Envirocheck®
A Landmark® product

Envirocheck® Report

Datasheet

Report on:
The Rock,
Green Moor
Sheffield
South Yorkshire
S35 7DQ

National Grid Reference :

428190, 399430

Site Area (Ha) :

0.44

Prepared For :
Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

Your Reference:

Mr J Wood,JMW/RL/

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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 Datasheet places great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from English Nature (and the Scottish and Welsh equivalents), the Environment Agency (and the Scottish equivalent) 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 legend database to 1km from a single point or a site boundary provided by the client

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers

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Data Type	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Contaminated Land Register Entries and Notices				
Discharge Consents				9
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Nearest Surface Water Feature			Yes	
Pollution Incidents to Controlled Waters		1	1	2
Substantiated Pollution Incident Register				3
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Water Industry Act Referrals				
Registered Radioactive Substances				
River Quality		1		
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Water Abstractions			1	(*5)
Groundwater Vulnerability	Yes			
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				
Flooding from Rivers or Sea without Defences				
Areas Benefiting from Flood Defences				
Flood Water Storage Areas				
Flood Defences				
River Flood Data (Scotland)				

Data Type	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste				
BGS Recorded Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				1
Local Authority Recorded Landfill Sites			2	1
Registered Landfill Sites				1
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				1
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 Boreholes				9
BGS Recorded Mineral Sites		1	1	2
BGS 1:625,000 Solid Geology	Yes			
Brine Compensation Areas				
Coal Mining Affected Areas	Yes			
Shallow Mining Hazards	Yes			
Potential for Collapsible Ground Stability Hazards				
Potential for Compressible Ground Stability Hazards				
Potential for Ground Dissolution Stability Hazards				
Potential for Landslide Ground Stability Hazards	Yes	Yes		
Potential for Running Sand Ground Stability Hazards				
Potential for Shrinking or Swelling Clay Ground Stability Hazards		Yes		
Mining Instability	Yes			
Natural and Mining Cavities				
Radon Affected Areas				
Radon Protection Measures	Yes			
Industrial Land Use				
Contemporary Trade Directory Entries			1	1
Fuel Station Entries				

Data Type	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Uses				
Areas of Adopted Green Belt	1		1	1
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
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	1			1
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Discharge Consents					
1	Operator:	George Longden Homes Ltd	N	599	1	428030 400050
	Property Type:	Undefined Or Other				
	Location:	Proposed Residential Development Huthwaite Hall Farm,Huthwaite Lane,Thurgoland,Barnsley				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	Wa6423				
	Permit Version:	1				
	Effective Date:	16th July 1991				
	Issued Date:	16th July 1991				
	Revocation Date:	13th February 2003				
	Discharge Type:	Sewage Discharges - Final/Treated Effluent - Not Water Company				
	Discharge Environment:	Land/Soakaway				
	Receiving Water:	Gdwtrs At/Adj Prop Resid Devnt				
	Status:	**Transferred from Water Act 1989**				
	Positional Accuracy:	Located by supplier to within 100m				
	Discharge Consents					
2	Operator:	High Rocher Farm	E	820	1	429000 399700
	Property Type:	Undefined Or Other				
	Location:	Proposed Dwelling,Well Hill Road,Nr Wortley,Barnsley				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	C5378				
	Permit Version:	1				
	Effective Date:	6th January 1989				
	Issued Date:	6th January 1989				
	Revocation Date:	Not Supplied				
	Discharge Type:	Sewage Discharges - Final/Treated Effluent - Not Water Company				
	Discharge Environment:	Land/Soakaway				
	Receiving Water:	Land Adjacent To The Dwelling				
	Status:	**Transferred from COPA 1974**				
	Positional Accuracy:	Located by supplier to within 100m				
	Discharge Consents					
3	Operator:	National Grid Company Plc	S	909	1	428000 398500
	Property Type:	Undefined Or Other				
	Location:	Proposed Electricity Substation Hunshelf Road,Stocksbridge,Sheffield,South Yorkshire				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	2127				
	Permit Version:	1				
	Effective Date:	19th September 1966				
	Issued Date:	19th September 1966				
	Revocation Date:	Not Supplied				
	Discharge Type:	Sewage Discharges - Final/Treated Effluent - Not Water Company				
	Discharge Environment:	Freshwater Stream/River				
	Receiving Water:	Little Don				
	Status:	**Transferred from Rivers (Prevention of Pollution) Act 1951-1961**				
	Positional Accuracy:	Located by supplier to within 100m				

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Discharge Consents					
4	Operator:	Newton Wright Constuction Ltd	SE	928	1	429000 398900
	Property Type:	Undefined Or Other				
	Location:	Holly Barn Holly Lane,Wortley,Sheffield,South Yorkshire				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	Wra8028				
	Permit Version:	1				
	Effective Date:	20th May 2003				
	Issued Date:	20th May 2003				
	Revocation Date:	Not Supplied				
	Discharge Type:	Sewage Discharges - Final/Treated Effluent - Not Water Company				
	Discharge Environment:	Land/Soakaway				
	Receiving Water:	Land				
	Status:	**New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**				
	Positional Accuracy:	Located by supplier to within 100m				
	Discharge Consents					
5	Operator:	Bsc Stainless	SW	956	1	427800 398510
	Property Type:	Undefined Or Other				
	Location:	B.S.C. Stainless, Stocksbridge Sit,E -Outlet 28				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	E609				
	Permit Version:	1				
	Effective Date:	27th November 1979				
	Issued Date:	27th November 1979				
	Revocation Date:	29th June 1986				
	Discharge Type:	Trade Discharges - Cooling Water				
	Discharge Environment:	Freshwater Stream/River				
	Receiving Water:	Little Don River (Culverted)				
	Status:	**Transferred from Rivers (Prevention of Pollution) Act 1951-1961**				
	Positional Accuracy:	Located by supplier to within 100m				
	Discharge Consents					
5	Operator:	Outokumpu Stainless Ltd	SW	956	1	427800 398510
	Property Type:	Undefined Or Other				
	Location:	B.S.C. Stainless, Stocksbridge Sit,E -Outlet 28				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	E609				
	Permit Version:	2				
	Effective Date:	30th June 1986				
	Issued Date:	30th June 1986				
	Revocation Date:	Not Supplied				
	Discharge Type:	Trade Discharges - Cooling Water				
	Discharge Environment:	Freshwater Stream/River				
	Receiving Water:	Little Don River (Culverted)				
	Status:	**Transferred from COPA 1974**				
	Positional Accuracy:	Located by supplier to within 10m				

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Discharge Consents					
5	Operator:	Bsc Stainless	SW	992	1	427780 398480
	Property Type:	Undefined Or Other				
	Location:	Avesta Polarit Ford Lane,Stocksbridge,Sheffield,South Yorkshire				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	E608				
	Permit Version:	1				
	Effective Date:	27th November 1979				
	Issued Date:	27th November 1979				
	Revocation Date:	29th June 1986				
	Discharge Type:	Trade Discharges - Cooling Water				
	Discharge Environment:	Freshwater Stream/River				
	Receiving Water:	Little Don River (Culverted)				
	Status:	**Transferred from Rivers (Prevention of Pollution) Act 1951-1961**				
	Positional Accuracy:	Located by supplier to within 100m				
	Discharge Consents					
5	Operator:	Bsc Stainless	SW	992	1	427780 398480
	Property Type:	Undefined Or Other				
	Location:	Avesta Polarit Ford Lane,Stocksbridge,Sheffield,South Yorkshire				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	E608				
	Permit Version:	2				
	Effective Date:	30th June 1986				
	Issued Date:	30th June 1986				
	Revocation Date:	15th October 2001				
	Discharge Type:	Trade Discharges - Cooling Water				
	Discharge Environment:	Freshwater Stream/River				
	Receiving Water:	Little Don River (Culverted)				
	Status:	**Transferred from COPA 1974**				
	Positional Accuracy:	Located by supplier to within 10m				
	Discharge Consents					
5	Operator:	Outokumpu Stainless Ltd	SW	992	1	427780 398480
	Property Type:	Undefined Or Other				
	Location:	Avesta Polarit Ford Lane,Stocksbridge,Sheffield,South Yorkshire				
	Authority:	Environment Agency, North East Region				
	Catchment Area:	Don Tributaries				
	Reference:	E608				
	Permit Version:	3				
	Effective Date:	16th October 2001				
	Issued Date:	16th October 2001				
	Revocation Date:	Not Supplied				
	Discharge Type:	Trade Discharges - Cooling Water				
	Discharge Environment:	Freshwater Stream/River				
	Receiving Water:	River Don (Culverted)				
	Status:	**Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)**				
	Positional Accuracy:	Located by supplier to within 10m				
	Nearest Surface Water Feature					
			N	289	-	428240 399760

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Pollution Incidents to Controlled Waters					
6	Property Type:	Domestic/Residential	S	197	1	428200 399200
	Location:	Rd Brdg B6088/Thurgoland Bridge Don 56				
	Authority:	Environment Agency, North East Region				
	Pollutant:	Sewage - Septic Tank Effluent				
	Note:	Not Supplied				
	Incident Date:	14th March 1991				
	Incident Reference:	120551				
	Catchment Area:	Not Given				
	Receiving Water:	Freshwater Stream/River				
	Cause of Incident:	Not Given				
	Severity of Incident:	Category 3 - Minor Incident				
	Positional Accuracy:	Located by supplier to within 100m				
	Pollution Incidents to Controlled Waters					
7	Property Type:	Abandoned mine	SW	259	1	427950 399250
	Location:	Watling St,GRENDON				
	Authority:	Environment Agency, Midlands Region				
	Pollutant:	Miscellaneous - Other				
	Note:	Penmire Brook; Iron Contaminated Groundwater				
	Incident Date:	5th February 1999				
	Incident Reference:	2705325				
	Catchment Area:	Trent Catchment : Lower Anker				
	Receiving Water:	Watercourse				
	Cause of Incident:	Miscellaneous/Other Pollution Type				
	Severity of Incident:	Category 3 - Minor Incident				
	Positional Accuracy:	Located by supplier to within 100m				
	Pollution Incidents to Controlled Waters					
8	Property Type:	Fire Water	NE	618	1	428700 399850
	Location:	Mill Lane,Thurgoland,SHEFFIELD				
	Authority:	Environment Agency, North East Region				
	Pollutant:	Unknown Sewage				
	Note:	Watercourse :River Don; From Cheesebottom Stw To Little River Donriver Fish Killed: No Information				
	Incident Date:	4th March 1998				
	Incident Reference:	SH980086				
	Catchment Area:	Don				
	Receiving Water:	Freshwater Stream/River				
	Cause of Incident:	Unknown				
	Severity of Incident:	Category 3 - Minor Incident				
	Positional Accuracy:	Located by supplier to within 100m				
	Pollution Incidents to Controlled Waters					
9	Property Type:	Domestic/Residential	E	947	1	429100 399800
	Location:	Rd Brdg B6088/Thurgoland Bridge Don 56				
	Authority:	Environment Agency, North East Region				
	Pollutant:	Sewage - Treated Effluent				
	Note:	Not Supplied				
	Incident Date:	17th January 1994				
	Incident Reference:	150015				
	Catchment Area:	Not Given				
	Receiving Water:	Freshwater Stream/River				
	Cause of Incident:	Not Given				
	Severity of Incident:	Category 3 - Minor Incident				
	Positional Accuracy:	Located by supplier to within 100m				
	Substantiated Pollution Incident Register					
10	Authority:	Environment Agency - North East Region, Ridings Area	SE	781	1	428570 398710
	Incident Date:	7th October 2005				
	Incident Reference:	351817				
	Water Impact:	Category 4 - No Impact				
	Air Impact:	Category 3 - Minor Incident				
	Land Impact:	Category 2 - Significant Incident				
	Positional Accuracy:	Located by supplier to within 10m				
	Pollutant:	Specific Waste Materials: Commercial Waste				

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Substantiated Pollution Incident Register					
10	Authority:	Environment Agency - North East Region, Ridings Area	SE	790	1	428550 398690
	Incident Date:	15th March 2004				
	Incident Reference:	223089				
	Water Impact:	Category 4 - No Impact				
	Air Impact:	Category 3 - Minor Incident				
	Land Impact:	Category 2 - Significant Incident				
	Positional Accuracy:	Located by supplier to within 10m				
	Pollutant:	General Biodegradable : Other				
	Substantiated Pollution Incident Register					
10	Authority:	Environment Agency - North East Region, Ridings Area	SE	797	1	428550 398680
	Incident Date:	23rd April 2003				
	Incident Reference:	153343				
	Water Impact:	Category 4 - No Impact				
	Air Impact:	Category 2 - Significant Incident				
	Land Impact:	Category 3 - Minor Incident				
	Positional Accuracy:	Located by supplier to within 10m				
	Pollutant:	Specific Waste Materials: Commercial Waste				
	River Quality					
	Name:	River_Don	N	248	1	428240 399720
	GQA Grade:	River Quality B				
	Reach:	Cheesebottom_Stw_Little_Don_Rive				
	Estimated Distance of Reach (km):	8				
	Flow Rate:	Flow less than 0.62 cumecs				
	Flow Type:	River				
	Year:	2000				
	Water Abstractions					
11	Operator:	D R Baling Wire Limited	NE	417	1	428470 399800
	Licence Number:	2/27/05/109				
	Permit Version:	Not Supplied				
	Location:	Thurgoland Wire Works,Thurgoland,Nr Sheffield				
	Authority:	Environment Agency, North East Region				
	Abstraction:	General Industrial				
	Abstraction Type:	Not Supplied				
	Source:	Surface				
	Daily Rate (m3):	12				
	Yearly Rate (m3):	3000				
	Details:	Not Supplied				
	Authorised Start:	Not Supplied				
	Authorised End:	Not Supplied				
	Permit Start Date:	Not Supplied				
	Permit End Date:	Not Supplied				
	Positional Accuracy:	Located by supplier to within 100m				
	Water Abstractions					
	Operator:	Mrs U Plant	NW	1436	1	427060 400400
	Licence Number:	2/27/05/144				
	Permit Version:	100				
	Location:	Spring - Oxspring				
	Authority:	Environment Agency, North East Region				
	Abstraction:	General Farming And Domestic				
	Abstraction Type:	Water may be abstracted from a single point				
	Source:	Groundwater				
	Daily Rate (m3):	3				
	Yearly Rate (m3):	995				
	Details:	The Outlook,Oxspring,Sheffield				
	Authorised Start:	01 January				
	Authorised End:	31 December				
	Permit Start Date:	15th February 1968				
	Permit End Date:	Not Supplied				
	Positional Accuracy:	Located by supplier to within 100m				

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	Water Abstractions				
	Operator: Ues Steels Stocksbridge Licence Number: 2/27/05/097 Permit Version: 100 Location: The Porter(Little Don) Authority: Environment Agency, North East Region Abstraction: Metal: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stocksbridge Works, Stocksbridge, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st October 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	SW	1443	1	426900 398700
	Water Abstractions				
	Operator: Corus Engineering Steels Limited Licence Number: 2/27/05/097 Permit Version: 101 Location: The Porter - Little Don Authority: Environment Agency, North East Region Abstraction: Metal: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stocksbridge Works, Stocksbridge, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	SW	1443	1	426900 398700
	Water Abstractions				
	Operator: Corus Group Plc Licence Number: 2/27/05/097 Permit Version: 102 Location: The Porter - Little Don Authority: Environment Agency, North East Region Abstraction: Metal: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stocksbridge Works, Stocksbridge, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th December 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	SW	1443	1	426900 398700
	Water Abstractions				
	Operator: Gr-Stein Refractories Limited Licence Number: 2/27/05/059 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Cooling/Gen Ind. Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 196 Yearly Rate (m3): 70918 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	SE	1554	1	429200 398200

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability				
	Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers	-	0	1	428190 399430
	Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents				
	Map Sheet: Sheet 17 Derbyshire & North Staffordshire				
	Scale: 1:100,000				
	Drift Deposits				
	Description None	-	-	-	-
	Extreme Flooding from Rivers or Sea without Defences				
	Description None	-	-	-	-
	Flooding from Rivers or Sea without Defences				
	Description None	-	-	-	-
	Areas Benefiting from Flood Defences				
	Description None	-	-	-	-
	Flood Water Storage Areas				
	Description None	-	-	-	-
	Flood Defences				
	Description None	-	-	-	-
	River Flood Data (Scotland)				
	Description None	-	-	-	-

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Licensed Waste Management Facilities (Locations)					
15	Licence Number:	65380	E	887	1	429110 399490
	Location:	1 Low Forge,Wortley,Sheffield,South Yorkshire,S35 7DN				
	Operator Name:	Haigh Brian				
	Operator Location:	1 Low Forge,Wortley,Sheffield,South Yorkshire,S35 7DN				
	Authority:	Environment Agency - North East Region, Ridings Area				
	Site Category:	End of Life Vehicles				
	Licence Status:	**Issued**				
	Issued:	13th December 2004				
	Last Modified:	Not Supplied				
	Expires:	Not Supplied				
	Suspended:	Not Supplied				
	Revoked:	Not Supplied				
	Surrendered:	Not Supplied				
	IPPC Reference:	Not Supplied				
	Positional Accuracy:	Located by supplier to within 10m				
	Local Authority Landfill Coverage					
	Name:	Barnsley Metropolitan Borough Council - Has supplied landfill data	-	0	2	428190 399430
	Local Authority Landfill Coverage					
	Name:	Sheffield Metropolitan District Council - Has not been able to supply Landfill data	S	446	3	428060 398960
	Local Authority Recorded Landfill Sites					
16	Location:	Not Supplied	E	454	2	428680 399440
	Reference:	122				
	Authority:	Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards				
	Last Reported Status:	**Unknown**				
	Types of Waste:	Not Supplied				
	Date of Closure:	Not Supplied				
	Positional accuracy:	Positioned by the supplier				
	Boundary Quality:	Moderate				
	Local Authority Recorded Landfill Sites					
17	Location:	Not Supplied	NW	466	2	427810 399790
	Reference:	63				
	Authority:	Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards				
	Last Reported Status:	**Unknown**				
	Types of Waste:	Not Supplied				
	Date of Closure:	Not Supplied				
	Positional accuracy:	Positioned by the supplier				
	Boundary Quality:	Moderate				
	Local Authority Recorded Landfill Sites					
18	Location:	Not Supplied	NW	916	2	427490 400100
	Reference:	67				
	Authority:	Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards				
	Last Reported Status:	**Unknown**				
	Types of Waste:	Not Supplied				
	Date of Closure:	Not Supplied				
	Positional accuracy:	Positioned by the supplier				
	Boundary Quality:	Moderate				

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Registered Landfill Sites					
19	Licence Holder:	David Brown Gear Industries Ltd	NW	555	1	427750 399850
	Licence Reference:	WD20 B 97				
	Site Location:	California Quarry,Greenmoor,Penistone,Sheffield,South Yorkshire				
	Licence Easting:	427750				
	Licence Northing:	399850				
	Operator Location:	Green Road,Penistone,South Yorkshire				
	Authority:	Environment Agency - North East Region, Ridings Area				
	Site Category:	Landfill				
	Maximum Input Rate:	Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)				
	Waste Source Restrictions:	No known restriction on source of waste				
	Status:	Licence lapsed/cancelled/defunct/not applicable/surrendered				
	Dated:	1st July 1977				
	Preceded By Licence:	Not Given				
	Superseded By Licence:	Not Given				
	Positional Accuracy:	Manually positioned to the address or location				
	Boundary Accuracy:	Not Applicable				
	Authorised Waste	Cement Sand Sludge Foundry Sand				
	Registered Waste Treatment or Disposal Sites					
20	Licence Holder:	N Pallett	NE	578	1	428600 399900
	Licence Reference:	WD20 B 945				
	Site Location:	The Scrapyard,Old Mill Lane,Thurgoland,SHEFFIELD,South Yorkshire,S30 4AG				
	Operator Location:	As Site Address				
	Authority:	Environment Agency - North East Region, Ridings Area				
	Site Category:	Scrapyard				
	Maximum Input Rate:	Very Small (Less than 10,000 tonnes per year)				
	Waste Source Restrictions:	No known restriction on source of waste				
	Licence Status:	Licence revoked				
	Dated:	1st March 1993				
	Preceded By Licence:	Not Given				
	Superseded By Licence:	Not Given				
	Positional Accuracy:	Manually positioned to the road within the address or location				
	Boundary Quality:	Not Supplied				
	Authorised Waste	Cars/Light Comm'L Veh. Max.Stor Ferrous Metal Scrap Non-Ferrous Metal Scrap				
	Prohibited Waste	Liquid Wastes				

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	BGS Boreholes					
21	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne4 107.74 Barnsley Corporation N	W	553	4	427610 399570
	BGS Boreholes					
22	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne65 Not Supplied Neepsend/Stocksbridge Bh 35	S	715	4	427900 398730
	BGS Boreholes					
22	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne25 2.3 A616 Stocksbridge Bypass Tp 903	SW	720	4	427860 398740
	BGS Boreholes					
23	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne23 2.2 A616 Stocksbridge Bypass Tp 901	SW	768	4	427730 398760
	BGS Boreholes					
24	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne24 1.2 A616 Stocksbridge Bypass Tp 902	SW	790	4	427780 398700
	BGS Boreholes					
25	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne64 Not Supplied Neepsend/Stocksbridge Bh 34	S	801	4	428270 398600
	BGS Boreholes					
26	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne66 Not Supplied Neepsend/Stocksbridge Bh 36	SW	836	4	427530 398850
	BGS Boreholes					
27	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne5 61.57 Greenmoor Quarries	NE	924	4	429010 399940
	BGS Boreholes					
28	BGS Reference: Drilled Length (m): Borehole Name:	Sk29ne63 Not Supplied Neepsend/Stocksbridge Bh 33	S	930	4	428460 398510
	BGS Recorded Mineral Sites					
29	Site Name: Location: Source: Reference: Type: **Status:** Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Victoria Green Moor, Sheffield British Geological Survey, National Geoscience Information Service 8936 Opencast **Ceased** Unknown Operator Not Supplied Carboniferous Greenmoor Rock,Pennine Lower Coal Measures Formation Sandstone Located by supplier to within 10m	S	91	4	428220 399320
	BGS Recorded Mineral Sites					
30	Site Name: Location: Source: Reference: Type: **Status:** Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Green Moor Delph Hunshelf Hall Lane, Green Moor, Thurgoland, Sheffield, South Yorkshire British Geological Survey, National Geoscience Information Service 6378 Opencast **Ceased** Unknown Operator Not Supplied Carboniferous Greenmoor Rock,Pennine Lower Coal Measures Formation Sandstone Located by supplier to within 10m	SE	371	4	428430 399100

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	BGS Recorded Mineral Sites					
31	Site Name:	California	NW	570	4	427760 399880
	Location:	Hunshelf Hall Lane, Green Moor, Thurgoland, Sheffield, South Yorkshire				
	Source:	British Geological Survey, National Geoscience Information Service				
	Reference:	6377				
	Type:	Opencast				
	Status:	**Ceased**				
	Operator:	Unknown Operator				
	Operator Location:	Not Supplied				
	Periodic Type:	Carboniferous				
	Geology:	Greenmoor Rock,Pennine Lower Coal Measures Formation				
	Commodity:	Sandstone				
	Positional Accuracy:	Located by supplier to within 10m				
	BGS Recorded Mineral Sites					
32	Site Name:	Wortley Forge	E	708	4	428920 399570
	Location:	Wortley, Sheffield				
	Source:	British Geological Survey, National Geoscience Information Service				
	Reference:	10692				
	Type:	Opencast				
	Status:	**Ceased**				
	Operator:	Unknown Operator				
	Operator Location:	Not Supplied				
	Periodic Type:	Carboniferous				
	Geology:	Greenmoor Rock,Pennine Lower Coal Measures Formation				
	Commodity:	Sandstone				
	Positional Accuracy:	Located by supplier to within 10m				
	BGS 1:625,000 Solid Geology					
	Description:	Lower Westphalian (mainly Productive Coal Measures)	-	0	4	428190 399430
	Coal Mining Affected Areas					
	Description:	In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	-	0	5	428190 399430
	Shallow Mining Hazards					
	Risk:	Low-Moderate	-	0	4	428190 399430
	Source:	British Geological Survey, National Geoscience Information Service				
	Potential for Collapsible Ground Stability Hazards					
	Description	No Hazard	-	-	-	-
	Potential for Compressible Ground Stability Hazards					
	Hazard Potential:	No Hazard	-	0	4	428190 399430
	Source:	British Geological Survey, National Geoscience Information Service				
	Potential for Ground Dissolution Stability Hazards					
	Description	No Hazard	-	-	-	-
	Potential for Landslide Ground Stability Hazards					
	Hazard Potential:	Very Low	-	0	4	428190 399430
	Source:	British Geological Survey, National Geoscience Information Service				
	Potential for Landslide Ground Stability Hazards					
	Hazard Potential:	High	N	102	4	428190 399580
	Source:	British Geological Survey, National Geoscience Information Service				
	Potential for Landslide Ground Stability Hazards					
	Hazard Potential:	Moderate	N	193	4	428100 399650
	Source:	British Geological Survey, National Geoscience Information Service				
	Potential for Running Sand Ground Stability Hazards					
	Hazard Potential:	No Hazard	-	0	4	428190 399430
	Source:	British Geological Survey, National Geoscience Information Service				
	Potential for Shrinking or Swelling Clay Ground Stability Hazards					
	Hazard Potential:	No Hazard	-	0	4	428190 399430
	Source:	British Geological Survey, National Geoscience Information Service				

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	N	95	4	428190 399570
	Mining Instability				
	Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	-	0	-	428190 399430
	Mining Instability				
	Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	-	0	-	428190 399430
	Radon Affected Areas				
	Description: Less than 1% of homes are above the Action Level Source: Health Protection Agency	-	0	6	428190 399430
	Radon Protection Measures				
	Type: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	-	0	4	428190 399430

Map ID	Details		Compass Direction	Estimated Distance From Site	Contact	NGR
	Contemporary Trade Directory Entries					
33	Name:	D R Baling Wire Manufacturers Ltd	N	466	-	428350 399920
	Location:	Old Mill La,Thurgoland,Sheffield,South Yorkshire,S35 7EG				
	Classification:	Wire Products - Manufacturers				
	Status:	**Inactive**				
	Positional Accuracy:	Manually positioned to the road within the address or location				
	Contemporary Trade Directory Entries					
34	Name:	B H Scrap Metals	E	966	-	429190 399520
	Location:	Forge La,Wortley,Sheffield,South Yorkshire,S35 7DN				
	Classification:	Scrap Metal Merchants				
	Status:	**Active**				
	Positional Accuracy:	Manually positioned to the road within the address or location				

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
	Areas of Adopted Green Belt				
	Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Unitary Development Plan **Status:** **Adopted** Plan Date: 31st December 2000	N	0	7	428190 399460
	Areas of Adopted Green Belt				
	Authority: Sheffield City Council Plan Name: The Sheffield Unitary Development Plan **Status:** **Adopted** Plan Date: 31st March 1998	S	448	8	428060 398960
	Areas of Adopted Green Belt				
	Authority: Sheffield City Council Plan Name: The Sheffield Unitary Development Plan **Status:** **Adopted** Plan Date: 31st March 1998	SW	767	8	427750 398750
	Nitrate Vulnerable Zones				
	Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	-	0	9	428190 399430
	Nitrate Vulnerable Zones				
	Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	N	527	9	428190 400000

Data Type	Version	Update Cycle
Agency & Hydrological		
Local Authority Pollution Prevention and Controls		
Sheffield City Council Environmental Protection Service	February-2006	Annual Rolling Update
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Sheffield City Council Environmental Protection Service	December-2004	Annual Rolling Update
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
Discharge Consents		
Environment Agency North East Region	April-2006	Quarterly
Integrated Pollution Controls		
Environment Agency North East Region	April-2006	Quarterly
Integrated Pollution Prevention And Control		
Environment Agency North East Region	April-2006	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Sheffield City Council Environmental Protection Service	February-2006	Annual Rolling Update
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	April-2006	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency North East Region	December-1998	Not Applicable
Environment Agency Midlands Region	December-1999	Not Applicable
Substantiated Pollution Incident Register		
Environment Agency - North East Region Ridings Area	April-2006	Quarterly
Water Industry Act Referrals		
Environment Agency North East Region	April-2006	Quarterly
Registered Radioactive Substances		
Environment Agency North East Region	April-2006	Quarterly
River Quality		
Environment Agency Head Office	November-2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency Head Office	February-2006	Annually
River Quality Chemistry Sampling Points		
Environment Agency Head Office	January-2006	Annually
Water Abstractions		
Environment Agency North East Region	April-2006	Quarterly

Data Type	Version	Update Cycle
Agency & Hydrological		
Groundwater Vulnerability Environment Agency Head Office	January-1999	Not Applicable
Drift Deposits Environment Agency Head Office	January-1999	Not Applicable
Source Protection Zones Environment Agency Head Office	April-2005	Variable
Extreme Flooding from Rivers or Sea without Defences Environment Agency Head Office	April-2006	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency Head Office	April-2006	Quarterly
Areas Benefiting from Flood Defences Environment Agency Head Office	April-2006	Quarterly
Flood Water Storage Areas Environment Agency Head Office	April-2006	Quarterly
Flood Defences Environment Agency Head Office	April-2006	Quarterly
River Flood Data (Scotland) Centre for Ecology and Hydrology	September-1999	Not Applicable

Data Type	Version	Update Cycle
Waste		
BGS Recorded Landfill Sites		
British Geological Survey National Geoscience Information Service	June-1996	Not Applicable
Integrated Pollution Control Registered Waste Sites		
Environment Agency North East Region	April-2006	Quarterly
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region Ridings Area	January-2006	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region Ridings Area	May-2006	Quarterly
Local Authority Landfill Coverage		
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	May-2000	Not Applicable
Sheffield City Council Environmental Protection Service	May-2000	Not Applicable
Local Authority Recorded Landfill Sites		
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	February-2005	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region Ridings Area	March-2003	Variable
Registered Waste Transfer Sites		
Environment Agency - North East Region Ridings Area	March-2003	Variable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region Ridings Area	March-2003	Variable

Data Type	Version	Update Cycle
Hazardous Substances		
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	May-2006	Variable
Explosive Sites		
Health and Safety Executive	March-2006	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November-2000	Not Applicable
Planning Hazardous Substance Consents		
Barnsley Metropolitan Borough Council Planning Department	December-2005	Annual Rolling Update
Sheffield City Council	February-2006	Annual Rolling Update
Planning Hazardous Substance Enforcements		
Barnsley Metropolitan Borough Council Planning Department	December-2005	Annual Rolling Update
Sheffield City Council	February-2006	Annual Rolling Update

Data Type	Version	Update Cycle
Geological		
BGS Boreholes British Geological Survey National Geoscience Information Service	April-2006	Quarterly
BGS Recorded Mineral Sites British Geological Survey National Geoscience Information Service	April-2006	Bi-Annually
BGS 1:625,000 Solid Geology British Geological Survey National Geoscience Information Service	August-1996	Not Applicable
Brine Compensation Areas Cheshire Brine Subsidence Compensation Board	November-2002	As notified
Coal Mining Affected Areas The Coal Authority Mining Report Service	January-2006	As notified
Shallow Mining Hazards British Geological Survey National Geoscience Information Service	August-2002	Variable
Potential for Collapsible Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey National Geoscience Information Service	November-2005	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Mining Instability Ove Arup & Partners	October-2000	Not Applicable
Natural and Mining Cavities Peter Brett Associates	December-2005	Variable
Radon Affected Areas Health Protection Agency	January-2003	Not Applicable
Radon Protection Measures British Geological Survey National Geoscience Information Service	August-2002	Variable

Data Type	Version	Update Cycle
Industrial Land Use		
Contemporary Trade Directory Entries Thomson Directories	February-2006	Bi-Annually
Fuel Station Entries Catalist Ltd (Fuel Station Data)	May-2006	Quarterly

Data Type	Version	Update Cycle
Sensitive Land Uses		
Areas of Adopted Green Belt		
Barnsley Metropolitan Borough Council Planning Department	December-2000	As notified
Sheffield City Council	March-1998	As notified
Areas of Unadopted Green Belt		
Barnsley Metropolitan Borough Council Planning Department	December-2000	As notified
Sheffield City Council	March-1998	As notified
Areas of Outstanding Natural Beauty		
The Countryside Agency	October-2004	Annually
Environmentally Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	June-2006	Annually
Forest Parks		
Forestry Commission	April-1997	Not Applicable
Local Nature Reserves		
Barnsley Metropolitan Borough Council Planning Department	September-1999	Variable
Marine Nature Reserves		
English Nature	December-2004	Annually
National Nature Reserves		
English Nature	May-2006	Annually
National Parks		
The Countryside Agency	October-2004	Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December-2003	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	May-2006	Annually
Ramsar Sites		
English Nature	May-2006	Annually
Sites of Special Scientific Interest		
English Nature	May-2006	Annually
Special Areas of Conservation		
English Nature	May-2006	Annually
Special Protection Areas		
English Nature	May-2006	Annually

Some of the organisations who provide data which is used within the report

Ordnance Survey	Ordnance Survey® Licensed Partner
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	BGS 1835 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	CEH Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
English Nature Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, English Nature who retain the copyright and Intellectual Property Rights for the data	ENGLISH NATURE
Health Protection Agency	Health Protection Agency
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Peter Brett Associates The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA /DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.	pba

Contact	Name and Address	
1	**Environment Agency National Customer Contact Centre (NCCC)** PO Box 544 Templeborough Rotherham S60 1BY enquiries@environment-agency.gov.uk	Telephone 08708 506 506
2	**Barnsley Metropolitan Borough Council Environmental Health and Trading Standards** Central Offices Kendray Street Barnsley South Yorkshire S70 2TN www.barnsley.gov.uk	Telephone 01226 770770 Fax 01226 772599
3	**Sheffield City Council Environmental Protection Service** 2-10 Carbrook Hall Road Sheffield S9 2DB www.sheffield.gov.uk	Telephone 0114 272 6444
4	**British Geological Survey Enquiry Service** British Geological Survey Kingsley Dunham Centre Keyworth Nottingham Nottinghamshire NG12 5GG enquiries@bgs.ac.uk www.bgs.ac.uk	Telephone 0115 936 3143 Fax 0115 936 3276
5	**The Coal Authority Mining Report Service** 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG thecoalauthority@coal.gov.uk	Telephone 0845 7626848 DX 716176 Mansfield 5

Contact	Name and Address	
6	**Health Protection Agency** Chilton Didcot Oxfordshire OX11 0RQ	Telephone 01235 831600 Fax 01235 833891
7	**Barnsley Metropolitan Borough Council Planning Department** Central Offices Kendray Street Barnsley South Yorkshire S70 2TN www.barnsley.gov.uk	Telephone 01226 770770 Fax 01226 772599
8	**Sheffield City Council** Howden House 1 Union Street Sheffield South Yorkshire S1 2SH www.sheffield.gov.uk	Telephone 0114 273 4215 Fax 0114 273 5002
9	**Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)** Government Buildings Otley Road Lawnswood Leeds West Yorkshire LS16 5QT	Telephone 0113 2613333 Fax 0113 230 0879
	Catalist Ltd (Fuel Station Data) Richmond House 22 Richmond Hill Clifton Bristol Avon BS8 1BA Mark@catalist-uk.com	Telephone 0117 923 7113 Fax 0117 923 7166

Contact **Name and Address**

Landmark Information Group Limited
The Smith Centre
Henley On Thames
Oxfordshire
RG9 6AB

Telephone 0870 850 6670
Fax 0870 850 6671

customerservices@landmarkinfo.co.uk

www.landmark-information.co.uk

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

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Borehole Records Order Form

Name: ..... **Your Ref/Order no:**

Company: ..... **Our Ref: ISGR/**

Address: ..... **Tel:** .....

..... **Fax:** .....

Postcode: ....

Quarter Sheet (eg. SE5ONE)	Number (eg. 21)	Suffix (if given) (eg. A-Z)	Name (eg. Bentley Village Sewer TP 1)

Please note: More than 10 records can be ordered, but it is advisable to discuss your requirements first with NGIS staff, as interpreted geological reports are also available.

RESPONSE TIMES MAY VARY DUE TO CUSTOMER DEMAND AND STAFF AVAILABILITY

Level of Service: (Please tick)

[ ] **Standard Service (variable within 5 days)**

[ ] **Premium Service (24 hour response, £30 additional charge)**

Delivery Method: (Please tick) **Post**[ ] **Special Delivery £4.25**[ ] **Fax 50p (per sheet)**[ ] **Digital CD £2 (per CD)**[ ]

Borehole unit price is £13 + VAT, Minimum charge £26 + VAT **(includes 1st class postage).**

Special Requirements or comments:

Please return form to: Records & Data Enquiries, British Geological Survey, Keyworth, Nottingham NG12 5GG.
Tel: 01159363143 Fax: 01159363276 E-mail: enquiries@bgs.ac.uk

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   ii. any person who purchases the whole of the Property Site,
   iii. any person who provides funding secured on the whole of the Property Site,
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   v. any person who acts for You in a professional or commercial capacity; and
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b. An individual or a monthly invoice showing all Orders created by You will be generated subject to these Terms. You will pay the Landmark Fees at the rates set out in Landmark's or its Authorised Reseller's invoice. The Landmark Fees are payable in full within 30 days without deduction, counterclaim or set off. You acknowledge that time is of the essence with respect to the payment of such invoices. Landmark reserve the right to amend the Landmark Fees from time to time and the Services will be charged at the Landmark Fee applicable at the date on which the Service is ordered.

c. We may charge interest on late payment at a rate equal to 3% per annum above the base lending rate of National Westminster Bank plc.

d. Landmark or its Authorised Reseller shall not be obliged to invoice any party other than You for the provision of Services, but where Landmark or its Authorised Reseller does so invoice any third party at Your request, and such invoice is not accepted or remains unpaid, Landmark or its Authorised Reseller shall have the option at any time to cancel such invoice and invoice You direct for such Services. Where Your order comprises a number of Services or severable elements within any one or more Services, any failure by Landmark or its Authorised Reseller to provide an element or elements of the Services shall not prejudice Landmark's or its Authorised Reseller's ability to require payment in respect of the Services delivered to You.

5. Termination

a. Landmark may suspend or terminate Your rights under these Terms without any liability to You with immediate effect if at any time:-
   i. You fail to make any payment due in accordance with clause 4;
   ii. You repeatedly breach or commit or cause to be committed any material breach of these Terms; or
   iii. You commit a breach and You fail to remedy the breach within 7 days of receipt of a written notice to do so; additionally, without prejudice to the foregoing, Landmark may remedy the breach and recover the costs thereof from You.

b. If Your rights are terminated under this clause and You have made an advance payment We will refund You a reasonable proportion of the balance as determined by Us in relation to the value of Services previously purchased.

c. Landmark reserves the right to refuse to supply any or all Services to You without notice or reason.

6. Liability

a. We provide warranties and accept liability only to the extent stated in this clause 6 and clause 7.

b. Nothing in these Terms excludes either party's liability for death or personal injury caused by that party's negligence or wilful default, and the remainder of this clause 6 is subject to this provision and Your statutory rights.

c. As most of the information contained in the Services is provided to Landmark by others, Landmark cannot control its accuracy or completeness, nor is it within the scope of Landmark's Services to check the information on the ground. Accordingly, Landmark will only be liable to You for any loss or damage caused by its negligence or willful default and neither Landmark nor any person providing information contained in any Services shall in any other circumstances be liable for any inaccuracies, faults or omissions in the Services nor shall Landmark have any liability if the Services are used otherwise than in accordance with these Terms.

d. Save as precluded by law, Landmark shall not be liable for any indirect or consequential loss, damage or expenses (including loss of profits, loss of contracts, business or goodwill) howsoever arising out of any problem, event, action or default by Landmark.

e. In any event, and notwithstanding anything contained in these Terms, Landmark's liability in contract, tort (including negligence or breach of statutory duty) or otherwise howsoever arising by reason or in connection with this Contract (except in relation to death or personal injury) shall be limited to an aggregate amount not exceeding £1 million if the complaint is in relation to a Report on residential property and an aggregate amount not exceeding £10 million in respect of any other Report or Service purchased from Landmark.

f. Landmark will not be liable for any defect, failure or omission relating to Services that is not notified to Landmark within six months of the date of the issue becoming apparent and in any event, within twelve years of the date of the Service.

g. You acknowledge that:-
   i. You shall have no claim or recourse against any Third Party Content supplier nor any of our other Suppliers. You will not in any way hold us responsible for any selection or retention of, or the acts of omissions of Third Party Content suppliers or other Suppliers (including those with whom We have contracted to operate various aspects or parts of the Service) in connection with the Services (for the avoidance of doubt Landmark is not a Third Party Content supplier). Landmark does not promise that the supply of the Services will be uninterrupted or error free or provide any particular facilities or functions, or that the Content will always be complete, accurate, precise, free from defects of any other kind, computer viruses, software locks or other similar code although Landmark will use reasonable efforts to correct any inaccuracies within a reasonable period of them becoming known to us;
   ii. Landmark's only obligation is to exercise reasonable skill and care in providing environmental property risk information to persons acting in a professional or commercial capacity who are skilled in the use of property and environmental information and You hereby acknowledge that You are such a person;
   iii. no physical inspection of the Property Site reported on is carried out as part of any Services offered by Landmark and Landmark do not warrant that all land

uses or features whether past or current will be identified in the Services. The Services do not include any information relating to the actual state or condition of any Property Site nor should they be used or taken to indicate or exclude actual fitness or unfitness of a Property Site for any particular purpose nor should it be relied upon for determining saleability or value or used as a substitute for any physical investigation or inspection. Landmark recommends that You inspect and take other advice in relation to the Property Site and not rely exclusively on the Services.

iv. Landmark shall not be responsible for error or corruption in the Services resulting from inaccuracy or omission in primary or secondary information and data, inaccurate processing of information and data by third parties, computer malfunction or corruption of data whilst in the course of conversion, geo-coding, processing by computer or electronic means, or in the course of transmission by telephone or other communication link, or printing.

v. Landmark will not be held liable in any way if a Report on residential property is used for commercial property or more than the one residential property for which it was ordered.

vi. the Services have not been prepared to meet Your or anyone else's individual requirements; that You assume the entire risk as to the suitability of the Services and waive any claim of detrimental reliance upon the same; and You confirm You are solely responsible for the selection or omission of any specific part of the Content;

vii. Landmark offer no warranty for the performance of any linked internet service not operated by Landmark;

viii. You will on using the Services make a reasonable inspection of any results to satisfy Yourself that there are no defects or failures. In the event that there is a material defect You will notify us in writing of such defect within seven days of its discovery;

ix. Any support or assistance provided to You in connection with these Terms is at Your risk;

h. All liability for any insurance products purchased by You rests solely with the insurer. Landmark does not endorse any particular product or insurer and no information contained within the Services should be deemed to imply otherwise. You acknowledge that if You Order any such insurance Landmark will deem such as Your consent to forward a copy of the Report to the insurers. Where such policy is purchased, all liability remains with the insurers and You are entirely responsible for ensuring that the insurance policy offered is suitable for Your needs and should seek independent advice. Landmark does not guarantee that an insurance policy will be available on a Property Site. All decisions with regard to the offer of insurance policies for any premises will be made solely at the discretion of the insurers and Landmark accepts no liability in this regard. The provision of a Report does not constitute any indication by Landmark that insurance will be available on the property.

i. If Landmark provides You with any additional service obtained from a third party, including but not limited to any professional opinion, interpretation or conclusion, risk assessment or environmental report or search carried out in relation to a Report on Your Property Site, Landmark will not be liable in any way for any information contained therein or any issues arising out of the provision of those additional services to You. Landmark will be deemed to have acted as an agent in these circumstances and the supply of these additional services will be governed by the terms and conditions of those Third Parties. For the avoidance of doubt, those parties providing assessments or professional opinions on Landmark products include RPS Plc & Wilbourn Associates Limited. Copies of their terms and conditions are available on request from Landmark.

j. In any event no person may rely on a Service more than 12 months after its original date.

k. If You wish to vary any limitation of liability as set out in these Terms, You must request such variation prior to ordering the Service. Landmark shall use its reasonable endeavours to agree such variation but shall not be obliged to do so.

l. Time shall not be of the essence with respect to the provision of the Services.

m. Ordnance Survey have undertaken a positional accuracy improvement programme which may result in discrepancies between the positioning of features used in datasets in the Services and the updated Ordnance Survey mapping. Landmark and its Suppliers exclude all and any liability incurred as a result of the implementation of such positional accuracy improvement programme.

n. Where Landmark provides its own risk assessment in connection with any Report, Landmark shall carry out such assessment with all reasonable skill and care but shall have no liability for any such risk assessment conclusion which is provided for information only, save where Landmark conducted the same negligently, in which case the provisions of clause 6 shall apply. Notwithstanding the provision of any such risk assessment conclusion you should carefully examine the remainder of the Report and should not take or refrain from taking any action based solely on the basis of the risk assessment. For the avoidance of doubt, the provisions of this clause 6n apply solely to risk assessments conducted by Landmark, and the provision of any other risk assessment by a third party shall be governed by such third party's terms in accordance with the provisions of clause 6i above.

7. Contribution

a. Save where expressly provided, this clause 7 shall apply solely to Envirosearch Residential Reports (regardless of the result of such Report). Nothing in this clause 7 shall operate to override or vary the provisions of clause 6.

b. Landmark are prepared to offer, at their sole discretion, and without any admission or inference of liability a contribution towards the costs of any remediation works required under a Notice (as defined below) on the terms of this clause 7 ("the Contribution")

c. In the event that a Remediation Notice is served on the First Purchaser or First Purchaser's Lender of a Property Site under Part II(A) of the Environmental Protection Act 1990 ("the Notice") Landmark will contribute to the cost of such works as either the First Purchaser or First Purchaser's Lender (but not both) are required to carry out under the Notice subject to the provisions of this clause 7 and on the following terms:

i. the Contribution shall only apply to contamination or a pollution incident present or having occurred prior to the date of the Report;

ii. the Contribution shall only apply where the Property Site is a single residential dwelling house or a single residential flat within a block of flats. For the avoidance of doubt, this obligation does not apply to any commercial property, nor to any Property Site being developed or redeveloped whether for residential purposes or otherwise;

iii. the Contribution is strictly limited to the cost of works at the Property Site and at no other site.

iv. the Contribution will not be paid in respect of any of the following:

Radioactive contamination of whatsoever nature, directly or indirectly caused by or contributed to or arising from ionising radiations or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel or the radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

Asbestos arising out of or related in any way to asbestos or asbestos-containing materials on or in structures or services serving the structures.

Naturally occurring materials arising from the presence or required removal of naturally occurring materials except in circumstances where such materials are present in concentrations which are in excess of their natural concentration.

Intentional non-compliance arising from the intentional disregard of or knowing wilful or deliberate non-compliance by any owner or occupier of the Property Site with any statute, regulation, administrative complaint, notice of violation, or notice letter of any Regulatory Authority.

Any condition which is known or ought reasonably to have been known to the First Purchaser or the First Purchaser's Lender prior to the purchase of the Report.

Any condition which is caused by acts of War or an Act of Terrorism.

Any property belonging to or in the custody or control of the First Purchaser which does not form a fixed part of the Property Site or the structure.

Any fines liquidated damages punitive or exemplary damages.

Any bodily injury including without limitation, death, illness or disease, mental injury, anguish or nervous shock.

Any financial loss in respect of any loss of any rental, profit, revenue, savings or business or any consequential indirect or economic loss damage or expense including the cost of rent of temporary premises or business interruption.

Any losses incurred following a material change in use of, alteration or development of the Property Site.

d. The maximum sum that shall be contributed by Landmark in respect of any Contribution shall be limited to £50,000. In the event that more than one Report is purchased on the Property Site the Contribution will only be payable under the first Report purchased by or on behalf of any First Purchaser or First Purchaser's Lender and no Contribution will be made in respect of subsequent Reports purchased by or on behalf of such First Purchaser, First Purchaser's Lender or any person connected to them.

e. Landmark shall only pay a Contribution where the Notice is served within 36 months of the date of the Report.

f. Any rights to a Contribution under this Clause 7 are not assignable in the event of a sale of the Property Site and Landmark will not make any Contribution after the date of completion of such sale.

g. In the event the First Purchaser or First Purchaser's Lender wishes to claim any Contribution, it shall notify Landmark in writing within 2 months of the date of the Notice. The First Purchaser or First Purchaser's Lender (as applicable) shall comply with all reasonable requirements of Landmark with regard to the commission and conduct of the remediation works to be carried out under the Notice, and in the event the First Purchaser or First Purchaser's Lender (as applicable) does not do so, including without limitation, obtaining Landmark's prior written consent to any estimates for such works or complying with any other reasonable request by Landmark, Landmark shall not be required to pay any Contribution. Notwithstanding the payment of the Contribution by Landmark the First Purchaser or First Purchaser's Lender as applicable shall take all reasonable steps to mitigate any costs incurred in connection with the conduct of works required under the terms of any Notice.

h. In the event that the First Purchaser or First Purchaser's Lender receives any communication from a statutory authority to the effect that there is an intent to serve a notice received under PartII(A) of the Environmental Protection Act 1990 they will advise Landmark within a maximum period of two months from receipt of such communication. This clause 7h and the service of any notice under it shall not affect the provisions of clauses 7 e and g, and any such communications, even if advised to Landmark will not operate as notice under clause 7e.

i. Landmark reserve the right at any time prior to a claim for Contribution being made in accordance with clause 7 g) above, to withdraw the offer of payment of Contributions without further notice.

8. Events Beyond Our Control

a. You acknowledge that Landmark shall not be liable for any delay, interruption or failure in the provision of the Services which are caused or contributed to by any circumstance which is outside our reasonable control including but not limited to, lack of power, telecommunications failure or overload, computer malfunction, inaccurate processing of data, or delays in receiving, loading or checking data, corruption of data whilst in the course of conversion, geo-coding, processing by computer in the course of electronic communication, or printing.

9. Severability

a. If any provision of these Terms are found by either a court or other competent authority to be void, invalid, illegal or unenforceable, that provision shall be deemed to be deleted from these Terms and never to have formed part of these Terms and the remaining provisions shall continue in full force and effect.

10. Governing Law

a. These terms shall be governed by and construed in accordance with English law and each party agrees irrevocably submit to the exclusive jurisdiction of the English courts If any dispute arises out of or in connection with this agreement (a "Dispute") the parties undertake that, prior to the commencement of Court proceedings, they will seek to have the Dispute resolved amicably by use of an alternative dispute resolution procedure acceptable to both parties with the assistance of the Centre for Dispute Resolution (CEDR) if required, by written notice initiating that procedure. If the Dispute has not been resolved to the satisfaction of either party within 60 days of initiation of the procedure or if either party fails or refuses to participate in or withdraws from participating in the procedure then either party may refer the Dispute to the Court.

11. General

a. Landmark may assign its rights and obligations under these Terms without prior notice or any limitation.

b. Landmark may authorise or allow our contractors and other third parties to provide to Landmark and/or to You services necessary or related to the Services and to perform Landmark's obligations and exercise Landmark's rights under these Terms, which may include collecting payment on Landmark's behalf.

c. No waiver on Landmark's part to exercise, and no delay in exercising, any right, power or provision hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any right, power or provision hereunder preclude the exercise of that or any other right, power or provision.

d. Unless otherwise stated in these Terms, all notices from You to Landmark must be in writing and sent to the Landmark registered office (or in the case of an Authorised Reseller, to its registered office address) and all notices from Landmark to You will be displayed on our Websites from time to time.

e. A person who is not a party to any contract made pursuant to these Terms shall have no right under the Contract (Right of Third Parties) Act 1999 to enforce any terms of such contract and Landmark shall not be liable to any such third party in respect of any Services supplied.

f. Landmark's Privacy Policy as displayed on the Website governs the use made of any information You supply to Landmark.

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Envirocheck®
A Landmark® product

Envirocheck® Report:

Historical Map List

Report on:

The Rock,
Green Moor
Sheffield
South Yorkshire
S35 7DQ

National Grid Reference :

428190, 399430

Prepared For :

Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

Your Reference

Mr J Wood,JMW/RL/

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Ordnance Survey County Series Published 1893 **(1)**

County	Mapsheet	Scale	Year
Yorkshire	282_05	1:2,500	1893
Yorkshire	282_09	1:2,500	1893

Ordnance Survey County Series Published 1905 **(2)**

County	Mapsheet	Scale	Year
Yorkshire	282_05	1:2,500	1905
Yorkshire	282_09	1:2,500	1905

Ordnance Survey County Series Published 1931 **(3)**

County	Mapsheet	Scale	Year
Yorkshire	282_05	1:2,500	1931
Yorkshire	282_09	1:2,500	1931

Ordnance Survey Plan Published 1959 **(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SK2799	1:2,500	1959
Ordnance Survey Plan	SK2899	1:2,500	1959

Ordnance Survey Plan Published 1974 **(2)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SK2799	1:2,500	1974

Additional SIMs Published 1959 to 1990 **(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SK2799	1:2,500	1990
Ordnance Survey Plan	SK2899	1:2,500	1959

Large-Scale National Grid Data Published 1993 **(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SK2799	1:2,500	1993
Ordnance Survey Plan	SK2899	1:2,500	1993

Ordnance Survey County Series Published 1855 **(1)**

County	Mapsheet	Scale	Year
Yorkshire	281_00	1:10,560	1855
Yorkshire	282_00	1:10,560	1855

Ordnance Survey County Series Published 1894 **(2)**

County	Mapsheet	Scale	Year
Yorkshire	281_NE	1:10,560	1894
Yorkshire	281_SE	1:10,560	1894
Yorkshire	282_NW	1:10,560	1894
Yorkshire	282_SW	1:10,560	1894

Ordnance Survey County Series Published 1906 **(3)**

County	Mapsheet	Scale	Year
Yorkshire	281_NE	1:10,560	1906
Yorkshire	281_SE	1:10,560	1906
Yorkshire	282_NW	1:10,560	1906
Yorkshire	282_SW	1:10,560	1906

Ordnance Survey County Series Published 1932 to 1948 **(4)**

County	Mapsheet	Scale	Year
Yorkshire	281_NE	1:10,560	1948
Yorkshire	281_SE	1:10,560	1938
Yorkshire	282_NW	1:10,560	1932
Yorkshire	282_SW	1:10,560	1938

Ordnance Survey Plan Published 1955 **(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE20SE	1:10,560	1955
Ordnance Survey Plan	SK29NE	1:10,560	1955

Ordnance Survey Plan Published 1965 to 1966 **(2)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE20SE	1:10,560	1965
Ordnance Survey Plan	SK29NE	1:10,560	1966

Ordnance Survey Plan Published 1981 **(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SK29NE	1:10,000	1981

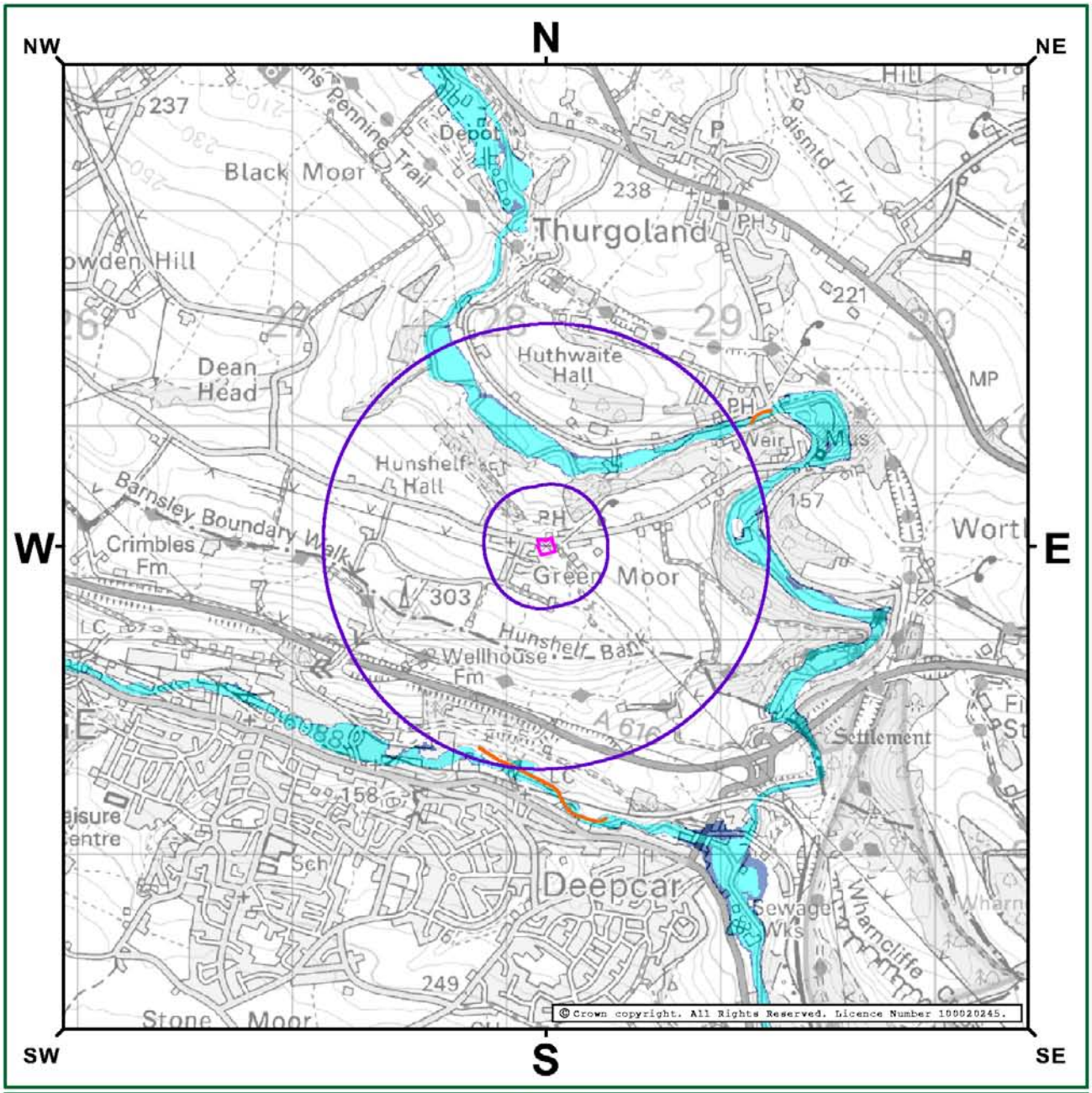
Ordnance Survey Plan Published 1989 to 1991 **(2)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE20SE	1:10,000	1989
Ordnance Survey Plan	SK29NE	1:10,000	1991

10K Raster Mapping Published 2004 **(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE20SE	1:10,000	2004
Ordnance Survey Plan	SK29NE	1:10,000	2004

Currently we do not have agreement with Ordnance Survey to provide Large Scale National Grid Data from 1996 onwards.



KEY

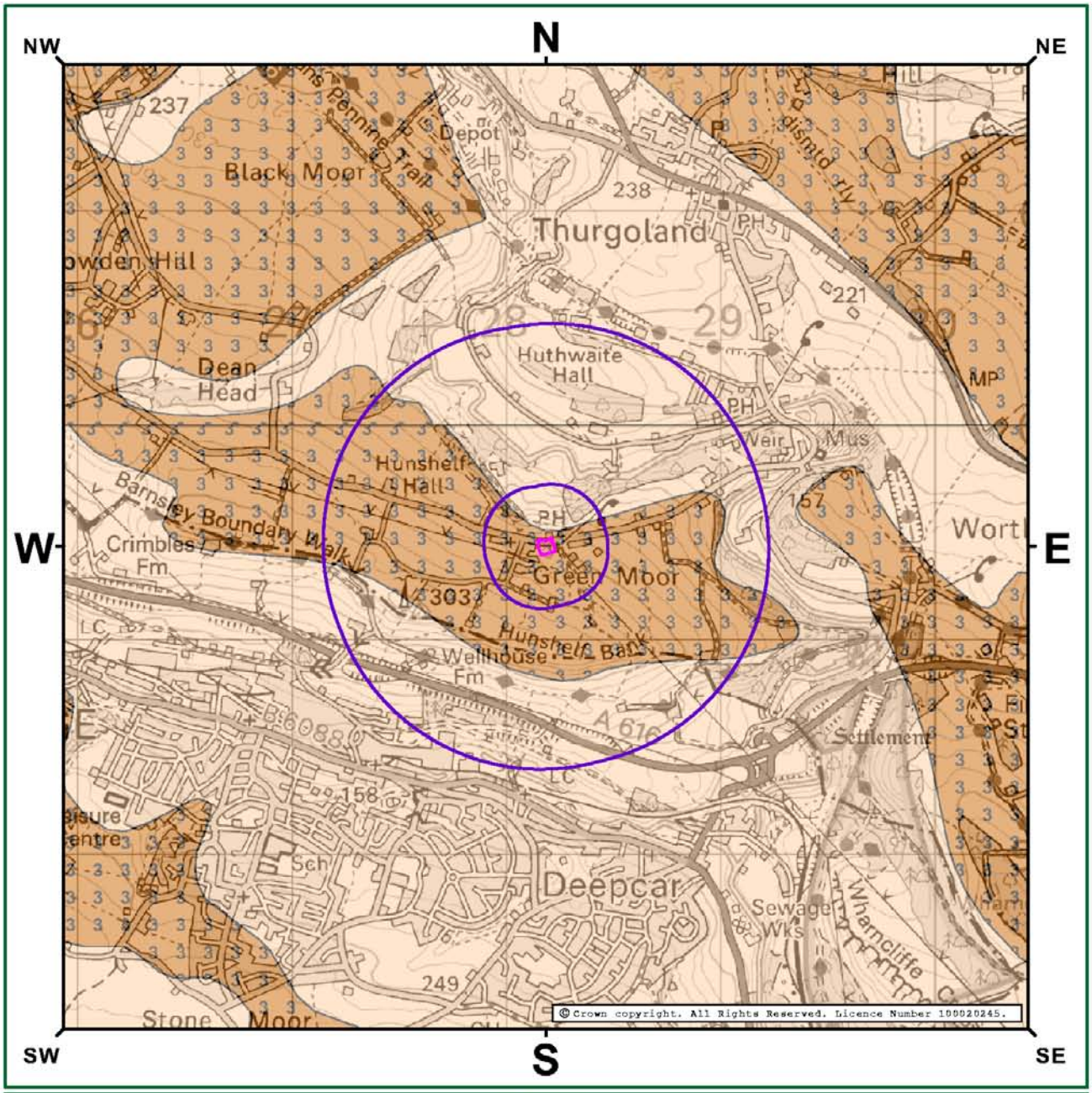
General

- Specified Site
- Bearing Reference Point
- Buffer

Agency & Hydrological

Environment Agency

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defences
- Flood Water Storage Areas
- Flood Defences



KEY

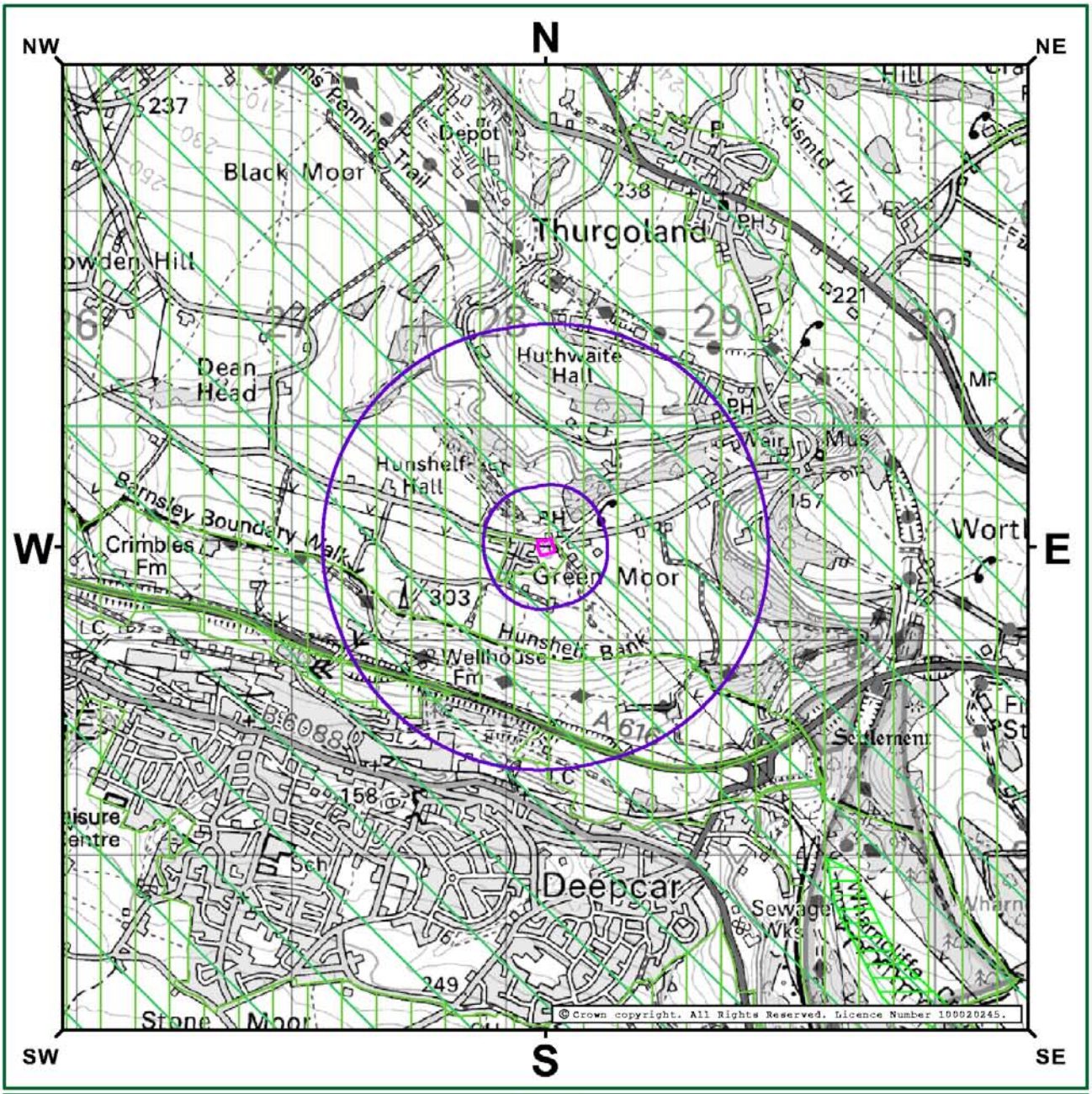
General

- Specified Site
- Bearing Reference Point
- Buffer

Groundwater Vulnerability

Geological Classes	Soil Classes
Major Aquifer (High Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variable Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	

Drift Deposit



KEY

General

- Specified Site
- Bearing Reference Point
- Buffer

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- National Scenic Area
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Issued by:
The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
ON-Line Service: www.groundstability.com - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

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LANDMARK INFORMATION GROUP LIMITED,
ABBEY COURT UNIT 5/7,
EAGLE WAY,
SOWTON INDUSTRIAL ESTATE,
EXETER,
DEVON,
EX2 7HY

Person dealing with this matter:	**Keith Pennington**
Our reference:	**00050983-11**
Your reference:	35820978
Electronic Ref:	EME_00016515320001_005
RRUID:	005.00016515320001
Date of your enquiry:	**22 August 2011**
Date we received your enquiry:	**22 August 2011**
Date of issue:	**23 August 2011**

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

Non-Residential Coal and Brine Report

Site At, The Rock, Green Moor, Sheffield, South Yorkshire

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	Yes
Brine Compensation District	No

Information from the Coal Authority

Underground Coal Mining

Past

According to the records in our possession, the property is not within the zone of likely physical influence on the surface from past underground workings.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove coal using underground methods.

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The property is not in an area that is likely to be affected at the surface from any planned future workings.

However reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Coal-mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast Coal Mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal-mining subsidence

The Coal Authority has not received a damage notice or claim for the property since 31 October 1994. There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of Support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

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Working Facilities Orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to Owners of Former Copyhold Land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

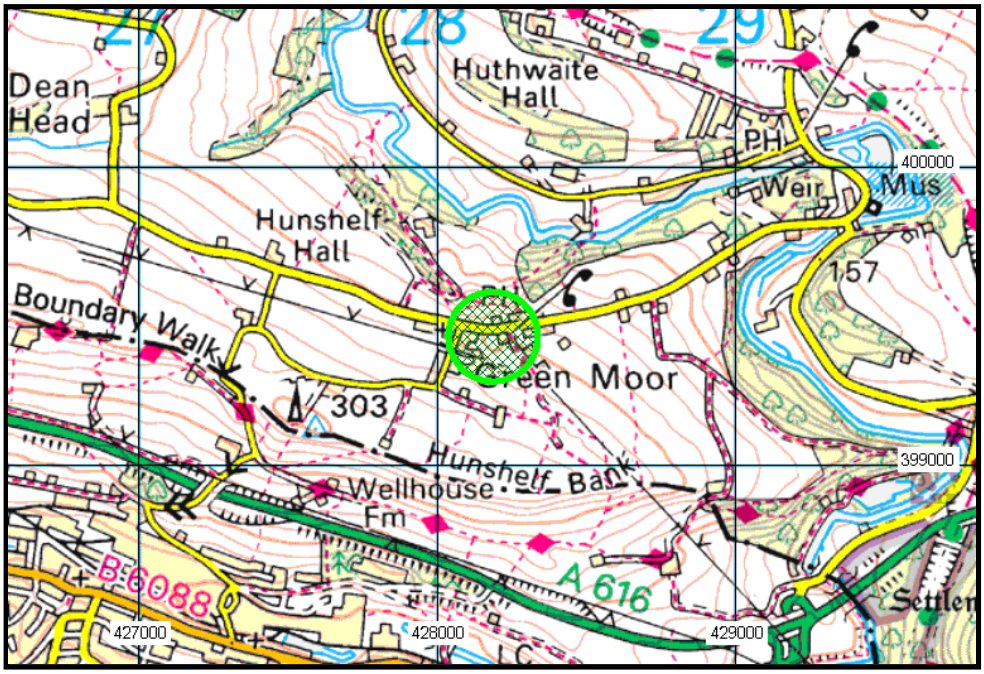
Additional remarks

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The report is compliant with Home Information Pack requirements.

The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

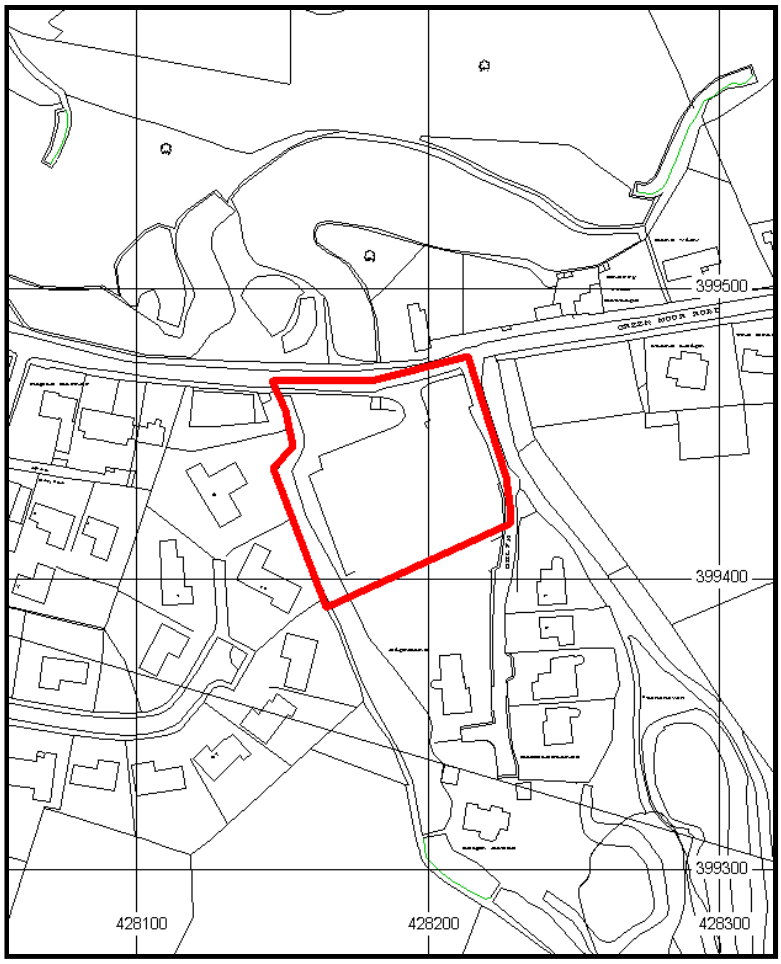
Location map

Approximate
position
of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

Mapping sourced from Ordnance Survey

Appendix 3

Trial Pit Logs - TP1 to TP10

Photographs

Eastwood & Partners
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Trialpit No
TP1
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	02/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 3.60m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						MADE GROUND: Grey sandy gravelly soil with rootlets and large angular fragments of demolition rubble; brick, pipes, textile, timber sections, whole plastic items, and metal items.
			0.60			
			0.70			MADE GROUND: Tiles and hardcore style flooring.
1.00	D					MADE GROUND: Yellow clayey gravelly SAND. Gravel is medium angular of sandstone.
			1.40			MADE GROUND: Orange to brown slightly clayey gravelly cobbly SAND. Gravel and cobbles are coarse angular of moderately strong yellow micaceous flaggy sandstone.
			3.60			Trialpit Complete at 3.60 m

1
2
3
4

Remarks: Trial pit terminated due to collapse.

Groundwater: None encountered.

AGS

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP2
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	02/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 4.00m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.40	D		0.50			TOPSOIL: Black to grey slightly clayey sand with rootlets.
1.40	D					MADE GROUND: Quarry backfill. Yellow to orange slightly clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone.
			4.00			Trialpit Complete at 4.00 m

Remarks: Trial pit terminated due to collapse.

Groundwater: Damp from 3 m.

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP3
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	02/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 2.50m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	D		0.15			TOPSOIL: Black to grey slightly clayey sand with rootlets and bricks.
1.50	D		2.50			MADE GROUND: Quarry backfill. Orange to brown very clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone. Trialpit Complete at 2.50 m

Remarks: Trial pit terminated due to collapse.

Groundwater: Slightly damp from 0.15 m.

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Trialpit No
TP4
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	02/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 2.50m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	D					TOPSOIL: Black to grey slightly clayey sand with rootlets and pieces of plaster, brick and timber.
			0.50			MADE GROUND: Quarry backfill. Orange to brown clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone. Some black shale present.
			2.50			Trialpit Complete at 2.50 m

Remarks: Trial pit terminated due to strong rock. Trial pit then collapsed.

Groundwater: Wet at 2.5 m.

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP5
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	02/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
		Depth 2.50m	
Client: Shepherd Homes Ltd.			Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.05			MADE GROUND: Tarmac.
			0.10			MADE GROUND: Hardcore.
0.50	D					MADE GROUND: Quarry backfill. Yellow to orange very clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone. Small amount of black shale present.
			2.50			Trialpit Complete at 2.50 m

Remarks: Trial pit terminated due to strong rock. Trial pit then collapsed.

Groundwater: Slightly wet from 1.7 m.

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HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP6
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	06/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 3.75m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			MADE GROUND: Concrete with reinforcing bars and blue polythene sheet at base.
			0.70			MADE GROUND: Brown gravelly cobbly SAND. Gravel and cobbles are coarse angular and of moderately strong yellow flaggy micaceous sandstone.
0.80	D		1.00			MADE GROUND: Dark grey gravelly SAND with occasional boulders. Gravel is coarse subangular to subrounded of sandstone. Boulders increase with depth, are angular, stained dark grey and of sandstone. Slight hydrocarbon odour noted.
						MADE GROUND: Quarry backfill. Loose dark grey moderately strong SANDSTONE recovered as boulders in sand. Sand increasing and becoming orange, more clayey and slightly damp with depth.
2.90	D					
3.40	D					
			3.75			Trialpit Complete at 3.75 m

1
2
3
4

Remarks: Scraped bottom. Sides collapsed.

Groundwater: Damp at 3.4 m.

AGS

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP7
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	06/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 1.20m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown loose sand with roots, rootlets and fragments of polystyrene.
			0.30			
						Orange slightly clayey gravelly cobbly SAND. Gravel and cobbles are coarse angular and of moderately weak flaggy sandstone. Cobbles increasing at 1 m.
1.00	D					
			1.20			Trialpit Complete at 1.20 m

Remarks: Trial pit terminated due to solid sandstone.

Groundwater: None encountered.

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP8
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	06/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 3.20m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.05			MADE GROUND: Tarmac.
						MADE GROUND: Pale brown sand and gravel.
			0.40			MADE GROUND: Quarry backfill. Yellow to orange slightly clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone.
1.40	D					
			3.20			Trialpit Complete at 3.20 m

Remarks: Sides collapsed.

Groundwater: Damp at 0.9 m near trees.

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HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP9
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	06/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 3.70m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.05			MADE GROUND: Tarmac.
						MADE GROUND: Pale brown sand and gravel.
			0.40			MADE GROUND: Quarry backfill. Orange slightly clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone. Cobbles decreasing with depth.
1.65	D					
			3.70			Trialpit Complete at 3.70 m

Remarks: Sides collapsed.

Groundwater: Wet at 0.7 m.

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03

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Trialpit No
TP10
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Green Moor	33849	Level: -	06/06/2011
Location: Barnsley		Dimensions: -	Scale 1:25
Client: Shepherd Homes Ltd.		Depth 4.00m	Logged By DES

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.10			MADE GROUND: Tarmac.
						MADE GROUND: Black hardcore and sand.
			0.55			MADE GROUND: Quarry backfill. Orange slightly clayey gravelly cobbly SAND with boulders. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone. Cobbles and boulders are angular of sandstone. Some boulders stained orange at 0.9m. Large sandstone boulder or edge of a natural shelf found at 2.5 - 2.7m.
1.40	D					
			2.70			MADE GROUND: Orange slightly clayey gravelly cobbly SAND. Gravel is medium to coarse angular of moderately strong yellow micaceous flaggy sandstone. Cobbles are angular of sandstone.
3.30	D					
			4.00			Trialpit Complete at 4.00 m

Remarks: Solid base felt but not seen due to collapses.

Groundwater: None encountered.

HoleBASE 3.1 (Bld 422.20) Standard Trialpit Log v2 dated 27th Nov 03











Appendix 4

Geotechnical Test Results - PSL11/1402

PSL
Professional Soils Laboratory

LABORATORY REPORT

UKAS TESTING
4043

Contract Number: PSL11/1402

Client's Reference: Report Date: 16 June 2011

Client Name: Eastwood & Partners
St Andrew's House
23 Kingfield Road
Sheffield

S11 9AS

For the attention of: C Topliss

Contract Title: Green Moor, Barnsley.

Date Received: 10-June-11
Date Commenced: 10-June-11
Date Completed: 16-June-11

Notes: Observations and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson	A Watkins	M Beastall
(Director)	(Director)	(Laboratory Manager)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
TP7			1.00	Brown highly weathered SILTSTONE.
TP8			1.40	Brown very sandy GRAVEL.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
	14/06/11		16/06/11		16/06/11

GREEN MOOR, BARNSLEY.

Contract No: PSL11/1402

Client Ref:

SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m^3 Clause 7.2	Dry Density Mg/m^3 Clause 7.2	Particle Density Mg/m^3 Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.	Plasticity Index % Clause 6.	% Passing .425mm	Remarks
TP7			1.00	8.8					NP			
TP8			1.40	7.6					NP			

SYMBOLS : NP : Non Plastic *** : Liquid Limit and Plastic Limit Wet Sieved.**

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
	14/06/11		16/06/11		16/06/11

GREEN MOOR, BARNSLEY.

Contract No: **PSL11/1402**

Client Ref:

Appendix 5

Chemical test results - Chemtest 117876 and Chemtech PSL42733

Table of Assessment Values

Chemtest
The right chemistry to deliver results

Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070

Eastwood & Partners
St. Andrews House
23 Kingfield Road
Sheffield
S11 9AS

FAO Catherine Topliss
14 June 2011

Dear Catherine Topliss

Test Report Number **117876**
Your Project Reference **Green Moor, Barnsley - 33849/001**

Please find enclosed the results of analysis for the samples received 6 June 2011.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely

Authorised Signatory

□ Darrell Hall	Director
☑ Phil Hellier	Director
□ Keith Jones	Technical Manager
□ John Crawford	Quality Manager
□ Malcolm Avis	Director

UKAS TESTING
2183

MCERTS

ISO 14001
sira
UKAS ENVIRONMENTAL MANAGEMENT

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *i/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or interpretations are outside of the scope of UKAS accreditation*
- *The results relate only to the items tested*
- *Stones represent the quantity of material removed prior to analysis*
- *All results are expressed on a dry weight basis*
- *The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols*
- *For all other tests the samples were dried at < 37°C prior to analysis*
- *Uncertainties of measurement for the determinands tested are available upon request*
- *Soil descriptions, including colour and texture, are beyond the scope of MCertS accreditation*
- *None of the test results included in this report have been recovery corrected*

Eastwood & Partners
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23 Kingfield Road
Sheffield
S11 9AS

FAO Catherine Topliss

LABORATORY TEST REPORT

Results of analysis of 7 samples received 6 June 2011

Green Moor, Barnsley - 33849/001

Report Date 14 June 2011

Login Batch No					117876					
Chemtest LIMS ID					AG10652	AG10653	AG10654	AG10655	AG10656	AG10657
Sample ID					TP1	TP2	TP2	TP3	TP4	TP4
Sample No										
Sampling Date					03/06/2011	03/06/2011	03/06/2011	03/06/2011	03/06/2011	03/06/2011
Depth					1m	0.4m	1.4m	0.1m	0.3m	0.9m
Matrix					*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*						
2175	Sulfur (total TRL report 447)		%	M	1.3		0.29			1.5
2120	Sulfate (2:1 water soluble) as SO4	14808798	g l-¹	M	1.7		<0.01			0.03
2490	Chromium (hexavalent)	18540299	mg kg-¹	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2430	Sulfate (total) by BS1377 (HCl	14808798	%	M	0.83		<0.01			<0.01
2450	Arsenic	7440382	mg kg-¹	M	12	17	6.0	15	23	6.7
	Cadmium	7440439	mg kg-¹	M	0.14	0.50	0.10	0.54	0.78	0.17
	Chromium	7440473	mg kg-¹	M	20	120	23	50	110	23
	Copper	7440508	mg kg-¹	M	18	43	15	94	89	59
	Mercury	7439976	mg kg-¹	M	<0.10	0.53	<0.10	0.49	4.4	0.16
	Nickel	7440020	mg kg-¹	M	23	37	25	39	69	23
	Lead	7439921	mg kg-¹	M	64	120	27	180	190	51
	Selenium	7782492	mg kg-¹	M	<0.20	1.1	0.21	0.98	1.5	0.32
	Zinc	7440666	mg kg-¹	M	64	140	50	210	260	79
2800	Naphthalene	91203	mg kg-¹	M	<0.1	<0.1	<0.1	0.3	0.3	<0.1
	Acenaphthylene	208968	mg kg-¹	N	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	Acenaphthene	83329	mg kg-¹	M	<0.1	<0.1	<0.1	0.3	<0.1	<0.1
	Fluorene	86737	mg kg-¹	M	<0.1	<0.1	<0.1	0.2	<0.1	<0.1
	Phenanthrene	85018	mg kg-¹	M	0.9	0.8	<0.1	2.1	1.5	0.4
	Anthracene	120127	mg kg-¹	M	0.2	0.2	<0.1	0.7	0.5	<0.1
	Fluoranthene	206440	mg kg-¹	M	1.2	1.6	<0.1	5.5	2.8	1.1
	Pyrene	129000	mg kg-¹	M	1	1.3	<0.1	4.7	2.5	0.9
	Benzo[a]anthracene	56553	mg kg-¹	M	0.6	0.8	<0.1	2.9	1.6	0.7
	Chrysene	218019	mg kg-¹	M	0.5	0.7	<0.1	2.4	1.4	0.5
	Benzo[b]fluoranthene	205992	mg kg-¹	M	0.7	1.1	<0.1	3.3	2.3	0.9
	Benzo[k]fluoranthene	207089	mg kg-¹	N	0.1	0.4	<0.1	0.9	0.7	0.3
	Benzo[a]pyrene	50328	mg kg-¹	M	0.5	0.8	<0.1	2.3	1.7	0.7
	Dibenzo[a,h]anthracene	53703	mg kg-¹	N	<0.1	<0.1	<0.1	0.2	0.2	<0.1

All tests undertaken between 06/06/2011 and 14/06/2011

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

Eastwood & Partners
St. Andrews House
23 Kingfield Road
Sheffield
S11 9AS

FAO Catherine Topliss

LABORATORY TEST REPORT

Results of analysis of 7 samples received 6 June 2011

Green Moor, Barnsley - 33849/001

Report Date 14 June 2011

Login Batch No					**117876**
Chemtest LIMS ID					AG10658
Sample ID					TP5
Sample No					
Sampling Date					03/06/2011
Depth					0.5m
Matrix					*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓		
2175	Sulfur (total TRL report 447)		%	M	0.33
2120	Sulfate (2:1 water soluble) as SO4	14808798	g l-1	M	0.03
2490	Chromium (hexavalent)	18540299	mg kg-1	N	<0.5
2430	Sulfate (total) by BS1377 (HCl	14808798	%	M	0.01
2450	Arsenic	7440382	mg kg-1	M	9.0
	Cadmium	7440439	mg kg-1	M	<0.10
	Chromium	7440473	mg kg-1	M	23
	Copper	7440508	mg kg-1	M	17
	Mercury	7439976	mg kg-1	M	<0.10
	Nickel	7440020	mg kg-1	M	26
	Lead	7439921	mg kg-1	M	36
	Selenium	7782492	mg kg-1	M	<0.20
	Zinc	7440666	mg kg-1	M	69
2800	Naphthalene	91203	mg kg-1	M	<0.1
	Acenaphthylene	208968	mg kg-1	N	<0.1
	Acenaphthene	83329	mg kg-1	M	<0.1
	Fluorene	86737	mg kg-1	M	<0.1
	Phenanthrene	85018	mg kg-1	M	<0.1
	Anthracene	120127	mg kg-1	M	<0.1
	Fluoranthene	206440	mg kg-1	M	<0.1
	Pyrene	129000	mg kg-1	M	<0.1
	Benzo[a]anthracene	56553	mg kg-1	M	<0.1
	Chrysene	218019	mg kg-1	M	<0.1
	Benzo[b]fluoranthene	205992	mg kg-1	M	<0.1
	Benzo[k]fluoranthene	207089	mg kg-1	N	<0.1
	Benzo[a]pyrene	50328	mg kg-1	M	<0.1
	Dibenzo[a,h]anthracene	53703	mg kg-1	N	<0.1

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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FAO Catherine Topliss

LABORATORY TEST REPORT

Results of analysis of 7 samples
received 6 June 2011

Green Moor, Barnsley - 33849/001

Chemtest
The right chemistry to deliver results

Report Date
14 June 2011

					117876					
					AG10652	AG10653	AG10654	AG10655	AG10656	AG10657
					TP1	TP2	TP2	TP3	TP4	TP4
					03/06/2011	03/06/2011	03/06/2011	03/06/2011	03/06/2011	03/06/2011
					1m	0.4m	1.4m	0.1m	0.3m	0.9m
					SOIL	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
2800	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	0.1	0.3	<0.1	1.1	0.9	0.3
	Benzo[g,h,i]perylene	191242	mg kg-¹	M	0.2	0.3	<0.1	1.2	1.2	0.4
	Total (of 16) PAHs		mg kg-¹	N	5.9	8.3	<2	28	18	6.2
2010	pH			M	8.3	7.9	7.9	7.4	7.5	8.0
2030	Moisture		%	n/a	9.75	14.5	10.3	14.2	10.3	10
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2140	Soil colour			n/a	brown	brown	brown	brown	brown	brown
	Soil texture			n/a	sand	sand	sand	sand	sand	sand
	Other material			n/a	stones	stones	stones	stones	stones	stones

All tests undertaken between 06/06/2011 and 14/06/2011

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

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23 Kingfield Road
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S11 9AS

LABORATORY TEST REPORT

Results of analysis of 7 samples
received 6 June 2011

Report Date
14 June 2011

FAO Catherine Topliss

Green Moor, Barnsley - 33849/001

					117876
					AG10658
					TP5
					03/06/2011
					0.5m
					SOIL
2800	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	<0.1
	Benzo[g,h,i]perylene	191242	mg kg-¹	M	<0.1
	Total (of 16) PAHs		mg kg-¹	N	<2
2010	pH			M	6.6
2030	Moisture		%	n/a	12.1
	Stones content (>50mm)		%	n/a	<0.02
2140	Soil colour			n/a	brown
	Soil texture			n/a	sand
	Other material			n/a	stones

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

ANALYTICAL TEST REPORT

Contract no: PSL/42733

Contract name: Green Moor, Barnsley

Client reference: PSL11/1402

Clients name: Professional Soils Laboratory

Clients address: 5-7 Hexthorpe Road
Doncaster
DN4 0AG

Samples received: 14 June 2011

Analysis started: 14 June 2011

Analysis completed: 20 June 2011

Report issued: 21 June 2011

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, withour prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by: K Campbell

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SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are exclusive of stones.

Lab ref	Sample id	Depth (m)	Soil description passing 2mm sieve	Description of material retained on 2mm sieve	% Retained on 2mm sieve	Moisture (%)
42733-1	TP 6	0.80	Clayey Sand	Stones, Gravel & Clinker	65.2	11.7

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SOILS

Lab number			42733-1
Sample id			TP 6
Depth (m)			0.80
Test	**Method**	**Units**	
TPH			
TPH Aromatic EC5-EC7	CE068	mg/kg	<0.01
TPH Aromatic EC7-EC8	CE068	mg/kg	<0.01
TPH Aromatic EC8-EC10	CE068	mg/kg	<0.01
TPH Aromatic EC10-EC12	CE068	mg/kg	<1
TPH Aromatic EC12-EC16	CE068	mg/kg	<1
TPH Aromatic EC16-EC21	CE068	mg/kg	3
TPH Aromatic EC21-EC35	CE068	mg/kg	<1
TPH Aromatic EC35-EC44	CE068	mg/kg	<1
TPH Aliphatic EC5-EC6	CE068	mg/kg	<0.1
TPH Aliphatic EC6-EC8	CE068	mg/kg	<0.1
TPH Aliphatic EC8-EC10	CE068	mg/kg	0.3
TPH Aliphatic EC10-EC12	CE068	mg/kg	<1
TPH Aliphatic EC12-EC16	CE068	mg/kg	2
TPH Aliphatic EC16-EC35	CE068	mg/kg	298
TPH Aliphatic EC35-EC44	CE068	mg/kg	10

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	STATUS	LOD	UNITS
CE068	TPH Aliphatic/Aromatic fractions (C5-C10)	Headspace GC-FID		0.01-0.1	mg/kg
CE068	TPH Aliphatic/Aromatic fractions (C10-C44)	Solvent extraction, GC-FID		1	mg/kg

Inorganics	Intended Land Use
	Residential (mg/kg)
Arsenic	32
Cadmium	10
Chromium	130
Chromium (VI)	4.3
Lead	450
Mercury	1
Nickel	130
Selenium	350
Copper	80 *1 (200 above pH7)
Zinc	200 *1 (300 above pH7)

Notes:

*1 - These are pH dependent; the most conservative value is given in this case.

The assessment values for the first seven metals or metalloids (arsenic to selenium) are the Soil Guideline Values (SGVs) derived by DEFRA and Environment Agency using the '*Contaminated Land Exposure Assessment'* model. The assessment concentrations for arsenic, cadmium, nickel, mercury and selenium are outlined in the Environment Agency's Science Report series SC050021. These are based on a sandy loam soil and 6% soil organic matter. The assessment concentrations for the remaining metals/metalloids are described in the Contaminated Land Report Series (CLR), which have now been withdrawn.

The SGV threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the SGV.

The assessment values for the metals copper and zinc are levels at which plant growth is thought to be affected. The assessment values for copper and zinc are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the '*The Code of Good Agricultural Practice for the Protection of Soil*', MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 *'Concrete in Aggressive Ground'*.

Prepared	AS	Checked	CAT	Date	30.06.11	Job No	33849

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THE ROCK, GREEN MOOR

GENERIC ASSESSMENT CRITERIA - RESIDENTIAL

Organic Compounds	Intended Land Use Residential (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	1.5	3.7	8.7
Acenaphthene	210	480	1000
Acenaphthylene	170	400	850
Fluorene	160	380	780
Phenanthrene	92	200	380
Anthracene	2,300	4,900	9,200
Fluoranthene	260	460	670
Pyrene	560	1,000	1,600
Benzo(a)anthracene	3.1	4.7	5.9
Chrysene	6.0	8.0	9.3
Benzo(b)fluoranthene	5.6	6.5	7.0
Benzo(k)fluoranthene	8.5	9.6	10
Benzo(a)pyrene	0.83	0.94	1.0
Dibenz(a,h)anthracene	0.76	0.86	0.90
Indeno(1,2,3-cd)pyrene	3.2	3.9	4.2
Benzo(g,h,i)perylene	44	46	47
Phenol	210	390	420

The assessment criteria for chromium (VI) and the sixteen polycyclic aromatic hydrocarbon (PAH) species covered under the USEPA test have been taken from Nathanail, C. P., McCaffrey, C., Ashmore, M. H., Cheng, Y. Y., Gillett, A., Ogden, R. & Scott, D., 2009 *'The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment 2nd Edition'*, Land Quality Press, Nottingham. This is also the case for phenol at 1% and 2.5% SOM. These are also all based on a sandy loam soil.

The threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the threshold value.

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