



ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No.
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454852.518 N:521166.223	S3_TPA_TP101
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.729	Start Date: 24/09/2021
		Sheet: 2 of 3

Figure S3_TPA_TP101.1
S3_TPA_TP101



Figure S3_TPA_TP101.2
S3_TPA_TP101





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP101
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454852.518 N:521166.223		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.729	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP101.3
S3_TPA_TP101





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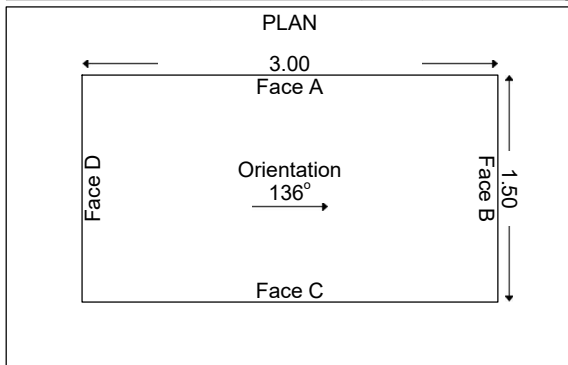
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP102	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454949.144 N:521160.277		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.698	Start Date: 23/09/2021	Sheet: 1 of 3

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
0.40	J1	<0.1ppm		9.40		MADE GROUND (Concrete).	
0.40	B2					0.30	MADE GROUND (Brown black and orange brown slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
0.40	ES3					(2.10)	
0.40	PID						
1.40	J4	<0.1ppm				MADE GROUND (Concrete).	
1.40	B5						2.40
2.40	J6						2.50
2.40	B7						
2.40	PID					Terminated at 2.50m BGL - due to difficulty getting through concrete (clients instructions).	



GROUNDWATER
 No groundwater inflow observed.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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TRIAL PIT RECORD

Status:-
PRELIM3

Project:	Prairie Phase 4		Exploratory Hole No. S3_TPA_TP102
Client:	Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454949.144 N:521160.277	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.698	Start Date: 23/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP102.1
S3_TPA_TP102



Figure S3_TPA_TP102.2
S3_TPA_TP102





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP102
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454949.144 N:521160.277		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.698	Start Date: 23/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP102.3
S3_TPA_TP102





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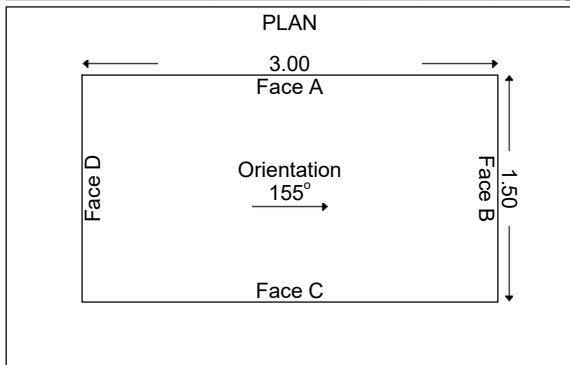
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP102A	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454949.144 N:521160.277	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.698	Start Date: 27/09/2021
		Sheet: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.60	J1 B2 ES3 PID	0.2ppm	↓	9.20	[Cross-hatched pattern]	0.50	MADE GROUND (Concrete).
0.60				7.90		1.30	MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timber, ceramic, rebar and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
0.60				7.50		1.80	Firm to stiff thinly laminated dark yellow brown sandy silty CLAY with interlaminations of fine grey brown sand.
1.90	J4 B5 ES6 PID	<0.1ppm		7.50		2.20	Terminated at 2.20m BGL - concrete obstruction.
1.90							
1.90							



GROUNDWATER
 Groundwater seepage at 1.40m BGL (Slow inflow). Standing groundwater level on completion at 2.10m BGL.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP102A	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454949.144 N:521160.277		S3_TPA_TP102A
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.698	Start Date: 27/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP102A.1
S3_TPA_TP102A



Figure S3_TPA_TP102A.2
S3_TPA_TP102A





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Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.698	Start Date: 27/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP102A.3
S3_TPA_TP102A





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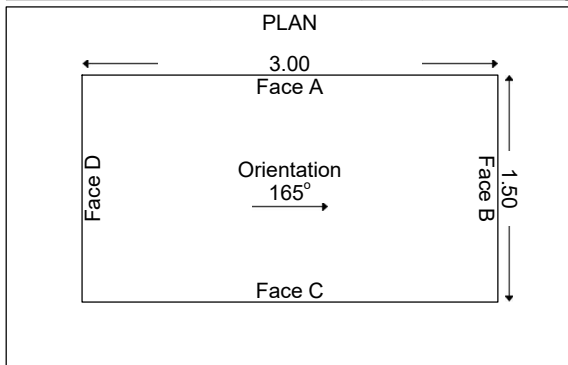
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP103	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454832.132 N:521088.552		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.952	Start Date: 24/09/2021	Sheet: 1 of 3

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1 B2 ES3 PID	<0.1ppm		9.65		0.30	MADE GROUND (Concrete).
0.40				1.20		MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).	
0.40						8.45	1.50
0.40						7.95	2.00
1.60	J4 B5 ES6 PID	<0.1ppm				0.50	Firm to stiff thinly laminated dark yellow brown with blue grey mottling sandy silty CLAY with interlaminations of fine grey brown sand.
1.60							
1.60							
1.60							
							<i>Complete at 2.00m BGL.</i>



GROUNDWATER
 No groundwater inflow observed.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP103	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454832.132 N:521088.552		S3_TPA_TP103
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.952	Start Date: 24/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP103.1
S3_TPA_TP103



Figure S3_TPA_TP103.2
S3_TPA_TP103





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Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454832.132 N:521088.552		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.952	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP103.3
S3_TPA_TP103





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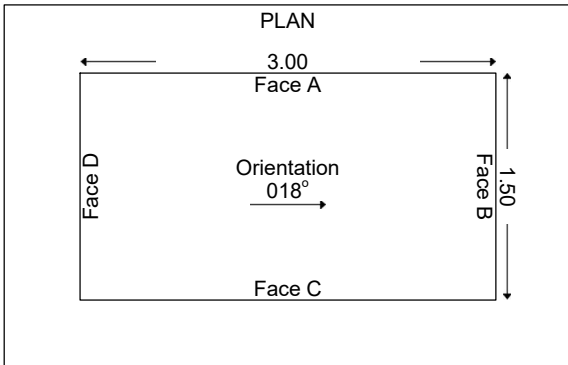
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP104	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454760.286 N:521039.729		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.491	Start Date: 27/09/2021	Sheet: 1 of 3

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Description	
0.40	J1 B2 ES3 PID	0.3ppm	↓	9.19		MADE GROUND (Concrete).	
0.40						MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).	
0.40							
0.40							
1.70	J4 B5 ES6 PID	<0.1ppm	↓	7.89		Firm to stiff thinly laminated dark yellow brown sandy silty CLAY with interlaminations of fine grey brown sand.	
1.70							
1.70				7.49		<i>Complete at 2.00m BGL.</i>	
1.70							



GROUNDWATER
 Groundwater seepage at 2.00m BGL (Slow inflow). Standing groundwater level on completion at 1.90m BGL.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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Project: Prairie Phase 4		Exploratory Hole No.	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454760.286 N:521039.729		S3_TPA_TP104
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.491	Start Date: 27/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP104.1
S3_TPA_TP104



Figure S3_TPA_TP104.2
S3_TPA_TP104





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TRIAL PIT RECORD

Status:-
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Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP104
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454760.286 N:521039.729		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.491	Start Date: 27/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP104.3
S3_TPA_TP104





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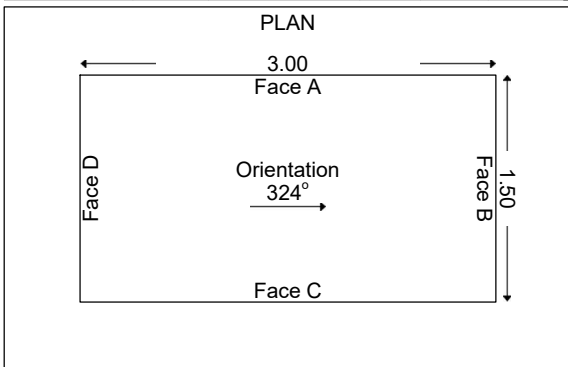
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP105	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454729.083 N:521117.601	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.726	Start Date: 24/09/2021
		Sheet: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1		↓	9.53	[Cross-hatch pattern]	0.20	MADE GROUND (Concrete).
0.30	B2					(0.90)	MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
0.30	ES3	<0.1ppm		8.63	[X pattern]	1.10	
0.30	PID					(0.40)	Firm to stiff thinly laminated dark yellow brown silty sandy CLAY with intermalinations of fine grey brown sand.
1.20	J4			8.23		1.50	Complete at 1.50m BGL.
1.20	B5						
1.20	ES6	<0.1ppm					
1.20	PID						



GROUNDWATER
 Groundwater seepage at 1.50m BGL (slow inflow). Standing groundwater level on completion at 1.45m BGL.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP105	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454729.083 N:521117.601		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.726	Start Date: 24/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP105.1
S3_TPA_TP105



Figure S3_TPA_TP105.2
S3_TPA_TP105





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP105
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454729.083 N:521117.601		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.726	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP105.3
S3_TPA_TP105





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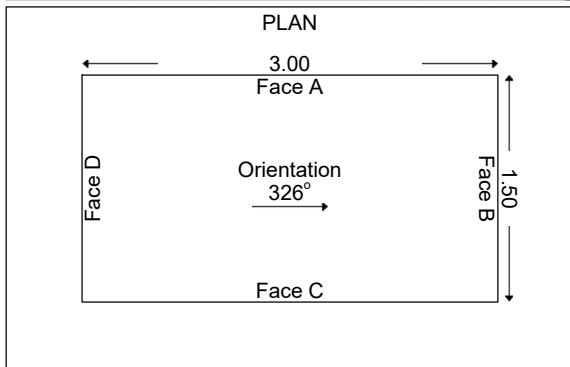
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP106	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454697.790 N:521088.133		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 11.481	Start Date: 24/09/2021	Sheet: 1 of 3

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1 B2 ES3 PID	<0.1ppm	↓	11.18	[Cross-hatched pattern]	0.30	MADE GROUND (Concrete).
0.40				10.28		(0.90)	MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
0.40				9.48		(0.80)	below c.1.10m BGL ... pockets of blue grey sandy gravel. Gravel is fine to coarse subangular to subrounded. Possible cyanide contamination.
0.40				2.00		Firm to stiff thinly laminated dark yellow brown sandy silty CLAY with interlaminations of fine grey brown sand.	
							Complete at 2.00m BGL.



GROUNDWATER
 Groundwater seepage at 2.00m BGL (slow inflow). Standing groundwater level on completion at 1.90m BGL.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP106	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454697.790 N:521088.133		Sheet: 2 of 3
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 11.481	Start Date: 24/09/2021	

Figure S3_TPA_TP106.1
S3_TPA_TP106



Figure S3_TPA_TP106.2
S3_TPA_TP106





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP106
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454697.790 N:521088.133		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 11.481	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP106.3
S3_TPA_TP106





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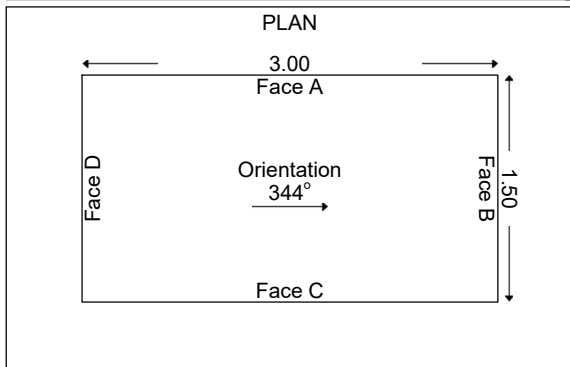
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP107	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454814.263 N:521143.147	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 10.131	Start Date: 24/09/2021
		Sheet: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.40	J1			9.83		0.30	MADE GROUND (Concrete).
0.40	B2						(0.50)
0.40	ES3	<0.1ppm		9.33		0.80	Firm to stiff thinly laminated yellow brown with blue grey mottling silty sandy CLAY with interlaminations of grey brown fine sand.
0.40	PID						
0.90	J4			8.53		1.60	Complete at 1.60m BGL.
0.90	B5	<0.1ppm					
0.90	ES6						
0.90	PID						



GROUNDWATER
 Groundwater seepage at 1.60m BGL (slow inflow). Standing groundwater level on completion at 1.40m BGL.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP107
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454814.263 N:521143.147		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 10.131	Start Date: 24/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP107.1
S3_TPA_TP107



Figure S3_TPA_TP107.2
S3_TPA_TP107





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP107
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454814.263 N:521143.147		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 10.131	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP107.3
S3_TPA_TP107





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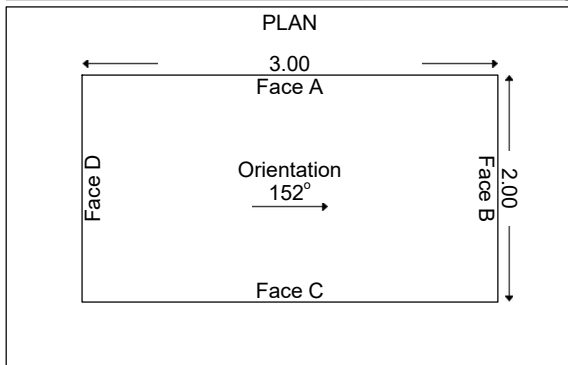
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP108	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454867.002 N:521126.828		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.905	Start Date: 24/09/2021	Sheet: 1 of 3

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
				9.41		(0.50) 0.50	MADE GROUND (Concrete).
0.60 0.60 0.60 0.60	J1 B2 ES3 PID	0.2ppm				(2.00)	MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
1.60 1.60 1.60	J4 B5 PID	<0.1ppm		7.41		2.50	MADE GROUND (Dark brown slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular. Clay content increasing with depth).
2.70 2.70 2.70	J6 B7 PID	<0.1ppm				(2.30)	
3.70 3.70 3.70	J8 B9 PID	<0.1ppm				4.80	
4.90 4.90 4.90 4.90	J10 B11 ES12 PID	<0.1ppm		5.11 4.91		5.00	Firm to stiff thinly laminated yellow brown with blue grey mottling silty sandy CLAY with interlamination of grey brown fine sand. <i>Complete at 5.00m BGL.</i>



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP108	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454867.002 N:521126.828		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.905	Start Date: 24/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP108.1
S3_TPA_TP108



Figure S3_TPA_TP108.2
S3_TPA_TP108





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP108
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454867.002 N:521126.828		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.905	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP108.3
S3_TPA_TP108





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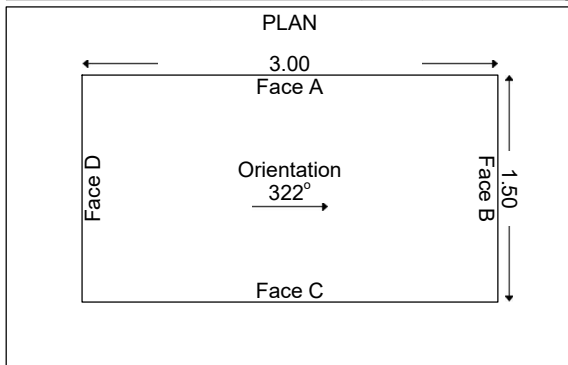
Tel: 0191 387 4700 Fax: 0191 387 4710
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP109	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454904.494 N:521186.762	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.503	Start Date: 24/09/2021
		Sheet: 1 of 3	

SAMPLES & TESTS			STRATA				
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description
0.30	J1	<0.1ppm	↓	9.30		0.20	MADE GROUND (Concrete).
0.30	B2			1.60		MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 25-50%. Slag is dark grey mostly vesicular).	
0.30	ES3					1.80	Firm to stiff thinly laminated yellow brown with blue grey mottling silty sandy CLAY with interlaminae of grey brown fine sand.
0.30	PID					2.20	Complete at 2.20m BGL.
1.30	J4	<0.1ppm	↓	7.70		1.80	Firm to stiff thinly laminated yellow brown with blue grey mottling silty sandy CLAY with interlaminae of grey brown fine sand.
1.30	B5			2.20		Complete at 2.20m BGL.	
1.90	J6			2.20		Complete at 2.20m BGL.	
1.90	B7			2.20		Complete at 2.20m BGL.	
1.90	ES8	<0.1ppm	↓	7.30		2.20	Complete at 2.20m BGL.
1.90	PID			2.20		Complete at 2.20m BGL.	



GROUNDWATER
 Groundwater seepage at 2.20m BGL (slow inflow). Standing groundwater level on completion at 2.10m BGL.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP109	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454904.494 N:521186.762		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.503	Start Date: 24/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP109.1
S3_TPA_TP109



Figure S3_TPA_TP109.2
S3_TPA_TP109





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP109
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454904.494 N:521186.762		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.503	Start Date: 24/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP109.3
S3_TPA_TP109





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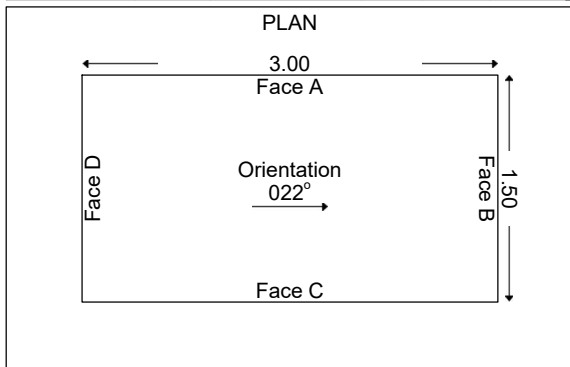
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP110	
Client: Tees Valley Combined Authority		Location: Former Redcar Steelworks, Redcar E:454746.221 N:521120.149	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)		Ground Level (m): 9.800	Start Date: 27/09/2021
		Sheet: 1 of 3	

SAMPLES & TESTS			Water	STRATA			
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	Description
0.00	ES1			9.60		0.20	MADE GROUND (Concrete).
0.30	J2						MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
0.30	B3						
0.30	ES4	<0.1ppm				1.30	
0.30	PID						
1.60	J5			8.30		1.50	Firm to stiff thinly laminated dark yellow brown with blue grey mottling silty sandy CLAY with interlaminations of grey brown fine sand.
1.60	B6						
1.60	ES7	<0.1ppm				2.00	
1.60	PID			7.80			
							<i>Complete at 2.00m BGL.</i>



GROUNDWATER
 No groundwater inflow observed.

STABILITY
 Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP110	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454746.221 N:521120.149		S3_TPA_TP110
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.800	Start Date: 27/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP110.1
S3_TPA_TP110



Figure S3_TPA_TP110.2
S3_TPA_TP110





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP110
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454746.221 N:521120.149		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.800	Start Date: 27/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP110.3
S3_TPA_TP110





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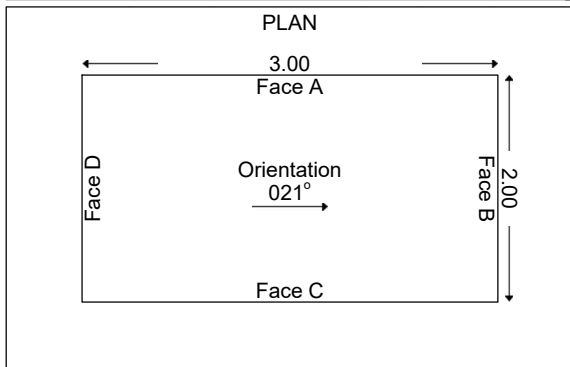
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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No. S3_TPA_TP111
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454920.479 N:521148.432	
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.331	Start Date: 22/09/2021
		Sheet: 1 of 3

SAMPLES & TESTS			STRATA					
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	Description	
0.30 0.30 0.30 0.30	J1 B2 ES3 PID	0.2ppm	Water	8.93	[Cross-hatch pattern]	(0.40) 0.40	MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).	
						(0.60) 1.00		MADE GROUND (Concrete).
1.30 1.30 1.30	J4 B5 PID	<0.1ppm						MADE GROUND (Brown black slightly clayey sandy gravel with medium cobble and boulder content with timbers, rebar, ceramic and glass fragments. Gravel is fine to coarse angular to subangular and includes brick, concrete and slag. Cobbles and boulders are angular to subangular and include brick and concrete. Slag content is 0-25%. Slag is dark grey mostly vesicular).
2.30 2.30 2.30	J6 B7 PID	<0.1ppm					(2.50) 3.50	Terminated at 3.50m BGL - due to close proximity of railway lines.



GROUNDWATER
No groundwater inflow observed.

STABILITY
Pit sides and base stable throughout excavation.

ADDITIONAL INFORMATION		
Sketch Diagram:	No Sketch Taken	
Photographs:	Yes	See additional sheets.

GENERAL REMARKS

All dimensions in metres Scale 1:50.00	For explanation of symbols and abbreviations see Key Sheets	Checked by:	Logged by: R. Clarke	Contract No. 4355
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Tel: 01772 735 300 Fax: 01772 735 999

TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4		Exploratory Hole No.	
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454920.479 N:521148.432		S3_TPA_TP111
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.331	Start Date: 22/09/2021	Sheet: 2 of 3

Figure S3_TPA_TP111.1
S3_TPA_TP111



Figure S3_TPA_TP111.2
S3_TPA_TP111





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TRIAL PIT RECORD

Status:-
PRELIM3

Project: Prairie Phase 4			Exploratory Hole No. S3_TPA_TP111
Client: Tees Valley Combined Authority	Location: Former Redcar Steelworks, Redcar E:454920.479 N:521148.432		
Method (Equipment): Machine Excavated (14 Tonne 360 Tracked Excavator)	Ground Level (m): 9.331	Start Date: 22/09/2021	Sheet: 3 of 3

Figure S3_TPA_TP111.3
S3_TPA_TP111




Groundwater Observations Made at the Time of Site Works



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GROUNDWATER OBSERVATIONS MADE AT THE TIME OF SITE WORKS
(WATER STRIKES)

Exploratory Hole No.	Date	Depth of Water (m)	Depth of Casing (m)	Depth Sealed (m)	Final Depth (m)	Total Time (mins)	Depth After 5 mins	Depth After 10 mins	Depth After 15 mins	Depth After 20 mins	Remarks
S3_BHA04	23/09/2021	8.00	7.30		7.25	20	7.60	7.45	7.30	7.25	Water strike (moderate inflow).
S3_TPA_TP102A	27/09/2021	1.40									Groundwater seepage (slow inflow).
S3_TPA_TP104	27/09/2021	2.00									Groundwater seepage (slow inflow).
S3_TPA_TP105	24/09/2021	1.50									Groundwater seepage (slow inflow).
S3_TPA_TP106	24/09/2021	2.00									Groundwater seepage (slow inflow).
S3_TPA_TP107	24/09/2021	1.60									Groundwater seepage (slow inflow).
S3_TPA_TP109	24/09/2021	2.20									Groundwater seepage (slow inflow).

	Contract Title :- <p style="text-align: center;">Prairie Phase 4</p>	Client :- <p style="text-align: center;">Tees Valley Combined Authority</p>	AEG Contract No :- <p style="text-align: center;">4355</p>
	Date of Issue :- <p style="text-align: center;">18/01/2022</p>	Page No. :- <p style="text-align: center;">1 of 1</p>	Checked By :-
		Certificate No. :- <p style="text-align: center;">GWOWS/4355/1</p>	

Groundwater Monitoring Results



ALLIED EXPLORATION & GEOTECHNICS LIMITED

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GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
S3_BHA01	26/11/2021 11:15	4.00m 50mm SP	10.28			Unable to locate
S3_BHA02	26/11/2021 09:33	5.00m 50mm SP	11.16	1.58	9.58	
S3_BHA02	01/12/2021 09:01	5.00m 50mm SP	11.16	0.83	10.33	
S3_BHA02	10/12/2021 16:03	5.00m 50mm SP	11.16	1.35	9.81	
S3_BHA03	22/10/2021 12:16	5.00m 25mm SP	9.90	Dry		
S3_BHA03	02/11/2021 11:07	5.00m 25mm SP	9.90	5.02	4.88	
S3_BHA03	11/11/2021 09:40	5.00m 25mm SP	9.90	4.89	5.01	
S3_BHA03	26/11/2021 11:02	5.00m 25mm SP	9.90	4.65	5.25	
S3_BHA03	01/12/2021 09:42	5.00m 25mm SP	9.90	4.62	5.28	
S3_BHA03	22/10/2021 12:02	15.00m 50mm SP	9.90	6.30	3.60	
S3_BHA03	02/11/2021 10:58	15.00m 50mm SP	9.90	6.34	3.56	
S3_BHA03	11/11/2021 09:18	15.00m 50mm SP	9.90	6.22	3.68	
S3_BHA03	26/11/2021 10:50	15.00m 50mm SP	9.90	6.36	3.54	
S3_BHA03	01/12/2021 09:38	15.00m 50mm SP	9.90	6.27	3.63	
S3_BHA04	22/10/2021 13:14	4.00m 25mm SP	10.02	0.73	9.29	
S3_BHA04	02/11/2021 08:35	4.00m 25mm SP	10.02	0.75	9.27	
S3_BHA04	11/11/2021 10:29	4.00m 25mm SP	10.02	0.93	9.09	
S3_BHA04	26/11/2021 10:04	4.00m 25mm SP	10.02	1.51	8.51	
S3_BHA04	01/12/2021 09:24	4.00m 25mm SP	10.02	0.62	9.40	
S3_BHA04	22/10/2021 12:59	12.30m 50mm SP	10.02	0.73	9.29	

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-

Prairie Phase 4

Client :-

Tees Valley Combined Authority



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ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office:
Regional Office:

Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG
Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL

Tel: 0191 387 4700 Fax: 0191 387 4710
Tel: 01772 735 300 Fax: 01772 735 999

GROUNDWATER MONITORING RESULTS

Monitoring Point	Date and Time	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Remarks
S3_BHA04	02/11/2021 08:29	12.30m 50mm SP	10.02	0.76	9.26	
S3_BHA04	11/11/2021 10:13	12.30m 50mm SP	10.02	0.94	9.08	
S3_BHA04	26/11/2021 09:54	12.30m 50mm SP	10.02	1.53	8.49	
S3_BHA04	01/12/2021 09:19	12.30m 50mm SP	10.02	0.60	9.42	

SP = Standpipe - SPIE = Standpipe Piezometer.

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Gas Monitoring Results




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Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % v/v		Methane % LEL		Carbon Dioxide % v/v		Oxygen % v/v		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
S3_BHA01	26/11/2021 11:15	Clear	6-7	4.00m 50mm SP	10.28																	Unable to locate
S3_BHA02	26/11/2021 09:33	Clear	6-7	5.00m 50mm SP	11.16	1.58	9.58	0.0	-0.07	989	0.1	0.1	2.0	2.0	0.2	0.2	20.7	20.7	<1.0	<1.0		
S3_BHA02	01/12/2021 09:01	Overcast/Rain	6-8	5.00m 50mm SP	11.16	0.83	10.33	0.0	-0.04	992	0.1	0.1	2.0	2.0	0.2	0.2	20.6	20.6	<1.0	<1.0		
S3_BHA02	10/12/2021 16:03	Clear	4	5.00m 50mm SP	11.16	1.35	9.81	0.0	0.02	1000	<0.1	<0.1	<2.0	<2.0	0.5	0.4	20.7	20.7	<1.0	1.0	1.1	
S3_BHA03	22/10/2021 12:16	Overcast	9-11	5.00m 25mm SP	9.90	Dry		0.1	0.03	1016	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.2	20.2	<1.0	1.0	0.1	
S3_BHA03	02/11/2021 11:07	Clear	6-10	5.00m 25mm SP	9.90	5.02	4.88	0.1	0.04	996	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.3	20.3	<1.0	<1.0	0.1	
S3_BHA03	11/11/2021 09:40	Partially Cloudy/Sunny	9-10	5.00m 25mm SP	9.90	4.89	5.01	0.1	0.07	1020	<0.1	<0.1	<2.0	<2.0	0.2	0.1	20.2	20.3	<1.0	2.0	<0.1	
S3_BHA03	26/11/2021 11:02	Clear	6-7	5.00m 25mm SP	9.90	4.65	5.25	0.0	0.00	989	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.7	20.7	<1.0	<1.0		
S3_BHA03	01/12/2021 09:42	Overcast/Rain	6-8	5.00m 25mm SP	9.90	4.62	5.28	0.0	0.00	993	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.8	20.8	<1.0	<1.0		
S3_BHA03	22/10/2021 12:02	Overcast	9-11	15.00m 50mm SP	9.90	6.30	3.60	0.1	0.02	1016	<0.1	<0.1	<2.0	<2.0	0.2	0.1	20.1	20.1	<1.0	3.0	0.8	
S3_BHA03	02/11/2021 10:58	Clear	6-10	15.00m 50mm SP	9.90	6.34	3.56	0.1	0.00	996	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.2	20.3	<1.0	2.0	0.6	

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

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	Date of Issue :- <p style="text-align: center;">18/01/2022</p>			Page No. :- <p style="text-align: center;">1 of 3</p>		Checked By :-			Approved By :-			Certificate No. :- <p style="text-align: center;">MON/4355/1</p>	


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Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG **Tel:** 0191 387 4700 **Fax:** 0191 387 4710
Regional Office: Unit 20 Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL **Tel:** 01772 735 300 **Fax:** 01772 735 999

GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % V/V		Methane % LEL		Carbon Dioxide % V/V		Oxygen % V/V		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
S3_BHA03	11/11/2021 09:18	Partially Cloudy/Sunny	9-10	15.00m 50mm SP	9.90	6.22	3.68	0.1	-0.05	1020	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.4	20.4	<1.0	2.0	0.5	
S3_BHA03	26/11/2021 10:50	Clear	6-7	15.00m 50mm SP	9.90	6.36	3.54	0.0	0.02	989	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.8	20.8	<1.0	<1.0		
S3_BHA03	01/12/2021 09:38	Overcast/Rain	6-8	15.00m 50mm SP	9.90	6.27	3.63	0.0	0.02	993	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.6	20.6	<1.0	<1.0		
S3_BHA04	22/10/2021 13:14	Overcast	9-11	4.00m 25mm SP	10.02	0.73	9.29	-6.0	0.12	1017	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.4	20.4	<1.0	1.0	0.1	
S3_BHA04	02/11/2021 08:35	Clear	6-10	4.00m 25mm SP	10.02	0.75	9.27	-4.0	0.02	995	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.4	20.4	<1.0	1.0	<0.1	
S3_BHA04	11/11/2021 10:29	Partially Cloudy/Sunny	9-10	4.00m 25mm SP	10.02	0.93	9.09	-2.9	0.12	1021	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.6	20.6	<1.0	<1.0	<0.1	
S3_BHA04	26/11/2021 10:04	Clear	6-7	4.00m 25mm SP	10.02	1.51	8.51	0.0	0.00	990	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.7	20.7	<1.0	<1.0		
S3_BHA04	01/12/2021 09:24	Overcast/Rain	6-8	4.00m 25mm SP	10.02	0.62	9.40	0.0	-0.02	987	<0.1	<0.1	<2.0	<2.0	0.2	0.2	20.7	20.7	<1.0	<1.0		
S3_BHA04	22/10/2021 12:59	Overcast	9-11	12.30m 50mm SP	10.02	0.73	9.29	-6.4	-0.19	1017	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.4	20.4	<1.0	2.0	2.1	
S3_BHA04	02/11/2021 08:29	Clear	6-10	12.30m 50mm SP	10.02	0.76	9.26	-4.1	-0.27	995	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.3	20.4	<1.0	1.0	1.1	
S3_BHA04	11/11/2021 10:13	Partially Cloudy/Sunny	9-10	12.30m 50mm SP	10.02	0.94	9.08	0.1	-0.05	1021	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.4	20.5	<1.0	1.0	1.0	

See attached Calibration Certificate for Model No. and any other details. SP = Standpipe - SPIE = Standpipe Piezometer. (P) = Peak - (S) = Steady - (D) = Decline.

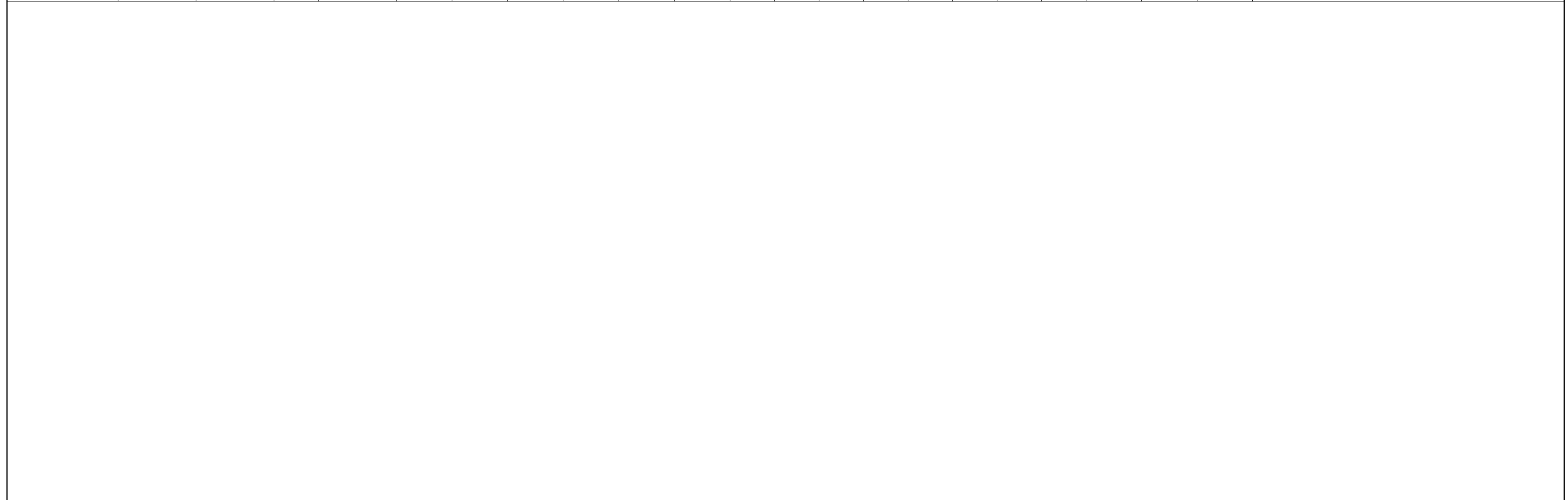
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Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG **Tel:** 0191 387 4700 **Fax:** 0191 387 4710
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GAS MONITORING RESULTS

Monitoring Point	Date and Time	Weather Condition	Temperature °C	Depth and Type of Well	Ground Level (mAOD)	Water Depth (mBGL)	Reduced Water Level (mAOD)	Flow (l/hr)	Diff Pressure (mbar)	ATM Pressure Range (mbar)	Methane % V/V		Methane % LEL		Carbon Dioxide % V/V		Oxygen % V/V		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Photo-Ionisation Detector (ppm)	Remarks
											(P)	(S)	(P)	(S)	(P)	(S)	(D)	(S)				
S3_BHA04	26/11/2021 09:54	Clear	6-7	12.30m 50mm SP	10.02	1.53	8.49	0.0	-0.02	990	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.8	20.8	<1.0	<1.0		
S3_BHA04	01/12/2021 09:19	Overcast/Rain	6-8	12.30m 50mm SP	10.02	0.60	9.42	0.0	0.00	987	<0.1	<0.1	<2.0	<2.0	0.1	0.1	20.9	20.9	<1.0	<1.0		



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