
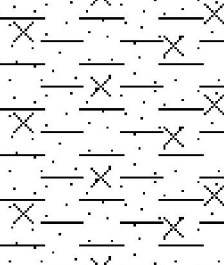
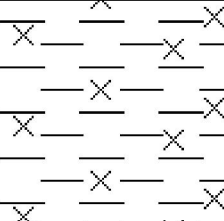
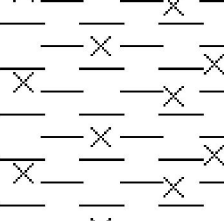
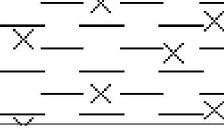

		Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com		<h1>Trial Pit Log</h1>		Trial Pit Number <h2>TP2</h2>			
Site Manchester Road, Chapel-en-le-Frith						Ground Level mAOD 239.600			
Client				GRM Project ref: P4879		Coordinates: 0.00E 0.00N			
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
1		0.10-0.20/D/ 0.10-0.20/J/			0.30	239.3		Firm brown locally orange silty sandy CLAY with occasional fine to medium angular to subrounded gravel including quartzite and sandstone.(TOPSOIL)	
		0.60-0.70/D/ 0.60-0.70/J/			1.20	238.4		Firm grey and orange silty sandy CLAY.(GLACIAL TILL)	
2		1.20-1.30/D/							
		1.80-1.90/D/							
		2.50-2.60/D/							
		3.00-3.10/D/			3.10	236.5		End of Trial Pit at 3.10 m	
Excavation Details					Dimensions (m)		Groundwater Observations		
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout the excavation Plant: JCB-3CX Logged by: NR							Soils wet from surface		
					Final Depth (m): 3.10				
General Remarks:									
Strata strengths/densities determined by observation only.									



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Trial Pit Log

Trial Pit Number
TP3
Ground Level mAOD
240.700

Site **Manchester Road, Chapel-en-le-Frith**

Client

GRM Project ref: **P4879**

Coordinates:
0.00E
0.00N

GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
1		0.10-0.20/D/ 0.10-0.20/J/			0.20	240.5		Firm brown silty sandy CLAY with occasional fine to medium subangular to subrounded gravel of quartzite.(TOPSOIL)	
		0.30-0.40/D/ 0.30-0.40/J/						Firm orange brown and grey silty slightly sandy CLAY.(GLACIAL TILL)	
					0.80	239.9		Firm to stiff grey and brown slightly silty CLAY with occasional fine to coarse angular to subrounded gravel of sandstone.(GLACIAL TILL)	
		0.90-1.00/D/							
2		1.90-2.00/D/						Stiff grey and brown slightly silty CLAY with occasional fine to medium subangular to subrounded gravel including quartzite and sandstone.(GLACIAL TILL)	
					2.50	238.2			
		2.60-2.70/D/							
		3.40-3.50/D/			3.50	237.2		End of Trial Pit at 3.50 m	

Excavation Details	Dimensions (m)	Groundwater Observations
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR	<div>0.60</div> <div>2.00</div> <div>Final Depth (m): 3.50</div>	Soils damp from surface.

General Remarks:

Strata strengths/densities determined by observation only.



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Trial Pit Log

Trial Pit Number
TP4

Ground Level mAOD
240.650

Coordinates:
0.00E
0.00N

Site **Manchester Road, Chapel-en-le-Frith**

Client

GRM Project ref: **P4879**



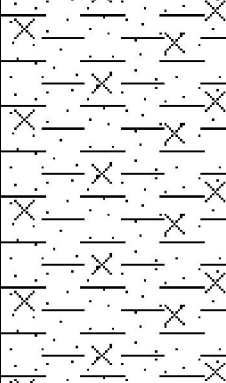
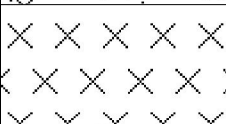
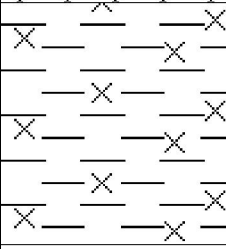
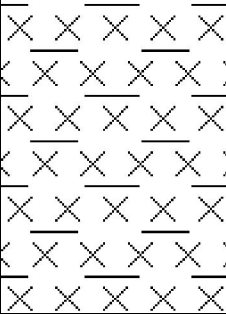

Scale: **1:25**




GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD	
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description
1					0.20	240.5		Firm dark brown silty sandy CLAY with occasional fine to coarse angular to subrounded gravel including brick and quartzite.(TOPSOIL)
					0.50	240.2		Firm orange brown and grey silty sandy CLAY with occasional fine to coarse angular to subrounded gravel including sandstone and quartzite.(GLACIAL TILL)
								Stiff brown and grey slightly silty CLAY with occasional fine to coarse subangular to subrounded gravel including quartzite and sandstone.(GLACIAL TILL)
2					2.50	238.2		Medium dense brown slightly silty slightly clayey fine to coarse SAND with some fine to coarse angular to subrounded gravel including quartzite and sandstone.(GLACIAL TILL)
					2.60	238.1		Stiff brown and grey slightly silty CLAY with occasional fine to coarse subangular to subrounded gravel including quartzite and sandstone.(GLACIAL TILL)
					3.60	237.1		End of Trial Pit at 3.60 m



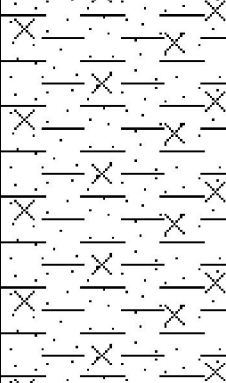
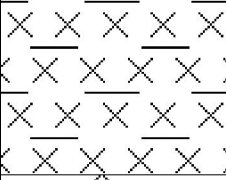
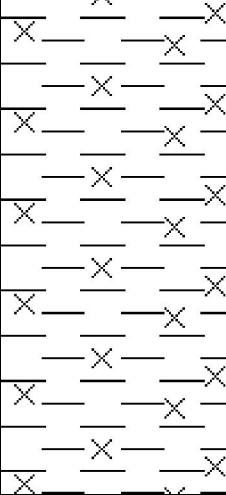

Excavation Details	Dimensions (m)	Groundwater Observations
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR	<div>0.60</div> <div>2.00</div> <div>Final Depth (m): 3.60</div>	No groundwater observed.

General Remarks:

Strata strengths/densities determined by observation only.

		Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com		<h1>Trial Pit Log</h1>		Trial Pit Number <h2>TP5</h2>			
Site Manchester Road, Chapel-en-le-Frith						Ground Level mAOD 242.250			
Client				GRM Project ref: P4879		Coordinates: 0.00E 0.00N			
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
1		0.10-0.20/D/ 0.10-0.20/J/			0.20	242.1		Firm brown silty sandy CLAY with occasional fine to medium angular to subrounded gravel including sandstone and quartzite.(TOPSOIL)	
		0.30-0.40/D/ 0.30-0.40/J/						Firm orange brown and grey slightly silty slightly sandy CLAY.(GLACIAL TILL)	
		1.30-1.40/D/			1.50	240.8		Firm grey slightly clayey SILT.(GLACIAL TILL)	
		1.60-1.70/D/			1.90	240.4		Stiff grey slightly silty CLAY.(GLACIAL TILL)	
		2.00-2.10/D/			2.70	239.6		Firm brown and grey slightly clayey slightly sandy SILT.(GLACIAL TILL)	
		2.80-2.90/D/							
									Continued next sheet
Excavation Details				Dimensions (m)		Groundwater Observations			
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR						Soils damp from surface.			
				Final Depth (m): 4.00					
General Remarks:									
Strata strengths/densities determined by observation only.									

 <div>Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com</div>		<h1>Trial Pit Log</h1>		Trial Pit Number TP5				
Site Manchester Road, Chapel-en-le-Frith				Ground Level mAOD 242.250				
Client			GRM Project ref: P4879		Coordinates: 0.00E 0.00N			
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA	STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description
	4	3.80-3.90/D/			4.00	238.3		Firm brown and grey slightly clayey slightly sandy SILT.(GLACIAL TILL) <i>End of Trial Pit at 4.00 m</i>
Excavation Details			Dimensions (m)			Groundwater Observations		
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR			 Final Depth (m): 4.00			Soils damp from surface.		
General Remarks:								
Strata strengths/densities determined by observation only.								

		Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com		<h1>Trial Pit Log</h1>		Trial Pit Number <h2>TP6</h2>		
Site Manchester Road, Chapel-en-le-Frith						Ground Level mAOD 239.200		
Client				GRM Project ref: P4879		Coordinates: 0.00E 0.00N		
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD	
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description
1		0.10-0.20/D/ 0.10-0.20/J/			0.20	239.0		Firm brown slightly silty slightly sandy CLAY with occasional fine to coarse angular to subrounded gravel including brick and quartzite.(TOPSOIL)
		0.30-0.40/D/ 0.30-0.40/J/						Firm orange brown and grey slightly silty slightly sandy CLAY.(GLACIAL TILL)
2		1.60-1.70/D/			1.50	237.7		Firm grey slightly clayey slightly sandy SILT.(GLACIAL TILL)
		2.20-2.30/D/			2.10	237.1		Firm to stiff grey slightly silty CLAY.(WEATHERED MILLSTONE GRIT SERIES)
Continued next sheet								
Excavation Details				Dimensions (m)		Groundwater Observations		
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides unstable throughout excavation Plant: JCB-3CX Logged by: NR						Soils damp from surface		
Final Depth (m): 4.00								
General Remarks:								
Strata strengths/densities determined by observation only.								



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Trial Pit Log

Trial Pit Number
TP6
Ground Level mAOD
239.200

Site **Manchester Road, Chapel-en-le-Frith**

Client

GRM Project ref: **P4879**



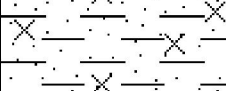

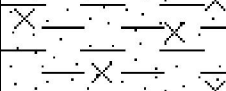

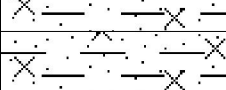

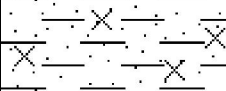


Coordinates:
0.00E
0.00N

GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
	4	3.90-4.00/D/			4.00	235.2		Firm to stiff grey slightly silty CLAY.(WEATHERED MILLSTONE GRIT SERIES)	
	5							End of Trial Pit at 4.00 m	

Excavation Details	Dimensions (m)	Groundwater Observations
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides unstable throughout excavation Plant: JCB-3CX Logged by: NR	 Final Depth (m): 4.00	Soils damp from surface

General Remarks:

Strata strengths/densities determined by observation only.

		Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com		<h1>Trial Pit Log</h1>		Trial Pit Number <h2>TP7</h2>		
Site Manchester Road, Chapel-en-le-Frith						Ground Level mAOD 241.700		
Client				GRM Project ref: P4879		Coordinates: 0.00E 0.00N		
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD	
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description
1		0.10-0.20/D/ 0.10-0.20/J/			0.30	241.4		Firm brown slightly silty slightly sandy CLAY with occasional fine to coarse angular to subrounded gravel including quartzite and sandstone.(TOPSOIL)
		0.40-0.50/D/ 0.40-0.50/J/						Firm orange brown and grey sandy silty CLAY.(GLACIAL TILL)
		1.00-1.10/D/						
		1.80-1.90/D/			1.70	240.0		Firm grey silty slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel including chert and sandstone.(GLACIAL TILL)
2								
								
								
		2.70-2.80/D/			2.60	239.1		Firm grey slightly sandy slightly clayey SILT.(GLACIAL TILL)
		3.70-3.80/D/						
						Continued next sheet		
Excavation Details					Dimensions (m)		Groundwater Observations	
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR							Soils damp from surface	
					Final Depth (m): 4.00			
General Remarks:								
Strata strengths/densities determined by observation only.								



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Trial Pit Log

Trial Pit Number
TP7
Ground Level mAOD
241.700

Site **Manchester Road, Chapel-en-le-Frith**

Client

GRM Project ref: **P4879**



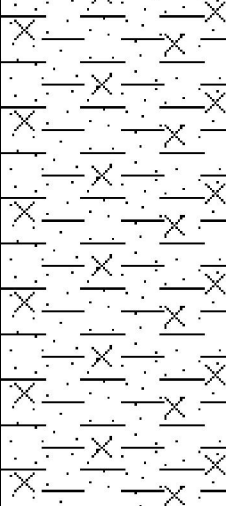
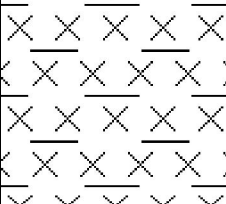
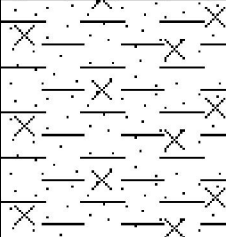


Coordinates:
0.00E
0.00N

GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
	4				4.00	237.7		Firm grey slightly sandy slightly clayey SILT.(GLACIAL TILL)	
	5							End of Trial Pit at 4.00 m	

Excavation Details	Dimensions (m)	Groundwater Observations
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR	<div>0.60</div> <div></div> <div>2.00</div> <div>Final Depth (m): 4.00</div>	Soils damp from surface

General Remarks:

Strata strengths/densities determined by observation only.

		Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com		<h1>Trial Pit Log</h1>			Trial Pit Number <h2>TP8</h2>	
Site Manchester Road, Chapel-en-le-Frith							Ground Level mAOD 240.800	
Client				GRM Project ref: P4879			Coordinates: 0.00E 0.00N	
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD	
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description
1		0.10-0.20/D/ 0.10-0.20/J/			0.30	240.5		Firm brown slightly silty sandy CLAY with some fine to coarse angular to subrounded gravel including chert and sandstone.(TOPSOIL)
		0.40-0.50/D/ 0.40-0.50/J/						Firm orange brown and grey slightly sandy very silty CLAY.(GLACIAL TILL)
		1.00-1.10/D/						
	2		2.00-2.10/D/			2.00	238.8	
		2.80-2.90/D/			2.70	238.1		Firm brown and grey silty slightly sandy CLAY.(GLACIAL TILL)
		3.70-3.80/D/			3.50	237.3		Firm grey slightly clayey SILT.(GLACIAL TILL)
								Continued next sheet
Excavation Details					Dimensions (m)		Groundwater Observations	
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR							Soils damp from surface	
					Final Depth (m): 4.00			
General Remarks:								
Strata strengths/densities determined by observation only.								



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Market Harborough Tel: 01858 414981
Email: mail@grm-uk.com Web: www.grm-uk.com

Trial Pit Log

Trial Pit Number
TP8
Ground Level mAOD
240.800

Site **Manchester Road, Chapel-en-le-Frith**

Client

GRM Project ref: **P4879**


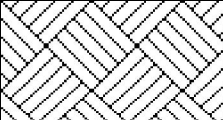
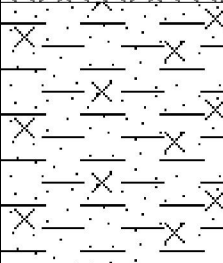
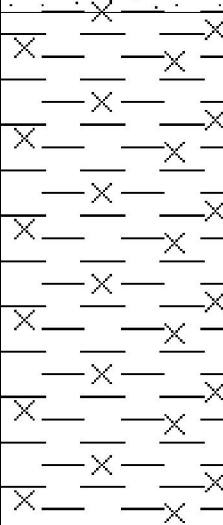


Coordinates:
0.00E
0.00N

GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
	4				4.00	236.8		Firm grey slightly clayey SILT.(GLACIAL TILL)	
	5							End of Trial Pit at 4.00 m	

Excavation Details	Dimensions (m)	Groundwater Observations
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR	<div>0.60</div> <div></div> <div>2.00</div> <div>Final Depth (m): 4.00</div>	Soils damp from surface

General Remarks:

Strata strengths/densities determined by observation only.

		Burton-on-Trent (HQ) Tel: 01283 551249 Market Harborough Tel: 01858 414981 Email: mail@grm-uk.com Web: www.grm-uk.com		<h1>Trial Pit Log</h1>		Trial Pit Number <h2>TP9</h2>		
Site Manchester Road, Chapel-en-le-Frith						Ground Level mAOD 240.900		
Client				GRM Project ref: P4879		Coordinates: 0.00E 0.00N		
GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD	
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description
1		0.10-0.20/D/ 0.10-0.20/J/			0.40	240.5		Firm brown slightly silty slightly sandy CLAY with some fine to coarse angular to subrounded gravel including sandstone and chert.(TOPSOIL)
		0.50-0.60/D/ 0.50-0.60/J/						Firm orange brown and grey slightly silty slightly sandy CLAY.(GLACIAL TILL)
		0.90-1.00/D/			1.30	239.6		Stiff grey slightly silty CLAY.(WEATHERED MILLSTONE GRIT SERIES)
		1.30-1.40/D/						
2		2.30-2.40/D/			3.00	237.9		
							End of Trial Pit at 3.00 m	
Excavation Details					Dimensions (m)		Groundwater Observations	
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR							Soils damp from surface	
					Final Depth (m): 3.00			
General Remarks:								
Strata strengths/densities determined by observation only.								



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Market Harborough Tel: 01858 414981
Email: mail@grm-uk.com Web: www.grm-uk.com

Trial Pit Log

Trial Pit Number
TP10
Ground Level mAOD
243.750

Site **Manchester Road, Chapel-en-le-Frith**

Client

GRM Project ref: **P4879**

Coordinates:
0.00E
0.00N

GROUNDWATER		SAMPLES	INSITU TESTING		STRATA		STRATA RECORD		Scale: 1:25
Strike	Depth (m)	Depth/Type/Ref (m)	Depth (m)	Hand Vane Strength (kN/m²)	Depth (m)	Level (mAOD)	Legend	Description	
		0.20-0.30/D/ 0.20-0.30/J/			0.60	243.2		Firm dark brown silty sandy CLAY with some fine to coarse angular to subrounded gravel including quartzite and brick.(TOPSOIL)	
	1	0.70-0.80/D/ 0.70-0.80/J/			1.00	242.8		Firm orange brown and grey silty slightly sandy CLAY.(GLACIAL TILL)	
		1.10-1.20/D/						Firm to stiff brown and grey silty CLAY with occasional fine to coarse angular to subrounded gravel including sandstone and chert.(GLACIAL TILL)	
	2	2.10-2.20/D/							
		2.90-3.00/D/			3.00	240.8			
								End of Trial Pit at 3.00 m	

Excavation Details	Dimensions (m)	Groundwater Observations
Date excavated: 05/05/2009 Date backfilled: 05/05/2009 Shoring: Stability: Sides stable throughout excavation Plant: JCB-3CX Logged by: NR	<div>0.60</div> <div>2.00</div> <div>Final Depth (m): 3.00</div>	Soils damp from surface

General Remarks:

Strata strengths/densities determined by observation only.



Burton-on-Trent (HQ) Tel: 01283 551249
Market Harborough Tel: 01858 414981
Email: mail@grm-uk.com Web: www.grm-uk.com

Window Sample Borehole

Borehole
Number

WS1

Site: Manchester Road, Chapel-en-le-Frith

GRM Project ref: **P4879**

Ground Level mAOD
239.850

Client:

Equipment: HHWS

Coordinates:

Crew: TH/SM Logger NR

-
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GROUNDWATER

SAMPLES

INSITU TESTING

STRATA RECORD

Scale: 1:25

Installation	Depth (m)	Depth/Type/Ref (m)	Depth/Type (m)	N Value	Casing Depth (m)	Depth (m)	Level (mAOD)	Key	Description
						0.40	239.5		Medium dense brown silty slightly clayey fine to coarse SAND with roots,(TOPSOIL)
						0.80	239.1		Firm brown and grey silty CLAY.(GLACIAL TILL)
						1.70	238.2		Firm brown and grey sandy SILT.(GLACIAL TILL)
						2.20	237.7		Firm grey slightly clayey SILT.(GLACIAL TILL)
						3.00	236.9		Stiff grey and brown silty CLAY.(WEATHERED MILLSTONE GRIT SERIES)
									End of Borehole at 3.00 m

Hole Started 05/05/2009

Hole Complete 05/05/2009

General Remarks:

Groundwater Remarks: Soils damp from surface

Test Type: S = Standard Penetration Test, C = Cone Penetration Test. N values reported are uncorrected. N value 50/275 = 50 blows in 275mm.



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Window Sample Borehole

Borehole
Number

WS2

Site: Manchester Road, Chapel-en-le-Frith

GRM Project ref: **P4879**

Ground Level mAOD
242.300

Client:

Equipment: HHWS

Coordinates:

Crew: TH/SM Logger NR

-
-

GROUNDWATER

SAMPLES

INSITU TESTING

STRATA RECORD

Scale: 1:25

Installation	Depth (m)	Depth/Type/Ref (m)	Depth/Type (m)	N Value	Casing Depth (m)	Depth (m)	Level (mAOD)	Key	Description
	0.40					0.40	241.9		Firm dark brown silty sandy CLAY with some fine to coarse angular to subrounded gravel including pot.(TOPSOIL)
	0.80					0.80	241.5		Firm orange brown and grey silty slightly sandy CLAY.(GLACIAL TILL)
	1.10					1.10	241.2		Stiff brown and grey slightly silty CLAY.(GLACIAL TILL)
	1.30					1.30	241.0		Firm brown slightly clayey SILT.(GLACIAL TILL)
									Stiff brown and grey silty CLAY with occasional fine o coarse angular to subrounded gravel of sandstone.(GLACIAL TILL)
						3.00	239.3		End of Borehole at 3.00 m

Hole Started 05/05/2009

Hole Complete 05/05/2009

General Remarks:

Groundwater Remarks: Soils damp from surface

Test Type: S = Standard Penetration Test, C = Cone Penetration Test. N values reported are uncorrected. N value 50/275 = 50 blows in 275mm.



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Window Sample Borehole

Borehole
Number

WS3

Site: Manchester Road, Chapel-en-le-Frith

GRM Project ref: **P4879**

Ground Level mAOD
238.700

Client:

Equipment: HHWS

Coordinates:

Crew: TH/SM Logger NR

-
-

GROUNDWATER		SAMPLES	INSITU TESTING			STRATA RECORD				Scale: 1:25
Installation	Depth (m)	Depth/Type/Ref (m)	Depth/Type (m)	N Value	Casing Depth (m)	Depth (m)	Level (mAOD)	Key	Description	
						0.60	238.1		Firm dark brown slightly silty slightly sandy CLAY with occasional fine to coarse angular to subrounded gravel including brick.(TOPSOIL)	
	1					1.60	237.1		Firm orange brown and grey slightly silty CLAY.(GLACIAL TILL)	
	2					2.50	236.2		Firm to stiff brown and grey slightly silty CLAY with occasional fine to coarse subangular to subrounded gravel including sandstone and chert. Silt layer present from 2.1 to 2.3m.(GLACIAL TILL)	
	3								End of Borehole at 2.50 m	
	4									

Hole Started 05/05/2009 Hole Complete 05/05/2009

General Remarks:

Groundwater Remarks:

Test Type: S = Standard Penetration Test, C = Cone Penetration Test. N values reported are uncorrected. N value 50/275 = 50 blows in 275mm.



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 Market Harborough Tel: 01858 414981
 Email: mail@grm-uk.com Web: www.grm-uk.com

Window Sample Borehole

Borehole Number

WS4

Site: Manchester Road, Chapel-en-le-Frith

GRM Project ref: **P4879**

Ground Level mAOD
243.750

Client:

Equipment: HHWS

Coordinates:

Crew: TH/SM Logger NR

-
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GROUNDWATER

SAMPLES

INSITU TESTING

STRATA RECORD

Scale: 1:25

Installation	Depth (m)	Depth/Type/Ref (m)	Depth/Type (m)	N Value	Casing Depth (m)	Depth (m)	Level (mAOD)	Key	Description
	0.35						243.4		Firm dark brown silty sandy clay with occasional fine to coarse angular to subrounded gravel including quartzite and sandstone.(TOPSOIL)
	1.00						242.8		Firm orange brown and grey slightly silty CLAY with occasional fine to coarse subangular to subrounded gravel including sandstone.(GLACIAL TILL)
	2.30						241.5		Firm brown slightly clayey SILT with rare fine to medium subangular to subrounded gravel of ironstone.(GLACIAL TILL)
	3.00						240.8		Firm to stiff grey and brown silty CLAY.(GLACIAL TILL)
									End of Borehole at 3.00 m

Hole Started 05/05/2009

Hole Complete 05/05/2009

General Remarks:

Groundwater Remarks: Soils damp from surface

Test Type: S = Standard Penetration Test, C = Cone Penetration Test. N values reported are uncorrected. N value 50/275 = 50 blows in 275mm.

A P P E N D I X H

MONITORING OF SOIL GASES & GROUNDWATER



PROJECT NO. P4879
SITE. CHAPEL EN LE FRITH
CLIENT. SP Robinson Developments
DATE. 13-May-09

GRM Development Solutions Limited
Laurus House
First Avenue
Centrum 100
Burton-upon-Trent
DE14 2WH

CONDITIONS. *TEMP* overcast/windy
ATMOSPHERIC PRESSURE: 984

Telephone: (01283) 551249
Facsimile: (01283) 211968
Email: mail@grm-uk.com

OPERATOR. stephen morris

EQUIPMENT. LMSxi Gas Data Recorder

RESULTS

Borehole/ Well Ref. No.	Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Flow	L.E.L	Depth to Groundwater
WS1	0.00	0.20	21.30	0.00	0.00	0.90
WS2	0.00	0.70	20.60	0.00	0.00	0.80
WS3	0.00	0.50	20.90	0.00	0.00	0.50
WS4	0.00	1.60	19.80	0.00	0.00	0.80

Notes

L.E.L. Lower Explosive Limit (100% L.E.L.'= 5% Flammable Gas)
N.D. Not Detected
N.R. Not Recorded
% By Volume

Signed (Operator).....

Authorised.....

MONITORING OF SOIL GASES & GROUNDWATER



PROJECT NO. P4879

SITE. CHAPEL EN LE FRITH

CLIENT. SP Robinson Developments

DATE. 02-Jun-09

CONDITIONS. *Weather* Overcast / Dry
ATMOSPHERIC PRESSURE: 998

OPERATOR. Tony Heron

EQUIPMENT. LMSxi

GRM Development Solutions Limited
 Laurus House
 First Avenue
 Centrum 100
 Burton-upon-Trent
 DE14 2WH

Telephone: (01283) 551249
 Facsimile: (01283) 211968
 Email: mail@grm-uk.com

RESULTS

Borehole/ Well Ref. No.	Methane (CH ₄) %	Carbon Dioxide (CO ₂) %	Oxygen (O ₂) %	Flow	L.E.L	Depth to Groundwater
WS1	0.0	0.4	19.9	0.0	0.0	0.91
WS2	0.0	0.3	20.3	0.0	0.0	0.55
WS3	0.0	0.1	20.0	0.0	0.0	0.50
WS4	0.0	0.2	19.8	0.0	0.0	1.23

Notes

L.E.L. Lower Explosive Limit (100% L.E.L.'= 5% Flammable Gas
 N.D. Not Detected
 N.R. Not Recorded
 % By Volume

Signed (Operator).....

Authorised.....