

# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 24.00	Start date: 10-01-17	End date: 10-01-17	Crew: JD & SW	Plant: FRASTE Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 10-01-17	Remarks:	mE: 327608.61
RC	24.00	27.00	11-01-17	11-01-17	JD & SW	FRASTE Drilling rig			DD	03-02-17		mN: 366303.91
RO	27.00	28.80	11-01-17	11-01-17	JD & SW	FRASTE Drilling rig			AM	11-01-17		mAOD: 113.25
												Grid: OSGB

Backfill/Instal'n	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/samples
					Clayey GRAVEL (MADE GROUND)						
				(2.50)							
			110.75	2.50	Brown CLAY (MADE GROUND)						
				(1.70)							
			109.05	4.20	Reddish brown very sandy GRAVEL of sandstone (MADE GROUND)						
				(1.80)							
			107.25	6.00	Dark grey CLAY (MADE GROUND)						
				(3.50)							
			103.75	9.50	Wood fragments (sleeper) and CLAY (MADE GROUND)						
				(0.50)							
			103.25	10.00							

Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck:	Rose to:	Casing:	Sealed:	Dia (mm): 200	Depth: 28.80	Casing:	From 0.00	to: 28.80	Remarks: Open Hole Drilling	Depth:	Type:	Return: Colour:

 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-A</b> Sheet 1 of 3			
Log issue: DRAFT Scale: 1:50											

**TerraConsult**

Backfill	Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
							Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
						Brown sandy gravelly CLAY. Gravel is fine to coarse						
					(8.50)							
				94.75	18.50	Interbedded light grey SANDSTONE and SILTSTONE						
							Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-A</b></p> <p>Sheet 2 of 3</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 24.00	Start date: 10-01-17	End date: 10-01-17	Crew: JD & SW	Plant: FRASTE Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 10-01-17	Remarks:	mE: 327608.61
RC	24.00	27.00	11-01-17	11-01-17	JD & SW	FRASTE Drilling rig			DD	03-02-17		mN: 366303.91
RO	27.00	28.80	11-01-17	11-01-17	JD & SW	FRASTE Drilling rig			AM	11-01-17		mAOD: 113.25
												Grid: OSGB

Backfill/Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/samples
				(5.50)	Interbedded light grey SANDSTONE and SILTSTONE						
			89.25	24.00	Strong to very strong medium fractured extremely closely to very closely laminated light grey and grey MUDSTONE. Fractures are (set 1) <10 degrees planar rough; (set 2) >80 degrees planar rough			24.00 - 25.50	100 91 29		24.00 - 27.00 C1
				(3.00)	24.06 m: 24.30 m: Set 1 fracture 24.37 m: Set 1 fracture 24.41 m: Set 1 fracture 24.67 m: Set 1 fracture 24.68 - 25.05 m: Set 2 fracture 24.79 m: Set 1 fracture 24.81 m: Set 1 fracture 24.85 m: Set 1 fracture 24.89 m: Set 1 fracture 24.91 m: Set 1 fracture 25.04 m: Set 1 fracture 25.10 - 25.50 m: Set 2 fracture 25.11 m: Set 1 fracture 25.19 m: Set 1 fracture 25.26 m: Set 1 fracture 25.37 m: Set 1 fracture 25.47 m: Set 1 fracture 25.56 m: Set 1 fracture 25.70 m: Set 1 fracture 25.79 m: Set 1 fracture 25.88 - 26.00 m: Set 2 fracture 25.90 m: Set 1 fracture 25.97 m: Set 1 fracture 26.28 m: Set 1 fracture 26.31 m: Set 1 fracture 26.39 m: Set 1 fracture 26.54 m: Set 1 fracture 26.67 m: Set 1 fracture 26.78 m: Set 1 fracture 26.84 m: Set 1 fracture 26.92 m: Set 1 fracture			25.50 - 27.00	100 95 33		
			86.25	27.00	Interbedded light grey SANDSTONE and SILTSTONE						
				(1.80)							
			84.45	28.80	Borehole ends at 28.80 m (Termination reason: Target depth)						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck: 26.50	Rose to: 0.00	Casing: Sealed:		Dia (mm): 200	Depth: 28.80	Casing:	From:	to:	Remarks:	Depth:	Type:	Return: Colour:

 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.		Project: Parry's Quarry Project No: 2931 Client: Alltami	Exploratory position reference: <b>2016-A</b>
Log issue: DRAFT Scale: 1:50			Sheet 3 of 3

**Borehole Log**
**TerraConsult**

**Borehole Log**
**TerraConsult**

<b>Borehole formation details:</b>												<b>Location details:</b>	
Type: RO	From: 0.00	To: 32.50	Start date: 16-01-17	End date: 17-01-17	Crew: JD & SW	Plant: FRASTE rig ADS	Barrel type:	Drill bit:	Logger: AM	Logged: 17-01-17	Remarks:	mE:      327737.97 mN:      366370.37 mAOD:    112.27 Grid:     OSGB	

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 32.50	Start date: 16-01-17	End date: 17-01-17	Crew: JD & SW	Plant: FRASTE rig ADS	Barrel type:	Drill bit:	Logger: AM	Logged: 17-01-17	Remarks:	mE:      327737.97 mN:      366370.37 mAOD:    112.27 Grid:     OSGB

<b>Borehole formation details:</b>												<b>Location details:</b>	
Type: RO	From: 0.00	To: 32.50	Start date: 16-01-17	End date: 17-01-17	Crew: JD & SW	Plant: FRASTE rig ADS	Barrel type:	Drill bit:	Logger: AM	Logged: 17-01-17	Remarks:	mE:      327737.97	
												mN:      366370.37	
												mAOD:    112.27	
												Grid:     OSGB	

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<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
				200	32.50		0.00	32.50	Open Hole Drilling				



 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-B</b></p> <p>Sheet 1 of 4</p>
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# Borehole Log

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Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 32.50	Start date: 16-01-17	End date: 17-01-17	Crew: JD & SW	Plant: FRASTE rig ADS	Barrel type:	Drill bit:	Logger: AM	Logged: 17-01-17	Remarks:	mE: 327737.97 mN: 366370.37 mAOD: 112.27 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey SANDSTONE						
				(9.00)							
			96.27	16.00	Grey MUDSTONE						
				(3.30)							
			92.97	19.30	Grey MUDSTONE interbedded with red mudstone						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

Groundwater entries:				Diameter & casing:		Depth related remarks:				Flush details:			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm): 200	Depth: 32.50	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:

 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.		Project: Parry's Quarry Project No: 2931 Client: Alltami		Exploratory position reference: <b>2016-B</b>	
Log issue: DRAFT Scale: 1:50				Sheet 2 of 4	

# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 32.50	Start date: 16-01-17	End date: 17-01-17	Crew: JD & SW	Plant: FRASTE rig ADS	Barrel type:	Drill bit:	Logger: AM	Logged: 17-01-17	Remarks:	mE: 327737.97 mN: 366370.37 mAOD: 112.27 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
				(6.70)	Grey MUDSTONE interbedded with red mudstone						
			86.27	26.00	Grey SANDSTONE						
				(2.00)							
			84.27	28.00	Moderately strong to strong extremely closely to medium fractured greenish grey MUDSTONE. Fractures are (set 1) <10 degrees planar rough and (set 2) >80 degrees planar rough						28.00 - 31.00 C1
					28.00 - 28.18 m: Set 2 fracture						
					28.12 m: Set 1 fracture						
					28.16 m: Set 1 fracture						
					28.20 m: Set 1 fracture						
					28.45 m: Set 1 fracture						
					28.91 m: Set 1 fracture						
					29.30 m: Set 1 fracture						
					29.30 - 30.30 m: Set 2 fracture						
					29.35 m: Set 1 fracture						
					29.40 m: Set 1 fracture						
					29.60 m: Set 1 fracture						
					29.85 - 29.90 m: NI						
				(3.00)							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks



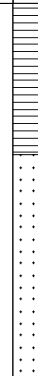



<b>Groundwater entries:</b> Struck: 30.00    Rose to: 0.00    Casing:    Sealed:				<b>Diameter &amp; casing:</b> Dia (mm): 200    Depth: 32.50    Casing:		<b>Depth related remarks:</b> From    to:    Remarks:			<b>Flush details:</b> Depth:    Type:    Return:    Colour:		
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue: DRAFT Scale: 1:50		Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-B</b>	
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 32.50	Start date: 16-01-17	End date: 17-01-17	Crew: JD & SW	Plant: FRASTE rig ADS	Barrel type:	Drill bit:	Logger: AM	Logged: 17-01-17	Remarks:	mE: 327737.97 mN: 366370.37 mAOD: 112.27 Grid: OSGB

Back fill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
			81.27	31.00	30.00 m: Set 1 fracture						
					30.23 m: Set 1 fracture						
					30.34 - 30.86 m: Set 2 fracture						
					30.40 - 30.45 m: NI						
					30.63 m: Set 1 fracture						
					30.69 m: Set 1 fracture						
					30.71 m: Set 1 fracture						
					30.75 m: Set 1 fracture						
					30.80 m: Set 1 fracture						
					30.88 m: Set 1 fracture						
					30.89 m: Set 1 fracture						
					Grey SANDSTONE						
(1.50)											
			79.77	32.50	Borehole ends at 32.50 m (Termination reason: Target depth)						

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:		<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200    32.50		<b>Depth related remarks:</b> From    to:    Remarks:		<b>Flush details:</b> Depth:    Type:    Return:    Colour:	
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue:    DRAFT Scale:    1:50		Project:    Parry's Quarry Project No: 2931 Client:    Alltami		Exploratory position reference: <b>2016-B</b> Sheet 4 of 4	
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 21.00	Start date: 08-12-16	End date: 12-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 12-12-16	Remarks:	mE: 327812.70
RO	21.20	48.65	12-12-16	12-12-16	DD	Symmetrix Drilling rig			AM	12-12-16		mN: 366454.97
												mAOD: 112.70
												Grid: OSGB

Backfill/ Instaln	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Soft to firm brown CLAY						
				(6.20)							
				106.50 6.20	Grey weak MUDSTONE						
				(1.70)							
				105.00 7.70	Red brown SAND and SANDSTONE gravel						
				(4.50)							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b> Struck: Rose to: Casing: Sealed:				<b>Diameter &amp; casing:</b> Dia (mm): 200    Depth: 48.65    Casing: 21.20			<b>Depth related remarks:</b> From 0.00 to: 21.20    Remarks: Cased Drilling			<b>Flush details:</b> Depth:    Type:    Return:    Colour:		
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue: DRAFT Scale: 1:50				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-C</b> Sheet 1 of 5			
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**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 21.00	Start date: 08-12-16	End date: 12-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 12-12-16	Remarks:	mE:      327812.70
RO	21.20	48.65	12-12-16	12-12-16	DD	Symmetrix Drilling rig			AM	12-12-16		mN:      366454.97 mAOD:    112.70 Grid:     OSGB

Backfill Install	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Red brown SAND and SANDSTONE gravel						
			100.50	12.20	Grey MUDSTONE with occasional bands of yellow brown sand						
				(4.50)							
			96.00	16.70	Grey MUDSTONE with occasional sand bands						
				(1.00)							
			95.00	17.70	Grey MUDSTONE						
				(3.50)							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
17.60	9.70			200	48.65	21.20							

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 2 of 5</p>
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**TerraConsult**

Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 21.00	Start date: 08-12-16	End date: 12-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 12-12-16	Remarks:	mE:	327812.70
RO	21.20	48.65	12-12-16	12-12-16	DD	Symmetrix Drilling rig			AM	12-12-16		mN:	366454.97
												mAOD:	112.70
												Grid:	OSGB

Backfill Install	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey MUDSTONE						
			91.50	21.20	Grey MUDSTONE with occasional sand bands						
				(14.40)							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        48.65        21.20	<b>Depth related remarks:</b> From        to:        Remarks: 21.20       48.65       Open Hole Drilling	<b>Flush details:</b> Depth:        Type:        Return:        Colour:
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 3 of 5</p>
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**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 21.00	Start date: 08-12-16	End date: 12-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 12-12-16	Remarks:	mE:      327812.70
RO	21.20	48.65	12-12-16	12-12-16	DD	Symmetrix Drilling rig			AM	12-12-16		mN:      366454.97 mAOD:    112.70 Grid:     OSGB

[illegible]

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
35.60	20.20			200	48.65	21.20							

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 4 of 5</p>
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**Borehole Log**
**TerraConsult**

**Borehole Log**
**TerraConsult**

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Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 21.00	Start date: 08-12-16	End date: 12-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 12-12-16	Remarks:	mE:	327812.70
RO	21.20	48.65	12-12-16	12-12-16	DD	Symmetrix Drilling rig			AM	12-12-16		mN:	366454.97
												mAOD:	112.70
												Grid:	OSGB

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Backfill/Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey MUDSTONE						
			64.05	48.65	Borehole ends at 48.65 m (Termination reason: Target depth)						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        48.65        21.20	<b>Depth related remarks:</b> From        to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>							
	Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
					200	48.65	21.20							

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>							
	Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
					200	48.65	21.20							

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>							
	Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
					200	48.65	21.20							

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        48.65        21.20	<b>Depth related remarks:</b> From        to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        48.65        21.20	<b>Depth related remarks:</b> From        to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        48.65        21.20	<b>Depth related remarks:</b> From        to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):      Depth:      Casing: 200         48.65         21.20	From            to:            Remarks:	Depth:                                  Type:                                  Return:                                  Colour:



 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C</b></p> <p>Sheet 5 of 5</p>
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C1</b></p> <p>Sheet 2 of 3</p>
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**TerraConsult**

Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 7.50	Start date: 14-12-16	End date: 15-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 15-12-16	Remarks:	mE:	327813.58
RO	7.50	20.20	15-12-16	15-03-17	DD	Symmetrix Drilling rig			AM	15-12-16		mN:	366458.08
												mAOD:	112.83
												Grid:	

[illegible]

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        20.20        7.50	<b>Depth related remarks:</b> From            to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-C1</b></p> <p>Sheet 3 of 3</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 32.00	Start date: 20-01-17	End date: 20-03-17	Crew: JD & SW	Plant: FRASTE rig	Barrel type:	Drill bit:	Logger: AM	Logged: 20-01-17	Remarks:	mE: 327812.19
RO	32.00	34.50	23-01-17	23-01-17	JD & SW	FRASTE rig			AM	23-01-17		mN: 366547.40
											Grid:	mAOD: 114.02

Backfill/ Instaln	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Red brown CLAY						
				(5.00)							
			109.02	5.00	Very sandy red brown CLAY						
				(2.00)							
			107.02	7.00	Orange brown SAND/SANDSTONE						
				(3.00)							
			104.02	10.00							

<b>Groundwater entries:</b> Struck: Rose to: Casing: Sealed:		<b>Diameter &amp; casing:</b> Dia (mm): 200    Depth: 34.50    Casing: 32.00		<b>Depth related remarks:</b> From 0.00 to: 32.00    Remarks: Cased Drilling		<b>Flush details:</b> Depth:    Type:    Return:    Colour:	
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue: DRAFT Scale: 1:50		Project: Parry's Quarry Project No: 2931 Client: Alltami		Exploratory position reference: <b>2016-D</b> Sheet 1 of 4	
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**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 32.00	Start date: 20-01-17	End date: 20-03-17	Crew: JD & SW JD & SW	Plant: FRASTE rig	Barrel type:	Drill bit:	Logger: AM	Logged: 20-01-17	Remarks:	mE: 327812.19
RO	32.00	34.50	23-01-17	23-01-17		FRASTE rig			AM	23-01-17		mN: 366547.40 mAOD: 114.02 Grid:

Backfill Install	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
				(11.00)	Brown SANDSTONE with some small amounts of clay						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
18.50	18.20			200	34.50	32.00							

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-D</b></p> <p>Sheet 2 of 4</p>
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**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 32.00	Start date: 20-01-17	End date: 20-03-17	Crew: JD & SW JD & SW	Plant: FRASTE rig	Barrel type:	Drill bit:	Logger: AM	Logged: 20-01-17	Remarks:	mE: 327812.19
RO	32.00	34.50	23-01-17	23-01-17		FRASTE rig			AM	23-01-17		mN: 366547.40 mAOD: 114.02 Grid:

[illegible]

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        34.50        32.00	<b>Depth related remarks:</b> From            to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-D</b></p> <p>Sheet 3 of 4</p>
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**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 32.00	Start date: 20-01-17	End date: 20-03-17	Crew: JD & SW JD & SW	Plant: FRASTE rig	Barrel type:	Drill bit:	Logger: AM	Logged: 20-01-17	Remarks:	mE: 327812.19
RO	32.00	34.50	23-01-17	23-01-17		FRASTE rig			AM	23-01-17		mN: 366547.40 mAOD: 114.02 Grid:


Backfill/Instal'n	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey MUDSTONE						
			82.02	32.00	Grey MUDSTONE						
				(2.50)							
			79.52	34.50	Borehole ends at 34.50 m (Termination reason: Target depth)						

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
32.00	0.00	21.00		200	34.50	32.00	32.00	34.50	Open Hole Drilling				

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-D</b></p> <p>Sheet 4 of 4</p>
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<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        36.20        12.00	<b>Depth related remarks:</b> From        to:        Remarks: 0.00        12.00        Cased Drilling	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-E</b></p> <p>Sheet 1 of 4</p>
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**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 12.00	Start date: 20-01-17	End date: 20-01-17	Crew: DD	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger: AM	Logged: 20-01-17	Remarks:	mE: 327767.89
RO	12.00	36.20	20-01-17	20-01-17	DD	COMACCIO MC450P rig			AM	20-01-17		mN: 366686.74 mAOD: 110.62 Grid:

[illegible]

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):      Depth:      Casing: 200         36.20        12.00	From            to:        Remarks: 12.00        36.20      Open Hole Drilling	Depth:                      Type:                      Return:                      Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-E</b></p> <p>Sheet 2 of 4</p>
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Backfill Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey MUDSTONE						
				(11.30)							
			80.82	29.80	Dark grey MUDSTONE with some clay						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        36.20        12.00			<b>Depth related remarks:</b> From            to:        Remarks:			<b>Flush details:</b> Depth:                                  Type:                                  Return:                                  Colour:			

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-E</b></p> <p>Sheet 3 of 4</p>
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<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
33.70	0.00	12.00		200	36.20	12.00							

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-E</b></p> <p>Sheet 4 of 4</p>
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**TerraConsult**

Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 16.50	Start date: 02-12-16	End date: 05-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 05-12-16	Remarks:	mE:	327723.66
RO	16.50	38.00	05-12-16	05-12-16	DD	Symmetrix Drilling rig			AM	05-12-16		mN:	366768.08
												mAOD:	106.92
												Grid:	OSGB

[illegible]

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing:			<b>Depth related remarks:</b> From            to:    Remarks:			<b>Flush details:</b> Depth:                      Type:                      Return:                      Colour:			
	200	38.00	16.50	0.00	16.50	Cased Drilling				

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-F</b></p> <p>Sheet 1 of 4</p>
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<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        38.00        16.50	<b>Depth related remarks:</b> From        to:        Remarks: 16.50       38.00       Open Hole Drillin	<b>Flush details:</b> Depth:        Type:        Return:        Colour:
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-F</b></p> <p>Sheet 2 of 4</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RC	From: 0.00	To: 16.50	Start date: 02-12-16	End date: 05-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 05-12-16	Remarks:	mE: 327723.66
RO	16.50	38.00	05-12-16	05-12-16	DD	Symmetrix Drilling rig			AM	05-12-16		mN: 366768.08
												mAOD: 106.92
												Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
				(12.70)	Grey weak MUDSTONE with occasional band of yellow brown sand						
						</					

<b>Groundwater entries:</b> Struck: 25.30    Rose to: 19.70    Casing: 16.50    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm): 200    Depth: 38.00    Casing: 16.50	<b>Depth related remarks:</b> From    to:    Remarks:	<b>Flush details:</b> Depth:    Type:    Return:    Colour:
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.	Project: Parry's Quarry Project No: 2931 Client: Alltami	Exploratory position reference: <b>2016-F</b>
Log issue: DRAFT Scale: 1:50		Sheet 3 of 4

**TerraConsult**

Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 16.50	Start date: 02-12-16	End date: 05-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 05-12-16	Remarks:	mE:	327723.66
RO	16.50	38.00	05-12-16	05-12-16	DD	Symmetrix Drilling rig			AM	05-12-16		mN:	366768.08
												mAOD:	106.92
												Grid:	OSGB

[illegible]

<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
35.50	0.00	16.50		200	38.00	16.50							

**TerraConsult**

Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 18.20	Start date: 06-12-16	End date: 07-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 07-12-16	Remarks:	mE:	327725.91
RO	18.20	27.60	07-12-16	07-12-16	DD	Symmetrix Drilling rig			AM	07-12-16		mN:	366765.48
												mAOD:	107.04
												Grid:	

[illegible]

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        27.60        18.20	<b>Depth related remarks:</b> From            to:        Remarks: 0.00       18.20       Cased Drilling	<b>Flush details:</b> Depth:                    Type:                    Return:                    Colour:
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 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-F1</b></p> <p>Sheet 1 of 3</p>
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**TerraConsult**

Borehole formation details:												Location details:	
Type: RC	From: 0.00	To: 18.20	Start date: 06-12-16	End date: 07-12-16	Crew: DD	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 07-12-16	Remarks:	mE:	327725.91
RO	18.20	27.60	07-12-16	07-12-16	DD	Symmetrix Drilling rig			AM	07-12-16		mN:	366765.48
												mAOD:	107.04
												Grid:	

[illegible]

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):       Depth:            Casing: 200             27.60             18.20	From              to:              Remarks: 18.20             27.60             Open Hole Drilling	Depth:                              Type:                              Return:                              Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-F1</b></p> <p>Sheet 2 of 3</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 10.30	Start date: 02-12-16	End date: 02-12-16	Crew: MM	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit: PW	Logger: LW	Logged: 02-12-16	Remarks:	mE: 327666.96
RC	10.30	15.25	02-12-16	02-12-16	MM	Symmetrix Drilling rig		Diamond	JM	02-12-16		mN: 366852.67
RO	15.25	31.20	02-12-16	02-12-16	MM	Symmetrix Drilling		PW	LW	02-12-16		mAOD: 94.96
												Grid: OSGB

Backfill/Instal'n	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Soils and CLAY						
				(5.30)							
			89.66	5.30	Grey SILTSTONE						
				(3.40)							
			86.26	8.70	Dark grey SILTSTONE						
				(0.50)							
			85.76	9.20	CLAY						
				(1.10)							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b> Struck: Rose to: Casing: Sealed:				<b>Diameter &amp; casing:</b> Dia (mm): 198    Depth: 31.20    Casing: 31.20			<b>Depth related remarks:</b> From 0.00 to: 31.20    Remarks: Cased Drilling			<b>Flush details:</b> Depth:    Type:    Return:    Colour:		
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue: DRAFT Scale: 1:50				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-G</b> Sheet 1 of 4			
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# Borehole Log

**TerraConsult**

## Borehole formation details:

Type:	From:	To:	Start date:	End date:	Crew:	Plant:	Barrel type:	Drill bit:	Logger:	Logged:	Remarks:	Location details:	
RO	0.00	10.30	02-12-16	02-12-16	MM	Symmetrix Drilling rig		PW	LW	02-12-16		mE:	327666.96
RC	10.30	15.25	02-12-16	02-12-16	MM	Symmetrix Drilling rig		Diamond	JM	02-12-16		mN:	366852.67
RO	15.25	31.20	02-12-16	02-12-16	MM	Symmetrix Drilling rig		PW	LW	02-12-16		mAOD:	94.96
												Grid:	OSGB

Backfill/Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/samples
			84.66	10.30	CLAY						
				(0.50)	Very weak to weak grey to dark grey and black thinly bedded MUDSTONE with sandstone partings. Highly fractured to sub-vertical jointing.			10.30 - 10.80	0 0 0		10.80 - 10.90 C1
			84.16	10.80	Very weak to weak grey to dark grey thinly to thickly bedded fine to medium grained SANDSTONE with occasional small to large mudstone/siltstone pelites and black carbonaceous partings. Bedding is 80 to 90 degrees to core axis. Clean, planar, smooth to rough. Jointing is subvertical to 30 degrees, clean, planar and smooth.			10.80 - 12.20	0 0 0	NI 165 420	
				(1.40)							
			82.76	12.20	MUDSTONE						
				(1.50)	12.72 - 12.86 m: Dark grey slightly clayey MUDSTONE.			12.20 - 13.70	0 0 0		
			81.26	13.70	Extremely weak to very weak dark grey slightly weathered MUDSTONE with siltstone bands. Bedding is 70 to 90 degrees, clayey, clean, smooth, planar. Jointing is subvertical, clean, planar and smooth.			13.70 - 14.25	0 0 0	NI 60 80	
			80.71	14.25	Very weak to weak light grey angular to subrounded pelitic CONGLOMERATE within clayey matrix.			14.25 - 15.25	0 0 0		14.60 - 14.80 C2
				(1.00)							
			79.71	15.25	MUDSTONE						15.60 - 15.70 C3
				(2.95)							
			76.76	18.20	MUDSTONE [wet]						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return: Colour:
11.20	7.60			198	31.20	31.20						
<b>AGS</b> Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.										Exploratory position reference:		
Log issue: DRAFT Scale: 1:50										<b>2016-G</b> Sheet 2 of 4		
Project: Parry's Quarry Project No: 2931 Client: Alltami												



**TerraConsult**

Borehole formation details:												Location details:	
Type:	From:	To:	Start date:	End date:	Crew:	Plant:	Barrel type:	Drill bit:	Logger:	Logged:	Remarks:	mE:	327666.96
RO	0.00	10.30	02-12-16	02-12-16	MM	Symmetrix Drilling rig		PW	LW	02-12-16		mN:	366852.67
RC	10.30	15.25	02-12-16	02-12-16	MM	Symmetrix Drilling rig		Diamond	JM	02-12-16		mAOD:	94.96
RO	15.25	31.20	02-12-16	02-12-16	MM	Symmetrix Drilling		PW	LW	02-12-16		Grid:	OSGB

Backfill/Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
				(13.00)	MUDSTONE [wet]						

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):      Depth:      Casing: 198         31.20         31.20	From            to:            Remarks:	Depth:                                  Type:                                  Return:                                  Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-G</b></p> <p>Sheet 3 of 4</p>
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**TerraConsult**[illegible]

**2016-G**

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Sheet 1 of 2

**TerraConsult**

[illegible]

Backfill Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey MUDSTONE with bands of red mudstone						
			86.78	12.00	Grey SANDSTONE						
				(4.80)							
			81.98	16.80	Borehole ends at 16.80 m (Termination reason: Target depth)						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):    Depth:    Casing:	From         to:         Remarks:	Depth:                  Type:                  Return:         Colour:
12.00      10.00 14.20      0.00	200         16.50        16.50		

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-H</b></p> <p>Sheet 2 of 2</p>
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**TerraConsult**

Backfill Insulation	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Soils and rubble						
				(3.30)							
			96.67	3.30	Grey SILTSTONE						
				(1.40)							
			95.27	4.70	Light grey angular to subrounded fine to coarse GRAVEL of SILTSTONE.						
				(8.20)							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-I</b></p> <p>Sheet 1 of 4</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 12.90	Start date: 25-11-16	End date: 25-11-16	Crew: MM	Plant: Symmetrix Drilling rig	Barrel type:	Drill bit: PW	Logger: LW	Logged: 25-11-16	Remarks:	mE: 327477.70
RC	12.90	16.36	25-11-16	25-11-16	MM	Symmetrix Drilling rig		Diamond	LM	25-11-16		mN: 366704.35
RO	16.36	30.20	25-11-16	25-11-16	MM	Symmetrix Drilling		PW	LW	25-11-16		mAOD: 99.97
												Grid: OSGB

Backfill/Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/samples
			87.07	12.90	Light grey angular to subrounded fine to coarse GRAVEL of SILTSTONE.						
					Weak light grey mottled dark grey mottled dark greyish brown thinly laminated SILTSTONE. Joints are sub-horizontal (5 to 20 degrees), closely spaced, locally very closely spaced, locally medium spaced, planar and smooth. Occasionally weathered to very weak with dark brown staining, penetrating to 3mm at fracture surface.			12.90 - 13.28	0	NI	13.30 - 13.35 C13
					14.10 - 16.36 m: 14.10 - 16.36: Joints become medium spaced.			13.28 - 14.07	0 0 0	NI 120 220	13.65 - 13.75 C12 13.85 - 13.91 C10 13.91 - 14.03 C6 14.10 - 14.20 C4 14.30 - 14.35 C5 14.50 - 14.65 C9 14.73 - 14.87 C8
					14.97 - 15.28 m: 14.97 - 15.28: Subvertical fractures (80 to 90 degrees)			14.07 - 15.50	0 0 0		15.40 - 15.45 C11 15.40 - 15.45 C7
					15.40 - 15.75 m: 15.40 - 15.75: Subvertical fractures (80 to 90 degrees) locally infilled with clay to 2mm.			15.50 - 16.36	0 0 0	NI 80 140	15.80 - 15.90 C1 15.95 - 16.05 C2 16.05 - 16.15 C3
			83.61	16.36	Dark grey MUDSTONE [driller's description]						
					(3.04)						
			80.57	19.40	Grey SILTSTONE and gravel [driller's description]						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck: 13.70	Rose to: 13.70	Casing:	Sealed:	Dia (mm): 198	Depth: 30.20	Casing: 30.20	From:	to:	Remarks:	Depth:	Type:	Return: Colour:

Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-I</b>			
Log issue: DRAFT											
Scale: 1:50											

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Sheet 3 of 4

**TerraConsult**

<b>Borehole formation details:</b>												<b>Location details:</b>	
Type:	From:	To:	Start date:	End date:	Crew:	Plant:	Barrel type:	Drill bit:	Logger:	Logged:	Remarks:	mE:	
RO	0.00	12.90	25-11-16	25-11-16	MM	Symmetrix Drilling rig		PW	LW	25-11-16		mN:	327477.70
RC	12.90	16.36	25-11-16	25-11-16	MM	Symmetrix Drilling rig		Diamond	LM	25-11-16		mAOD:	366704.35
RO	16.36	30.20	25-11-16	25-11-16	MM	Symmetrix Drilling		PW	LW	25-11-16		Grid:	OSGB

[illegible]

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 198        30.20        30.20	<b>Depth related remarks:</b> From            to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-I</b></p> <p>Sheet 4 of 4</p>
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Backfill Install	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR ROD	If	Results/remarks/ samples
					Brown CLAY						
				(1.50)							
			107.98	1.50	White GRAVEL						
				(1.00)							
			106.98	2.50	Reddish brown SANDSTONE						
				(2.20)							
			104.78	4.70	Reddish brown MUDSTONE						
				(3.80)							
			100.98	8.50	Yellowish broen SANDSTONE						
				(0.50)							
			100.48	9.00	Grey SANDSTONE/SILTSTONE						
						Water	Casing	Depth/Core Run	TCR SCR ROD	If	Results/remarks

Groundwater entries:	Diameter & casing:			Depth related remarks:			Flush details:							
	Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
					200	32.70	7.50	0.00	7.50	Cased Drilling				
								7.50	32.70	Open Hole Drilling				

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-J</b></p> <p>Sheet 1 of 4</p>
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**TerraConsult**

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<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 200        32.70        7.50	<b>Depth related remarks:</b> From            to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-J</b></p> <p>Sheet 2 of 4</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 32.70	Start date: 10-01-17	End date: 11-01-17	Crew: DD	Plant: COMACCIO Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 11-01-17	Remarks:	mE: 327473.18 mN: 366547.78 mAOD: 109.48 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Grey SANDSTONE/SILTSTONE						
			86.98	22.50	Grey MUDSTONE						
				(1.50)							
			85.48	24.00	Grey SANDSTONE/SILTSTONE						
				(4.00)							
			81.48	28.00	Moderately strong to strong extremely closely to closely fractured dark grey MUDSTONE. Fractures are (set 1) <10 degrees planar smooth and (set 2) 45 - 60 degrees planar smooth						28.00 - 31.50 C1
				(1.75)	28.00 - 28.08 m: Set 2 fracture 28.06 m: Set 1 fracture 28.09 - 28.22 m: Set 2 fracture 28.15 m: Set 1 fracture 28.27 m: Set 1 fracture 28.30 m: Set 1 fracture 28.39 m: Set 1 fracture 28.41 m: Set 1 fracture 28.41 - 28.49 m: NI 28.56 m: Set 1 fracture 28.60 m: Set 1 fracture 28.66 m: Set 1 fracture 28.70 m: Set 1 fracture 28.82 m: Set 1 fracture						
			79.73	29.75							
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks




<b>Groundwater entries:</b> Struck: Rose to: Casing: Sealed:				<b>Diameter &amp; casing:</b> Dia (mm): 200    Depth: 32.70    Casing: 7.50		<b>Depth related remarks:</b> From    to:    Remarks:			<b>Flush details:</b> Depth:    Type:    Return:    Colour:		
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue: DRAFT Scale: 1:50				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-J</b> Sheet 3 of 4			
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 32.70	Start date: 10-01-17	End date: 11-01-17	Crew: DD	Plant: COMACCIO Drilling rig	Barrel type:	Drill bit:	Logger: AM	Logged: 11-01-17	Remarks:	mE: 327473.18 mN: 366547.78 mAOD: 109.48 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
			76.78	32.70	<div>28.94 m: Set 1 fracture</div> <div>29.11 m: Set 1 fracture</div> <div>29.14 m: Set 1 fracture</div> <div>29.33 m: Set 1 fracture</div> <div>29.49 m: Set 1 fracture</div> <div>29.67 m: Set 1 fracture</div> <div>29.70 m: Set 1 fracture</div> <div>Grey SANDSTONE/SILTSTONE</div> <div>(2.95)</div>						
					Borehole ends at 32.70 m (Termination reason: Target depth)						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck: 30.20	Rose to: 25.10	Casing:	Sealed:	Dia (mm): 200	Depth: 32.70	Casing: 7.50	From	to:	Remarks:	Depth:	Type:	Return: Colour:

 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.				Project: Parry's Quarry Project No: 2931 Client: Alltami						Exploratory position reference: <b>2016-J</b>	
Log issue: DRAFT Scale: 1:50										Sheet 4 of 4	

**TerraConsult**

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Groundwater entries:	Diameter & casing:			Depth related remarks:			Flush details:							
	Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
					168	49.20	7.50	0.00	7.50	Cased Drilling				
								7.50	49.20	Open Hole Drilling				

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-K</b></p> <p>Sheet 1 of 5</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 49.20	Start date: 07-11-16	End date: 08-11-16	Crew: MM	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger:	Logged:	Remarks:	mE: 327497.54 mN: 366349.70 mAOD: 113.25 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
		.....	102.85	10.40	Light grey hard SANDSTONE [Dry].						
					Dark grey MUDSTONE with occasional coal band [Dry].						
				(2.80)							
		xxxxx	100.05	13.20	Dark grey SILTSTONE with light sandstone bands [Dry].						
				(12.10)							

<b>Groundwater entries:</b> Struck: Rose to: Casing: Sealed:				<b>Diameter &amp; casing:</b> Dia (mm): 168    Depth: 49.20    Casing: 7.50			<b>Depth related remarks:</b> From    to:    Remarks:			<b>Flush details:</b> Depth:    Type:    Return:    Colour:		
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 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters. Log issue: DRAFT Scale: 1:50				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-K</b> Sheet 2 of 5			
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**Borehole Log**
**TerraConsult**

**TerraConsult**

[illegible]

mE:	327497.54
mN:	366349.70
mAOD:	113.25
Grid:	OSGB

[illegible]

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 168        49.20        7.50	<b>Depth related remarks:</b> From        to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 168        49.20        7.50	<b>Depth related remarks:</b> From        to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

<b>Diameter &amp; casing:</b> Dia (mm): 168      Depth: 49.20      Casing: 7.50			<b>Depth related remarks:</b> From:      to:      Remarks:			<b>Flush details:</b> Depth:      Type:      Return:      Colour:			
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<b>Depth related remarks:</b> From          to:          Remarks:			<b>Flush details:</b> Depth:                      Type:                      Return:                      Colour:			

Flush details:			
Depth:	Type:	Return:	Colour:



 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-K</b></p> <p>Sheet 3 of 5</p>
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Log issue:	DRAFT	Project No: 2931	<div style="font-size: 2em; font-weight: bold; margin-bottom: 5px;">2016-K</div> <div style="font-size: 0.8em;">Sheet 3 of 5</div>
Scale:	1:50	Client: Alltami	

Scale: 1:50 Client: Alltami Sheet 3 of 5

Project: Parry's Quarry Project No: 2931 Client: Alltami	Exploratory position reference: <div style="font-size: 2em; font-weight: bold;">2016-K</div> <div style="text-align: right;">Sheet 3 of 5</div>
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Exploratory position reference:  
**2016-K**

Exploratory position reference:  
**2016-K**

Exploratory position reference:  
**2016-K**

**TerraConsult**

Borehole formation details:												Location details:	
Type: RO	From: 0.00	To: 49.20	Start date: 07-11-16	End date: 08-11-16	Crew: MM	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger:	Logged:	Remarks:	mE:	327497.54
												mN:	366349.70
												mAOD:	113.25
												Grid:	OSGB

[illegible]

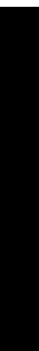







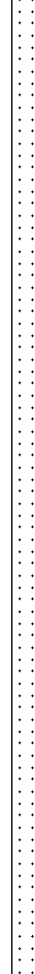
<b>Groundwater entries:</b>				<b>Diameter &amp; casing:</b>			<b>Depth related remarks:</b>			<b>Flush details:</b>			
Struck:	Rose to:	Casing:	Sealed:	Dia (mm):	Depth:	Casing:	From	to:	Remarks:	Depth:	Type:	Return:	Colour:
36.90	26.60			168	49.20	7.50							

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-K</b></p> <p>Sheet 4 of 5</p>
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**TerraConsult**

[illegible]

Backfill Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Dark grey MUDSTONE [Dry].						
			70.85	42.40	Light greyish green hard SANDSTONE [Dry].						
				(6.80)							
			64.05	49.20	Borehole ends at 49.20 m (Termination reason: Target Depth)						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b> Struck:    Rose to:    Casing:    Sealed:	<b>Diameter &amp; casing:</b> Dia (mm):    Depth:    Casing: 168        49.20        7.50	<b>Depth related remarks:</b> From            to:        Remarks:	<b>Flush details:</b>			
			Depth:	Type:	Return:	Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-K</b></p> <p>Sheet 5 of 5</p>
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**TerraConsult**

Sheet 1 of 5

**TerraConsult**

<b>Borehole formation details:</b>											<b>Location details:</b>		
Type: RO	From: 0.00	To: 49.30	Start date: 11-11-16	End date: 14-11-16	Crew: MM	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger: LW	Logged: 14-11-16	Remarks:	mE:	327496.83
												mN:	366353.15
												mAOD:	113.18
												Grid:	OSGB

Backfill	Instaln	Water-strike	Legend	Level	Depth (thick-ness)	Stratum Description	Samples & In Situ Testing					
							Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
						Light grey hard SANDSTONE [Dry].						
				102.78	10.40	Dark grey MUDSTONE with occasional coal band [Dry].						
					(2.80)							
				99.98	13.20	Dark grey SILTSTONE with light sandstone bands [Dry].						
					(12.10)							
							Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):      Depth:      Casing: 168         49.30        48.00	From            to:      Remarks:	Depth:                      Type:                      Return:                      Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-K(i)</b></p> <p>Sheet 2 of 5</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 49.30	Start date: 11-11-16	End date: 14-11-16	Crew: MM	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger: LW	Logged: 14-11-16	Remarks:	mE: 327496.83 mN: 366353.15 mAOD: 113.18 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing					
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
					Dark grey SILTSTONE with light sandstone bands [Dry].						
			87.88	25.30	Light grey fine SANDSTONE [Dry].						
				(3.80)							
			84.08	29.10	Light grey SANDSTONE with occasional bands of black mudstone [Dry].						
						Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck: 29.80	Rose to: 28.10	Casing:	Sealed:	Dia (mm): 168	Depth: 49.30	Casing: 48.00	From	to:	Remarks:	Depth:	Type:	Return: Colour:

 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-K(i)</b>			
Log issue: DRAFT Scale: 1:50											

**TerraConsult**

Borehole formation details:												Location details:	
Type: RO	From: 0.00	To: 49.30	Start date: 11-11-16	End date: 14-11-16	Crew: MM	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger: LW	Logged: 14-11-16	Remarks:	mE:	327496.83
												mN:	366353.15
												mAOD:	113.18
												Grid:	OSGB

Backfill	Insulation	Water-strike	Legend	Level	Depth (thickness)	Stratum Description	Samples & In Situ Testing					
							Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks/ samples
						Light grey SANDSTONE with occasional bands of black mudstone [Dry].						
					(3.30)							
				80.78	32.40	Dark grey MUDSTONE [Dry].						
					(1.20)							
				79.58	33.60	Light grey SANDSTONE [Dry].						
					(3.40)							
				76.18	37.00	Dark grey MUDSTONE [Dry].						
					(5.40)							
							Water	Casing	Depth/Core Run	TCR SCR RQD	If	Results/remarks

<b>Groundwater entries:</b>	<b>Diameter &amp; casing:</b>	<b>Depth related remarks:</b>	<b>Flush details:</b>
Struck:    Rose to:    Casing:    Sealed:	Dia (mm):      Depth:      Casing: 168         49.30         48.00	From            to:            Remarks:	Depth:                                  Type:                                  Return:                                  Colour:

 <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT</p> <p>Scale: 1:50</p>	<p>Project: Parry's Quarry</p> <p>Project No: 2931</p> <p>Client: Alltami</p>	<p>Exploratory position reference:</p> <p><b>2016-K(i)</b></p> <p>Sheet 4 of 5</p>
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# Borehole Log

**TerraConsult**

Borehole formation details:											Location details:	
Type: RO	From: 0.00	To: 49.30	Start date: 11-11-16	End date: 14-11-16	Crew: MM	Plant: COMACCIO MC450P rig	Barrel type:	Drill bit:	Logger: LW	Logged: 14-11-16	Remarks:	mE: 327496.83 mN: 366353.15 mAOD: 113.18 Grid: OSGB

Backfill/ Instal'n	Water- strike	Legend	Level	Depth (thick- ness)	Stratum Description	Samples & In Situ Testing				
						Water	Casing	Depth/Core Run	TCR SCR RQD	If
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Groundwater entries:				Diameter & casing:			Depth related remarks:			Flush details:		
Struck: 47.00	Rose to: 26.90	Casing:	Sealed:	Dia (mm): 168	Depth: 49.30	Casing: 48.00	From 48.00	to: 49.30	Remarks: Open Hole Drilling	Depth:	Type:	Return: Colour:

 Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.				Project: Parry's Quarry Project No: 2931 Client: Alltami				Exploratory position reference: <b>2016-K(i)</b>			
Log issue: DRAFT Scale: 1:50								Sheet 5 of 5			