Envirocheck® Report:

Datasheet

Order Details:

Order Number:
332995318_1_1

Customer Reference:
085447

National Grid Reference:
316740, 955180

Slice:
B

Site Area (Ha):
12.64

Search Buffer (m):
1000

Site Details:

Site at 315680, 955050

Client Details:

Mr M Lane
Curtins Consulting Ltd
1a Bedford Road
Edinburgh
EH4 3BL

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	9
Hazardous Substances	-
Geological	10
Industrial Land Use	13
Sensitive Land Use	-
Data Currency	14
Data Suppliers	18
Useful Contacts	19

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Report Version v53.0

curtins

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				2
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2			Yes	
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 2	Yes	n/a	n/a	n/a
Drift Deposits	pg 2	1	n/a	n/a	n/a
Source Protection Zones					
River Flood Data (Scotland)				n/a	n/a
OS Water Network Lines	pg 2			7	48
Waste					
BGS Recorded Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 9	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 9				2
Potentially Infilled Land (Water)					
Registered Landfill Sites	pg 9				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

curtins

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 10	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 10	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 10			1	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 11	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 12	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 13				1
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 13				6
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Gas Pipelines					

curtins

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
National Scenic Areas					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (S)	0	1	316736 955150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	0	1	315800 955050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	0	1	316250 954900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	316150 955100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	315800 955200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	316150 955150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	316050 955050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	316000 955179
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	10	1	315850 955179
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	16	1	316300 955000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	21	1	316300 955100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	66	1	316200 955050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	89	1	316300 955050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	167	1	316350 955050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	192	1	316050 954800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	194	1	316350 955000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW (SW)	235	1	316500 954900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5NW (S)	279	1	316736 955000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	300	1	316400 954900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	327	1	316250 954750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	377	1	316300 954750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	387	1	315800 955700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	442	1	316250 954650
1	**Discharge Consents** Operator: Unknown Operator Property Type: Industrial Parks & Estates Location: Spittal Mains Quarry, WATTEN, Caithness Authority: Scottish Environment Protection Agency, North Region Catchment Area: Not Given Reference: 26 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 3rd April 1995 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Cooling Water (Direct) Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Tributary Of Houstry Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	B5SW (S)	769	2	316600 954500
2	**Discharge Consents** Operator: Unknown Operator Property Type: Not Given Location: Pipers Cottage, Spittal, WICK, Caithness Authority: Scottish Environment Protection Agency, North Region Catchment Area: Not Given Reference: 92 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 1st May 1987 Revocation Date: Not Supplied Discharge Type: Unknown Discharge Environment: Groundwater Receiving Water: Soakaway **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	B1NW (S)	991	2	316700 954300
	Nearest Surface Water Feature	B5NW (SW)	375	-	316479 954920
	Groundwater Vulnerability Geological Classification: Minor or Moderately Permeable Aquifer - Fractured or potentially fractured rocks which do not have a high primary permeability or other formations of variable permeability Soil Classification: Not classified Map Sheet: Map of Scotland Scale: 1:625,000	B9SW (SE)	0	3	316736 955179
	Drift Deposits Drift Deposit: Low permeability drift deposits which include till, head, peat, lacustrine deposits, clay-with-flints and brick earths Map Sheet: Map of Scotland Scale: 1:625,000	B9SW (SE)	0	3	316736 955179
	River Flood Data (Scotland) None				
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 523.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (SW)	290	4	316468 954828
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 222.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (SW)	375	4	316549 954980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (SW)	424	4	316573 955001
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 303.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (S)	435	4	316719 954863
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (SW)	440	4	316591 955016
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (SW)	446	4	316589 955041
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (SW)	453	4	316618 955016
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (S)	570	4	316717 955062
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 199.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 2	B9NW (N)	592	4	316558 955650
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 2	B9NW (N)	607	4	316588 955724
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 2	B9NW (NW)	607	4	316510 955716

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (S)	645	4	316740 954863
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NW (S)	645	4	316786 954995
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B5NE (S)	648	4	316791 955015
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B9NW (N)	714	4	316626 955736
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B9NW (N)	715	4	316644 955710
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SW (N)	716	4	316562 955830
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 2	B13SW (N)	716	4	316562 955830
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B9NW (N)	718	4	316684 955654
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 363.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 2	B13SW (N)	718	4	316555 955840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 150.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SW (N)	719	4	316563 955832
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B9NW (N)	730	4	316687 955650
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B9NW (N)	731	4	316728 955590
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 462.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SW (N)	765	4	316538 955930
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	780	4	316924 954982
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	786	4	316924 954982
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	786	4	316942 955011
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	800	4	316957 955033
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	811	4	316979 955075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B9SE (E)	813	4	316964 955105
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 127.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (S)	826	4	316900 954777
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 2	B9SE (E)	836	4	316986 955155
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B9SE (E)	838	4	316988 955159
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B9SE (E)	838	4	316988 955159
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B9SE (E)	845	4	316994 955173
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 363.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B9SE (E)	845	4	316994 955173
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 163.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 2	(N)	849	4	316340 956156
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SW (N)	866	4	316653 955952

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SW (N)	876	4	316621 956001
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SE (N)	900	4	316796 955812
43	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 27.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	914	4	317031 954878
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	919	4	317019 954823
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 2	B5NE (SE)	919	4	317019 954823
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 163.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13SW (N)	920	4	316778 955902
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 206.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	B13SW (N)	925	4	316700 955990
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	975	4	317122 955009
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	978	4	317122 955009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	986	4	317083 954802
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B1NW (S)	986	4	316502 954195
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B13NW (N)	990	4	316476 956246
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 2	B5NE (SE)	994	4	317109 954859
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 237.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	996	4	317092 954799
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 212.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 1	B5NE (SE)	996	4	317112 954864
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wick River Primacy: 2	B5NE (SE)	996	4	317112 954864
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 290.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: River Thurso Primacy: 1	B1NW (S)	1000	4	316688 954282

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: The Highland Council - Data has not been requested from this authority		0	5	316736 955179
58	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	B5SW (S)	708	-	316506 954513
59	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	B1NW (S)	928	-	316689 954369
60	**Registered Landfill Sites** Licence Holder: A & D Sutherland Ltd Licence Reference: WML/N/50087 (21-003 Site Location: Spittal Mains Quarry, Spittal, Halkirk, Caithness Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 69 Princes Street, Thurso, Caithness Authority: Scottish Environment Protection Agency, North Region Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: Waste produced/controlled by licence holder Status: Licence has completion certificateSurrendered Dated: 1st May 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Construction Ind. Wastes Earth,Stones Rubble Scrap Metal Prohibited Waste: Hazardous Wastes	B5SW (S)	858	2	316749 954502

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Middle Old Red Sandstone (Undifferentiated)	B9SW (SE)	0	1	316736 955179
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: no data Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9SW (S)	0	1	316737 955169
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B9SW (SE)	243	1	316736 955179
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: no data Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B13SW (N)	627	1	316736 956000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B5SW (S)	867	1	316766 954492
61	**BGS Recorded Mineral Sites** Site Name: Spittal Mains Quarries Location: Spittal, Watten, Wick, Caithness-Shire Source: British Geological Survey, National Geoscience Information Service Reference: 180142 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: Spital Flagstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B5NW (SW)	480	1	316466 954763
62	**BGS Recorded Mineral Sites** Site Name: Spittal Mains Quarries Location: Spittal, Watten, Wick, Caithness-Shire Source: British Geological Survey, National Geoscience Information Service Reference: 180145 Type: Opencast **Status: Ceased** Operator: Caithness Flagstone Ltd. Operator Location: Not Supplied Periodic Type: Devonian Geology: Spital Flagstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B5SW (S)	642	1	316540 954614

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**BGS Recorded Mineral Sites** Site Name: Spittal Mains Quarries Location: Spittal, Watten, Wick, Caithness-Shire Source: British Geological Survey, National Geoscience Information Service Reference: 180144 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: Spital Flagstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B5SW (S)	697	1	316508 954526
64	**BGS Recorded Mineral Sites** Site Name: Spittal Mains Quarry Location: Spittal, Watten, Wick, Caithness-Shire Source: British Geological Survey, National Geoscience Information Service Reference: 2385 Type: Opencast **Status: Active** Operator: Caithness Flagstone Ltd. Operator Location: Not Supplied Periodic Type: Devonian Geology: Spital Flagstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B5SW (S)	716	1	316735 954710
65	**BGS Recorded Mineral Sites** Site Name: Spittal Quarries Location: Spittal, Watten, Wick, Caithness-Shire Source: British Geological Survey, National Geoscience Information Service Reference: 8750 Type: Opencast **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Devonian Geology: Spital Flagstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B5SW (S)	956	1	316785 954410
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (S)	0	1	316737 955169
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	61	1	316736 955179
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (S)	0	1	316737 955169
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	243	1	316736 955179
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B9SW (SE)	0	1	316736 955179
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	0	1	316736 955000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	**Contemporary Trade Directory Entries** Name: A & D Sutherland Ltd Location: Spittal Mains Quarry, Spittal, Wick, Caithness, KW1 5XR Classification: Quarries **Status: Active** Positional Accuracy: Automatically positioned to the address	B5SW (S)	605	-	316524 954649
67	**Points of Interest - Manufacturing and Production** Name: A & D Sutherland Ltd Location: Spittal Mains Quarry, Spittal, Wick, KW1 5XR Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	B5SW (S)	605	6	316524 954649
67	**Points of Interest - Manufacturing and Production** Name: A & D Sutherland Ltd Location: Spittal Mains Quarry, Spittal, KW1 5XR Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	B5SW (S)	605	6	316524 954649
68	**Points of Interest - Manufacturing and Production** Name: Workings Location: KW1 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	B5SW (S)	656	6	316672 954726
69	**Points of Interest - Manufacturing and Production** Name: Spittal Mains Quarry Location: KW1 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	B5SW (S)	717	6	316630 954592
69	**Points of Interest - Manufacturing and Production** Name: Spittal Mains Quarry (Flagstone) Location: KW1 Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to an adjacent address or location	B5SW (S)	718	6	316632 954592
69	**Points of Interest - Manufacturing and Production** Name: Spittal Mains Quarry (Flagstone) Location: KW1 Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to an adjacent address or location	B5SW (S)	721	6	316630 954586

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Scottish Environment Protection Agency - Head Office	November 2023	Annually
The Highland Council	October 2017	Annual Rolling Update
Discharge Consents		
Scottish Environment Protection Agency - North Region	April 2002	
Enforcement and Prohibition Notices		
Scottish Environment Protection Agency - North Region	March 2013	
Integrated Pollution Controls		
Scottish Environment Protection Agency - Head Office	February 1998	
Scottish Environment Protection Agency - North Region	March 2002	
Local Authority Pollution Prevention and Controls		
Scottish Environment Protection Agency - North Region	March 2002	Not Applicable
Local Authority Pollution Prevention and Control Enforcements		
Scottish Environment Protection Agency - North Region	June 2001	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2023	
Prosecutions Relating to Authorised Processes		
Scottish Environment Protection Agency - North Region	March 2013	
Prosecutions Relating to Controlled Waters		
Scottish Environment Protection Agency - North Region	March 2013	
Registered Radioactive Substances		
Scottish Environment Protection Agency - North Region	February 1998	
Scottish Environment Protection Agency - Head Office	January 1998	
River Quality		
Scottish Environment Protection Agency - Head Office	December 1990	Not Applicable
Scottish Environment Protection Agency - North Region	December 1990	Not Applicable
Water Abstractions		
Scottish Government - Agriculture, Environment and Fisheries Department	February 2004	
Water Industry Act Referrals		
Scottish Environment Protection Agency - North Region	April 1996	
Groundwater Vulnerability		
Scottish Environment Protection Agency - North Region	December 1995	Not Applicable
Scottish Environment Protection Agency - Head Office	December 1995	
Drift Deposits		
Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
Scottish Environment Protection Agency - North Region	December 1995	Not Applicable
OS Water Network Lines		
Ordnance Survey	October 2023	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Integrated Pollution Control Registered Waste Sites		
Scottish Environment Protection Agency - Head Office	March 2002	Not Applicable
Scottish Environment Protection Agency - North Region	March 2002	Not Applicable
Local Authority Landfill Coverage		
The Highland Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
The Highland Council	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Scottish Environment Protection Agency - Head Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Aberdeen Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Elgin Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Fort William Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Fraserburgh Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Orkney Islands Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Shetland Islands Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Thurso Office	March 2006	Not Applicable
Scottish Environment Protection Agency - North Region - Western Isles Office	March 2006	Not Applicable
Registered Waste Transfer Sites		
Scottish Environment Protection Agency - Head Office	April 2018	
Scottish Environment Protection Agency - North Region	April 2018	
Scottish Environment Protection Agency - North Region - Aberdeen Office	April 2018	
Scottish Environment Protection Agency - North Region - Elgin Office	April 2018	
Scottish Environment Protection Agency - North Region - Fort William Office	April 2018	
Scottish Environment Protection Agency - North Region - Fraserburgh Office	April 2018	
Scottish Environment Protection Agency - North Region - Orkney Islands Office	April 2018	
Scottish Environment Protection Agency - North Region - Shetland Islands Office	April 2018	
Scottish Environment Protection Agency - North Region - Thurso Office	April 2018	
Scottish Environment Protection Agency - North Region - Western Isles Office	April 2018	
Registered Waste Treatment or Disposal Sites		
Scottish Environment Protection Agency - Head Office	June 2015	
Scottish Environment Protection Agency - North Region	June 2015	
Scottish Environment Protection Agency - North Region - Aberdeen Office	June 2015	
Scottish Environment Protection Agency - North Region - Elgin Office	June 2015	
Scottish Environment Protection Agency - North Region - Fort William Office	June 2015	
Scottish Environment Protection Agency - North Region - Fraserburgh Office	June 2015	
Scottish Environment Protection Agency - North Region - Orkney Islands Office	June 2015	
Scottish Environment Protection Agency - North Region - Shetland Islands Office	June 2015	
Scottish Environment Protection Agency - North Region - Thurso Office	June 2015	
Scottish Environment Protection Agency - North Region - Western Isles Office	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements The Highland Council - Planning Department	April 2016	Variable
Planning Hazardous Substance Consents The Highland Council - Planning Department	April 2016	Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2023	Quarterly
Points of Interest - Education and Health PointX	December 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2023	Quarterly
Points of Interest - Public Infrastructure PointX	December 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2023	Quarterly
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland NatureScot	October 2023	Bi-Annually
Areas of Adopted Green Belt The Highland Council	August 2023	Quarterly
Areas of Unadopted Green Belt The Highland Council	August 2023	Quarterly
Environmentally Sensitive Areas Scottish Government	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves The Highland Council	August 2023	Bi-Annually
Marine Nature Reserves NatureScot	October 2023	Bi-Annually
National Nature Reserves NatureScot	August 2023	Bi-Annually
National Parks Scottish Government	February 2018	Bi-Annually
National Scenic Areas Scottish Government	November 2023	Bi-Annually
Nitrate Vulnerable Zones Scottish Government	March 2023	Annually
Ramsar Sites NatureScot	October 2023	Bi-Annually
Sites of Special Scientific Interest NatureScot	October 2023	Bi-Annually
Special Areas of Conservation NatureScot	October 2023	Bi-Annually
Special Protection Areas NatureScot	October 2023	Bi-Annually

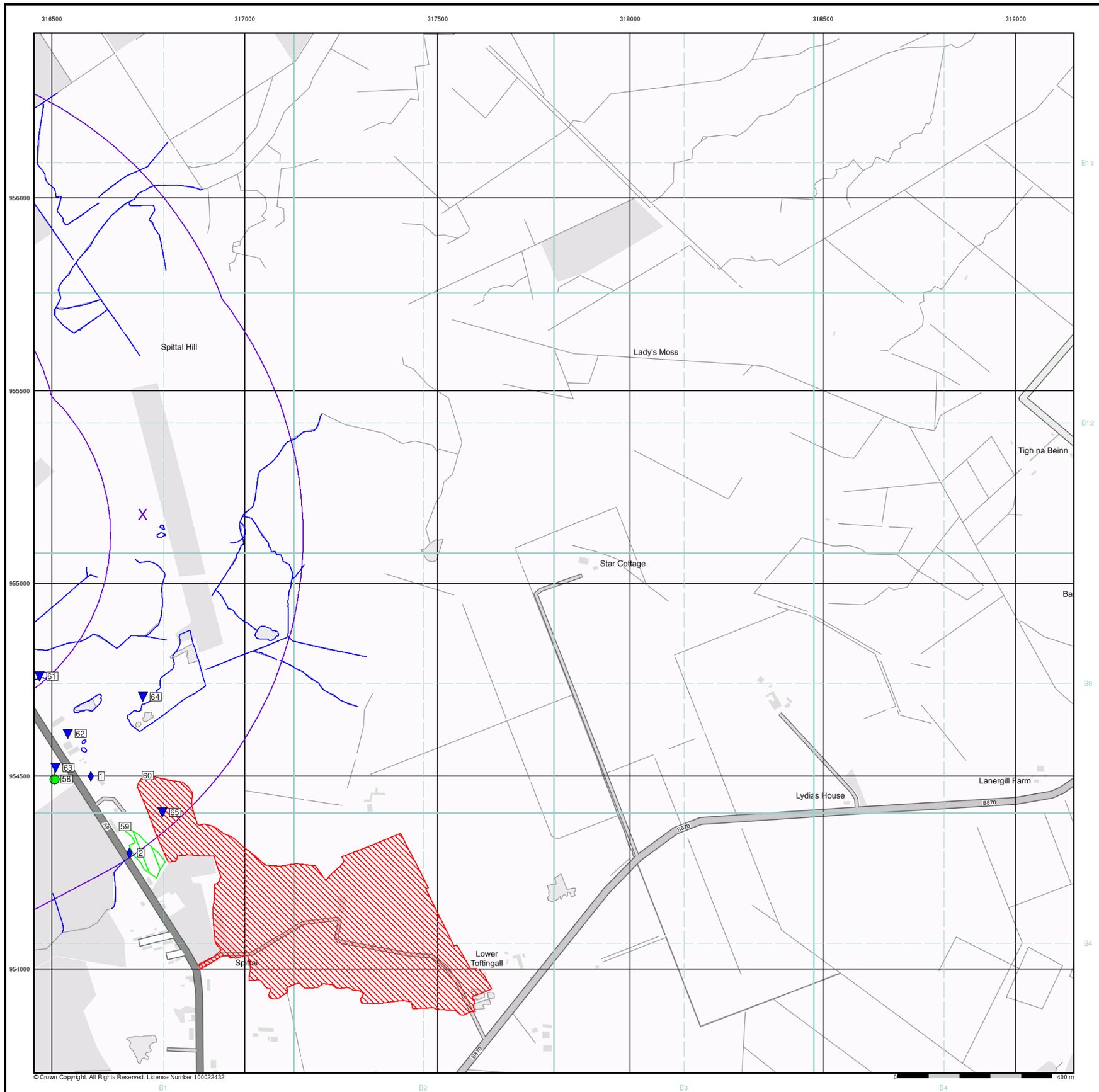
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Scottish Environment Protection Agency - North Region** Graesser House, Fodderty Way, Dingwall Business Park, Dingwall, Highland, IV15 9XB	Telephone: 01349 862021 Fax: 01349 863987
3	**Scottish Environment Protection Agency - Head Office** Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**The Highland Council** Council Offices, Glenurquhart Road, Inverness, Invernesshire, IV3 5NX	Telephone: 01463 702000 Fax: 01463 702830 Website: www.highland.gov.uk
6	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
7	**NatureScot** Great Glen House, Leachkin Road, Inverness, IV3 8NW	Telephone: 01463 725000 Email: enquiries@nature.scot Website: www.nature.scot
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



curtins

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

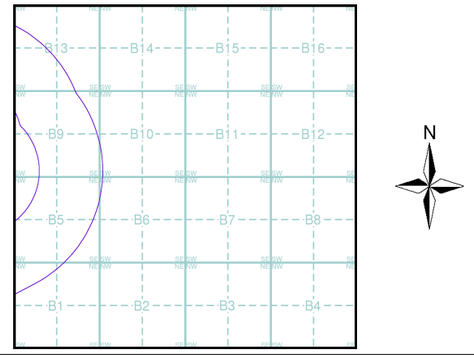
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice B



Order Details

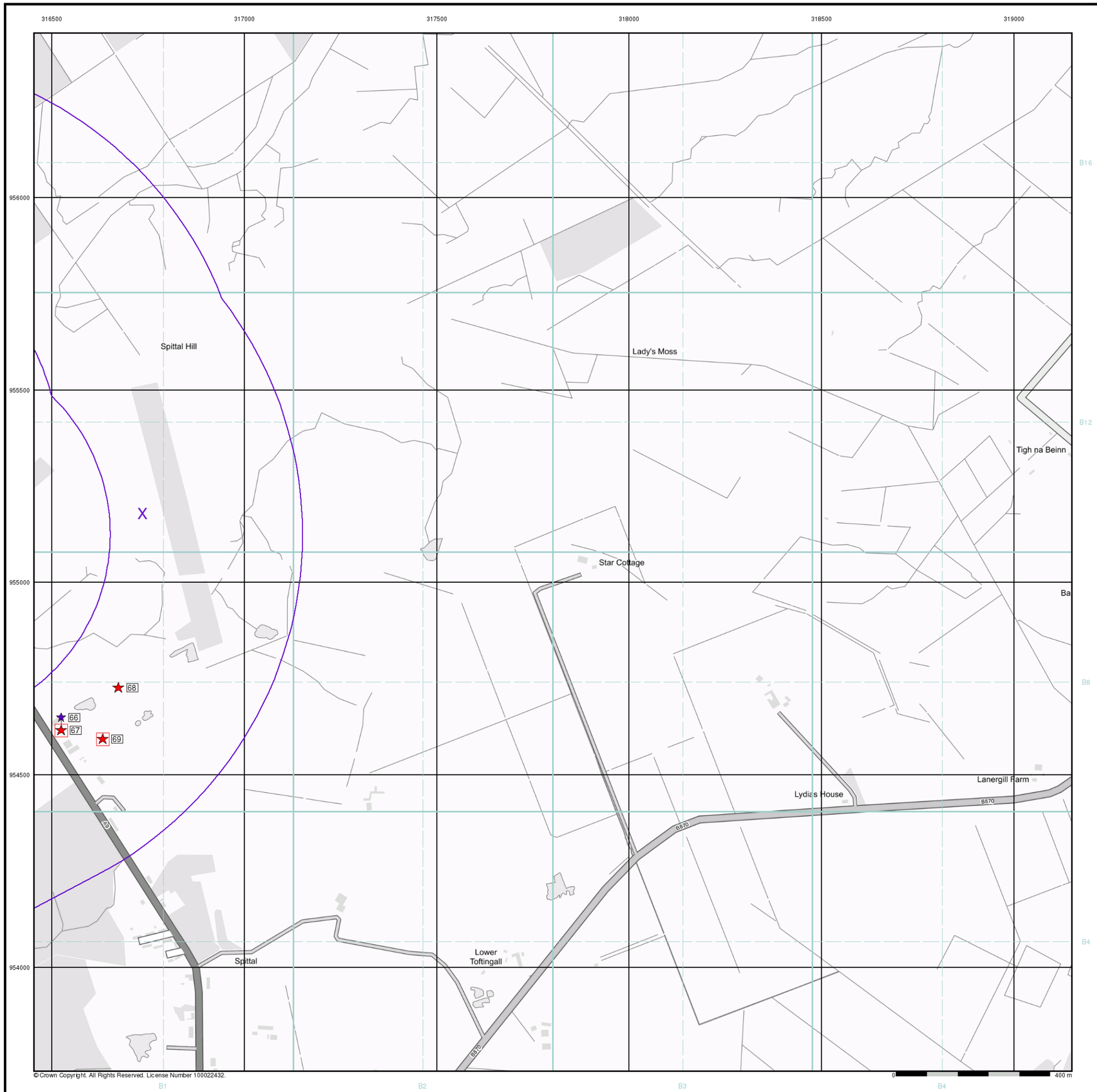
Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Industrial Land Use Map

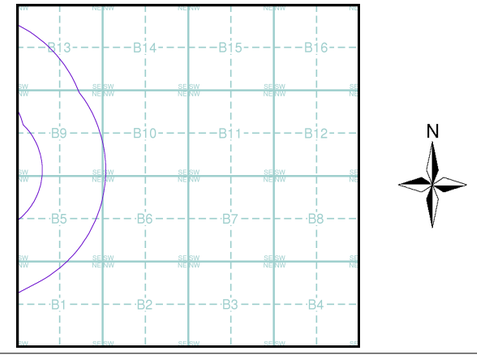
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice B



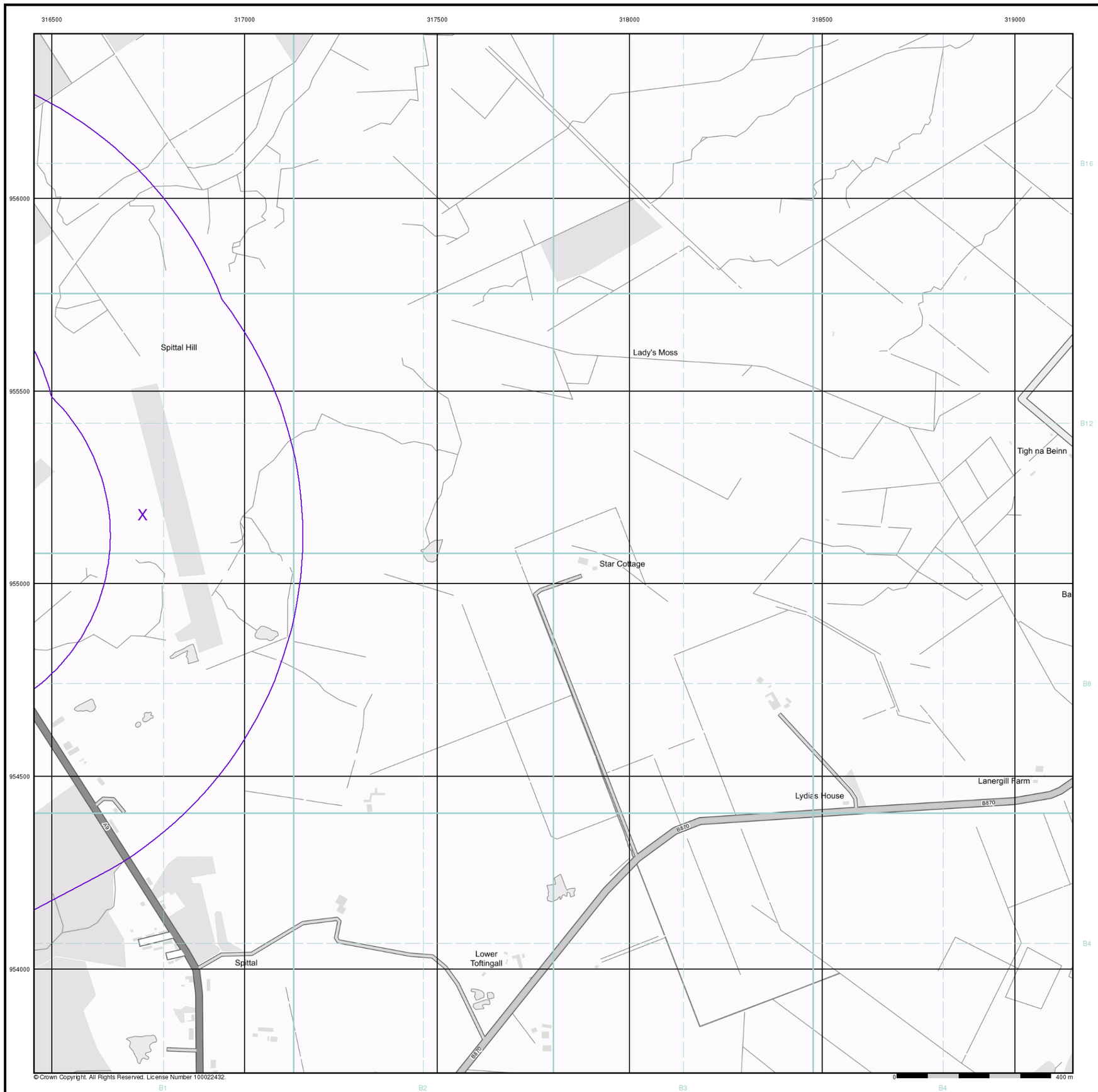
Order Details

Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

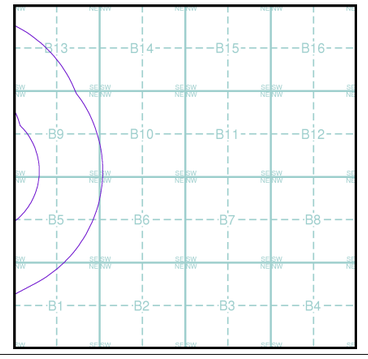
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- 0 - 1m estimated 100yr flood depth
- 1 - 2m estimated 100yr flood depth
- Over 2m estimated 100yr flood depth

The flooded areas have been generated using a generalised technique and should not, by themselves, be used to infer that specific areas are or are not at risk of inundation. Flood risk at any specific location may be influenced by local factors - not least flood defence - that have not been taken into account.

Flood Map - Slice B



Order Details

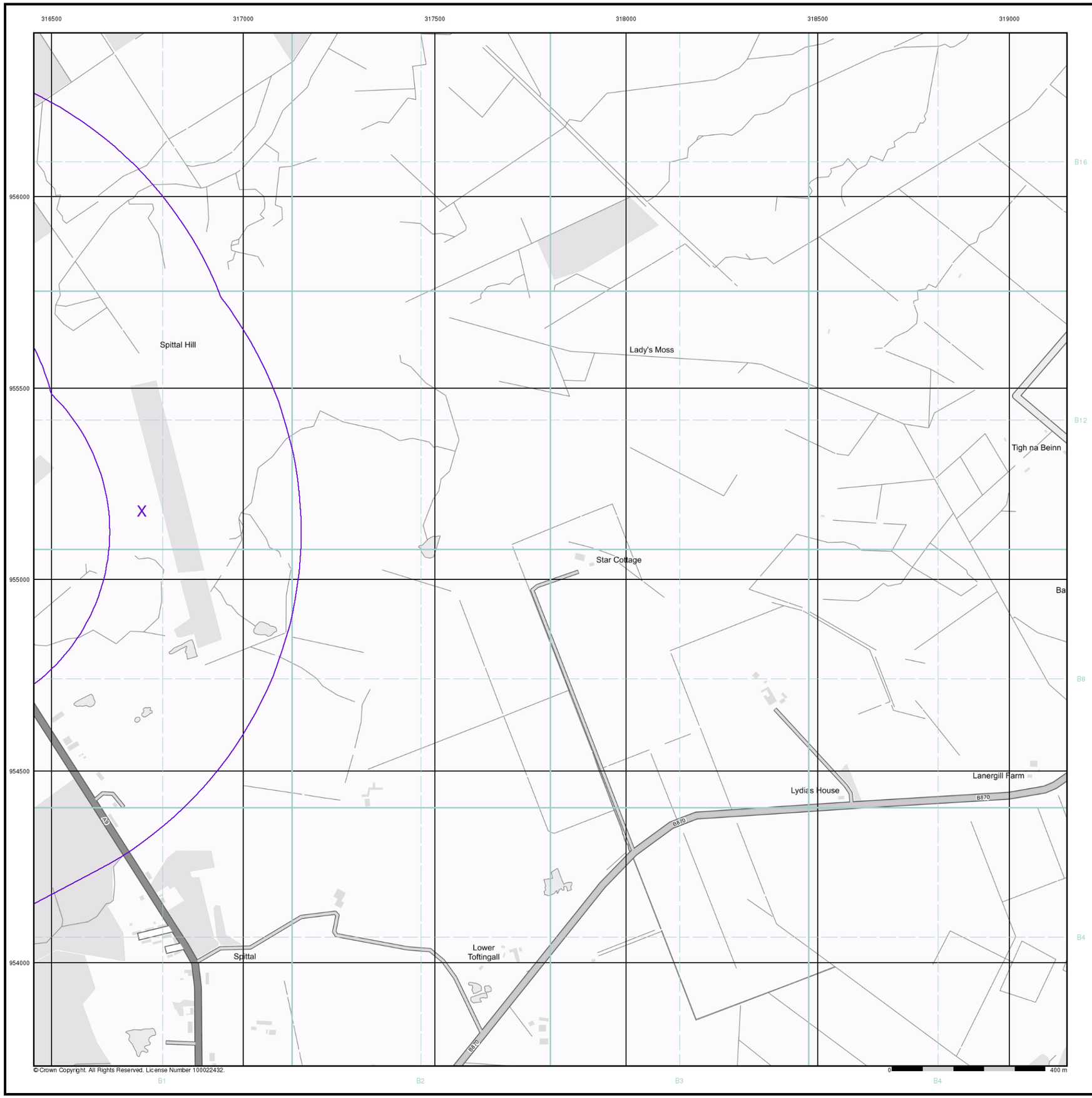
Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

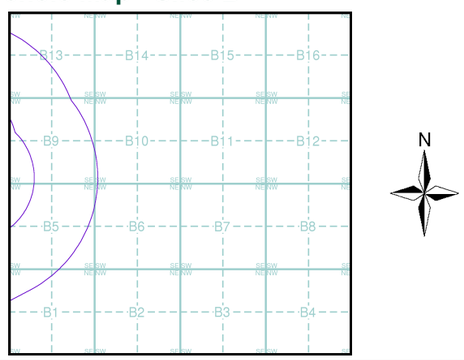
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice B



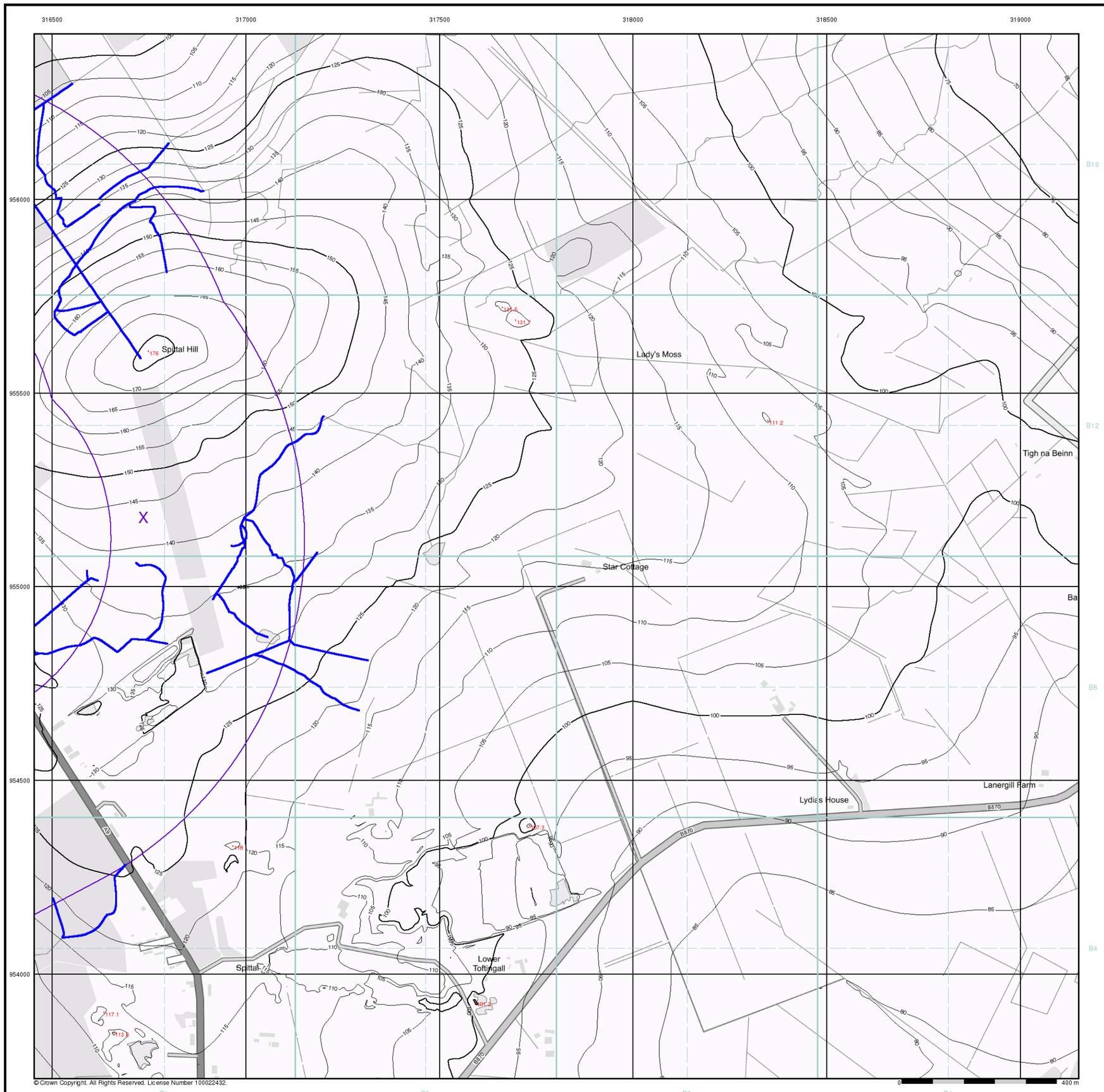
Order Details

Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

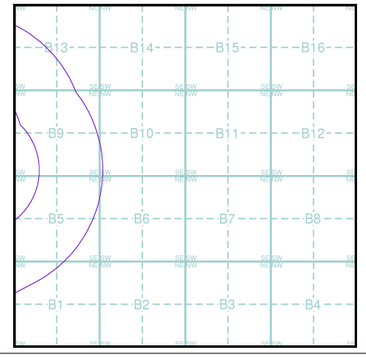
OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water Springs
- MHW Mean High Water Springs

OS Water Network Map - Slice B



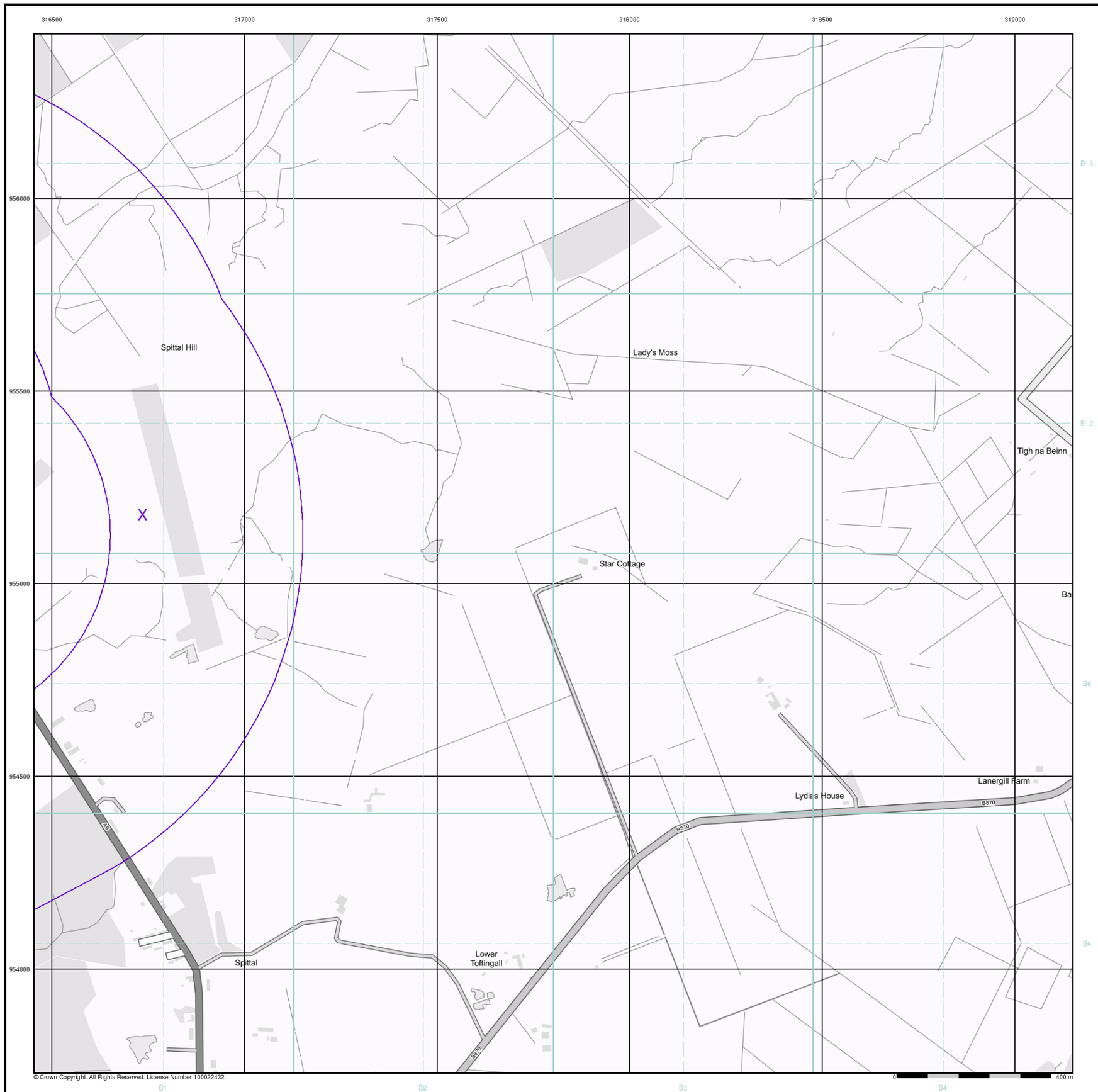
Order Details

Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Risk of Flooding from Surface Water

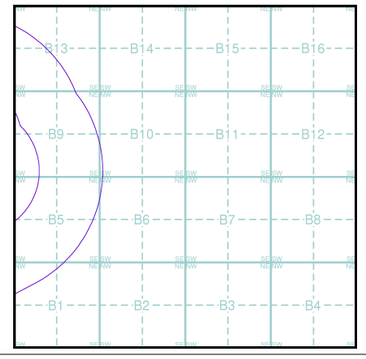
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice B



Order Details

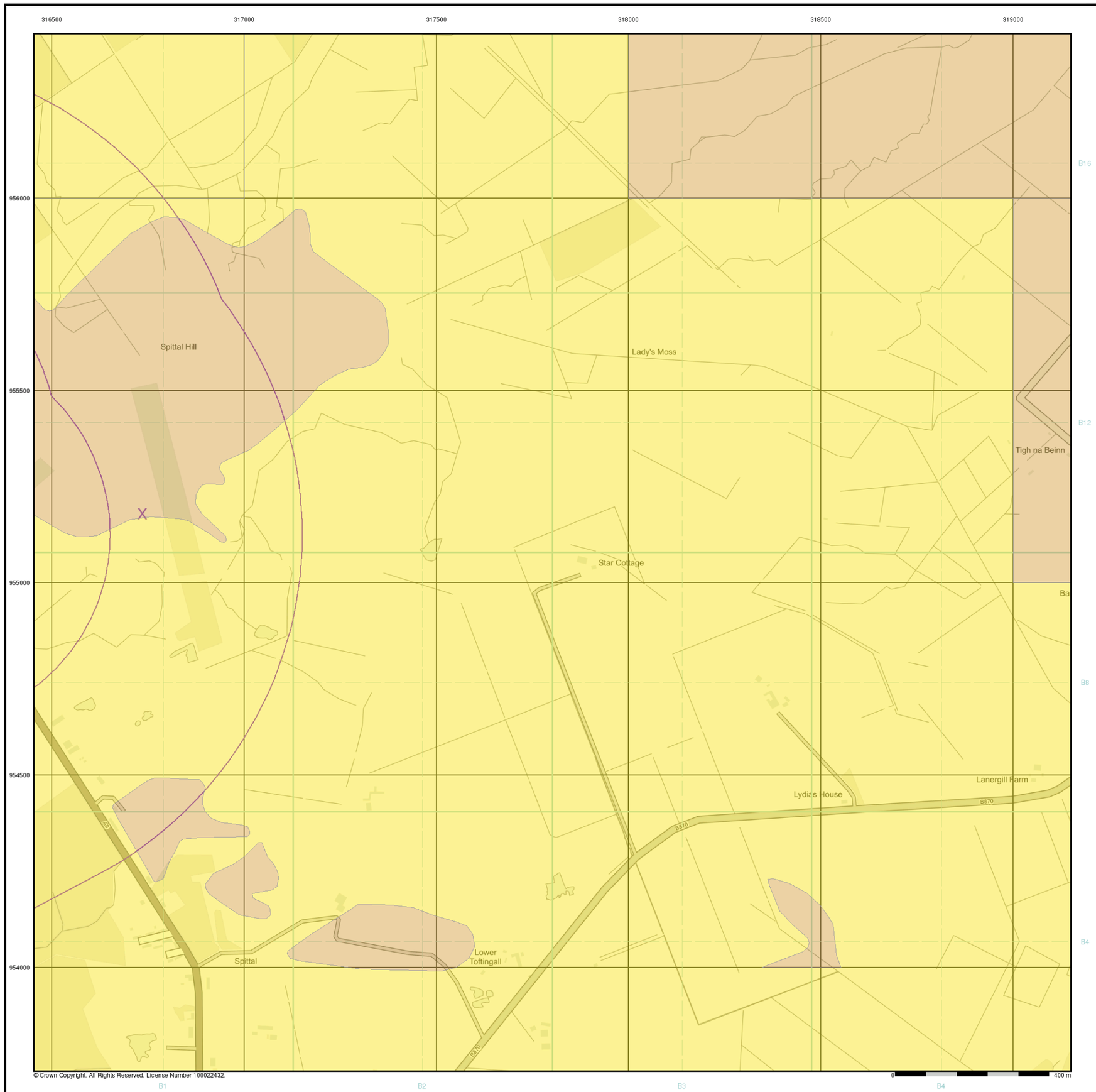
Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

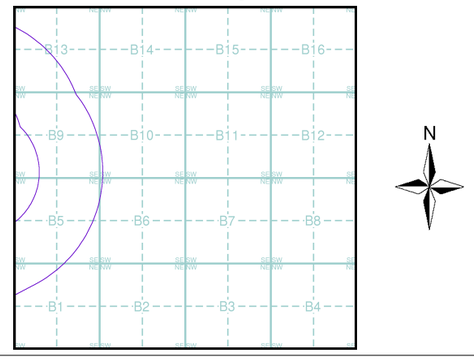
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice B



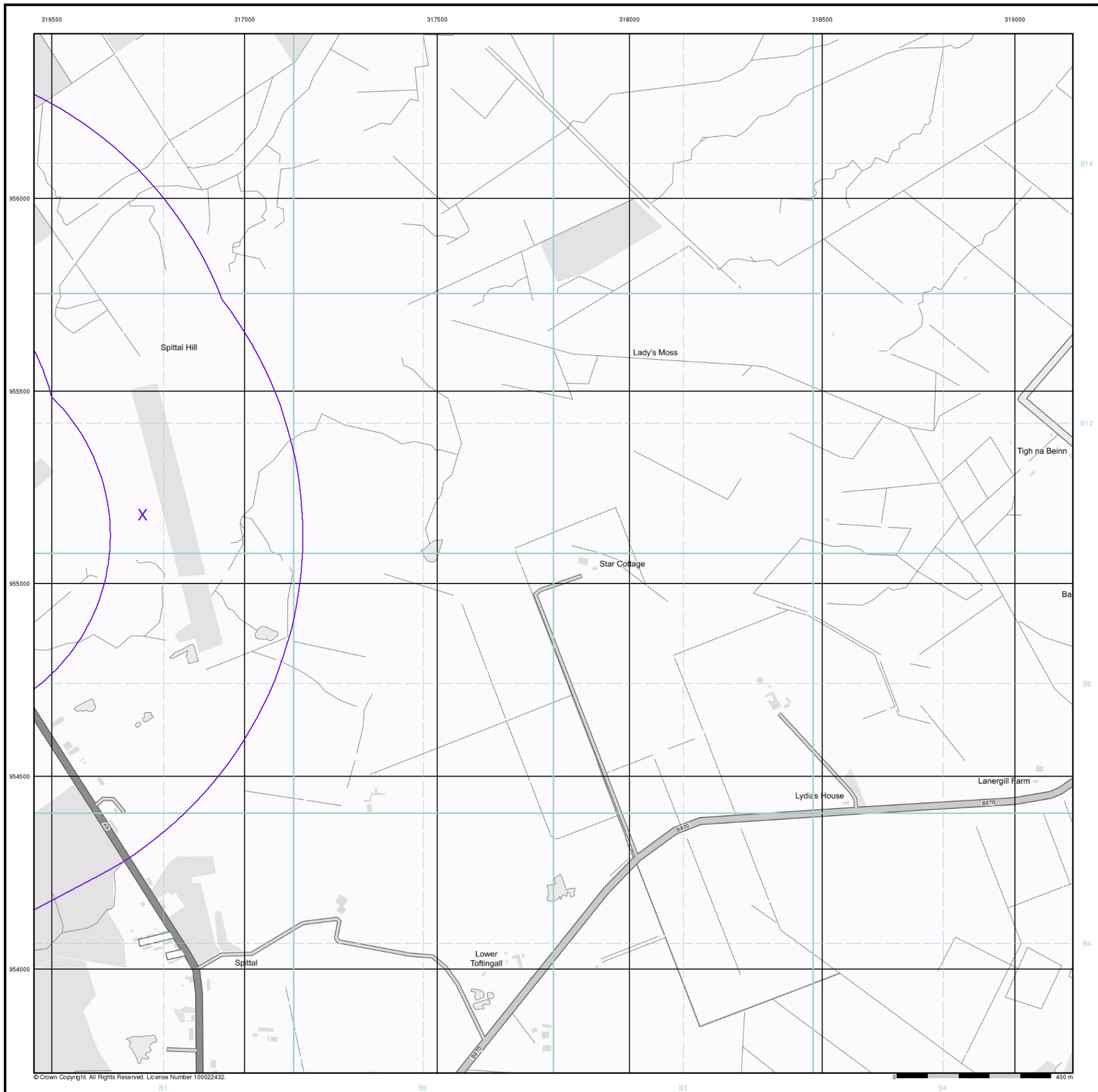
Order Details

Order Details:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

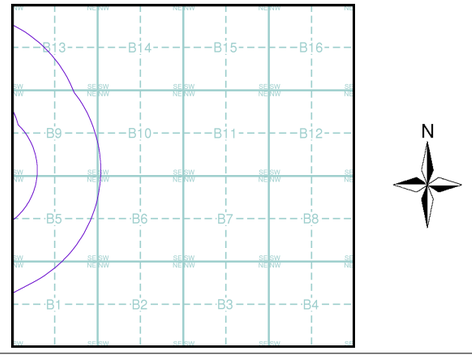
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice B



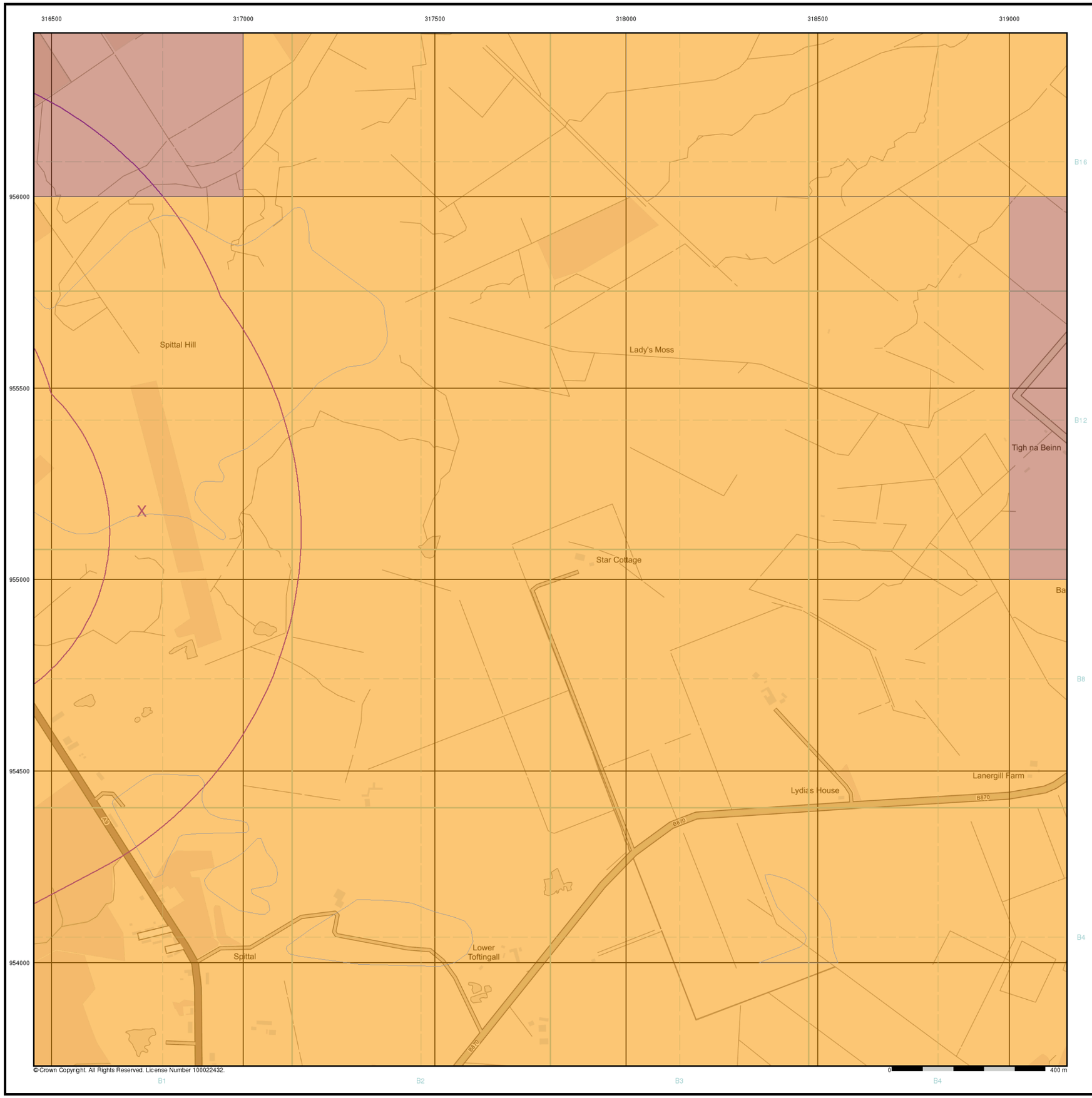
Order Details

Order Details:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

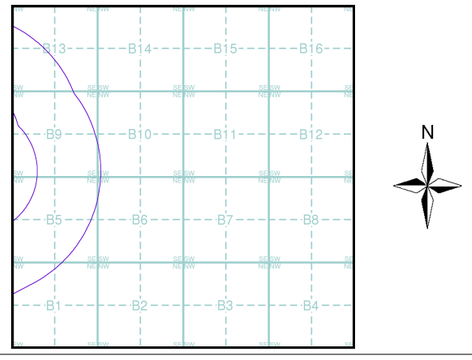
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice B



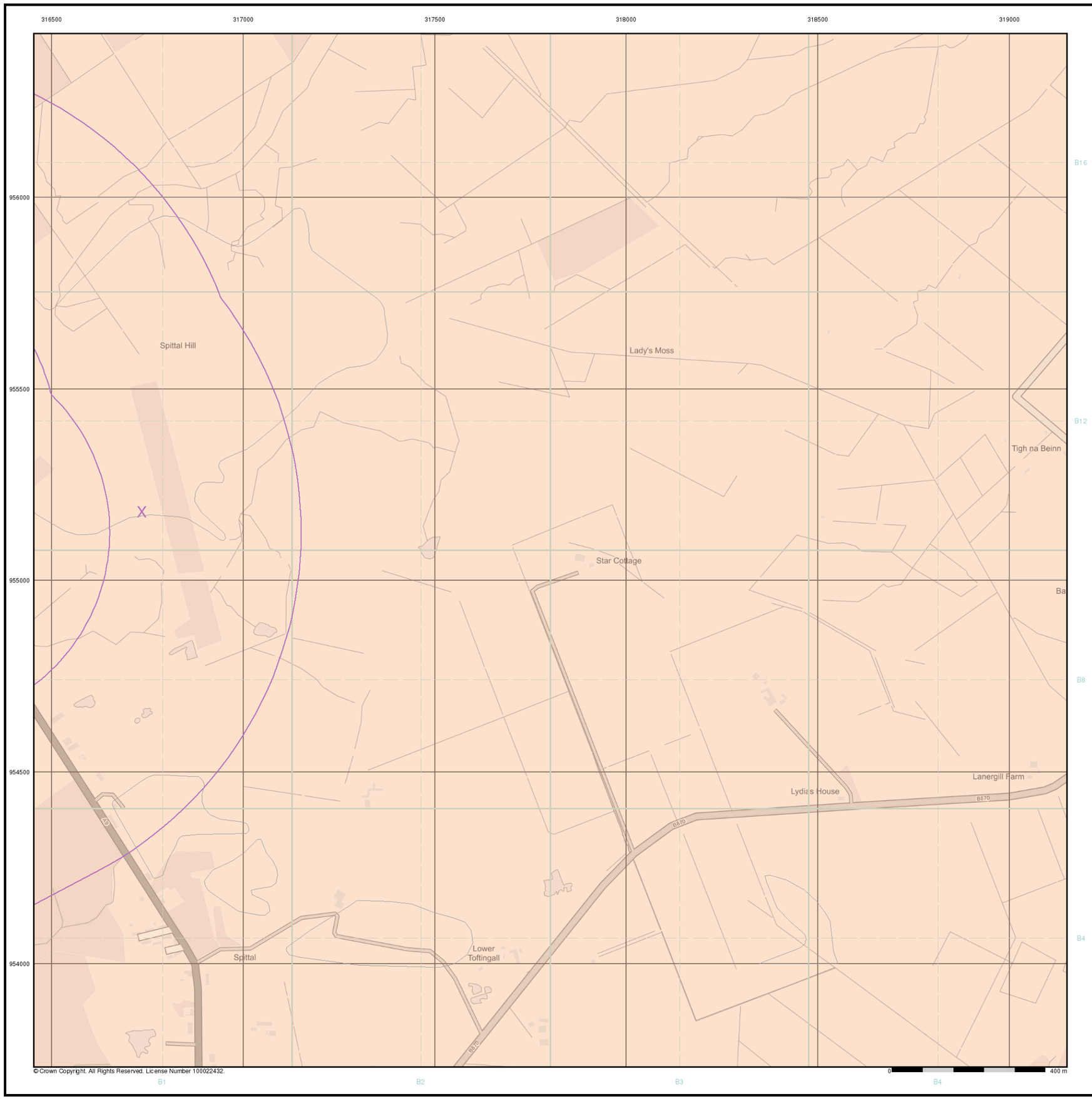
Order Details

Order Details:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

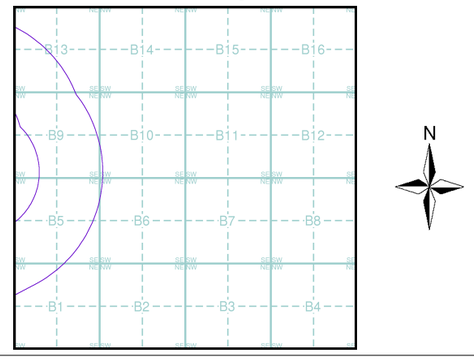
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice B



Order Details

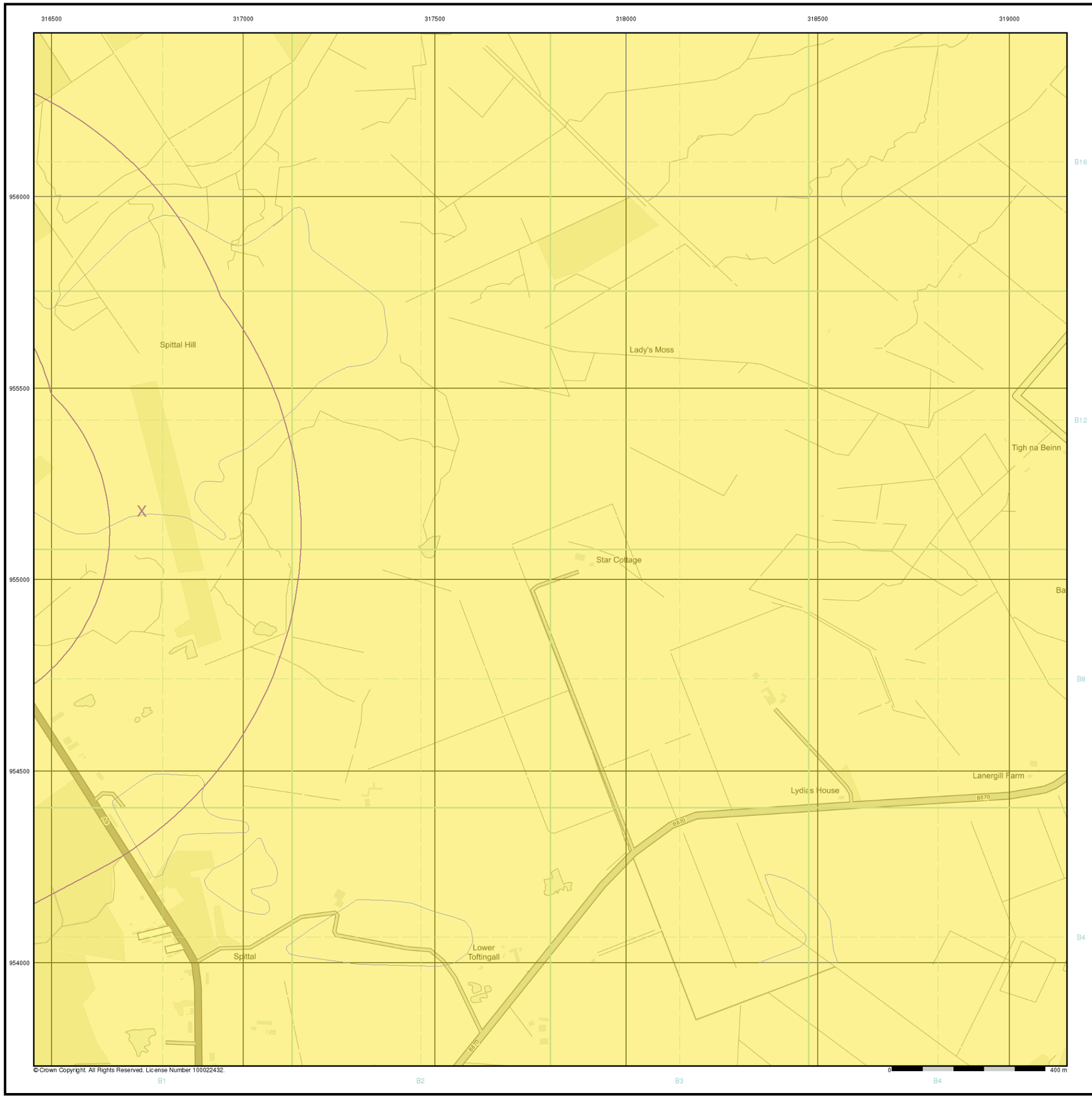
Order Details:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



curtins

General

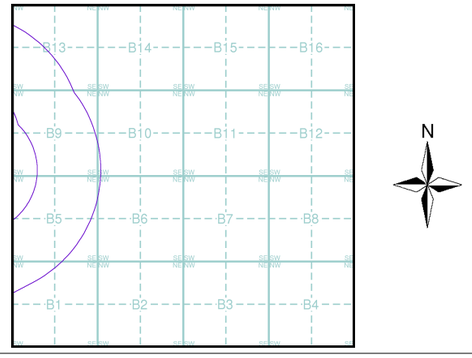
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice B



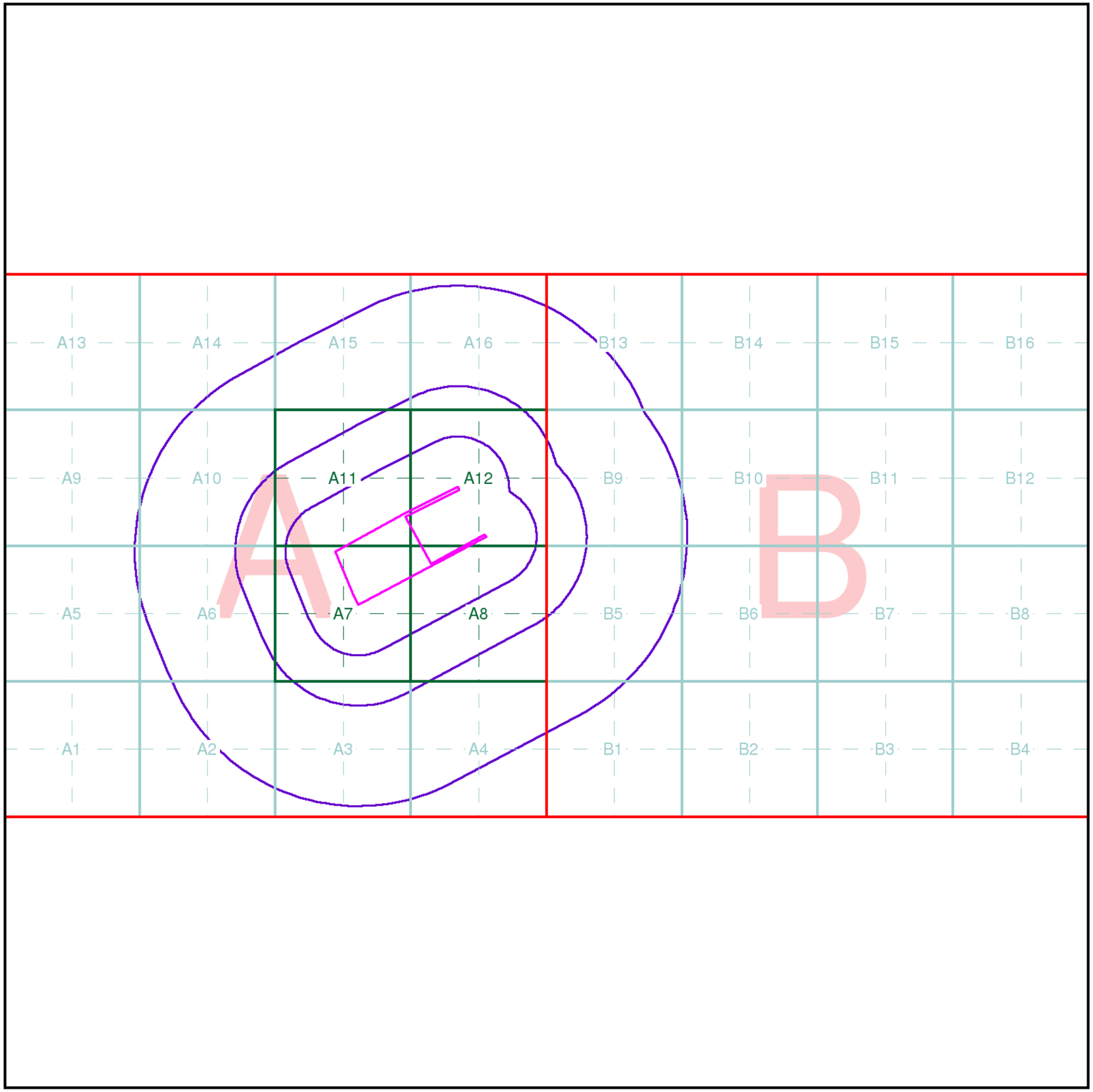
Order Details

Order Details:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	316740, 955180
Slice:	B
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr M Lane, Curtins Consulting Ltd, 1a Bedford Road, Edinburgh, EH4 3BL

Order Details

Order Number:	332995318_1_1
Customer Ref:	085447
National Grid Reference:	315660, 955020
Site Area (Ha):	12.64
Search Buffer (m):	1000

Site Details

Site at 315680, 955050

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

8.3 Appendix C – Qualitative Risk Assessment Rationale

The site-specific risk assessment, presented in this report, follows the principle of establishing whether there is a viable linkage between a contaminant source to a potential receptor, via an exposure pathway.

The risk assessment corresponds with the total site area and incorporates both descriptive (qualitative) and, where available, numerical (quantitative) lines of evidence.

Risk assessment is the process of collating known information on a hazard or set of hazards to estimate actual or potential risk to receptors. The receptor may be humans, a water resource, a sensitive local ecosystem or future construction materials. Receptors can be connected to the source by one or several exposure pathways such as direct contact for example. Risks are generally managed by isolating the receptor or intercepting the exposure pathway or by isolating or removing the hazard.

Without the three essential components of a source, pathway and receptor there can be no risk. Therefore, the presence of contaminant source on a site does not necessarily mean there is a risk.

The risk assessment considers the likelihood of an event taking place (accounting for the presence of the source and receptor and the viability of the exposure pathway) in conjunction with the severity of the potential consequence (accounting for the potential severity of the hazard and the sensitivity of the receptor).

In the risk assessment, the consequence of the hazard has been classified as severe or medium or mild or minor and the probability (likelihood) of the circumstances occurring classified as high likelihood or likely or low likelihood or unlikely.

The consequences and probabilities are subsequently cross-correlated to give a qualitative estimation of the risk using Department of the Environment risk classifications as detailed in the table below and as referenced in CIRIA C552.

		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability (Likelihood)	**High Likelihood**	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	Likely	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk

In accordance with DoE guidance, the following categorisation of consequence has been developed:

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in “significant harm” as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to an ecosystem or organisation forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into the water environment. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health. Pollution of sensitive water resources. A significant change in an ecosystem or organism forming part of such ecosystem.	Concentration of a contaminant from site exceeds the generic or site-specific assessment criteria. Leaching of contaminants from a site to a Principal or Secondary A aquifer. Death of a species within a designated nature reserve. Lesser toxic and asphyxiate effects
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater (inc. Secondary B aquifers). Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

In accordance with DoE guidance, the following categorisation of probability has been developed:

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

In accordance with DoE guidance, the following categorisation of risk has been developed:

Classification	Definition
Very High Risk	There is a *high probability* that *severe harm* could arise to a designated receptor from an identified hazard at the site without appropriate further action.
High Risk	*Harm* is *likely to arise* to a designated receptor from an identified hazard at the site without appropriate further action.
Moderate Risk	*It is possible* that without appropriate further action *harm could arise* to a designated receptor. It is relatively *unlikely* that any such harm would be *severe**,*** and if any harm were to occur it is *more likely* that such harm would be *relatively mild.*
Low Risk	*It is possible* that *harm could arise* to a designated receptor from an identified hazard. It is *likely* that, at worst, if any harm was realised any effects would be *mild.*
Very Low Risk	The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

The term ‘risk’ in this instance refers to the risk that the source, pathway, receptor linkage for a given source of contamination is complete. It does not refer to immediate risk to individuals or features present on the site from potential contaminants and is intended to be used as a tool to assess the necessity of further investigation.