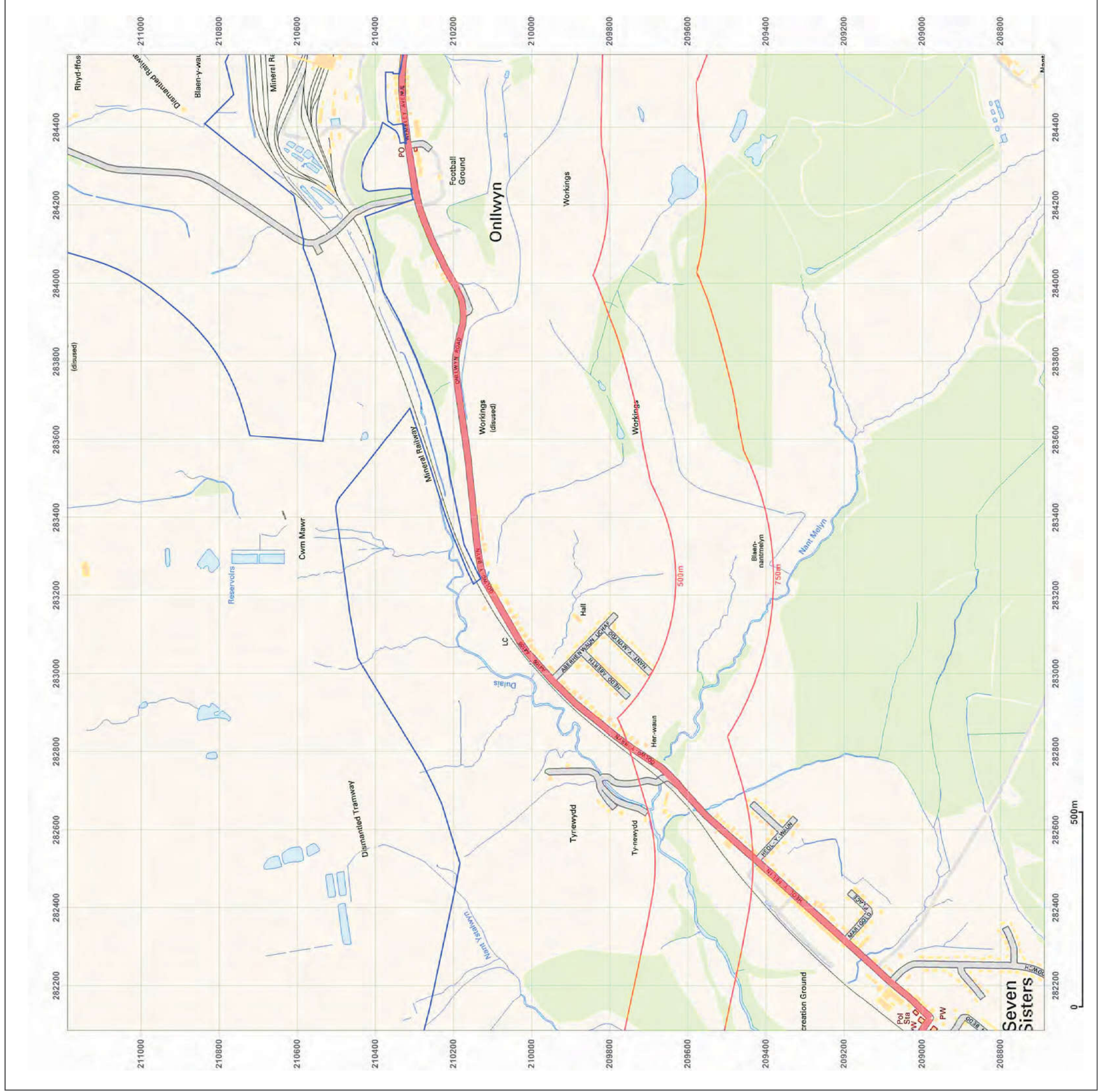
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





282917.86237392283,
211100.677756288

Map Name: National Grid

Scale: 1:10,000



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsurre_legend.pdf

Site Details: 282917.86237392283, 211100.677756288	
Client Ref: GCORE	Report Ref: GS-6396071_SS_2_1
	Grid Ref: 283336, 209937
Map Name: National Grid	
Map date: 2010	
Scale: 1:10,000	
Printed at: 1:10,000	

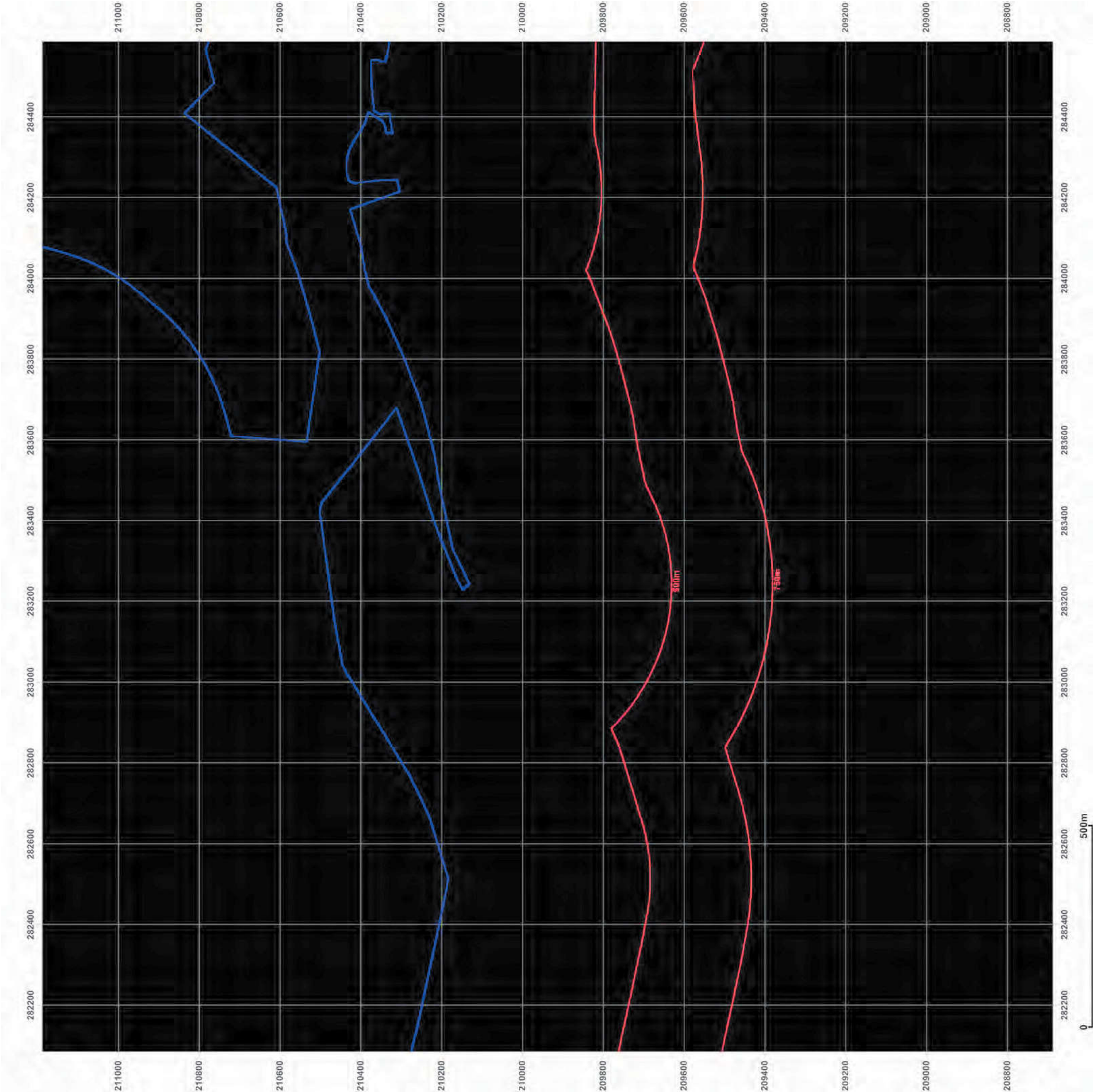


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

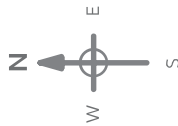
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_1
Grid Ref: 283336, 209937

Map Name: National Grid

Map date: 2019

Scale: 1:10,000

Printed at: 1:10,000

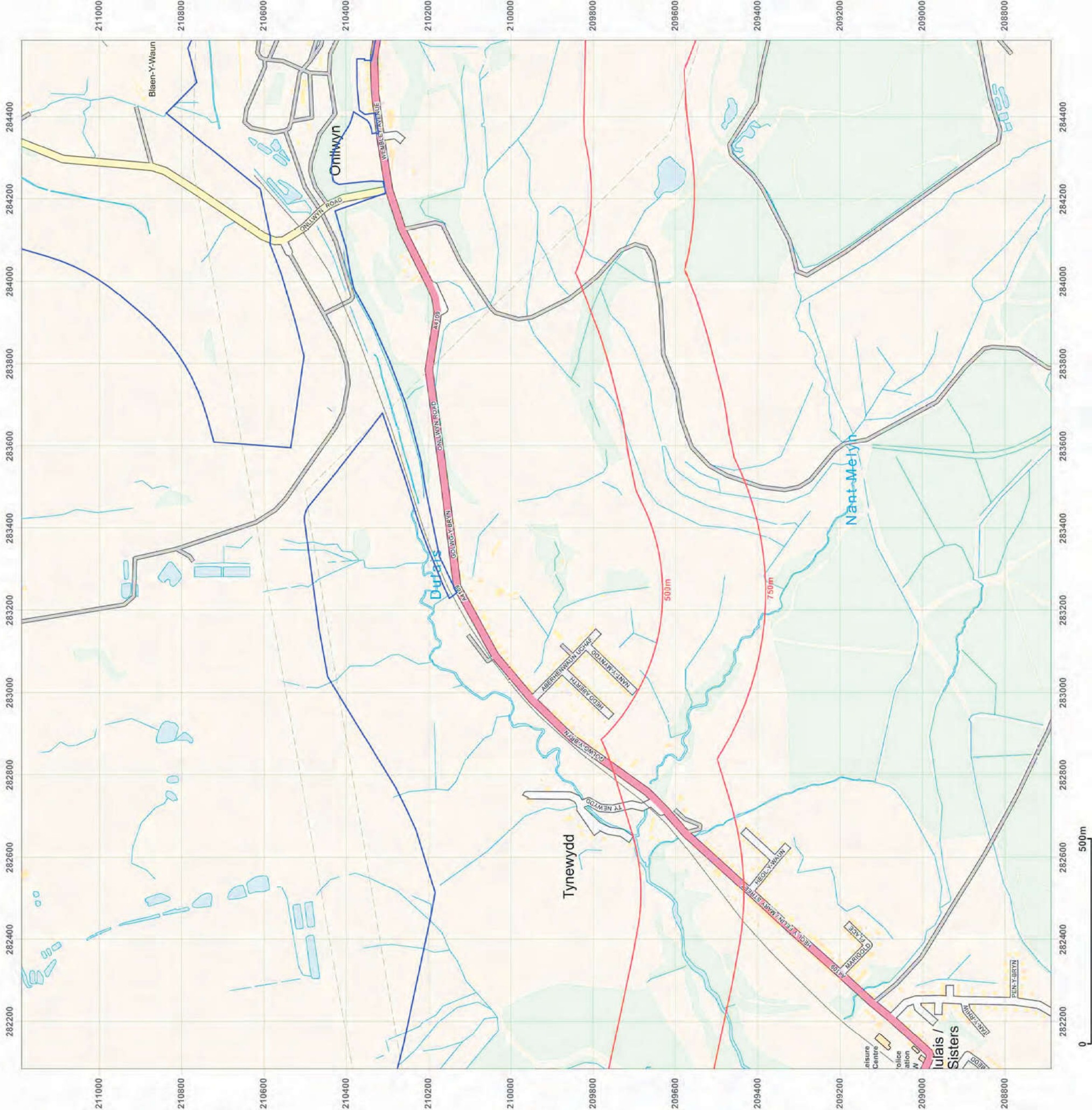


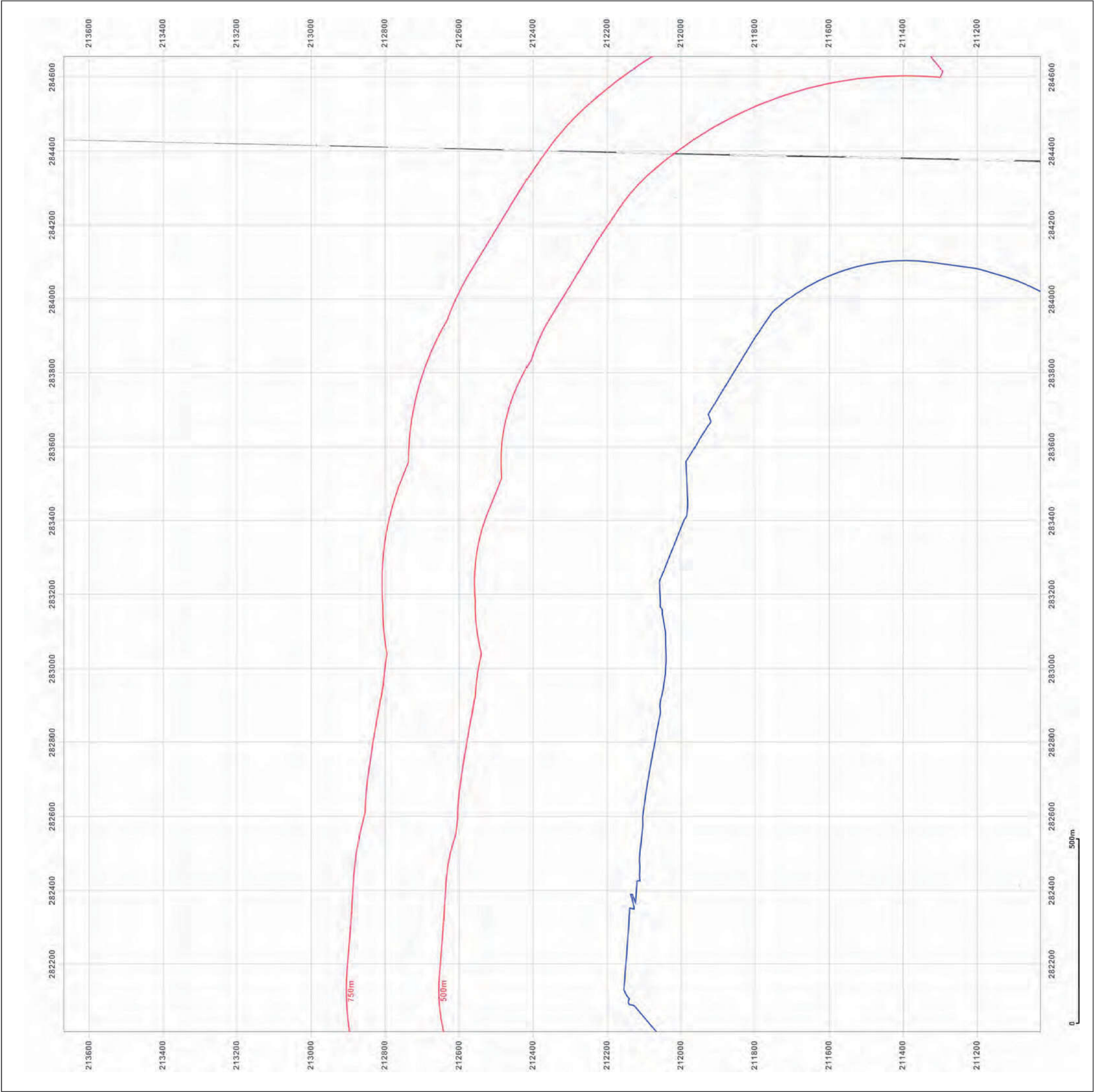
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

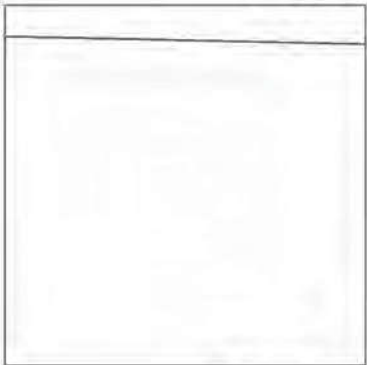
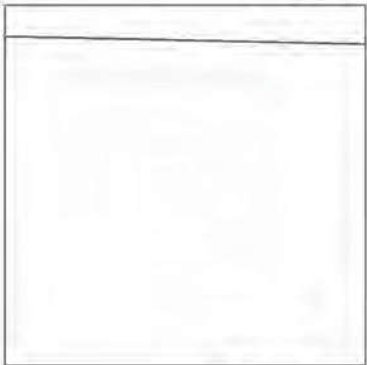
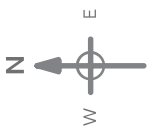
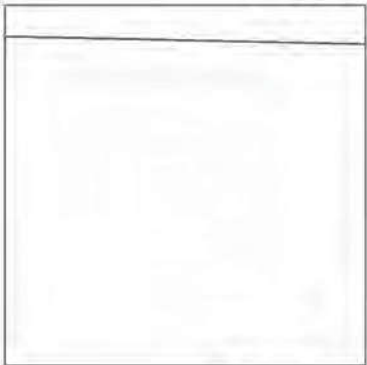
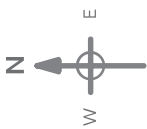
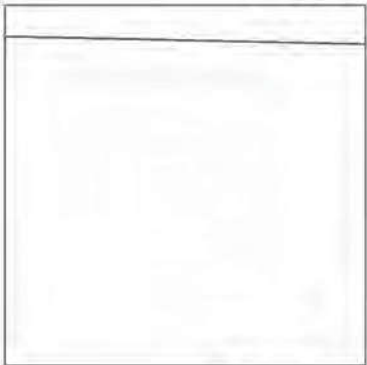
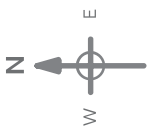
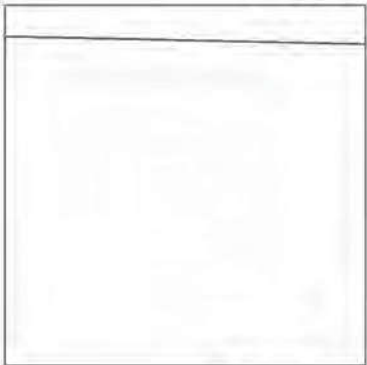
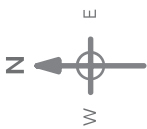
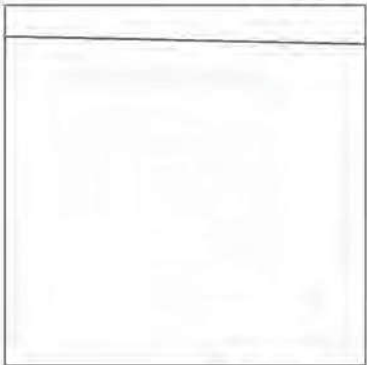
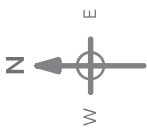
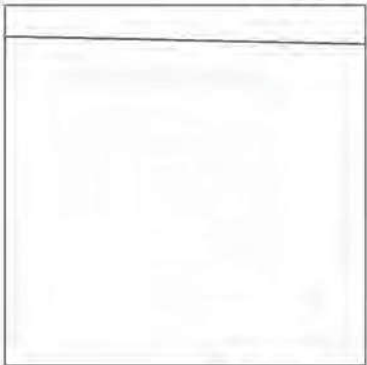
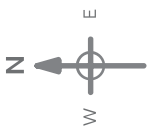
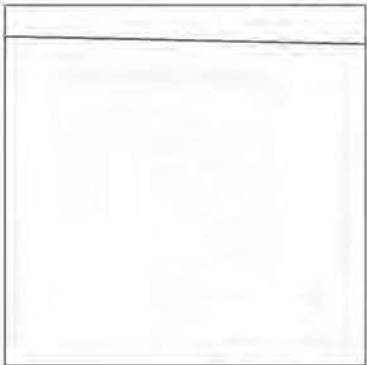
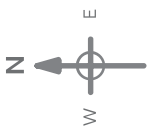
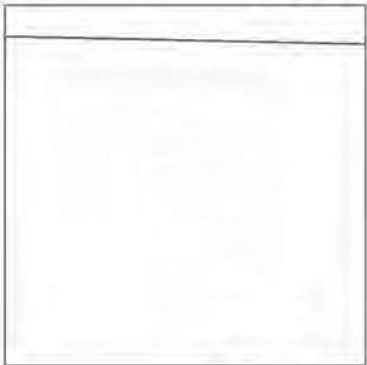
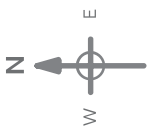
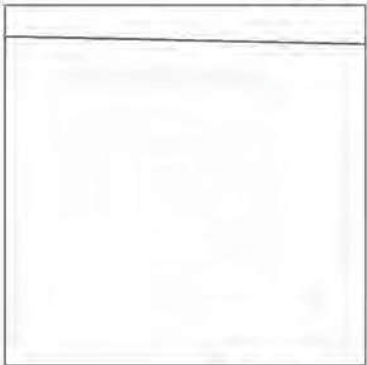
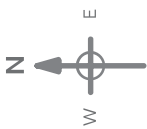
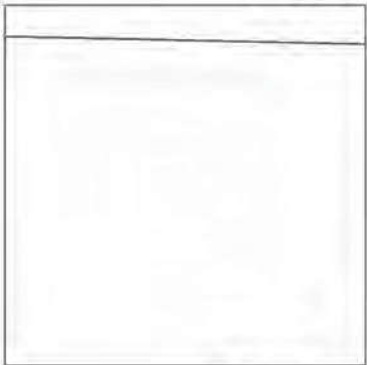
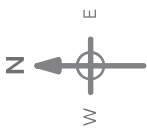
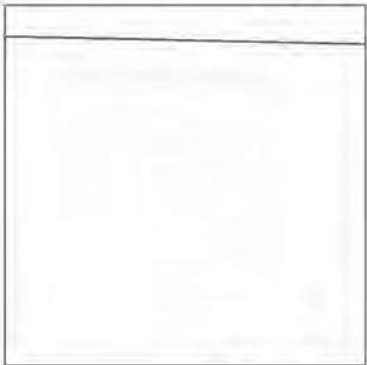
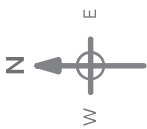
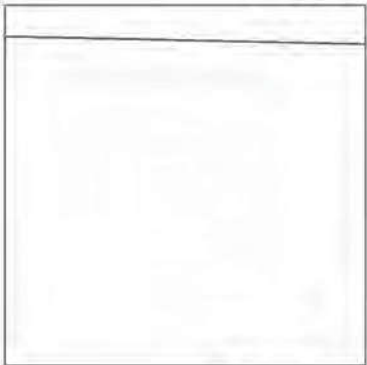
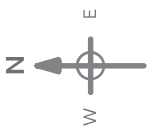
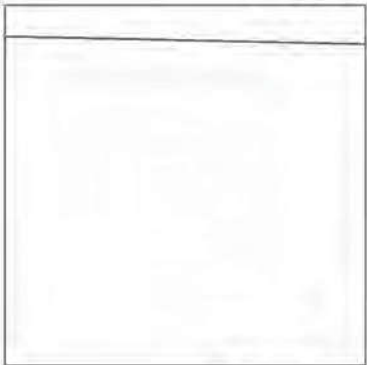
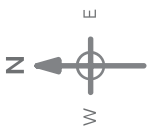
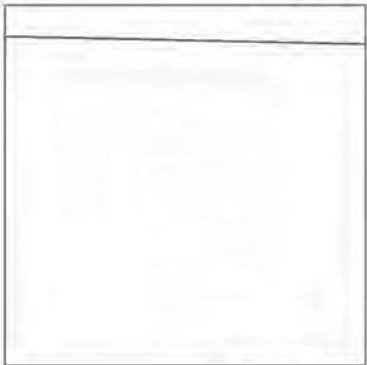
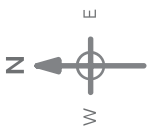
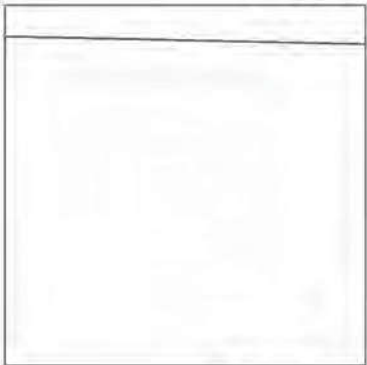
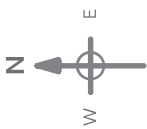
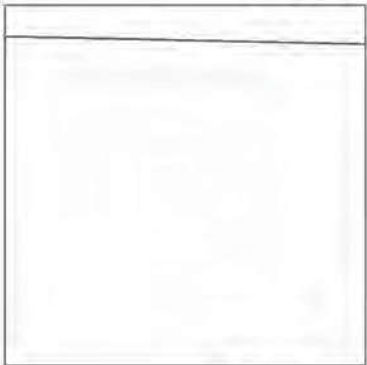
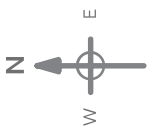
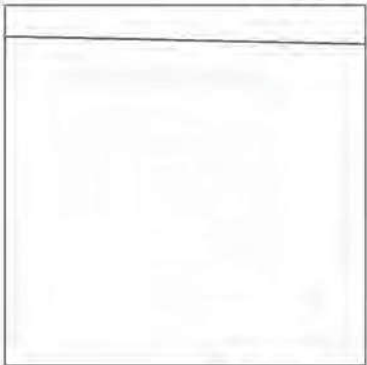
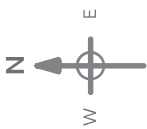
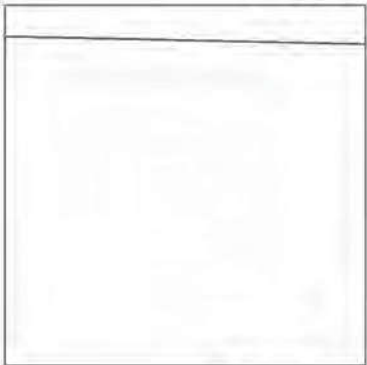
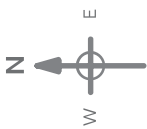
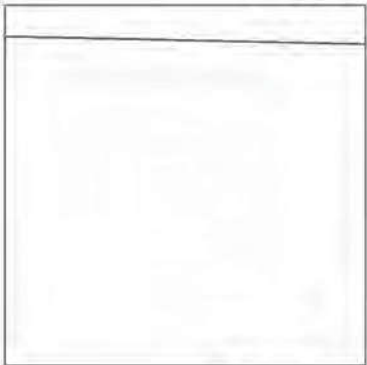
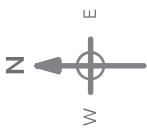
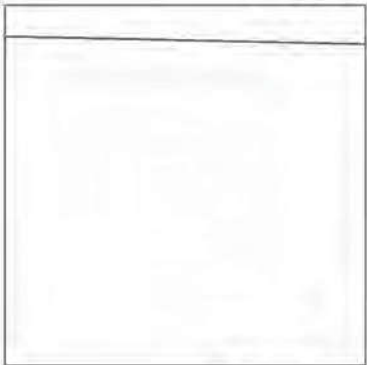
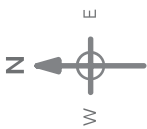
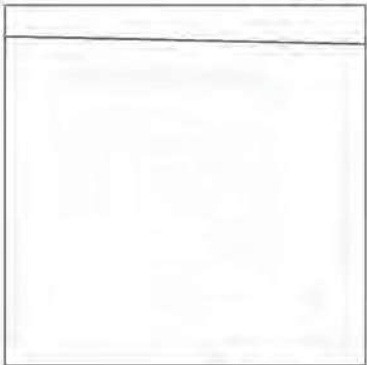
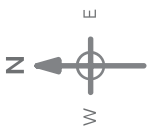
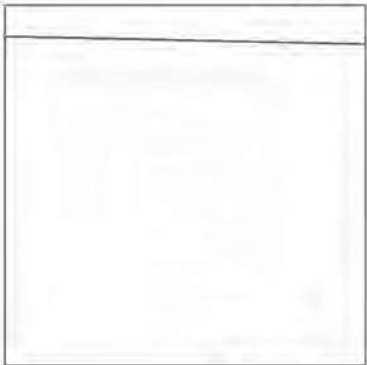
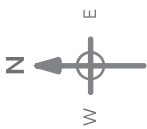
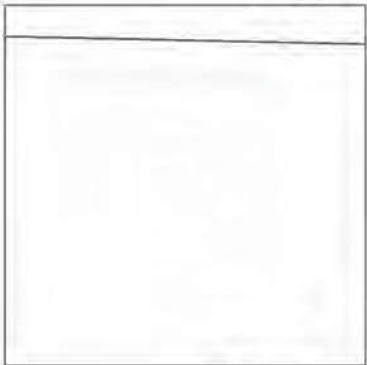
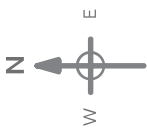
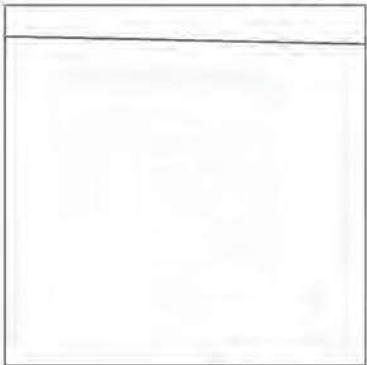
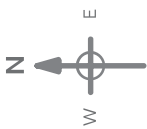
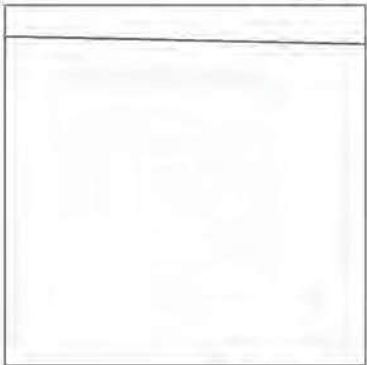
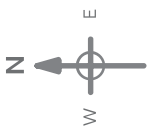
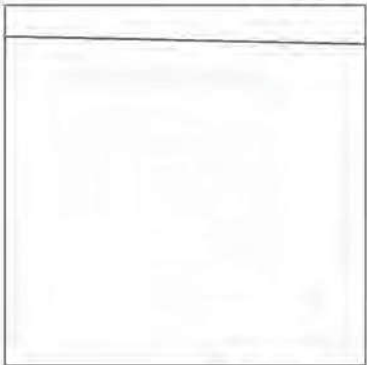
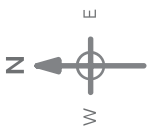
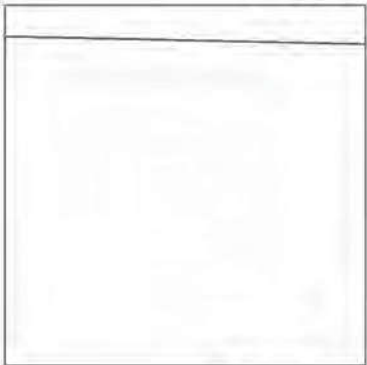
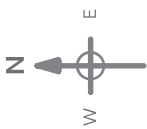
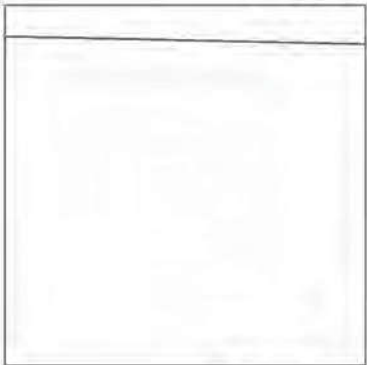
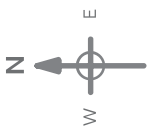
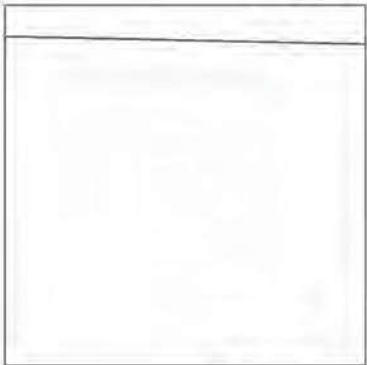
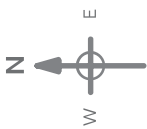
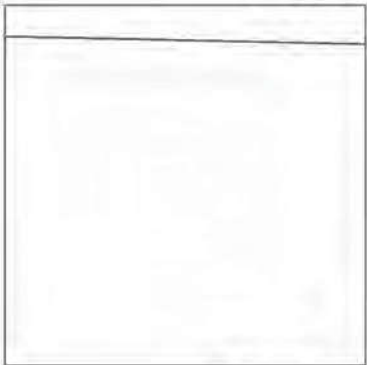
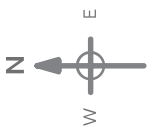
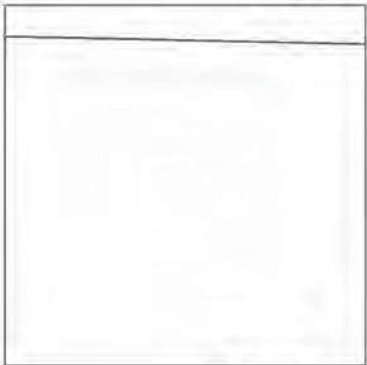
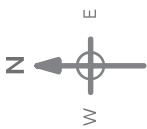
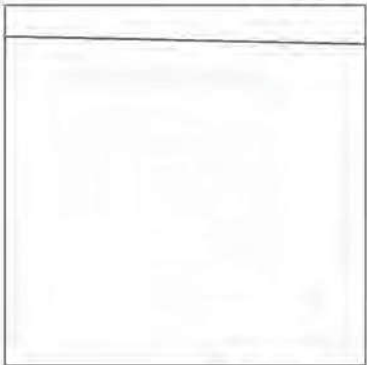
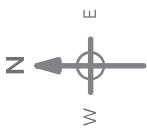
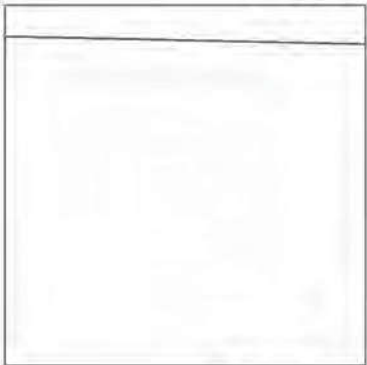
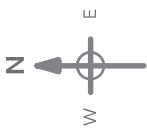
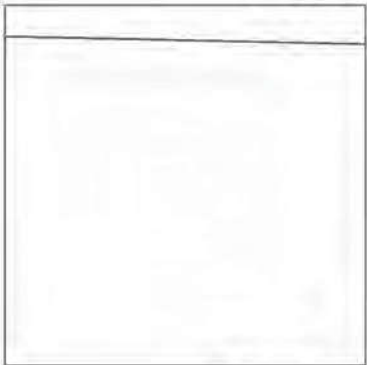
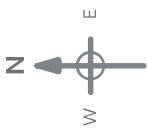
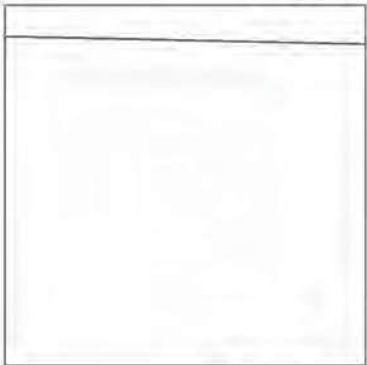
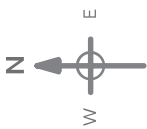
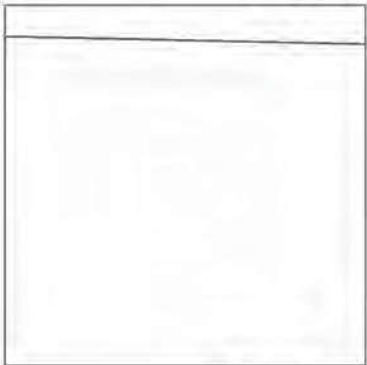
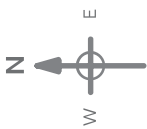
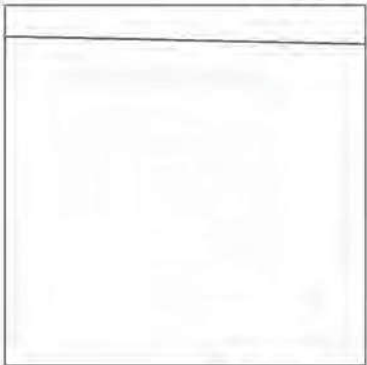
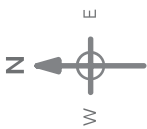
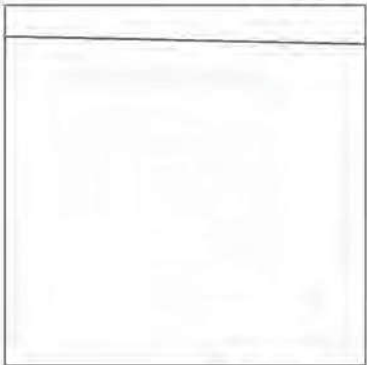
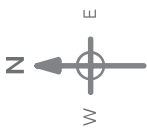
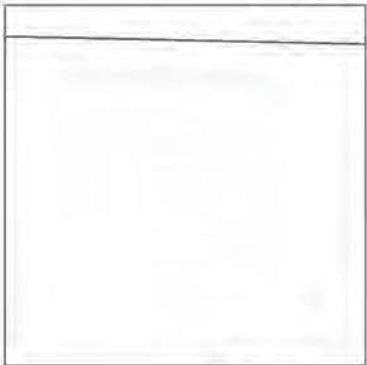
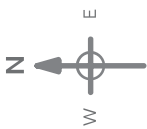
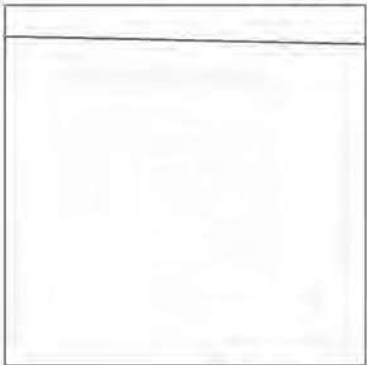
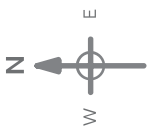
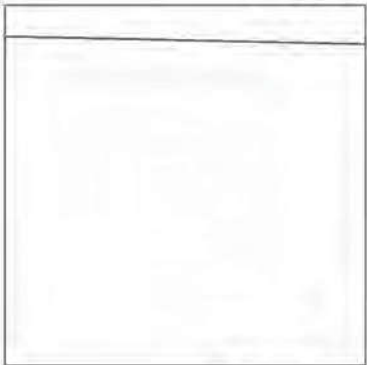
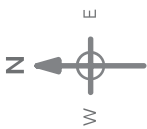
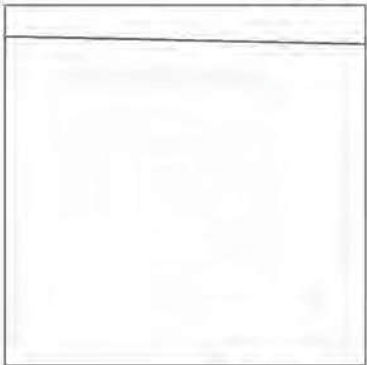
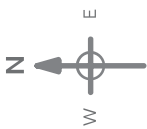
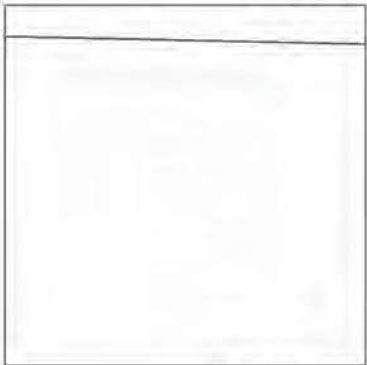
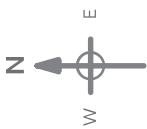
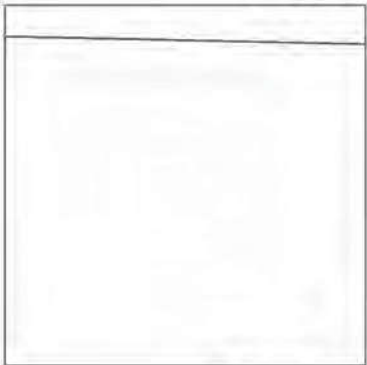
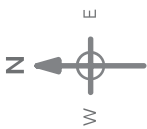
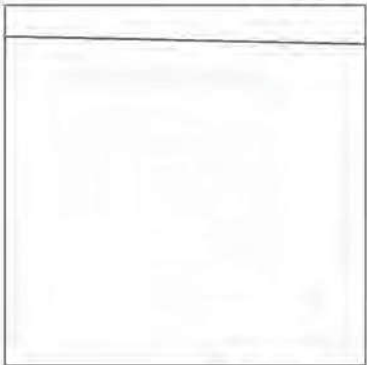
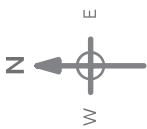
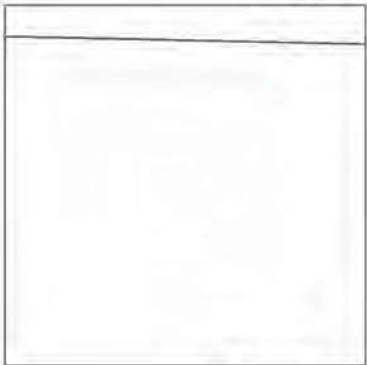
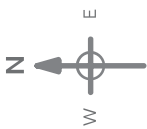
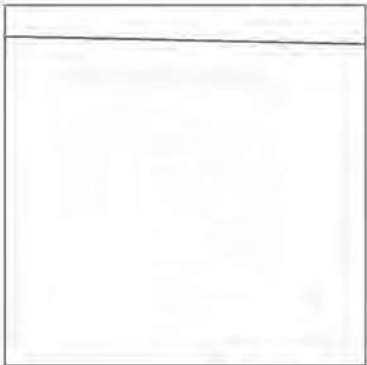
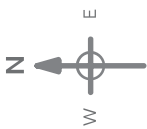
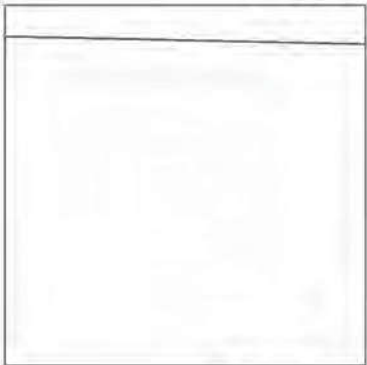
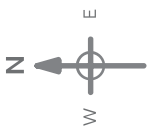
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





Site Details: 282917.86237392283, 211100.677756288					
Client Ref: GCORE Report Ref: GS-6396071_SS_2_2 Grid Ref: 283336, 212347					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale: 1:10,560					
Printed at: 1:10,560					
					
Map Name: County Series					
Map date: 1876					
Scale:					



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:		
282917.86237392283, 211100.677756288		
Client Ref:	GCORE	
Report Ref:	GS-6396071_SS_2_2	
Grid Ref:	283336, 212347	
Map Name:	County Series	
Map date:	1877	
Scale:	1:10,560	
Printed at:	1:10,560	



Surveyed 1877 Revised 1877 Edition N/A Copyright N/A Levelled N/A		Surveyed 1877 Revised 1877 Edition N/A Copyright N/A Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: County Series

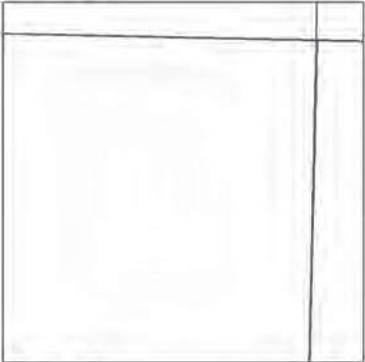
Map date: 1900-1903

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



500m

Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE

Report Ref: GS-6396071_SS_2_2

Grid Ref: 283336, 212347

Map Name: County Series

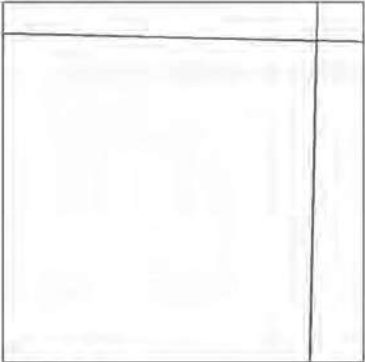
Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1876
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

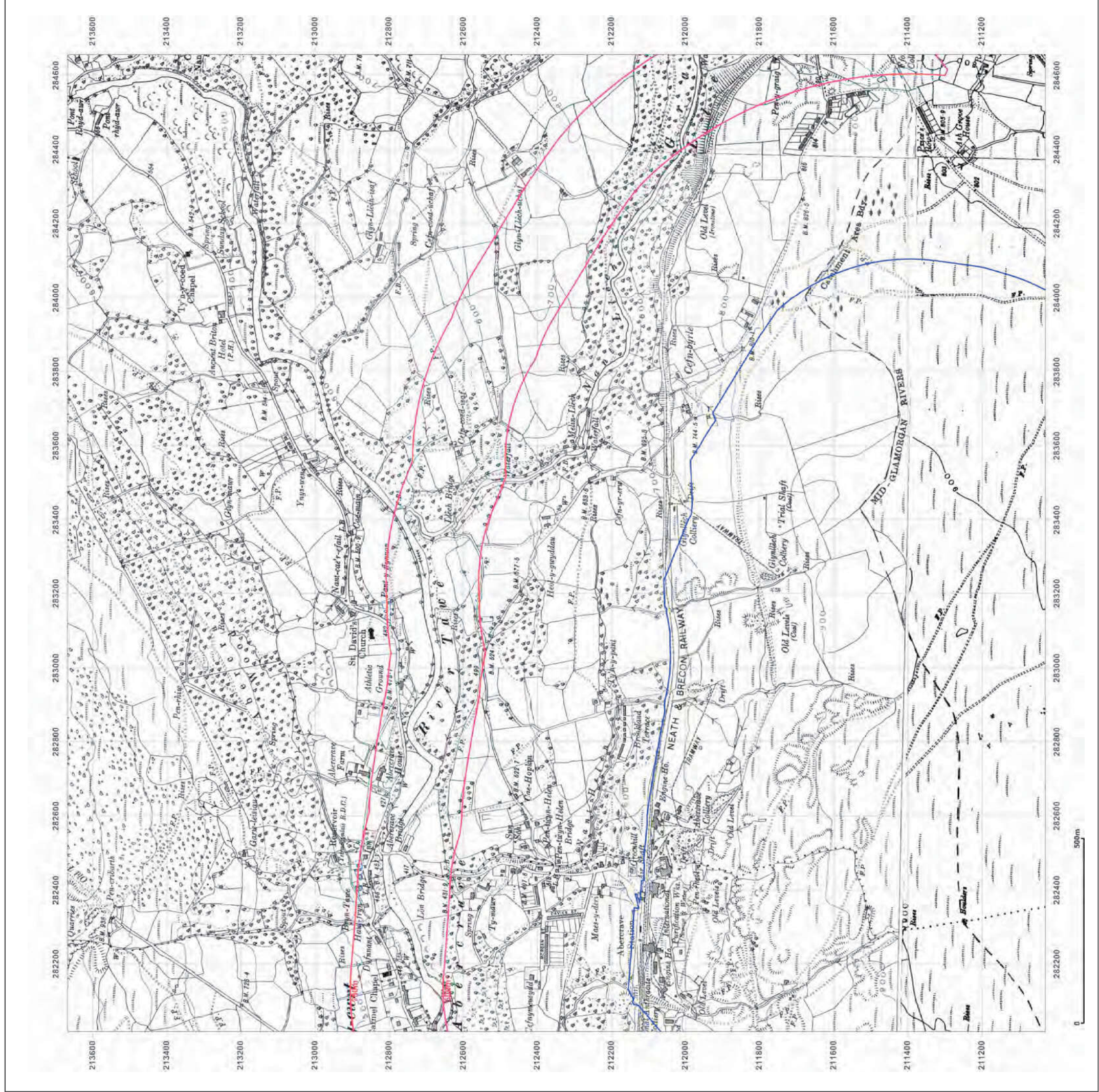
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



0 500m



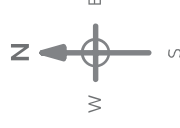
282917.86237392283,
211100.677756288

Map Name: County Series

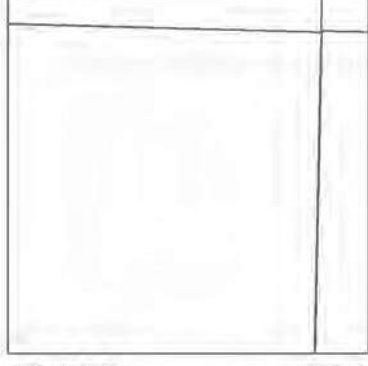
1921

1:10.560

1:10.560



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A



Surveyed N/A	Copyright N/A
Revised N/A	Levelled N/A
Edition N/A	



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:	
282917.86237392283, 211100.677756288	
Client Ref:	GCORE
Report Ref:	GS-6396071_SS_2_2
Grid Ref:	283336, 212347
Map Name:	County Series
Map date:	1921
Scale:	1:10,560
Printed at:	1:10,560



Surveyed 1876 Revised 1921 Edition 1921 Copyright N/A Levelled N/A		Surveyed 1876 Revised 1921 Edition 1921 Copyright N/A Levelled N/A
Surveyed 1921 Revised N/A Edition N/A Copyright N/A Levelled N/A		Surveyed 1921 Revised N/A Edition N/A Copyright N/A Levelled N/A



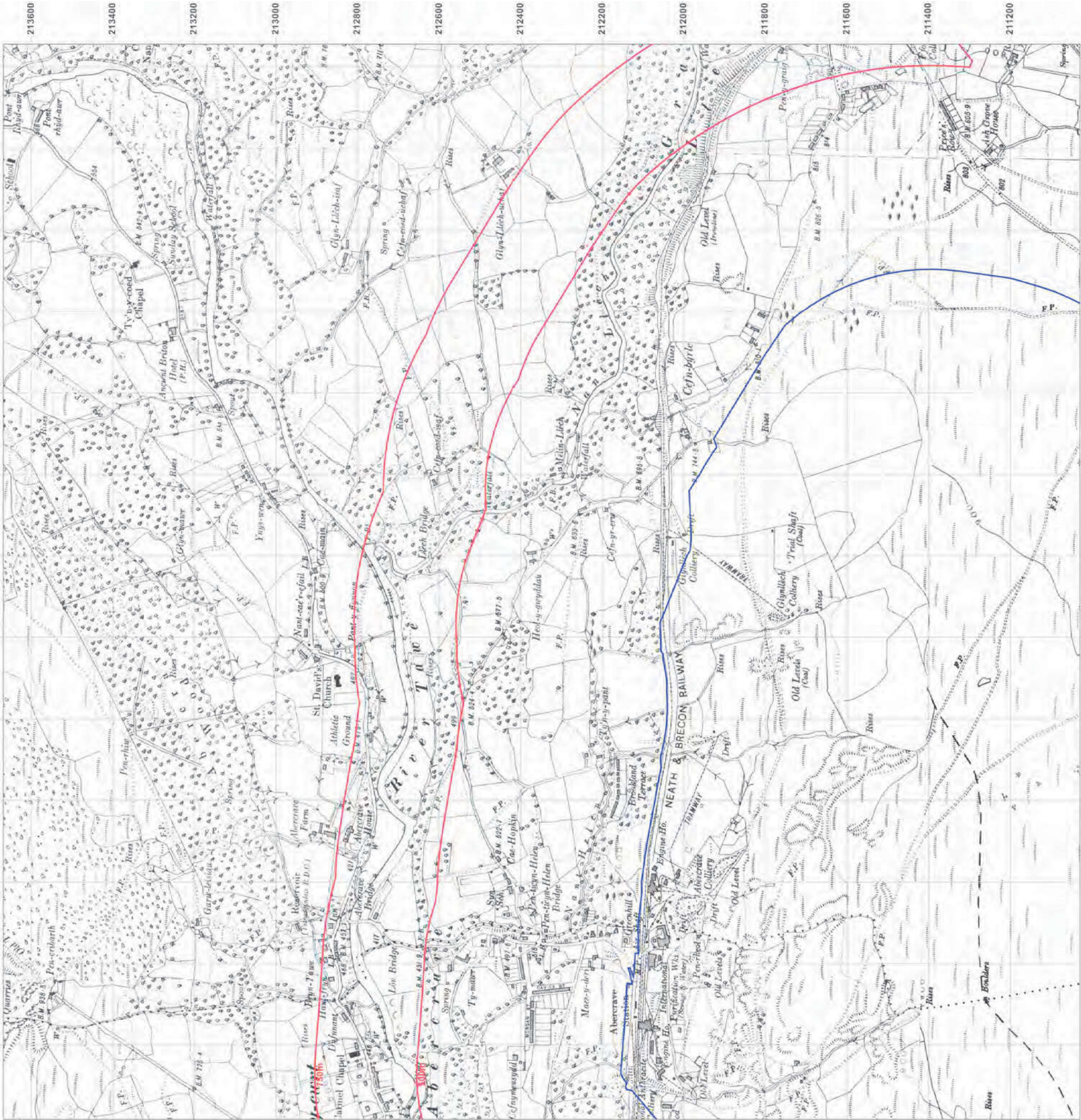
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876 Revised 1948 Edition N/A Copyright N/A Levelled N/A		Surveyed 1876 Revised 1948 Edition N/A Copyright N/A Levelled N/A
Surveyed 1876 Revised 1948 Edition N/A Copyright N/A Levelled N/A		Surveyed 1876 Revised 1948 Edition N/A Copyright N/A Levelled N/A



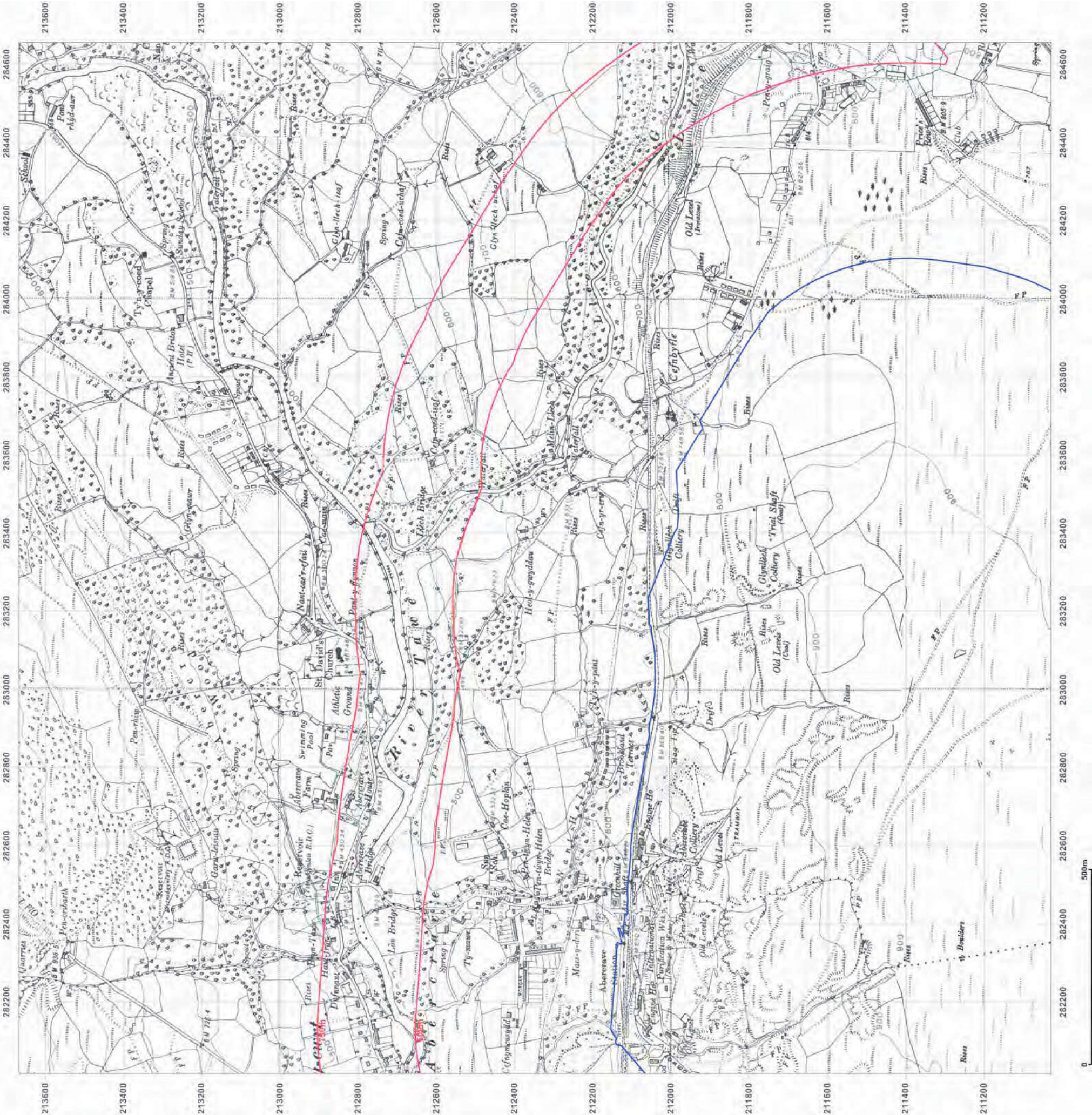
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

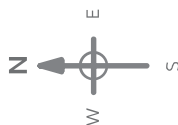
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: Provisional

Map date: 1965

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A



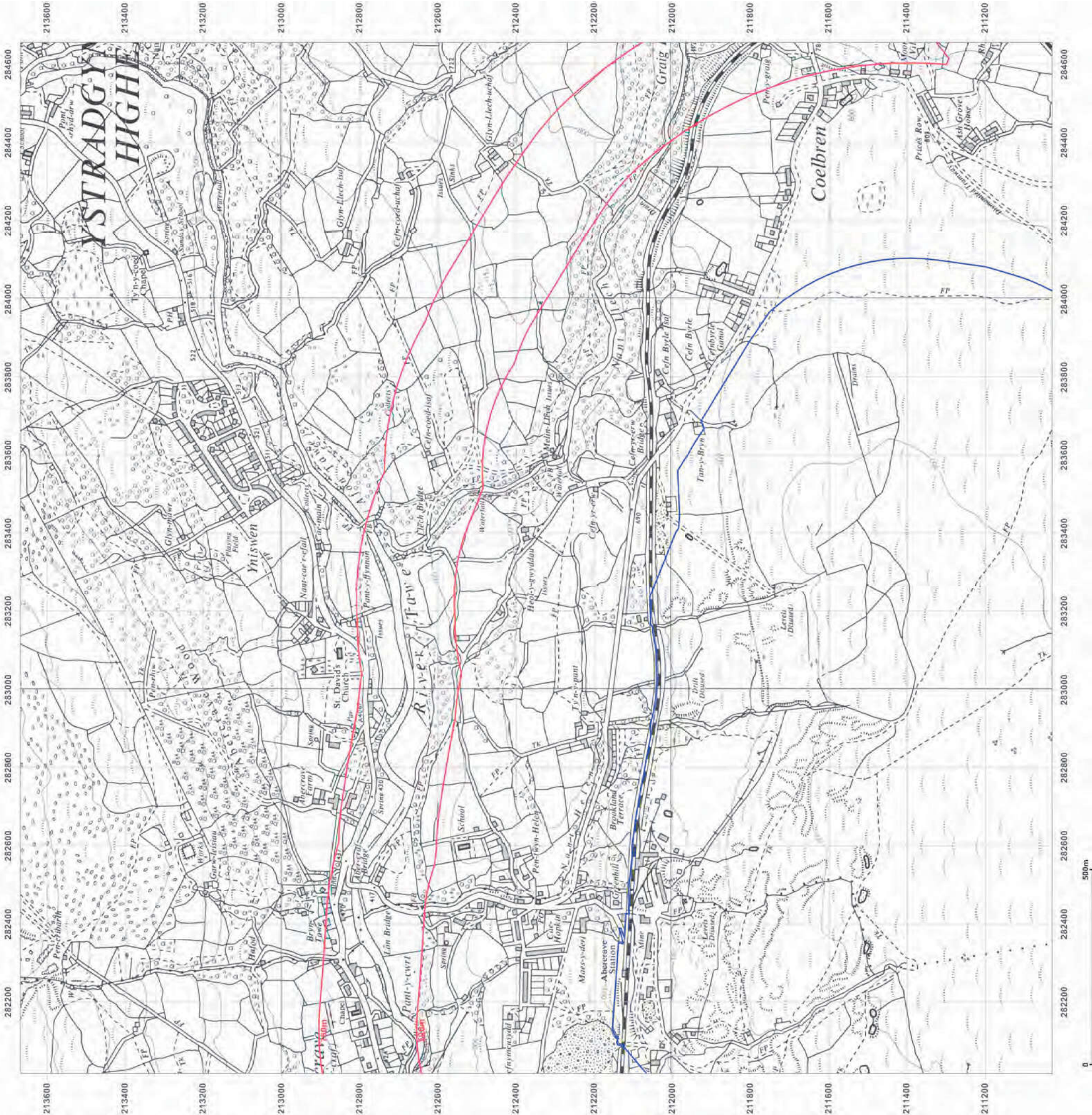
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

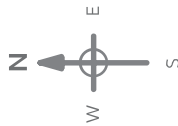
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: National Grid

Map date: 1987

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

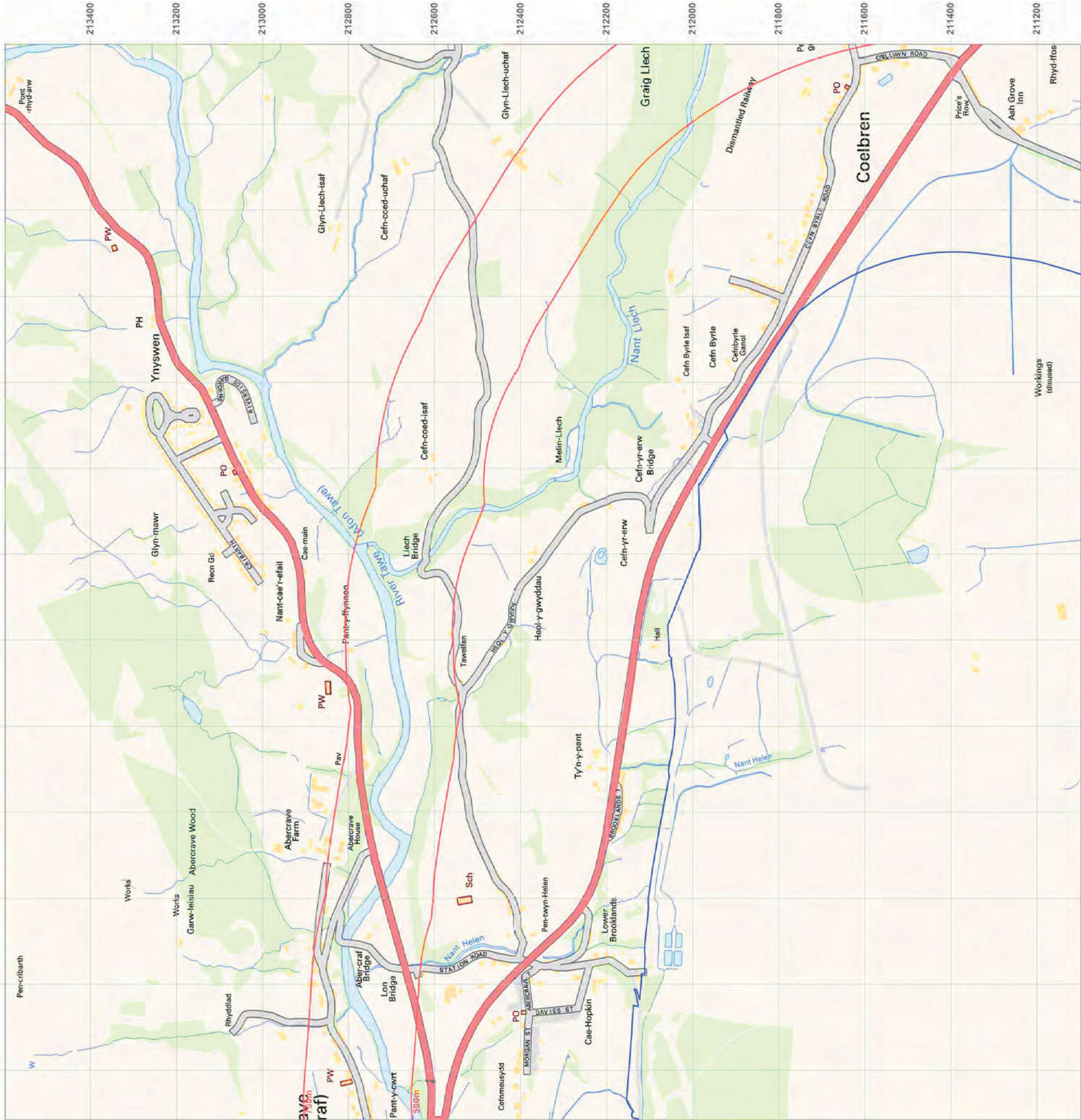


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

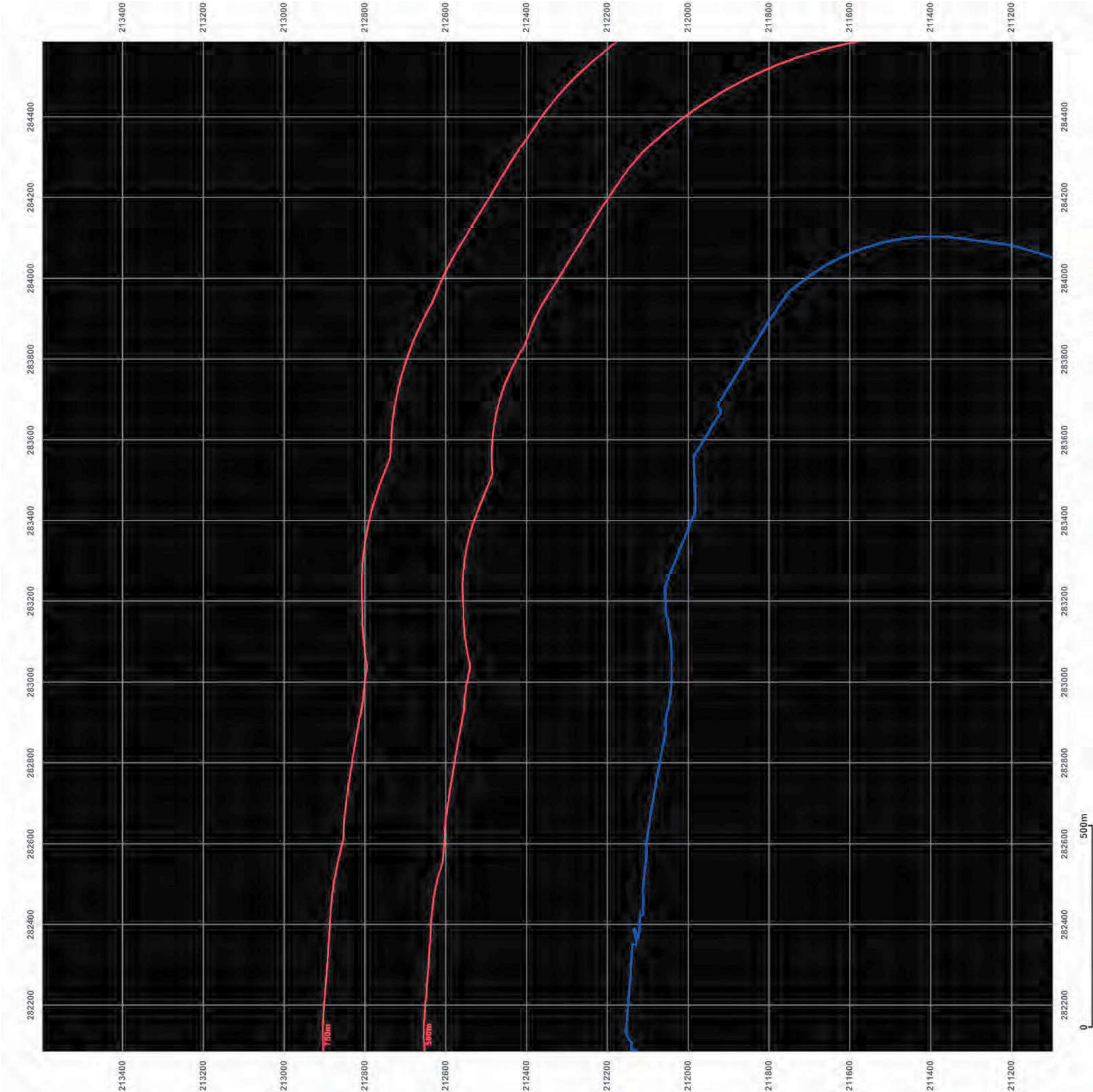


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

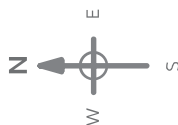
Client Ref: GCORE
Report Ref: GS-6396071_SS_2_2
Grid Ref: 283336, 212347

Map Name: National Grid

Map date: 2019

Scale: 1:10,000

Printed at: 1:10,000

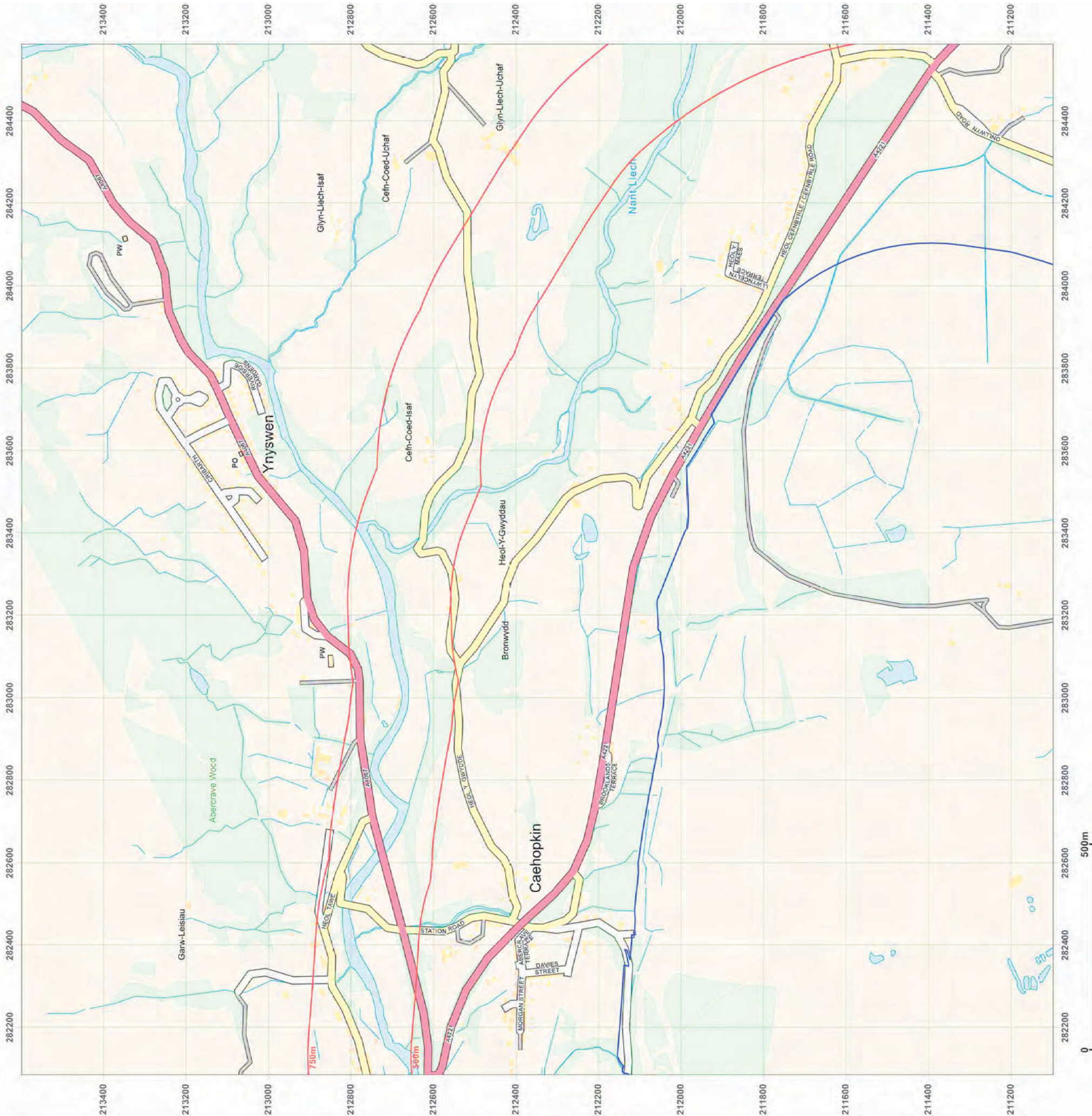


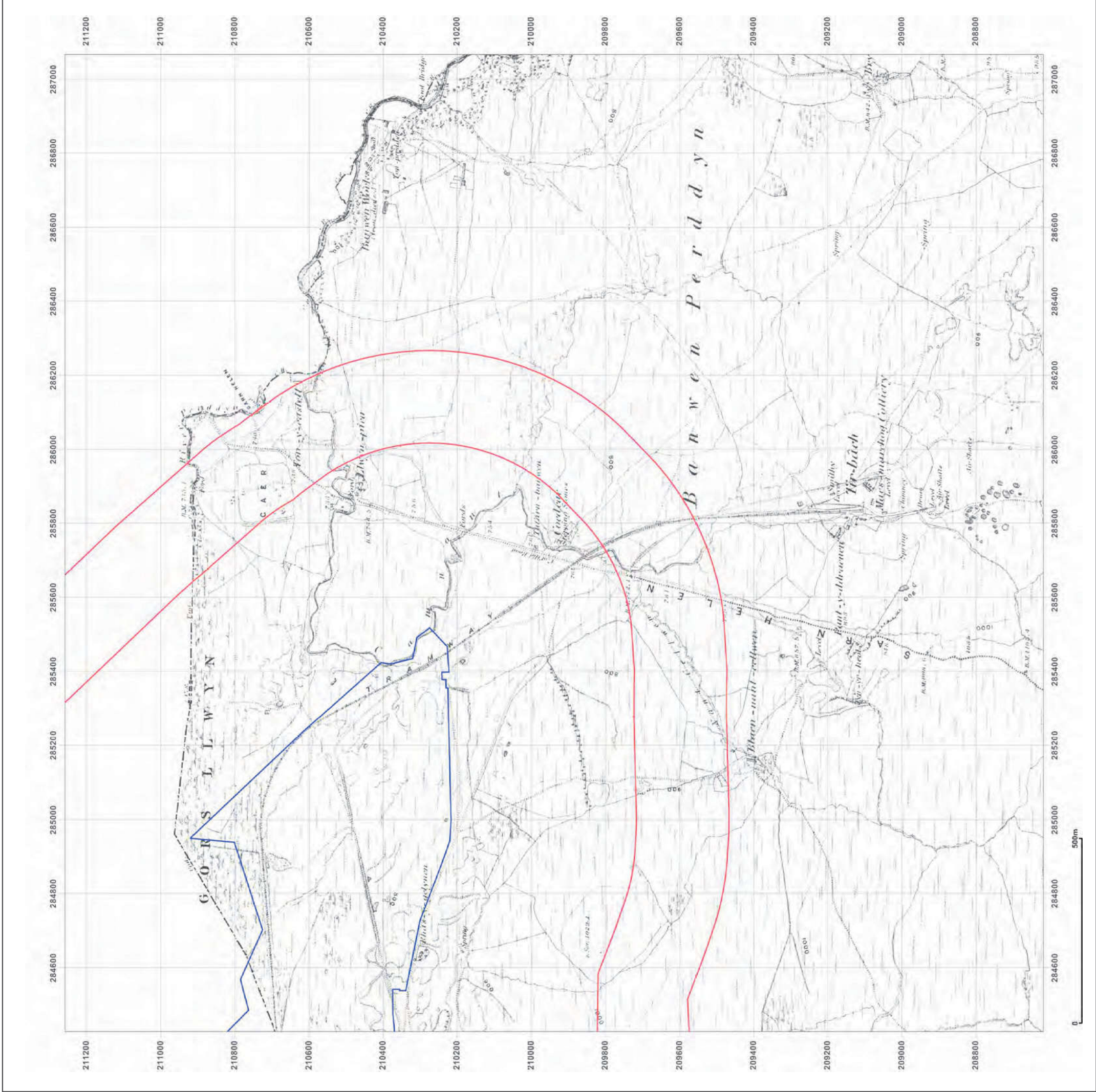
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





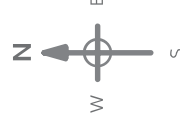
282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map date: 1876

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1878
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsurre_legend.pdf

Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: County Series

Map date: 1877

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
Revised 1877
Edition N/A
Copyright N/A
Levelled N/A

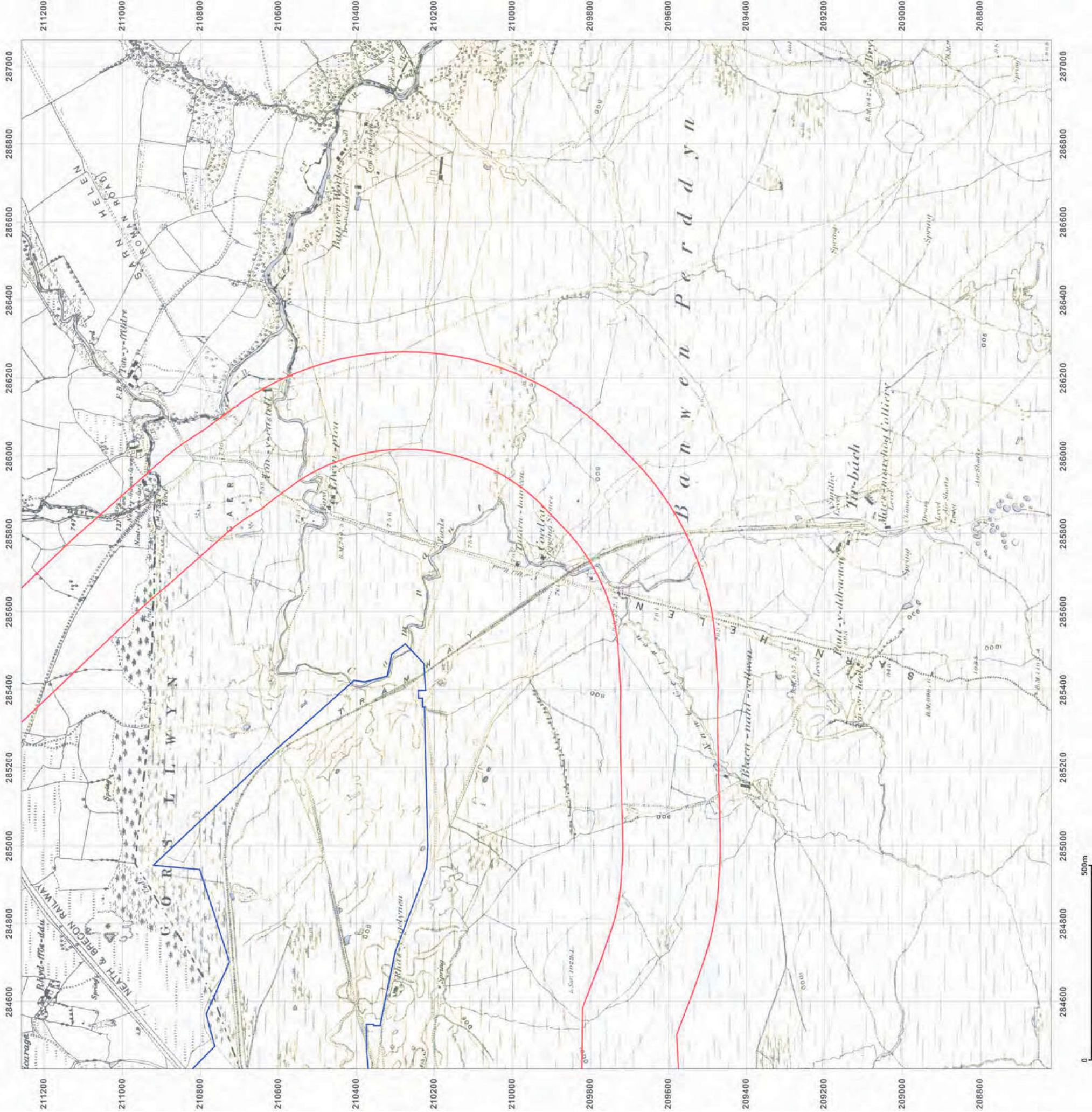


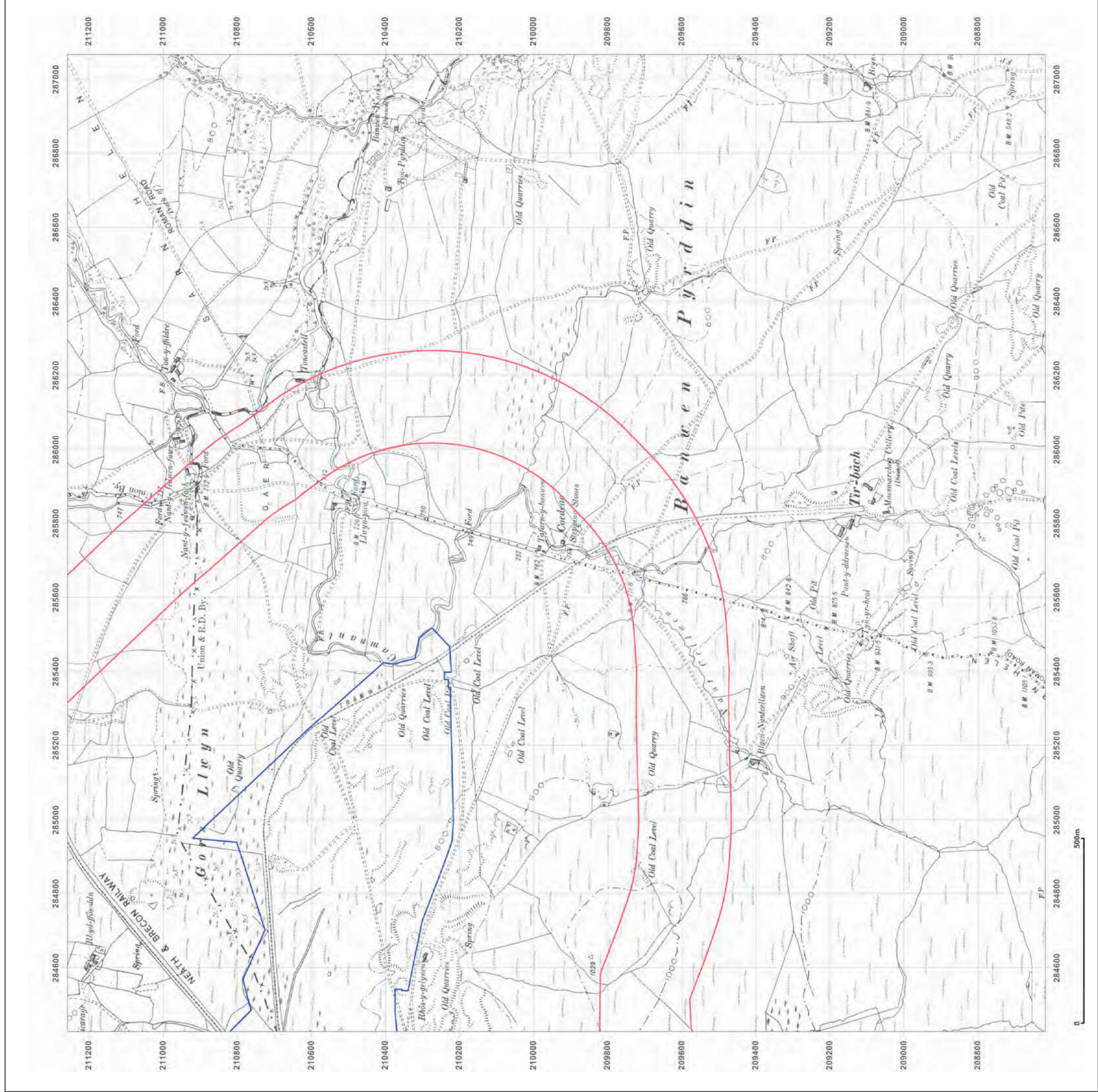
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf





282917.86237392283,
211100.677756288

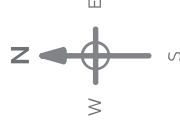
Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1878
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsurre.com/sites/default/files/groundsurre_legend.pdf

Site Details: 282917.86237392283, 211100.677756288		Client Ref: GCORE Report Ref: GS-6396071_SS_3_1 Grid Ref: 285746, 209937	
Map Name:	County Series	Surveyed 1876 Revised 1993 Edition N/A Copyright N/A Levelled N/A	
Map date:	1903		
Scale:	1:10,560		
Printed at:	1:10,560		

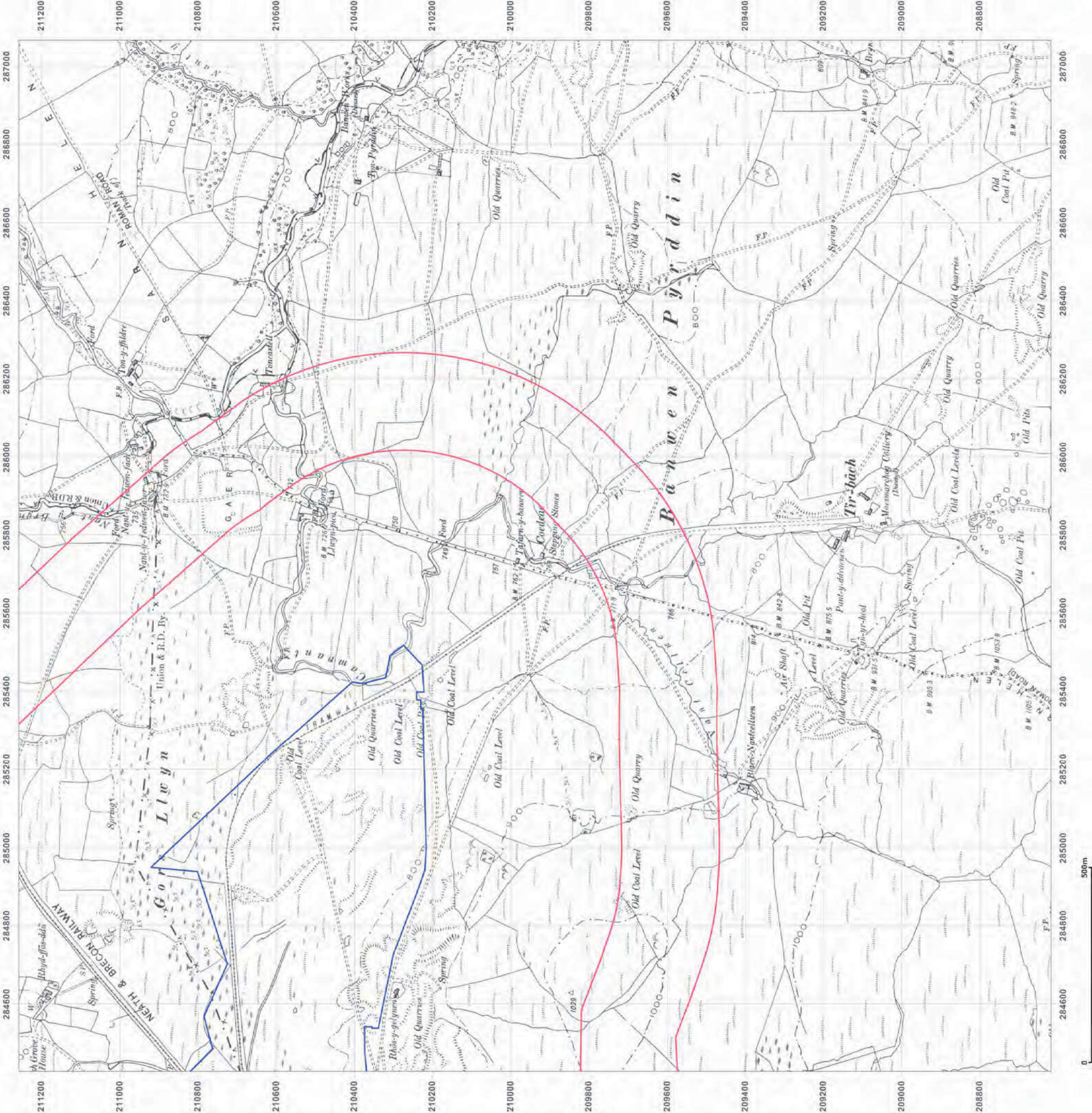


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

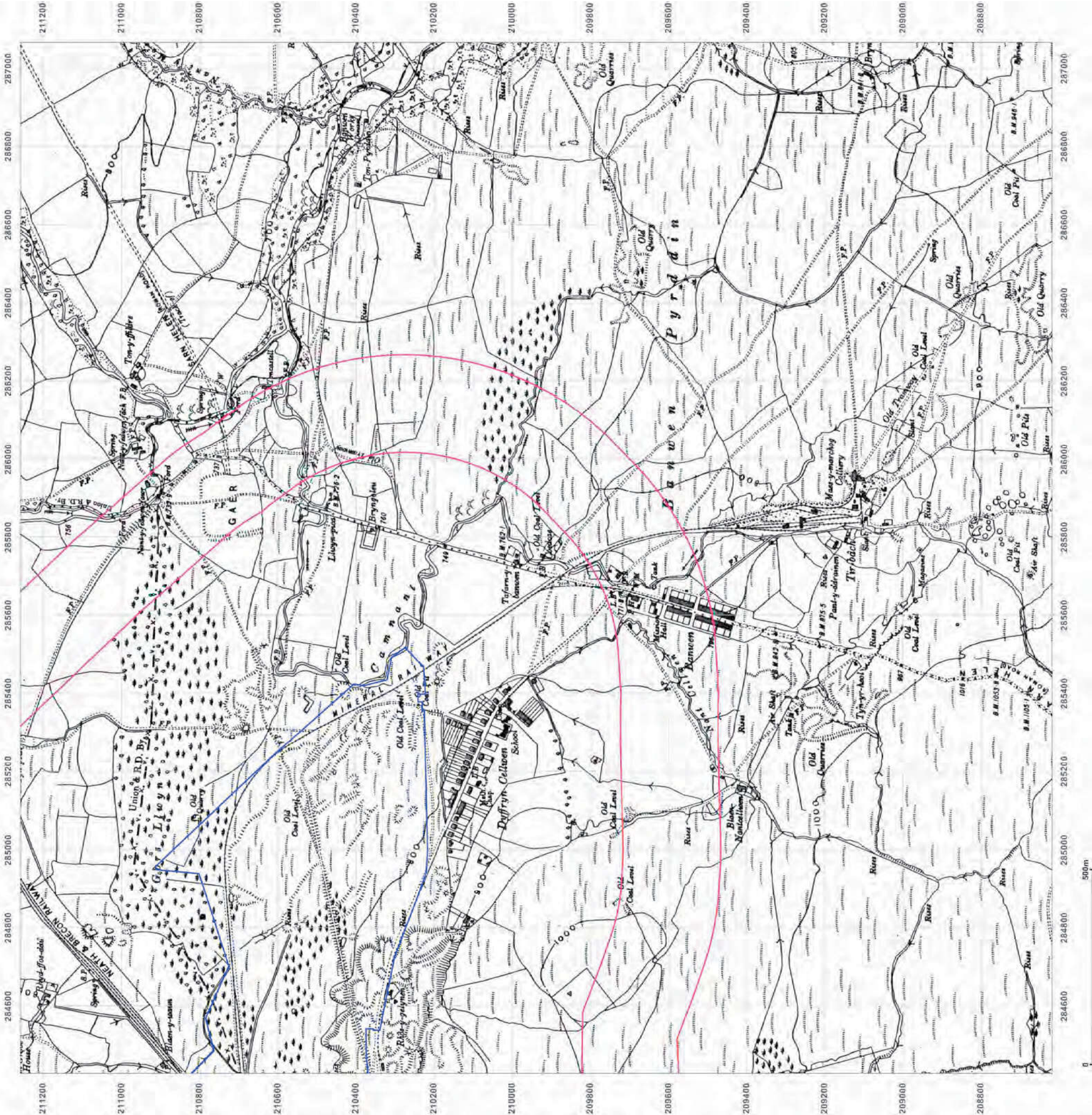


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1921
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

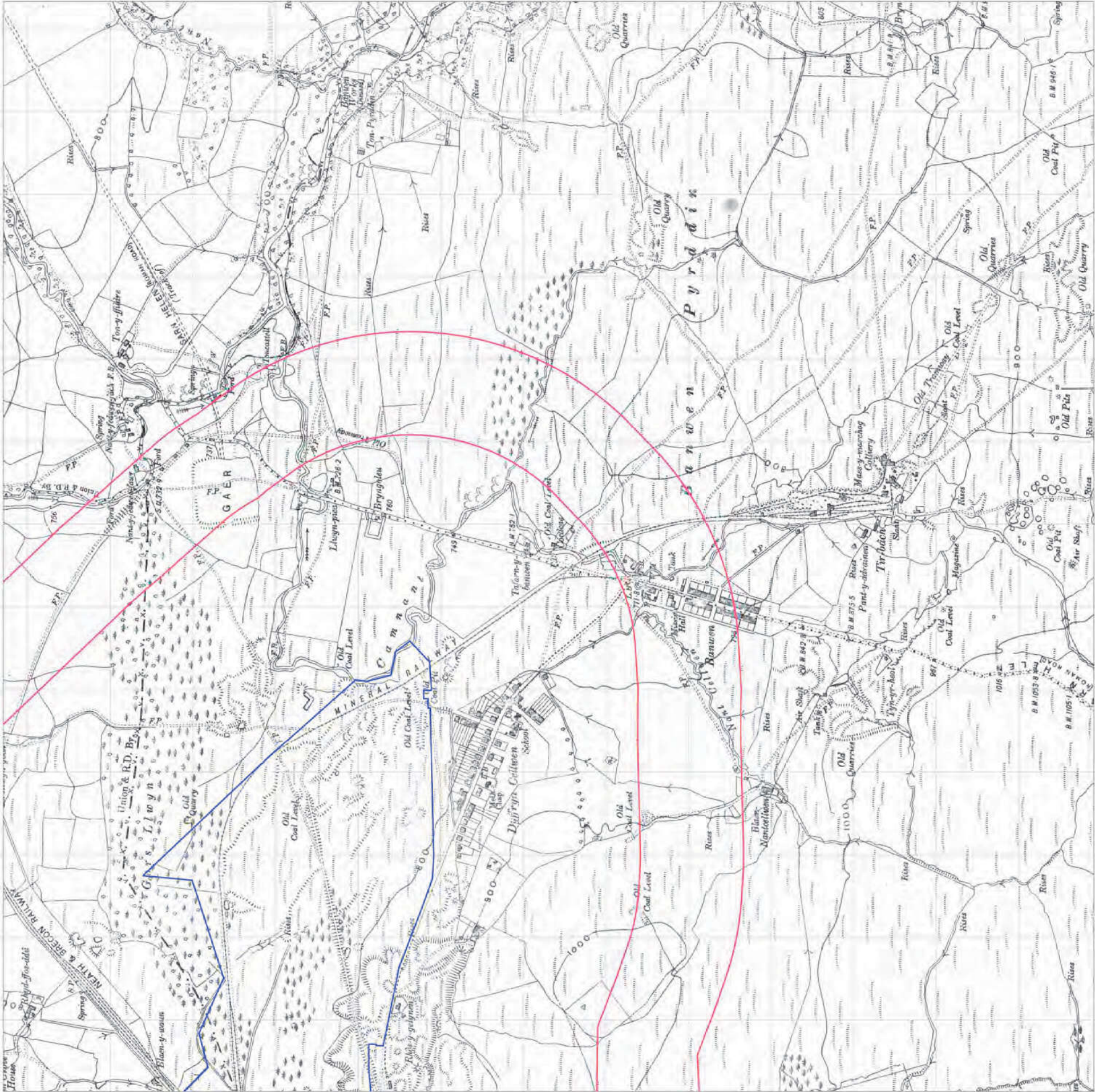


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

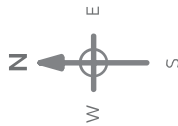
Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1921
Edition 1921
Copyright N/A
Levelled N/A

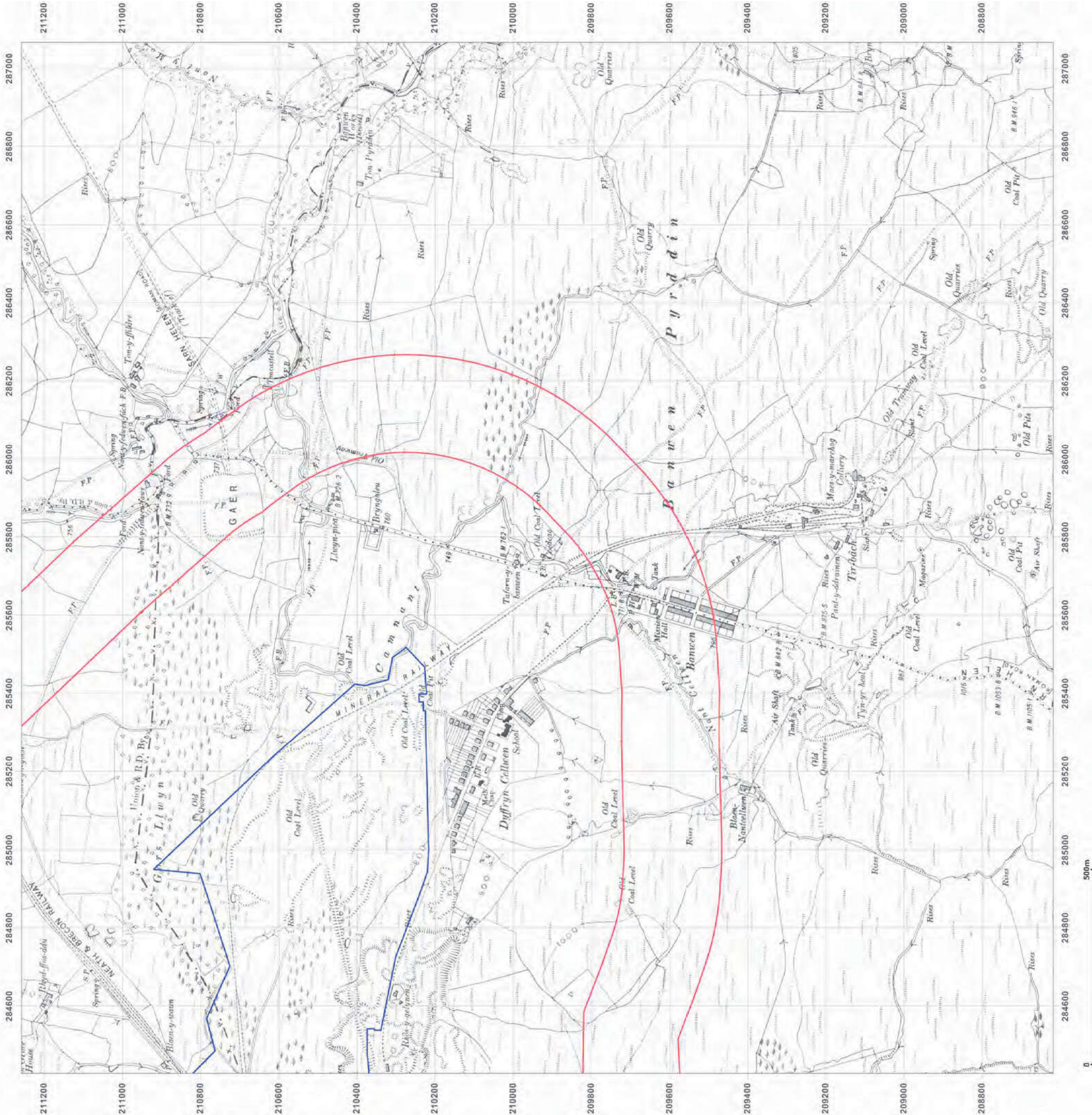


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

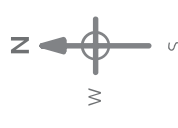
Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10.560



Surveyed 1876
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

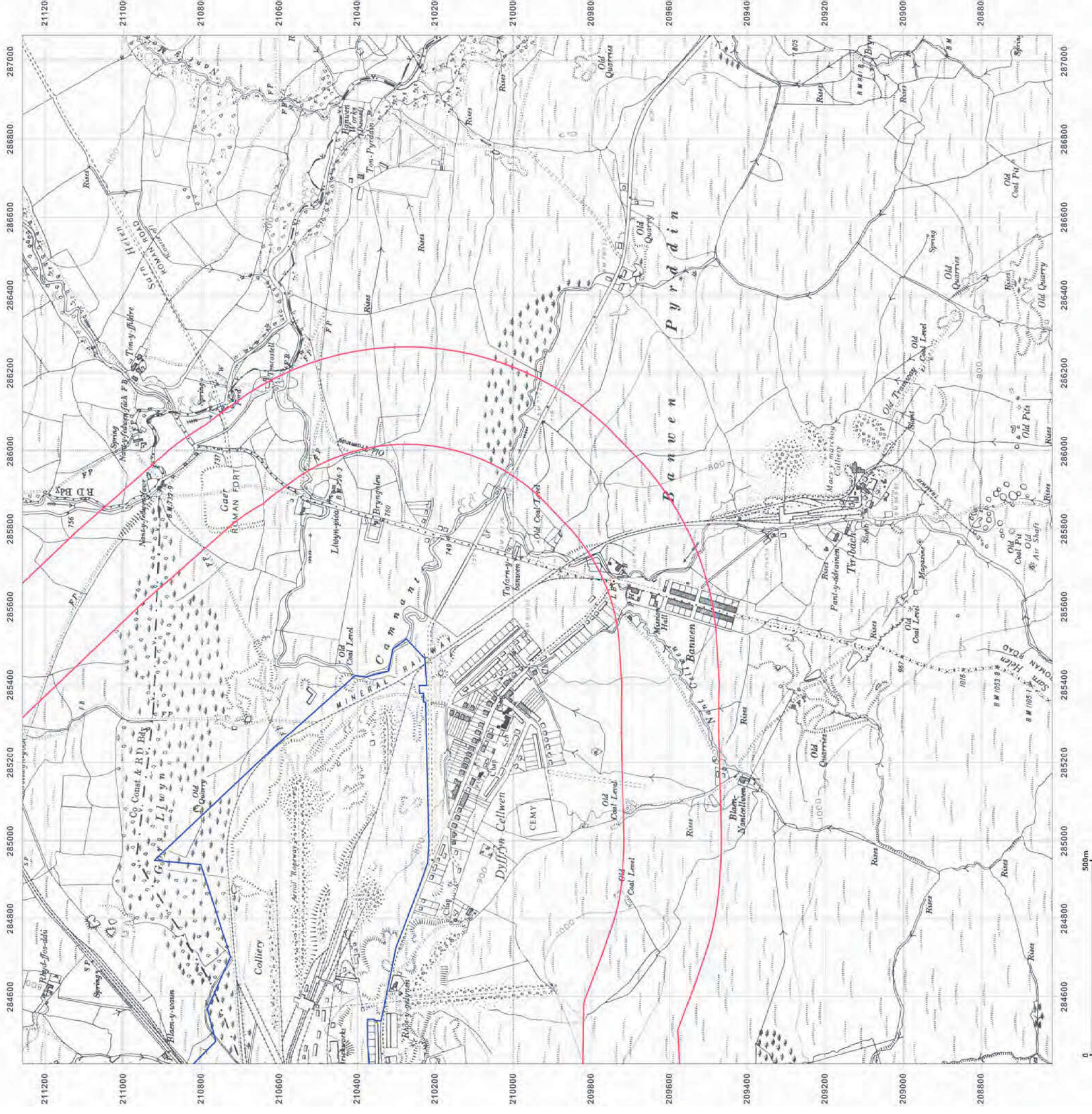


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

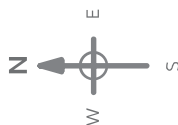
Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: Provisional

Map date: 1962-1965

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1962
Revised 1962
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1964
Revised 1964
Edition N/A
Copyright N/A
Levelled N/A



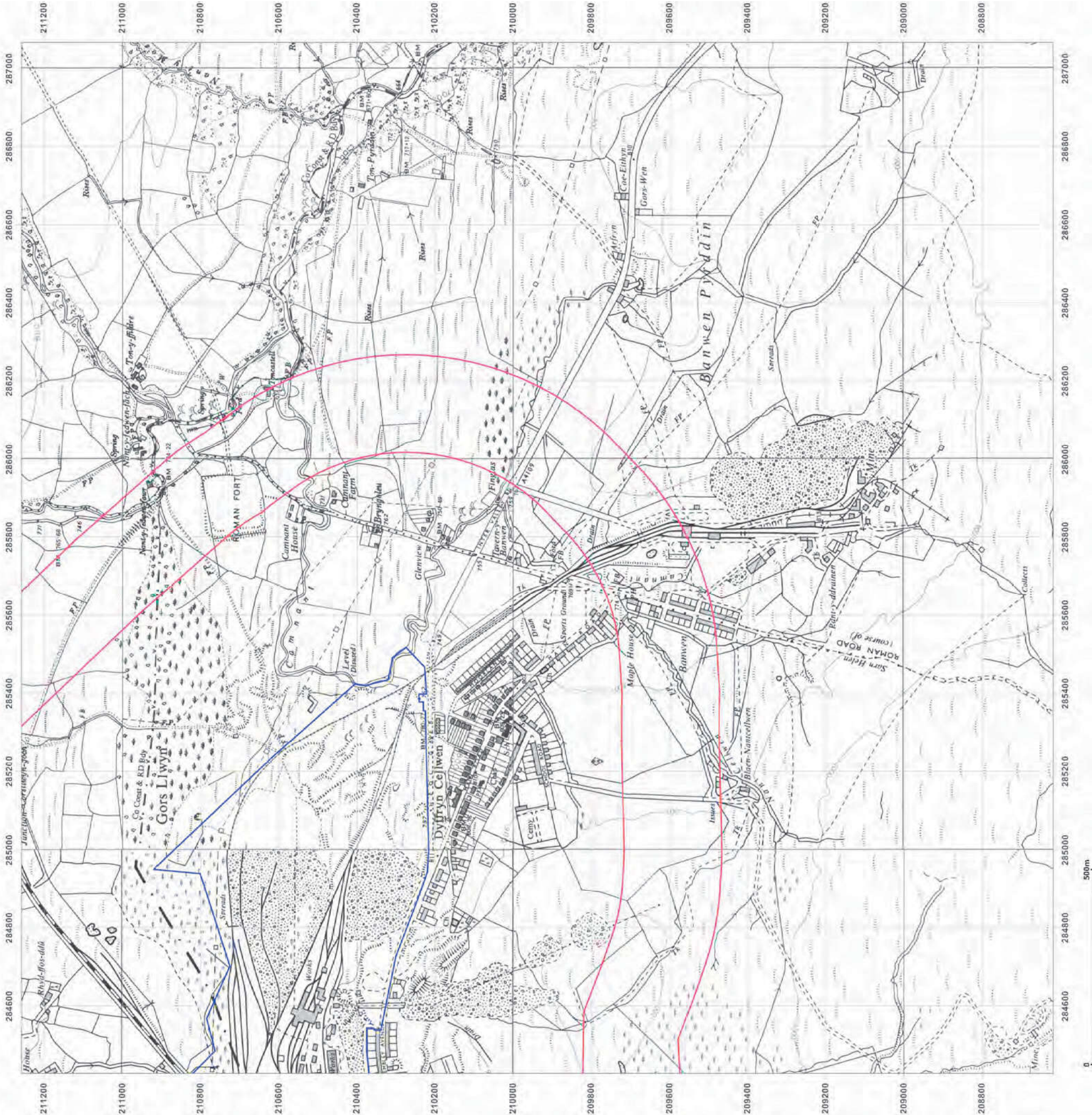
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

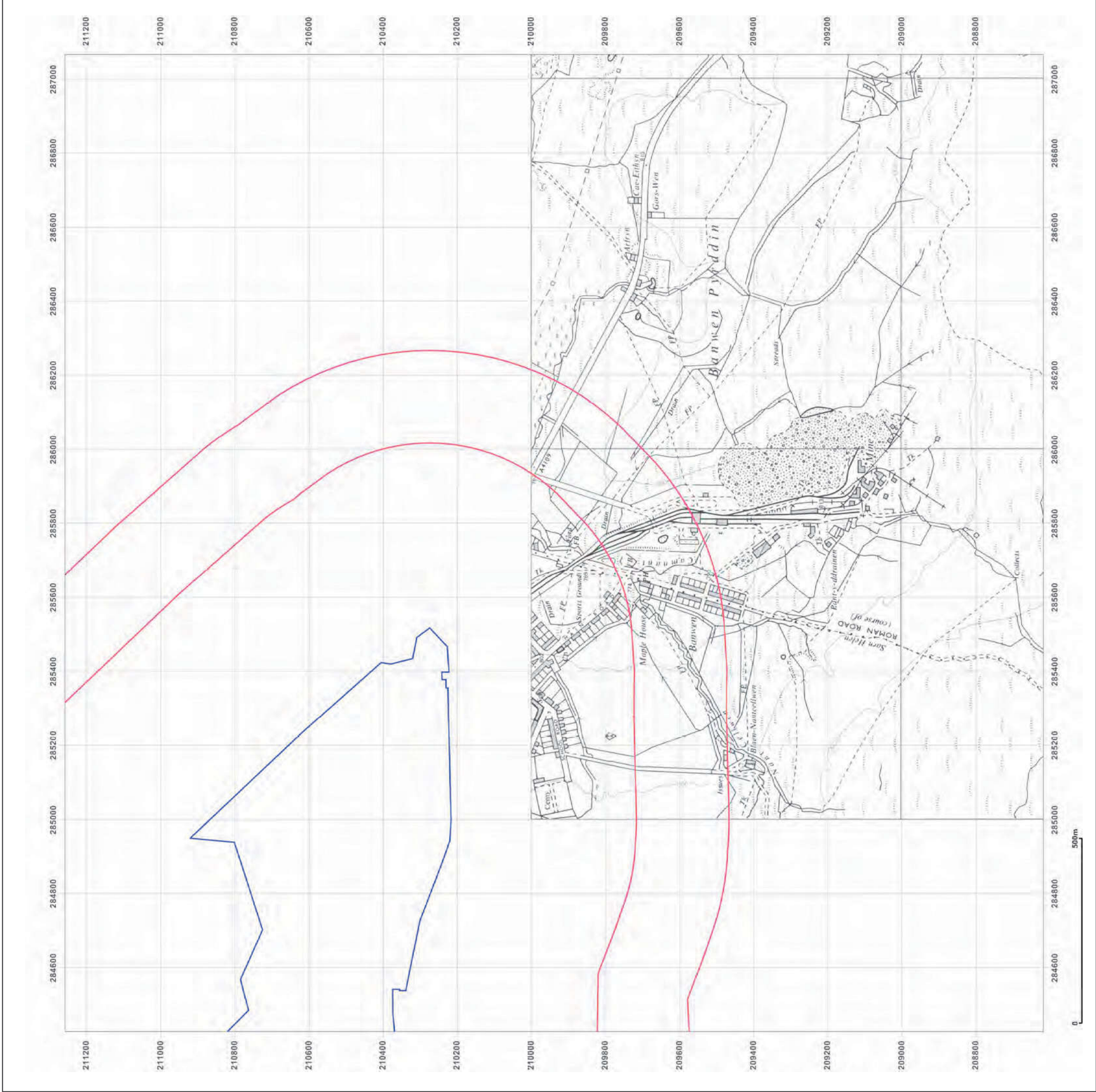
© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:

www.groundsure.com/sites/default/files/groundsure_legend.pdf



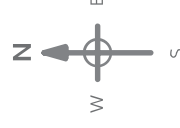


282917.86237392283,
211100.677756288

Map Name: Provisional

Scale: 1:10,560

Printed at: 1:10,560



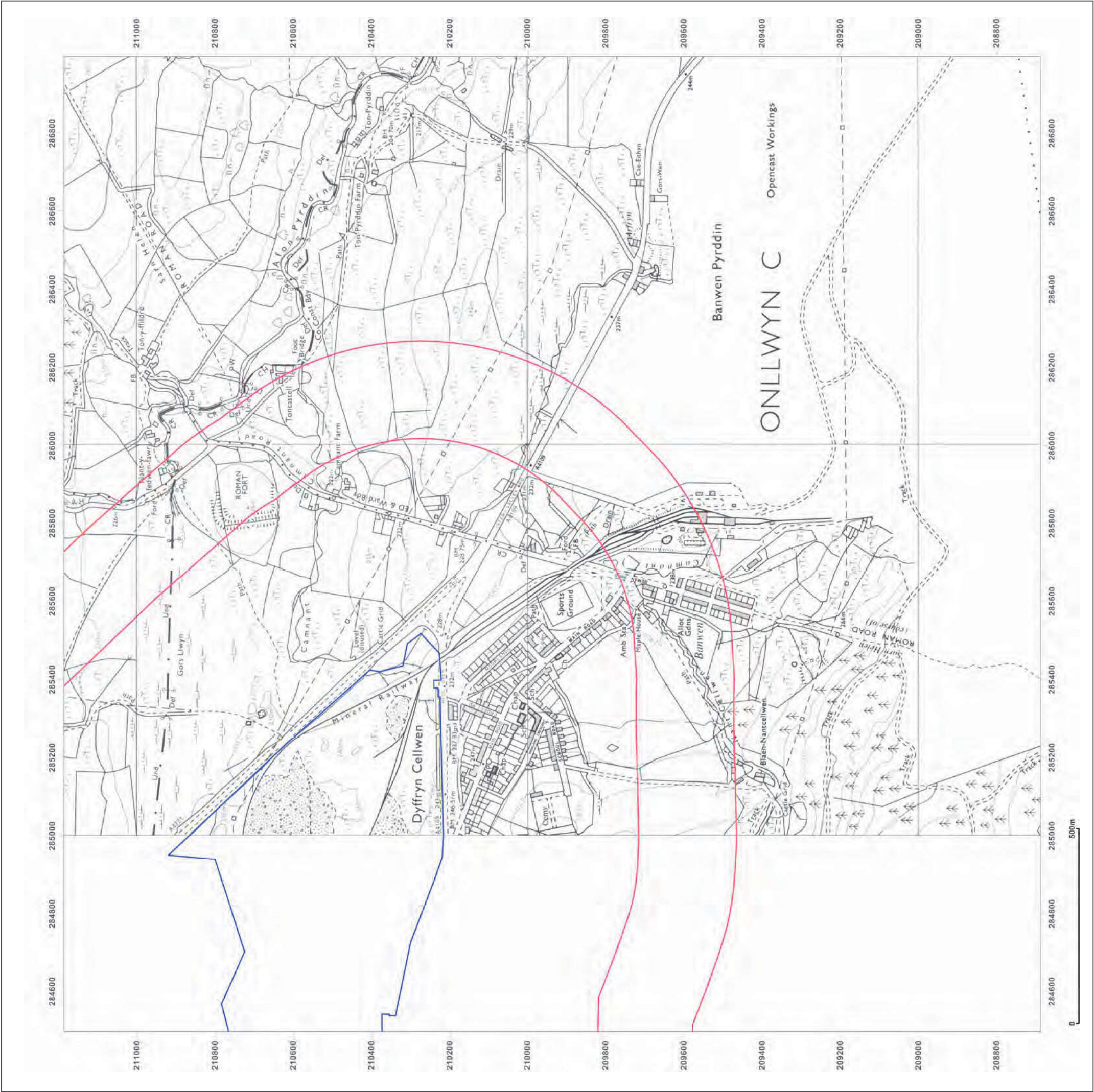
Surveyed 1980
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsurre_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

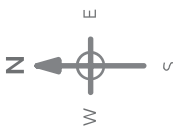
Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: National Grid

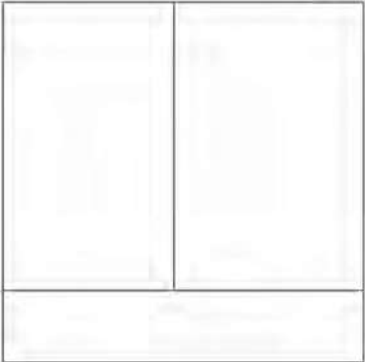
Map date: 1979-1981

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1979
Edition N/A
Copyright 1979
Levelled 1977



Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A



Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Site Details:

282917.86237392283,
211100.677756288

Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

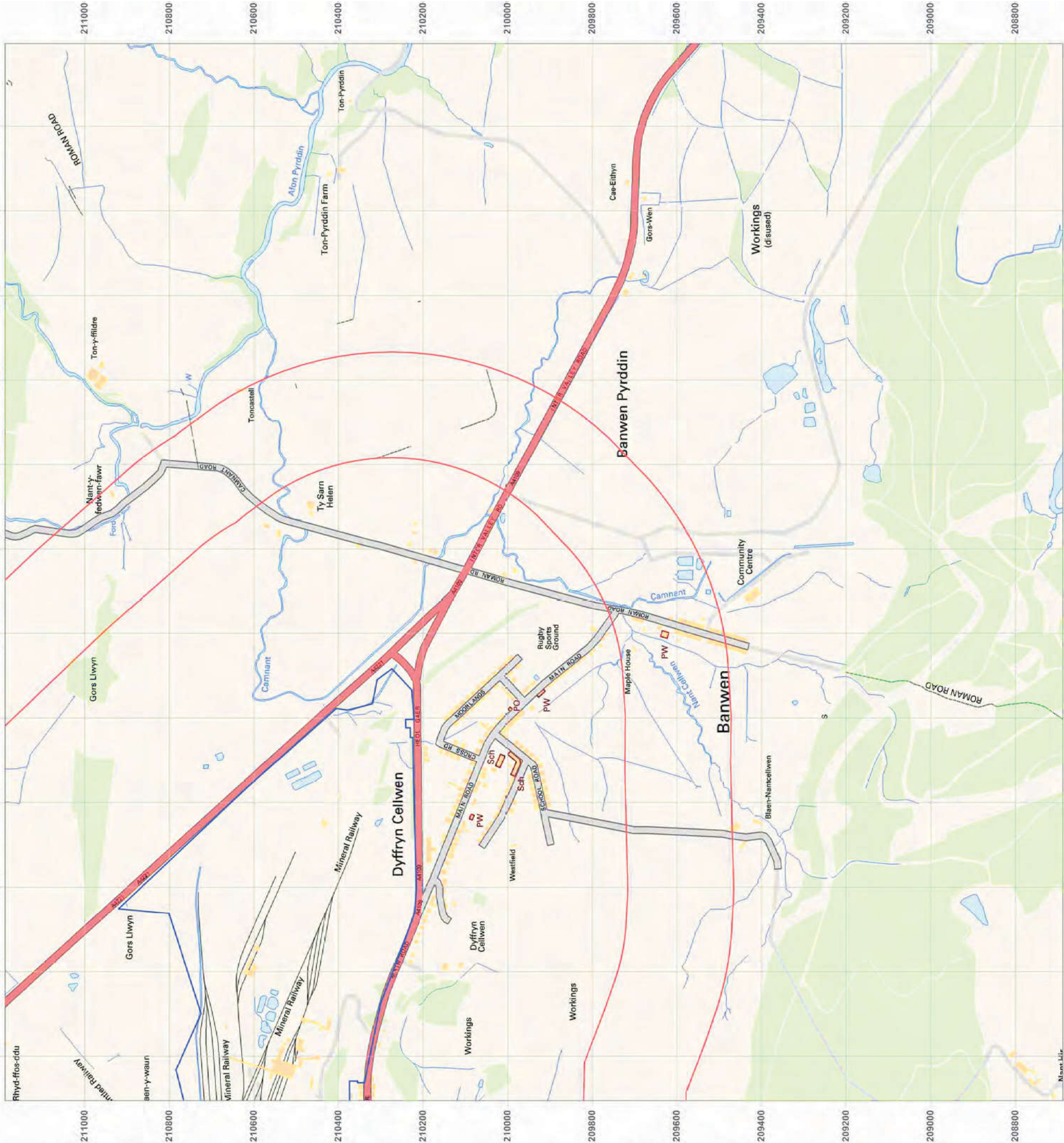


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details: 282917.86237392283, 211100.677756288	
Client Ref: GCORE	
Report Ref: GS-6396071_SS_3_1	
Grid Ref: 285746, 209937	
Map Name: National Grid	
Map date: 2010	
Scale: 1:10,000	
Printed at: 1:10,000	

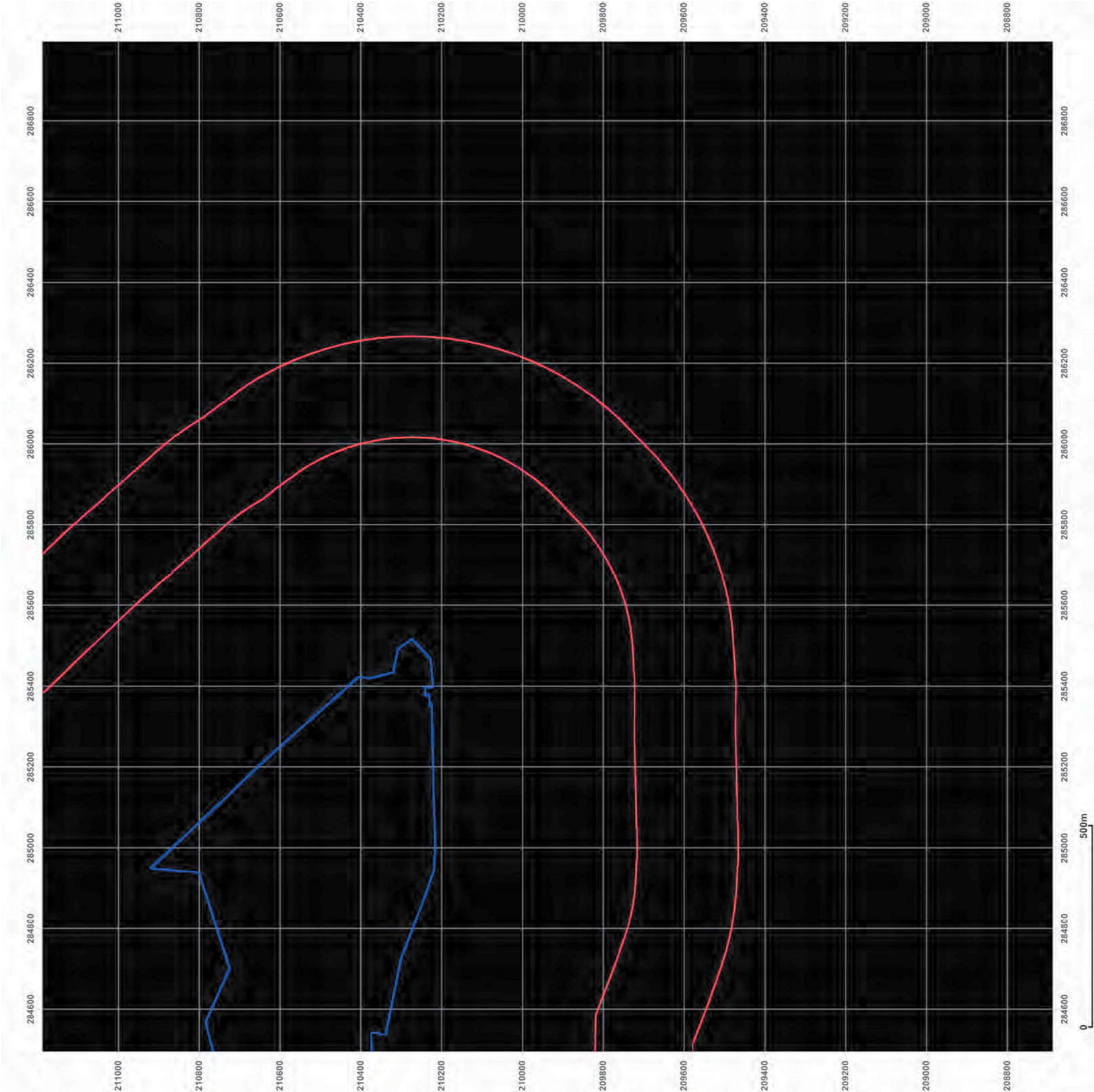


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

282917.86237392283,
211100.677756288

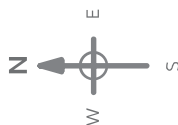
Client Ref: GCORE
Report Ref: GS-6396071_SS_3_1
Grid Ref: 285746, 209937

Map Name: National Grid

Map date: 2019

Scale: 1:10,000

Printed at: 1:10,000

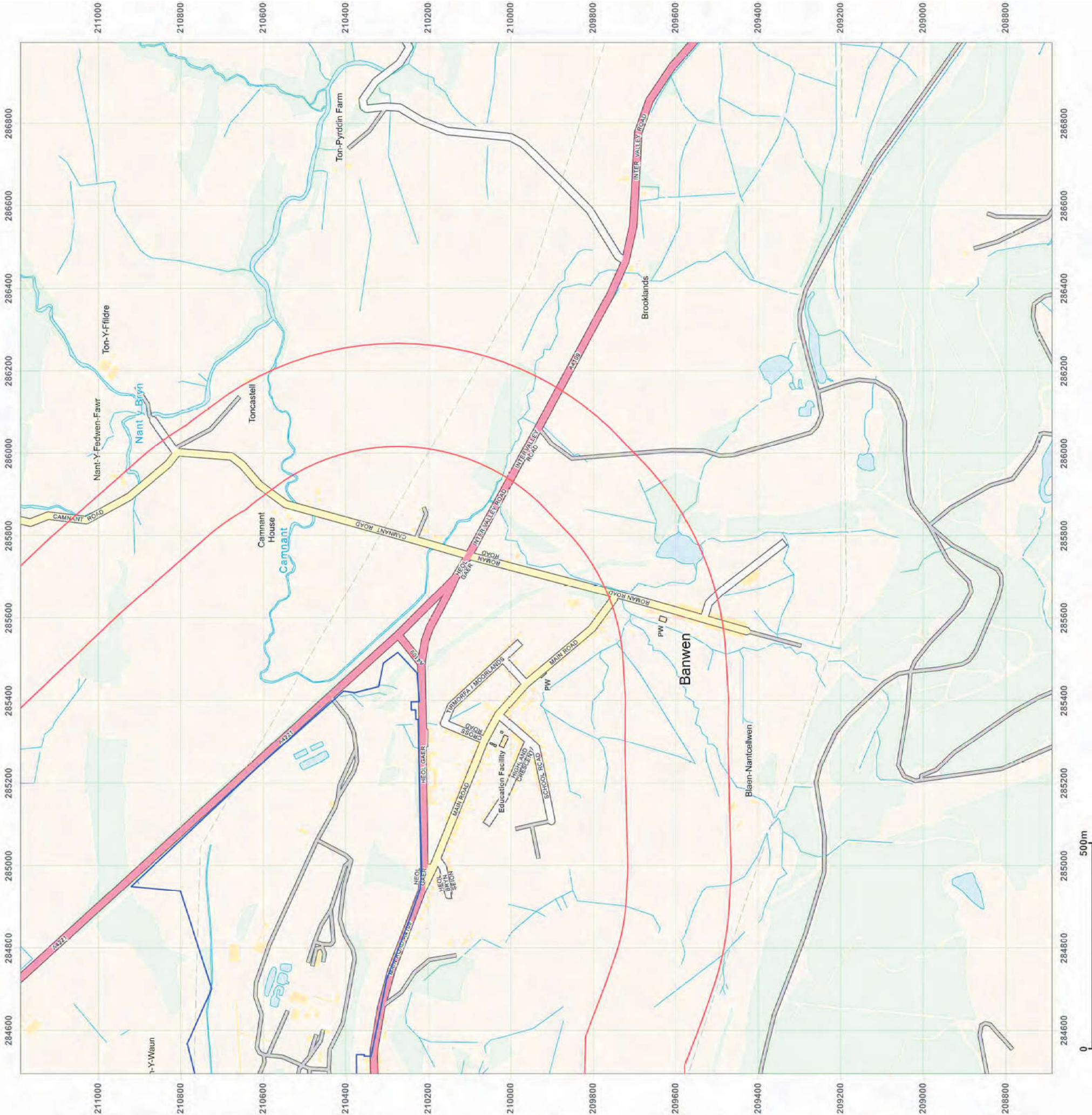


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

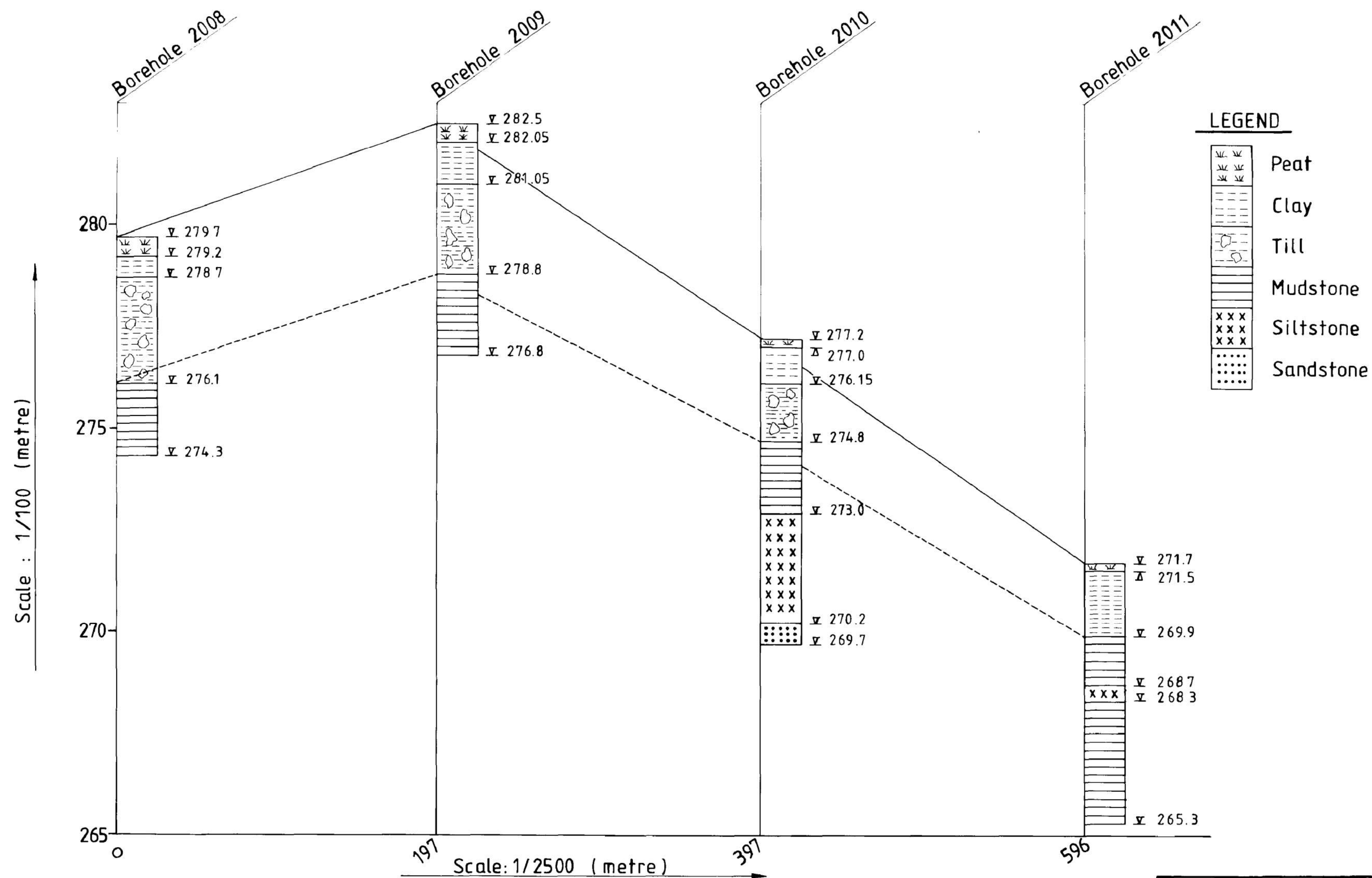
Production date: 14 October 2019

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Appendix C

Nant Helen Geotechnical Borehole Records – Celtic Energy

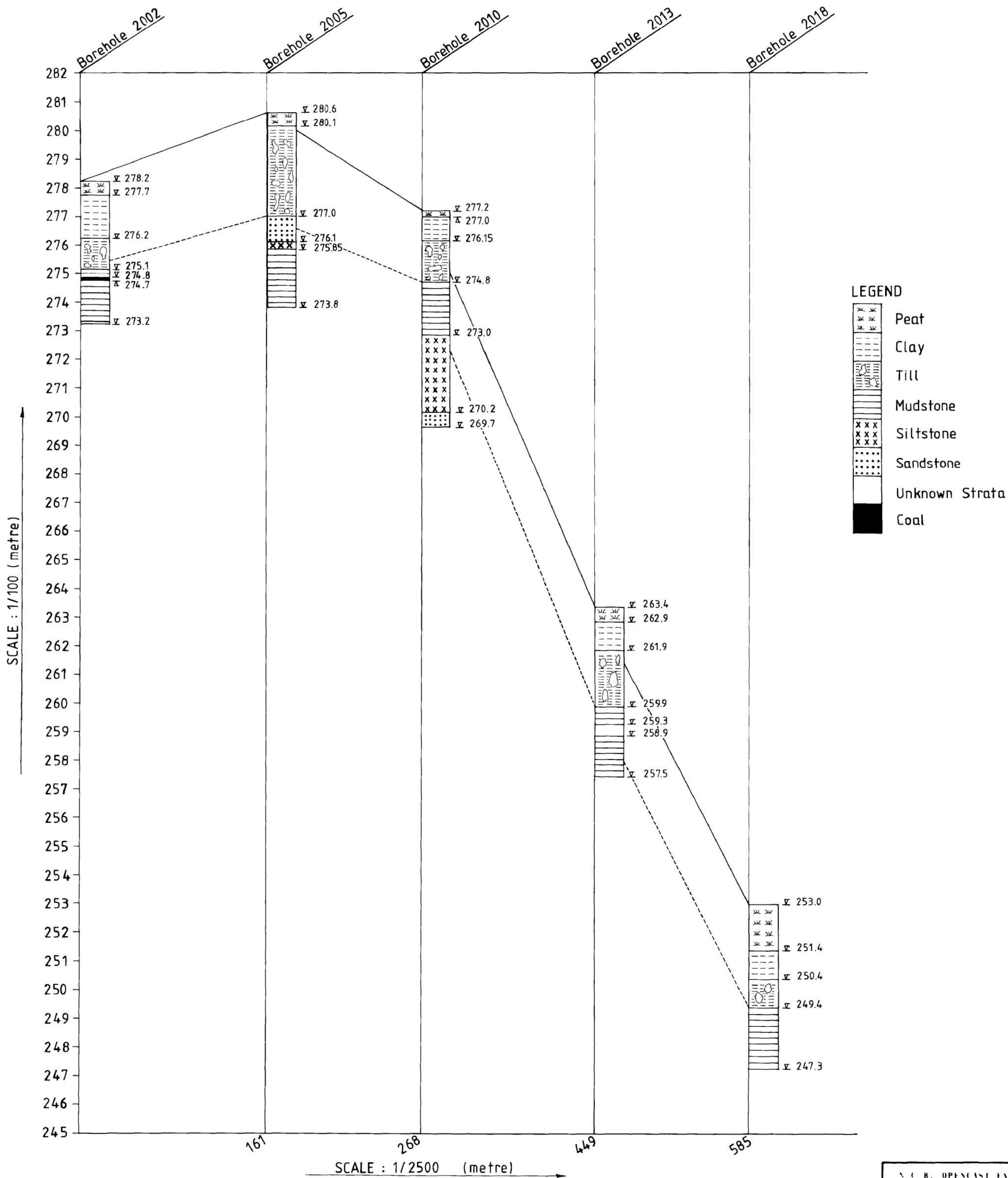


N C B OPENCAST EXCUTIVE
Farm Road Aberaman Aberdare
Glam

SITE NAME NANT HELEN
SITE No 682
CONTRACT DRG No 117/1
SCALE AS SHOWN

ROOM COPYRIGHT RESERVED
Licence N° NA 273082

DRAWING No. 07D010273
07A04104.DWG
(Scale 1:100)



N. C. B. OPENCAST FACILITY
Farm Road Aberaman Aberdare
Glam

SITE NAME NANT HELEN
SITE No 682
CONTRACT DRG No 117/2
SCALE AS SHOWN

CROWN COPYRIGHT RESERVED
Licence No NA 273082

Appendix D

BGS Borehole Records

Holst Soil Engineering Limited						Borehole No. L1	
BOREHOLE LOG				SN 81SE4			
Contract No. <u>R3593</u>				Sheet <u>1</u> of <u>1</u>			
Location <u>Dyffryn Cellwen</u>				Chainage <u> </u>			
Client <u>Neath B.C.</u>				Ground Level <u> </u> m.A.O.D.			
Method of Boring <u>Percussion</u>				Date <u>27.4.77</u>			
Diameter of Borehole <u>150mm</u>				SN <u>8504 1019</u>			

Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R, Q.D. %	Daily Progress
TOPSOIL		0.10					
MADEGROUND: Stiff grey/brown stony clay with sandstone cobbles		0.60			0.50		
MADEGROUND firm dark grey silty clay with coal fragments					1.30		
		3.90			3.00	7	
Stiff brown and grey mottled sandy CLAY with mudstone fragments					4.00		
		5.00			4.50	38	

Type of Sample	Remarks (Observations of Ground Water etc.)
Is S.P.T. ☐ Undisturbed Ic. C.P.T. ☒ Vane O Jar ☒ Water ● Bulk ☒ Piezometer	groundwater struck at 1.50m depth rising to 1.30m depth in 10 minutes standing water level at 1.30m depth

Holst Soil Engineering Limited BOREHOLE LOG SN 81 SE 5						Borehole No. L2	
Contract No. F3593 Location Dyffryn Cellweh Client Neath B.C. Method of Boring Percussion Diameter of Borehole 150mm		SN 8519 1020 Sheet 1 of 1 Chainage Ground Level m.A.O.D. Date 28.4.77					
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D.%	Daily Progress
TOPSOIL		0.20					
MADEGROUND - clay with coal, wood, stones		0.50			0.50		
MADEGROUND - firm brown & grey mottled silty clay with sandstone & coal fragments		1.50			1.60		
MADEGROUND - stiff brown mottled silty clay with sandstone & coal fragments		2.60			No recovery		
MADEGROUND - stiff dark grey shaly clay with coal fragments		3.00			2.90		
Very stiff brown grey shaly CLAY with large angular sandstone fragments		4.00			3.50	42	
Type of Sample Is S.P.T. ☒ Undisturbed Ic. C.P.T. ☒ Vane O Jar ☒ Water Bulk ☒ Piezometer		Remarks (Observations of Ground Water etc.) Borehole dry					

| Issue | 18 December 2019

Norwest Holst Soil Engineering Ltd.						Borehole No. 2	
Contract No. F8368		BOREHOLE LOG		Sheet 1 of 3			
Location Onllwyn		SN81SW 30		Co-ords 284787.75E 210602.00N			
Client British Coal		Method of Boring Percussion, rotary air flush & rotary open hole		Ground Level 236.48 m.A.O.D.			
Diameter of Borehole 150mm and 105mm		Date 13/2-14/2/89-21/2-23/2/89					
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D.%	Daily Progress
MADE GROUND: Loose to medium dense black sand and gravel mudstone with coal in a black silty clay matrix (colliery waste)	[Cross-hatch pattern]				0.50-0.95 S	"7"	
					2.00-2.95 S	"14"	
					3.50-3.95 S	"8"	
MADE GROUND: Soft grey brown mottled orange and black silty clay with much gravel of weathered sandstone and mudstone					5.00-5.45 S	"19"	
Grey highly to completely weathered silty MUDSTONE very weak laminated and micaceous		6.00	230.48		6.00 (48)		
Dark grey IRONSTONE with some SILTSTONE	[X pattern]	7.00	229.48				
Light grey slightly to moderately weathered fine SANDSTONE, strong massive to occasionally cross laminated	[X pattern]	8.05	228.43		7.50 (58)		
Grey and light grey interlaminated moderately weathered silty MUDSTONE and sandy SILTSTONE, moderately weak occasional grey sandstone band	[X pattern]	8.65	227.83		8.65-8.68	25" blows*	
...8.90-9.00 Highly fractured medium to coarse gravel size	[X pattern]	8.90	227.58		ICR SCR	for 25mm	
		9.60	226.88		100% 58% 0%		
Type of Sample Is S.P.T. ■ Undisturbed Ic C.P.T. × Vane O Jar △ Water ● Bulk ⊙ Piezometer 13/2/89 Borehole dry during drilling 14/2/89 Borehole dry during drilling 21/2/89 initial standing water level 3.45m, casing at 8.60m Final standing water level 7.60m, casing at 8.60m							

Norwest Holst Soil Engineering Ltd.						Borehole No. 2	
Contract No. F8368		BOREHOLE LOG		Sheet 2 of 3			
Location Onllwyn		SN81SW 30		Co-ords 284787.75E 210602.00N			
Client British Coal		Method of Boring Percussion & rotary air flush rotary open hole		Ground Level 236.48 m.A.O.D.			
Diameter of Borehole 150mm & 105mm		Date 13/2-14/2 21/2-23/2/89					
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D.%	Daily Progress
Grey moderately weathered silty to very silty MUDSTONE, moderately weak Jointed at 60°	X	11.00	225.48		10.10 TCR SCR	100% 81% 0%	
Dark grey slightly weathered silty SANDSTONE, weak. Thin sub horizontal laminations	X	11.95	224.53		11.95		
Dark grey slightly weathered very slightly silty MUDSTONE moderately weak to weak laminated. Becoming very carbonaceous with depth ...11.95 to 12.70m often fragmented ...13.93 to 14.20m occasional very weak shaly mudstone bands	X	14.20	222.28		14.35	100% 49% 0%	
(Boundary planar) Vitreous COAL. Evidence of slickensided joint surfaces. ... 14.70-14.72m; Very thin sub-horizontal bed of very dark grey slightly weathered very carbonaceous silty MUDSTONE, weak	X	15.03	221.45				
Dark grey to grey slightly weathered silty MUDSTONE, moderately weak many carbonaceous plant remains (seatearath)	X	16.08	220.40		16.45	86% 63% 36%	
Light grey slightly weathered clayey SILTSTONE moderately weak with occasional bands of thinly laminated silty mudstone ...micaceous from 19.25m	X	18.00			18.00	94% 53% 26%	
Light to dark grey slightly weathered fine and medium SANDSTONE, strong massive with occasional cross bedding occasional joints at 75°	X	19.70	216.78		19.25	100% 77% 44%	
19.25					98% 74% 74%		
Type of Sample ☒ S.P.T. ☐ Undisturbed ☐ C.P.T. ☒ Vane ☐ Jar ☐ Water ☒ Bulk ☒ Piezometer		Remarks (Observations of Ground Water etc.) 22/2/89 Initial standing water level 5.00m, casing at 8.60m Final standing water level 7.20m, casing at 8.60m 23/2/89 initial standing water level 6.45m, casing at 8.60m Final standing water level 6.20m, casing at 8.60m					

Norwest Holst Soil Engineering Ltd.						Borehole No. 2	
Contract No. F8368		BOREHOLE LOG		Sheet 3 of 3			
Location Onllwyn		Client British Coal		Co-ords 284787.75E 210602.00N			
Method of Boring Percussion & rotary air flush, rotary open		Ground Level 236.48 m.A.O.D.		hole Date 13/2-14/2 21/2-23/2/89			
Diameter of Borehole 150mm & 105mm							
Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D.%	Daily Progress
Light to dark grey slightly weathered fine and medium SANDSTONE strong massive with occasional cross bedding occasional joints at 75°		21.65	214.83		TCR SCR		
Grey slightly weathered silty fine SANDSTONE moderately weak thin sub horizontal laminations very occasional plant remains occasional sub vertical joints		22.30	214.18		100% 78%	78%	
Dark grey/black slightly weathered slightly silty MUDSTONE, moderately to very weak. Often highly fragmented often highly carbonaceous with occasional plant traces Occasional slickenside on joint surfaces		25.00	211.48		95% 27%	9%	
Open hole from 25.00m Dark grey MUDSTONE							
Borehole complete at 30.00m		30.00	206.48				

Type of Sample

S.P.T. Undisturbed

C.P.T. Vane

Jar Water

Bulk Piezometer

Remarks (Observations of Ground Water etc.)

Norwest Holst Soil Engineering Ltd.						Borehole No. 8
Contract No. F8368 BOREHOLE LOG						Sheet 1 of 3
Location Onllwyn <i>SW81SW 36</i>						Co-ords 284862.94E 210586.15N
Client British Coal						Ground Level 237.20 m.A.O.D.
Method of Boring Percussion rotary air flush rotary open hole						Date 16/2/89 & 26/2/89
Diameter of Borehole 150mm & 105mm						

Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D. %	Daily Progress
MADE GROUND: Medium dense black sand and gravel of carbonaceous silty mudstone and coal with occasional black silty clay matrix (colliery waste)					0.50-0.95 s "11"		
Firm brown organic CLAY with many rootlets and some peat		3.20 3.40	234.00 233.80		2.00-2.45 s "10" 3.50 (33)		
Firm to stiff grey brown mottled orange and black silty sandy CLAY with much gravel and occasional cobble of sandstone and mudstone occasional coal fragments		5.80	231.40		5.00 (42)		
Firm grey brown silty clay with mudstone fragments		6.70	230.50		6.50 (103)		
Grey brown highly weathered silty micaceous MUDSTONE weak laminated and fragmented some iron staining		7.20	230.00		7.50 TCR SCR 90% 20% 0%		
Grey moderately to slightly weathered SILTSTONE moderately weak laminated subhorizontal to massive iron staining on 45° joint planes		9.00	228.20		9.00 100% 15% 0%		
Grey moderately weathered slightly silty MUDSTONE weak often highly fragmented							

Type of Sample S.P.T. ☐ Undisturbed C.P.T. ☒ Vane Jar ☐ Water Bulk ☒ Piezometer	Remarks (Observations of Ground Water etc.) () U100 blows 16/2/89 Seepage of water at 3.20m casing at 3.00m no rise Water sealed at 3.40m 26/2/89 Initial standing water level 6.40m casing at 7.50m Final standing water level 3.50m casing at 7.50m
--	--

| Issue | 18 December 2019

[illegible]

SW81SW 37

Norwest Holst Soil Engineering Ltd.		Trial Pit No.
TRIAL PIT LOG		1
Contract No. F9074		8400 1043
Location Nant Helen O.C.C.S.		
Client British Coal		
Excavation Plant 180° excavator		Chainage
Dimensions (l x b x h) 2.00 x 1.00 x 1.90m		Ground Level m.A.O.D.
		Date 4/2/91

ELEVATIONS:—

SIDE A SIDE B

SIDE C SIDE D

PLAN (Not to scale)

5.00m

SAMPLES

No. & Type	Depth m.
	None taken

No.	Depth m.	STRATA DESCRIPTION	Cv/Cp kN/m ²
I	0.00-0.80	Firm orange silty sandy CLAY with some fine and medium angular mudstone gravel, and occasional coarse gravel and cobbles of sandstone.	
II	0.80-1.90	Highly weathered grey and orange laminated MUDSTONE, very weak. Generally recovered as angular gravel size fragments in clay matrix.	
Trial Pit complete at 1.90m depth			
Note: Ground level taken at a point 0.35m below adjacent rail.			

NOTES Cv/Cp Approximate value of undrained shear strength from hand vane/penetrometer
 Groundwater: Slight seepage from 1.00m, in mudstone
 Pumping: None
 Supports/Stability: Unsupported/stable

SN81SW 38

8403 1044

Trial Pit No. **2**

Norwest Holst Soil Engineering Ltd

TRIAL PIT LOG

Contract No. F9074
 Location Nant Helen O.C.C.S
 Client British Coal
 Excavation Plant 180° excavator
 Dimensions (l x b x h) 2.00 x 1.00 x 2.00m

Chainage
 Ground Level m.A.O.D.
 Date 4/2/91

ELEVATIONS:

Elevation (m)	Side A	Side B	Side C	Side D
GL	I			
0.60	II	As A		
1.10	III			
1.80	IV			
2.00				

PLAN (Not to scale)

SAMPLES

No. & Type	Depth m.
B	0.60 - 1.10 (II)
B	0.60 - 1.10 (II)

STRATA DESCRIPTION

No.	Depth m.	Description	Cv/Cp kN/m ²
I	0.00 - 0.60	MADE GROUND: Grey shale and coal fragments with occasional brick and clinker.	
II	0.60 - 1.10	Firm grey and orange silty sandy CLAY, with occasional fine gravel.	
III	1.10 - 1.80	Dark grey completely weathered MUDSTONE, recovered as clay with very occasional very weak mudstone lithorelicts.	
IV	1.80 - 2.00	Highly weathered grey and orange laminated MUDSTONE, very weak. Generally recovered as angular gravel size fragments in clay matrix.	

Note: Ground level taken at a point 0.40m below adjacent rail.
 Trial Pit complete at 2.00m depth.

NOTES
 Approximate value of undrained shear strength from hand vane/penetrometer
 Groundwater: Dry
 Pumping: None
 Supports/Stability: None/Stable

8W81SW 39

Trial Pit No. **3**

Norwest Holst Soil Engineering Ltd.

TRIAL PIT LOG

Contract No. F9074
 Location Nant Helen O.C.C.S.
 Client British Coal
 Excavation Plant 180° excavator
 Dimensions (l x b x h) 1.50 x 1.00 x 1.50m

Chainage
 Ground Level m.A.O.D.
 Date 4/2/91

ELEVATIONS:—

GL	I	0.25
	II	0.45
	III	1.50

PLAN (Not to scale)

SAMPLES

No. & Type	Depth m.
None	
Taken	

STRATA DESCRIPTION

No.	Depth m.	Description	Cv/Cp kN/m ²
I	0.00–0.25	MADE GROUND: Grey shale fragments with occasional gravel.	
II	0.25–0.45	Stiff orange and grey silty sandy CLAY with occasional fine sandstone gravel and occasional boulder.	
III	0.45–1.50	Grey and orange highly weathered laminated MUDSTONE, very weak. Recovered as gravel size fragments.	

Trial Pit complete at 1.50m depth

Note: Ground level taken at a point 0.40m below adjacent rail.

NOTES

Cv/Cp Approximate value of undrained shear strength from hand vane/penetrometer

Groundwater: Dry

Pumping: None

Supports/Stability: None/Stable

Appendix E

Groundsure EnviroInsight and GeoInsight Reports



Ove Arup & Partners International Ltd

4 OVE ARUP & PARTNERS, PIERHEAD STREET,
CARDIFF, CF10 4QP

Groundsure
Reference:

GS-6396069

Your Reference: GCORE

Report Date

14 Oct 2019

Report Delivery Method: Email - pdf

Enviro Insight

Address: 282917.86237392283, 211100.677756288,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Enviro Insight

Address: 282917.86237392283, 211100.677756288,
Date: 14 Oct 2019
Reference: GS-6396069
Client: Ove Arup & Partners International Ltd



Aerial Photograph Capture date: 26-May-2017
Grid Reference: 283073,211130
Site Size: 483.2560ha

Report Reference: GS-6396069
Client Reference: GCORE

Contents Page

Contents Page	3
Overview of Findings	6
Using this report	10
1. Historical Land Use	11
1. Historical Industrial Sites	12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping	12
1.2 Additional Information – Historical Tank Database	59
1.3 Additional Information – Historical Energy Features Database	60
1.4 Additional Information – Historical Petrol and Fuel Site Database	60
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	60
1.6 Historical military sites	61
1.7 Potentially Infilled Land	61
2. Environmental Permits, Incidents and Registers Map	107
2. Environmental Permits, Incidents and Registers	108
2.1 Industrial Sites Holding Licences and/or Authorisations	108
2.1.1 Records of historic IPC Authorisations within 500m of the study site	108
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site	108
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site	108
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site	108
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site	108
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site	109
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	109
2.1.8 Records of Licensed Discharge Consents within 500m of the study site	110
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site	115
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	115
2.2 Dangerous or Hazardous Sites	115
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents	115
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site	115
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site	116
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	117
3. Landfill and Other Waste Sites Map	118
3. Landfill and Other Waste Sites	119
3.1 Landfill Sites	119
3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site	119
3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site	119
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site	120
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site	120
3.2 Other Waste Sites	121
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site	121
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site	121
4. Current Land Use Map	123
4. Current Land Uses	124
4.1 Current Industrial Data	124
4.2 Petrol and Fuel Sites	126
4.3 National Grid High Voltage Underground Electricity Transmission Cables	126
4.4 National Grid High Pressure Gas Transmission Pipelines	126

5. Geology	127
5.1 Artificial Ground and Made Ground.....	127
5.2 Superficial Ground and Drift Geology	127
5.3 Bedrock and Solid Geology	128
6 Hydrogeology and Hydrology	129
6a. Aquifer Within Superficial Geology	129
6b. Aquifer Within Bedrock Geology and Abstraction Licences	130
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences	131
6d. Hydrogeology – Source Protection Zones within confined aquifer	132
6e. Hydrology – Watercourse Network and River Quality	133
6.Hydrogeology and Hydrology	134
6.1 Aquifer within Superficial Deposits.....	134
6.2 Aquifer within Bedrock Deposits.....	136
6.3 Groundwater Abstraction Licences.....	136
6.4 Surface Water Abstraction Licences.....	137
6.5 Potable Water Abstraction Licences.....	139
6.6 Source Protection Zones.....	139
6.7 Source Protection Zones within Confined Aquifer.....	140
6.8 Groundwater Vulnerability and Soil Leaching Potential.....	140
6.9 River Quality.....	140
6.9.1 Biological Quality:.....	141
6.9.2 Chemical Quality:.....	142
6.10 Ordnance Survey MasterMap Water Network.....	142
6.11 Surface Water Features.....	219
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)	226
7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map	227
7 Flooding	228
7.1 River and Coastal Zone 2 Flooding.....	228
7.2 River and Coastal Zone 3 Flooding.....	228
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating.....	229
7.4 Flood Defences.....	229
7.5 Areas benefiting from Flood Defences.....	230
7.6 Areas benefiting from Flood Storage.....	230
7.7 Groundwater Flooding Susceptibility Areas.....	230
7.8 Groundwater Flooding Confidence Areas.....	230
8. Designated Environmentally Sensitive Sites Map	231
8. Designated Environmentally Sensitive Sites	232
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:.....	232
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:.....	232
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:.....	232
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:.....	232
8.5 Records of Ramsar sites within 2000m of the study site:.....	233
8.6 Records of Ancient Woodland within 2000m of the study site:	234
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:.....	239
8.8 Records of World Heritage Sites within 2000m of the study site:.....	240
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:	240
8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:	240
8.11 Records of National Parks (NP) within 2000m of the study site:	240
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:.....	240
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:.....	241

8.14 Records of Green Belt land within 2000m of the study site:.....	241
9. Natural Hazards Findings.....	242
9.1 Detailed BGS GeoSure Data.....	242
9.1.1 Shrink Swell.....	242
9.1.2 Landslides.....	242
9.1.3 Soluble Rocks.....	242
9.1.4 Compressible Ground.....	243
9.1.5 Collapsible Rocks.....	243
9.1.6 Running Sand.....	243
9.2 Radon.....	244
9.2.1 Radon Affected Areas.....	244
9.2.2 Radon Protection.....	244
10. Mining.....	245
10.1 Coal Mining.....	245
10.2 Non-Coal Mining.....	245
10.3 Brine Affected Areas	245
Contact Details.....	246
Standard Terms and Conditions.....	248

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	912	160	372	394
1.2 Additional Information – Historical Tank Database	20	1	1	12
1.3 Additional Information – Historical Energy Features Database	2	4	0	0
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	848	169	378	357
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	1	0	0	1
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	3	0	1	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	21	1	16	12
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	2	2	4	0
2.3.2 National Incidents Recording System, List 1	0	0	0	1
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	1	1	2
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	2	0	0	7	2	5
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	1	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	0	7

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	26	8	9	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	Identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology				0-500m		
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site				Identified		
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site				Identified		
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	2	0
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	8	8
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	2	1	1	1	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	Yes	No	No	No	Yes	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	358	40	238	288	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Environment Agency Zone 2 floodplains within 250m of the study site	Identified					
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Identified					
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	High					
7.4 Flood Defences within 250m of the study site	None identified					
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified					
7.6 Areas used for Flood Storage within 250m of the study site	None identified					
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Potential at Surface					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	High					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	1	1	0	1	3
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	7	0	5	16	39	103
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	1	0	0	3
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence

High

9.1.1 Maximum Shrink-Swell hazard rating identified on the study site

Very Low

9.1.2 Maximum Landslides hazard rating identified on the study site

Moderate

9.1.3 Maximum Soluble Rocks hazard rating identified on the study site

Negligible

9.1.4 Maximum Compressible Ground hazard rating identified on the study site

High

9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site

Very Low

9.1.6 Maximum Running Sand hazard rating identified on the study site

Low

9.2 Radon

9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?

No radon protective measures are necessary.

Section 10: Mining

10.1 Coal mining areas within 75m of the study site

Identified

10.2 Non-Coal Mining areas within 50m of the study site boundary

Identified

10.3 Brine affected areas within 75m of the study site

None identified

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

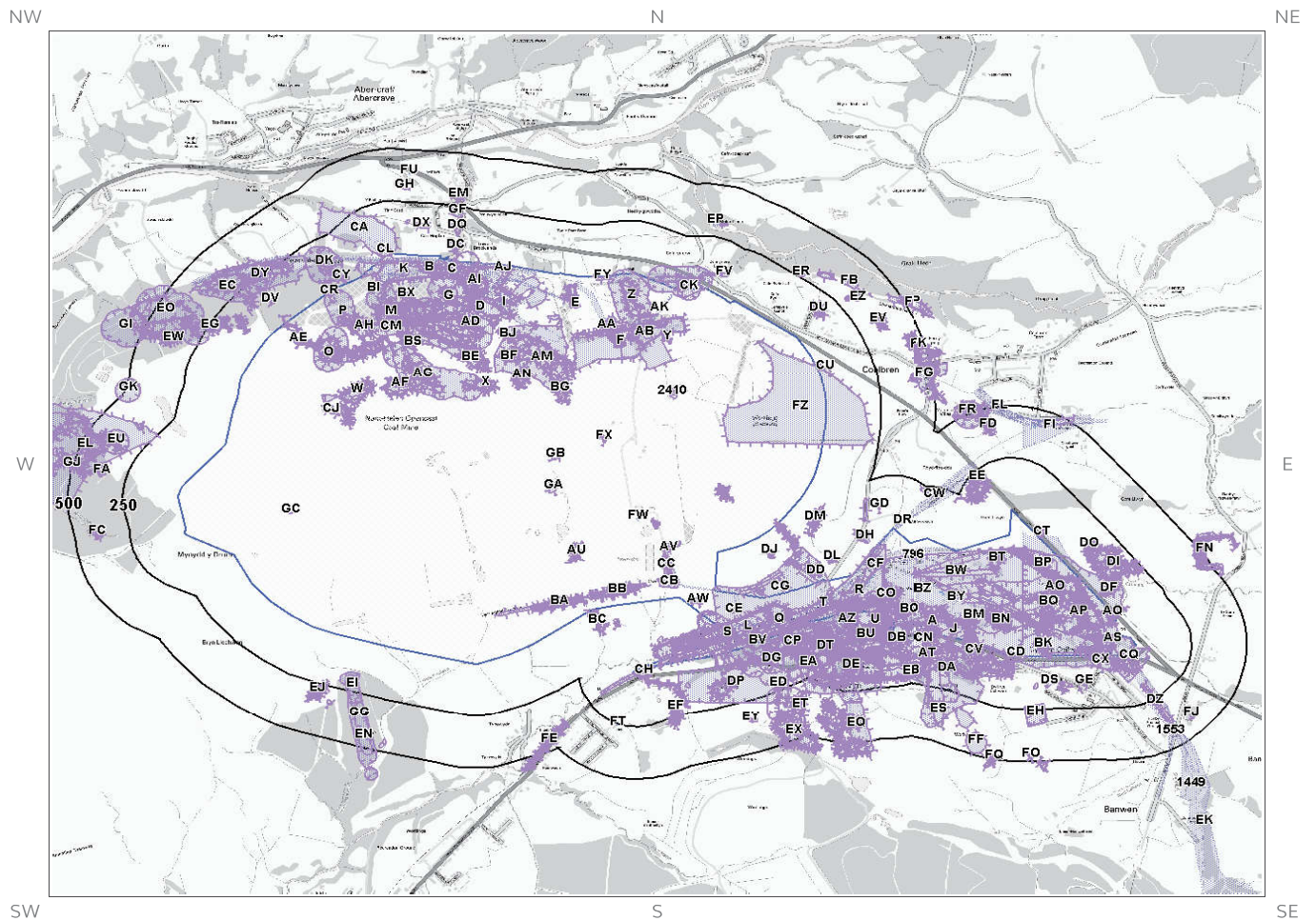
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

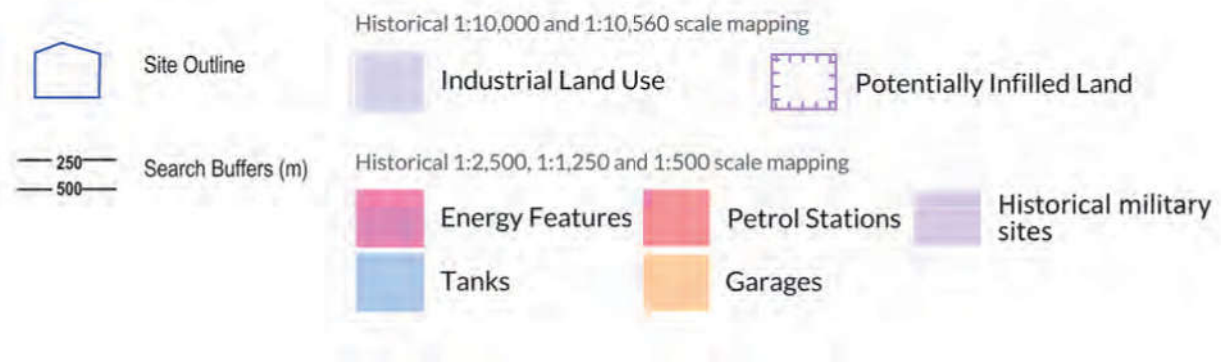
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 1838

ID	Distance [m]	Direction	Use	Date
1AR	0	On Site	Unspecified Ground Workings	1921
2AS	0	On Site	Old Coal Level	1921
3AQ	0	On Site	Unspecified Ground Workings	1921
4J	0	On Site	Unspecified Heap	1921
5BO	0	On Site	Unspecified Ground Workings	1921
6AI	0	On Site	Coal Drift	1877
7A	0	On Site	Unspecified Ground Workings	1921
8A	0	On Site	Cuttings	1921
9BM	0	On Site	Unspecified Pit	1921
10BR	0	On Site	Unspecified Ground Workings	1921
11AO	0	On Site	Unspecified Pit	1921
12AP	0	On Site	Unspecified Ground Workings	1921
13AT	0	On Site	Unspecified Ground Workings	1921
14P	0	On Site	Unspecified Ground Workings	1921
15M	0	On Site	Unspecified Pit	1948
16C	0	On Site	Sewage and Water Purification Works	1921
17B	0	On Site	Unspecified Heap	1921
18B	0	On Site	Railway Station	1921
19C	0	On Site	Unspecified Drift	1921
20D	0	On Site	Unspecified Old Level	1921
21D	0	On Site	Unspecified Drift	1921
22I	0	On Site	Refuse Heap	1921
23D	0	On Site	Unspecified Heap	1921
24H	0	On Site	Unspecified Ground Workings	1921
25AJ	0	On Site	Engine House	1921
26E	0	On Site	Unspecified Drift	1921
27E	0	On Site	Refuse Heap	1921
28F	0	On Site	Old Coal Levels	1921

29F	0	On Site	Old Coal Levels	1921
30F	0	On Site	Unspecified Heap	1921
31F	0	On Site	Unspecified Ground Workings	1921
32AK	0	On Site	Tramway Sidings	1921
33Z	0	On Site	Unspecified Ground Workings	1921
34AA	0	On Site	Unspecified Ground Workings	1921
35Y	0	On Site	Coal Trial Shaft	1921
36AB	0	On Site	Colliery	1921
37K	0	On Site	Colliery	1921
38G	0	On Site	Unspecified Old Levels	1921
39G	0	On Site	Unspecified Ground Workings	1921
40D	0	On Site	Unspecified Ground Workings	1921
41H	0	On Site	Refuse Heap	1921
42G	0	On Site	Unspecified Ground Workings	1921
43G	0	On Site	Unspecified Old Levels	1921
44I	0	On Site	Colliery	1921
45CK	0	On Site	Unspecified Drift	1948
46L	0	On Site	Unspecified Disused Mine	1965
47R	0	On Site	Railway Sidings	1921
48U	0	On Site	Unspecified Ground Workings	1921
49J	0	On Site	Unspecified Ground Workings	1921
50K	0	On Site	Engine House	1921
51AZ	0	On Site	Unspecified Drift	1948
52L	0	On Site	Unspecified Disused Mine	1987
53H	0	On Site	Tramway Sidings	1921
54C	0	On Site	Unspecified Heap	1921
55K	0	On Site	Railway Sidings	1921
56M	0	On Site	Unspecified Old Level	1921
57M	0	On Site	Unspecified Ground Workings	1921
58M	0	On Site	Unspecified Ground Workings	1921
59N	0	On Site	Unspecified Ground Workings	1921
60AD	0	On Site	Unspecified Heaps	1921
61N	0	On Site	Unspecified Ground Workings	1921
62AM	0	On Site	Unspecified Ground Workings	1921
63AN	0	On Site	Unspecified Ground Workings	1921
64X	0	On Site	Unspecified Ground Workings	1921

65O	0	On Site	Old Coal Levels	1921
66O	0	On Site	Old Coal Levels	1921
67P	0	On Site	Unspecified Ground Workings	1921
68AL	0	On Site	Unspecified Ground Workings	1921
69AE	0	On Site	Unspecified Heap	1921
70W	0	On Site	Unspecified Heap	1921
71AF	0	On Site	Unspecified Ground Workings	1921
72AG	0	On Site	Unspecified Ground Workings	1921
73AC	0	On Site	Unspecified Ground Workings	1921
74N	0	On Site	Unspecified Pit	1921
75BE	0	On Site	Unspecified Pit	1921
76M	0	On Site	Unspecified Heap	1921
77F	0	On Site	Unspecified Heap	1921
78B	0	On Site	Railway Sidings	1921
79AV	0	On Site	Old Coal Level	1921
80BA	0	On Site	Cuttings	1921
81BB	0	On Site	Cuttings	1921
82Q	0	On Site	Trial Slant	1921
83Q	0	On Site	Unspecified Old Shaft	1921
84Q	0	On Site	Railway Sidings	1921
85Q	0	On Site	Unspecified Old Shaft	1921
86Q	0	On Site	Unspecified Heap	1921
87L	0	On Site	Engine House	1921
88AW	0	On Site	Unspecified Heap	1921
89S	0	On Site	Railway Sidings	1921
90L	0	On Site	Railway Sidings	1921
91R	0	On Site	Railway Sidings	1921
92S	0	On Site	Railway Sidings	1921
93V	0	On Site	Railway Sidings	1921
94T	0	On Site	Railway Sidings	1921
95T	0	On Site	Unspecified Tank	1921
96T	0	On Site	Railway Station	1921
97AY	0	On Site	Refuse Heap	1921
98S	0	On Site	Colliery	1921
99R	0	On Site	Railway Building	1921
100AX	0	On Site	Unspecified Ground Workings	1921
101AU	0	On Site	Refuse Heaps	1921
102U	0	On Site	Unspecified Ground Workings	1921
103R	0	On Site	Unspecified Ground Workings	1921
104V	0	On Site	Colliery	1921

105E	0	On Site	Unspecified Drift	1914
106AH	0	On Site	Unspecified Ground Workings	1914
107M	0	On Site	Unspecified Ground Workings	1914
108W	0	On Site	Unspecified Heap	1914
109X	0	On Site	Unspecified Ground Workings	1914
110Y	0	On Site	Trial Shaft	1914
111Z	0	On Site	Unspecified Ground Workings	1914
112AA	0	On Site	Unspecified Ground Workings	1914
113AB	0	On Site	Unspecified Heap	1914
114AC	0	On Site	Unspecified Ground Workings	1914
115D	0	On Site	Unspecified Heap	1914
116AD	0	On Site	Unspecified Ground Workings	1914
117AC	0	On Site	Unspecified Pit	1914
118AD	0	On Site	Unspecified Heap	1914
119N	0	On Site	Unspecified Ground Workings	1914
120AE	0	On Site	Unspecified Heap	1914
121AF	0	On Site	Unspecified Ground Workings	1914
122AG	0	On Site	Unspecified Ground Workings	1914
123AH	0	On Site	Unspecified Ground Workings	1914
124P	0	On Site	Unspecified Ground Workings	1914
125K	0	On Site	Engine House	1914
126H	0	On Site	Colliery	1914
127B	0	On Site	Sewage and Water Purification Works	1914
128AI	0	On Site	Unspecified Heap	1914
129B	0	On Site	Unspecified Heap	1914
130H	0	On Site	Unspecified Drift	1914
131C	0	On Site	Unspecified Drift	1914
132AI	0	On Site	Unspecified Ground Workings	1914
133G	0	On Site	Unspecified Old Level	1914
134G	0	On Site	Unspecified Old Level	1914
135G	0	On Site	Unspecified Old Level	1914
136B	0	On Site	Railway Sidings	1914
137B	0	On Site	Railway Sidings	1914
138K	0	On Site	Colliery	1914
139AJ	0	On Site	Engine House	1914
140B	0	On Site	Railway Station	1914
141H	0	On Site	Tramway Sidings	1914

142AK	0	On Site	Tramway Sidings	1914
143AB	0	On Site	Colliery	1914
144O	0	On Site	Old Coal Levels	1914
145AL	0	On Site	Unspecified Ground Workings	1914
146D	0	On Site	Unspecified Ground Workings	1914
147AD	0	On Site	Unspecified Old Level	1914
148AM	0	On Site	Unspecified Ground Workings	1914
149AN	0	On Site	Unspecified Ground Workings	1914
150F	0	On Site	Old Coal Levels	1914
151F	0	On Site	Old Coal Levels	1914
152AB	0	On Site	Old Coal Levels	1914
153G	0	On Site	Unspecified Heaps	1914
154M	0	On Site	Unspecified Ground Workings	1914
155M	0	On Site	Unspecified Old Level	1914
156BN	0	On Site	Unspecified Ground Workings	1921
157J	0	On Site	Unspecified Pit	1921
158AO	0	On Site	Old Coal Level	1921
159BL	0	On Site	Unspecified Ground Workings	1921
160AO	0	On Site	Unspecified Pit	1921
161AP	0	On Site	Unspecified Ground Workings	1921
162BT	0	On Site	Unspecified Heap	1921
163AO	0	On Site	Unspecified Ground Workings	1921
164AQ	0	On Site	Unspecified Ground Workings	1921
165BK	0	On Site	Unspecified Ground Workings	1921
166AR	0	On Site	Old Coal Level	1921
167AS	0	On Site	Old Coal Pit	1921
168AR	0	On Site	Unspecified Ground Workings	1921
169AO	0	On Site	Cuttings	1921
170AT	0	On Site	Unspecified Ground Workings	1921
171AU	0	On Site	Refuse Heap	1914
172AV	0	On Site	Old Level (Coal)	1914
173AV	0	On Site	Unspecified Ground Workings and Heap	1914
174AW	0	On Site	Unspecified Heap	1914
175Q	0	On Site	Unspecified Old Shaft	1914
176Q	0	On Site	Trial Slant	1914
177S	0	On Site	Engine House	1914
178Q	0	On Site	Unspecified Old Shaft	1914

179T	0	On Site	Unspecified Tank	1914
180BC	0	On Site	Unspecified Ground Workings	1914
181AX	0	On Site	Unspecified Ground Workings	1914
182BD	0	On Site	Unspecified Ground Workings	1914
183T	0	On Site	Railway Station	1914
184T	0	On Site	Railway Sidings	1914
185AY	0	On Site	Refuse Heap	1914
186L	0	On Site	Refuse Heap	1914
187U	0	On Site	Unspecified Ground Workings	1914
188R	0	On Site	Unspecified Ground Workings	1914
189AZ	0	On Site	Colliery	1914
190L	0	On Site	Colliery	1914
191BA	0	On Site	Cuttings	1914
192BB	0	On Site	Cuttings	1914
193AU	0	On Site	Refuse Heap	1914
194AV	0	On Site	Old Level (Coal)	1914
195AV	0	On Site	Unspecified Ground Workings and Heap	1914
196AW	0	On Site	Unspecified Heap	1914
197Q	0	On Site	Unspecified Old Shaft	1914
198Q	0	On Site	Trial Slant	1914
199S	0	On Site	Engine House	1914
200Q	0	On Site	Unspecified Old Shaft	1914
201T	0	On Site	Unspecified Tank	1914
202BC	0	On Site	Unspecified Ground Workings	1914
203AX	0	On Site	Unspecified Ground Workings	1914
204BD	0	On Site	Unspecified Ground Workings	1914
205T	0	On Site	Railway Station	1914
206T	0	On Site	Railway Sidings	1914
207AY	0	On Site	Refuse Heap	1914
208L	0	On Site	Refuse Heap	1914
209U	0	On Site	Unspecified Ground Workings	1914
210R	0	On Site	Unspecified Ground Workings	1914
211AZ	0	On Site	Colliery	1914
212L	0	On Site	Colliery	1914
213BA	0	On Site	Cuttings	1914
214BB	0	On Site	Cuttings	1914
215AC	0	On Site	Unspecified Ground Workings	1948
216AF	0	On Site	Unspecified Ground	1948