

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-------------------|-------|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.28 | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (2.00) | Dark brown gravelly CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | 110.28 | 2.00 | Light brown silty CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (2.00) | | | | | | | |
| | | | 108.28 | 4.00 | Yellowish brown MUDSTONE [Dry]. (MADE GROUND) | | | | | | |
| | | | | (2.00) | | | | | | | |
| | | | 106.28 | 6.00 | Light brown silty CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (1.00) | | | | | | | |
| | | | 105.28 | 7.00 | Reddish brown MUDSTONE [Dry]. (ETURIA FORMATION) | | | | | | |
| | | | | (2.00) | | | | | | | |
| | | | 103.28 | 9.00 | Light grey SANDSTONE [Dry]. (ETURIA FORMATION) | | | | | | |

| 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: |

| | | |
|---|--|--|
| 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: <h2>2016-G1</h2> Sheet 1 of 4 |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | Location details: | | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|-------------------|--------------|-------|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.28 | Grid: |

| Backfill/Instaln | 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 [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | (22.00) | | | | | | | | | |

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|---|---|--|---|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | Diameter & casing: Dia (mm): Depth: Casing: | Depth related remarks: From to: Remarks: | Flush details: 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: <h2>2016-G1</h2> |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | Location details: | | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|-------------------|--------------|-------|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.28 | Grid: |

| Backfill/Instaln | 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 [Dry]. (ETURIA FORMATION) | | | | | | | |

| 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: |

| | | |
|---|--|---|
| <small>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</small> Log issue: DRAFT Scale: 1:50 | Project: Parry's Quarry Project No: 2931 Client: Alltami | Exploratory position reference: <h2>2016-G1</h2> |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.28 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | SP | 81.28 | 31.00 | Light grey SANDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | | | Borehole ends at 31.00 m (Termination reason: Target Depth) | | | | | | | |

| 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: |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.37 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (7.00) | Light brown soil [Dry]. (MADE GROUND) | | | | | | |
| | | | 105.37 | 7.00 | Reddish brown soil [Dry]. (MADE GROUND) | | | | | | |
| | | | | (2.50) | | | | | | | |
| | | | 102.87 | 9.50 | Wet Black MUDSTONE and brick fragments. (MADE GROUND) | | | | | | |

| Groundwater entries: | | Diameter & casing: | | Depth related remarks: | | Flush details: | |
|----------------------------------|--|--------------------------------|--|------------------------|--|------------------------------|--|
| Struck: Rose to: Casing: Sealed: | | Dia (mm): Depth: Casing: 18.00 | | From to: Remarks: | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G2(i)</p> |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.37 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|--------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (1.80) | Wet Black MUDSTONE and brick fragments. (MADE GROUND) | | | | | | | |
| | | | 101.07 | 11.30 | Wet yellowish brown CLAY. (MADE GROUND) | | | | | | | |
| | | | 100.97 | 11.40 | Wet brown silty CLAY with wood fragments. (MADE GROUND) | | | | | | | |
| | | | | (0.70) | | | | | | | | |
| | | | 100.27 | 12.10 | Wet yellowish brown silty CLAY. (ETURIA FORMATION) | | | | | | | |
| | | | | (0.90) | | | | | | | | |
| | | | 99.37 | 13.00 | Wet orangish brown MUDSTONE. (ETURIA FORMATION) | | | | | | | |
| | | | | (2.40) | | | | | | | | |
| | | | 96.97 | 15.40 | Wet light grey SANDSTONE. (ETURIA FORMATION) | | | | | | | |
| | | | 96.87 | 15.50 | Reddish brown MUDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | 96.77 | 15.60 | Light grey SANDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | | (6.80) | | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|--------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 18.00 | 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. Log issue: DRAFT Scale: 1:50 | Project: Parry's Quarry Project No: 2931 Client: Alltami | Exploratory position reference: <h2>2016-G2(i)</h2> |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.37 Grid: | |

| Backfill/Instaln | 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 [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | 89.97 | 22.40 (0.70) | Reddish brown MUDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | 89.27 | 23.10 (0.80) | Light grey SANDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | 88.47 | 23.90 | Greyish green SANDSTONE [Dry] (ETURIA FORMATION) | | | | | | | |
| | | | 88.27 | 24.10 | Reddish brown SANDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | 88.07 | 24.30 | Reddish brown SANDSTONE [Dry]. (ETURIA FORMATION) | | | | | | | |
| | | | | | Greyish green SANDSTONE [Dry] (ETURIA FORMATION) | | | | | | | |
| | | | | (6.70) | | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|--------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 18.00 | From to: Remarks: | Depth: Type: Return: Colour: |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.37 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | 81.37 | 31.00 | Greyish green SANDSTONE [Dry] (ETURIA FORMATION) | | | | | | | |
| | | | | | Borehole ends at 31.00 m (Termination reason: Target Depth) | | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
|-------|--------|----------------|-------------|----|-----------------|

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|--|--|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | Diameter & casing: Dia (mm): Depth: Casing: 18.00 | Depth related remarks: From to: Remarks: | Flush details: 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: <h2 style="text-align: center;">2016-G2(i)</h2> |
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Log issue: DRAFT
Scale: 1:50

Borehole Log

Borehole formation details:

| | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 20-10-16 | End date: 20-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|

Location details:

 mAOD: 112.34
 Grid:

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (1.60) | Orangish brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | 110.74 | 1.60 | Light brown sandy CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | (1.20) | | | | | | | | |
| | | | 109.54 | 2.80 | Yellowish brown SANDSTONE [Dry]. | | | | | | |
| | | | (2.40) | | | | | | | | |
| | | | 107.14 | 5.20 | Greenish grey hard SANDSTONE with bands of yellowish grey and dark grey sandstone [Dry]. | | | | | | |
| | | | | | | | | | | | |

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|---|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | | Diameter & casing: Dia (mm): Depth: Casing: 29.90 | | | | Depth related remarks: From to: Remarks: | | | | Flush details: 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: <h2 style="text-align: center;">2016-G3</h2> | | | |
|--|--|--|--|--|--|--|--|---|--|--|--|

 Log issue: DRAFT
 Scale: 1:50

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 20-10-16 | End date: 20-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.34 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (12.60) | Greenish grey hard SANDSTONE with bands of yellowish grey and dark grey sandstone [Dry]. | | | | | | |
| | | | 94.54 | 17.80 | Dark grey soft MUDSTONE [Dry]. | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|--|--|--|
| Groundwater entries: Struck: 19.50 Rose to: 0.00 Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: 29.90 | | | Depth related remarks: From to: Remarks: | | | Flush details: 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G3</p> |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 20-10-16 | End date: 20-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.34 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|--------------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (4.80) | Dark grey soft MUDSTONE [Dry]. | | | | | | | |
| | | | 89.74 | 22.60 | Grey hard MUDSTONE [Dry]. | | | | | | | |
| | | | | (4.40) | | | | | | | | |
| | | | 85.34 | 27.00 | Reddish brown MUDSTONE [Dry]. | | | | | | | |
| | | | | (2.50) | | | | | | | | |
| | | | 82.84 | 29.50 | Light greyish green SANDSTONE [Dry]. | | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks | |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: 29.90 | | | Depth related remarks: From to: Remarks: | | | Flush details: 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G3</p> <p style="text-align: right;">Sheet 3 of 4</p> |
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Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 20-10-16 | End date: 20-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.34 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (1.50) | Light greyish green SANDSTONE [Dry]. | | | | | | | |
| | | | 81.34 | 31.00 | Borehole ends at 31.00 m (Termination reason: Target Depth) | | | | | | | |

| | | | | | | | |
|---|--|---|--|--|--|---|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | Diameter & casing: Dia (mm): Depth: Casing: 29.90 | | Depth related remarks: From to: Remarks: | | Flush details: 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G3</p> |
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Borehole Log

Borehole formation details:

| | | | | | | | | | | | |
|----------|------------|-----------|-------------|-----------|----------|--------|--------------|------------|------------|---------|----------|
| Type: RO | From: 0.00 | To: 31.60 | Start date: | End date: | Crew: DD | Plant: | Barrel type: | Drill bit: | Logger: rb | Logged: | Remarks: |
|----------|------------|-----------|-------------|-----------|----------|--------|--------------|------------|------------|---------|----------|

Location details:

 mAOD: 113.23
 Grid:

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|-------------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (2.50) | GRAVEL and CLAY Fill | | | | | | |
| | | | 110.73 | 2.50 | Brown CLAY | | | | | | |
| | | | | (1.70) | | | | | | | |
| | | | 109.03 | 4.20 | Red brown SAND and SANDSTONE gravel | | | | | | |
| | | | | (1.80) | | | | | | | |
| | | | 107.23 | 6.00 | Dark grey CLAY backfill | | | | | | |
| | | | | (3.50) | | | | | | | |
| | | | 103.73 | 9.50 | Wood fragments (sleeper) and soils | | | | | | |
| | | | | (0.50) | | | | | | | |
| | | | 103.23 | 10.00 | | | | | | | |

Groundwater entries:

Struck: Rose to: Casing: Sealed:

Diameter & casing:

Dia (mm): Depth: Casing: 29.90

Depth related remarks:

From to: Remarks:

Flush details:

Depth: Type: Return: Colour:

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:

2016-G4

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|-------------|-----------|----------|--------|--------------|------------|------------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.60 | Start date: | End date: | Crew: DD | Plant: | Barrel type: | Drill bit: | Logger: rb | Logged: | Remarks: | mAOD: 113.23 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (8.50) | Brown sandy CLAY with some fine to coarse gravel | | | | | | | |
| | | | 94.73 | 18.50 | Light grey SANDSTONE/SILTSTONE | | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks | |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: 29.90 | | | Depth related remarks: From to: Remarks: | | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G4</p> |
|--|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|-------------|-----------|----------|--------|--------------|------------|------------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.60 | Start date: | End date: | Crew: DD | Plant: | Barrel type: | Drill bit: | Logger: rb | Logged: | Remarks: | mAOD: 113.23 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|--------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (13.10) | Light grey SANDSTONE/SILTSTONE | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|--------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 29.90 | From to: Remarks: | Depth: Type: Return: Colour: |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|-------------|-----------|----------|--------|--------------|------------|------------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.60 | Start date: | End date: | Crew: DD | Plant: | Barrel type: | Drill bit: | Logger: rb | Logged: | Remarks: | mAOD: 113.23 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | 81.63 | 31.60 | Light grey SANDSTONE/SILTSTONE | | | | | | | |
| | | | | | Borehole ends at 31.60 m (Termination reason: Target Depth) | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|--------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 29.90 | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G4</p> |
|--|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 33.00 | Start date: 27-10-16 | End date: 28-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 113.93 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (2.50) | Reddish brown MUDSTONE [Dry]. (MADE GROUND) | | | | | | |
| | | | 111.43 | 2.50 | Greyish brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (1.50) | | | | | | | |
| | | | | | 3.50 - 4.00 m: 3.50 - 4.00: Becoming yellowish brown. | | | | | | |
| | | | 109.93 | 4.00 | Orangish brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (1.60) | | | | | | | |
| | | | 108.33 | 5.60 | Red fine SANDSTONE [Dry]. | | | | | | |
| | | | | | 8.60 - 16.30 m: 8.60 - 16.30: With frequent reddish brown bands. | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 8.60 | From to: Remarks: | Depth: Type: Return: Colour: |

Borehole Log

Borehole formation details:

| | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|
| Type: RO | From: 0.00 | To: 33.00 | Start date: 27-10-16 | End date: 28-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|

Location details:

 mAOD: 113.93
 Grid:

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (10.70) | Red fine SANDSTONE [Dry]. | | | | | | |
| | | | 97.63 | 16.30 | Reddish brown MUDSTONE [Dry]. | | | | | | |
| | | | | (0.60) | | | | | | | |
| | | | 97.03 | 16.90 | Dark grey MUDSTONE with frequent grey sandstone bands [Dry] | | | | | | |
| | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: 8.60 | | | Depth related remarks: From to: Remarks: | | | Flush details: Depth: Type: Return: Colour: | | |
|---|--|--|--|--|--|--|--|--|---|--|--|

| | | |
|---|--|--|
| 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: <h2 style="text-align: center;">2016-G5</h2> Sheet 2 of 4 |
|---|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 33.00 | Start date: 27-10-16 | End date: 28-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 113.93 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (8.60) | Dark grey MUDSTONE with frequent grey sandstone bands [Dry] | | | | | | | |
| | | | 88.43 | 25.50 | Light grey MUDSTONE [Dry]. | | | | | | | |
| | | | | (6.60) | 26.10 - 32.10 m: 26.10 - 32.10: Becoming dark grey. | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 8.60 | From to: Remarks: | Depth: Type: Return: Colour: |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 33.00 | Start date: 27-10-16 | End date: 28-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 113.93 Grid: | |

| Backfill/Instaln | 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 MUDSTONE [Dry]. | | | | | | | |
| | | | 81.83 | 32.10 (0.90) | Light grey fine SANDSTONE [Dry]. | | | | | | | |
| | | | 80.93 | 33.00 | Borehole ends at 33.00 m (Termination reason: Target Depth) | | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
|-------|--------|----------------|-------------|----|-----------------|

| | | | | | | | |
|---|--|--|--|--|--|---|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | Diameter & casing: Dia (mm): Depth: Casing: 8.60 | | Depth related remarks: From to: Remarks: | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G5</p> |
|--|---|---|

Borehole Log

Borehole formation details:

| | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|
| Type: RO | From: 0.00 | To: 30.00 | Start date: 31-10-16 | End date: 01-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|

Location details:

 mAOD: 111.28
 Grid:

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (3.20) | Yellowish brown sandy soil [Dry]. (MADE GROUND) | | | | | | |
| | | | 108.08 | 3.20 | Reddish brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (5.30) | | | | | | | |
| | | | 102.78 | 8.50 | Grey CLAY [Dry]. | | | | | | |
| | | | | (1.15) | | | | | | | |
| | | | 101.63 | 9.65 | Brownish red MUDSTONE [Dry]. <i>9.60 - 9.65 m: 9.60 - 9.65: Pocket of organic material.</i> | | | | | | |

| | | | | | |
|-------|--------|----------------|-------------|----|-----------------|
| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|

| | | | |
|---|---|--|---|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | Diameter & casing: Dia (mm): Depth: Casing: 10.40 | Depth related remarks: From to: Remarks: | Flush details: Depth: Type: Return: Colour: |
|---|---|--|---|

| | | |
|---|--|--|
| 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: <h2 style="text-align: center;">2016-G6</h2> Sheet 1 of 3 |
|---|--|--|

Borehole Log

Borehole formation details:

| | | | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|--------------------------|-------|
| Type: RO | From: 0.00 | To: 30.00 | Start date: 31-10-16 | End date: 01-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | Location details: | |
| | | | | | | | | | | | | mAOD: 111.28 | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|--------|-------------------|----------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (0.75) | Brownish red MUDSTONE [Dry]. | | | | | | | |
| | | | 100.88 | 10.40 | Light grey hard SANDSTONE [Dry]. | | | | | | | |
| | | | | (7.70) | | | | | | | | |
| | | | 93.18 | 18.10 | Reddish brown MUDSTONE [Dry]. | | | | | | | |
| | | | | (1.00) | | | | | | | | |
| | | | 92.18 | 19.10 | Light grey SANDSTONE. | | | | | | | |

| | | | | | | | | | | | |
|--|--|--|--|--|--|-------|--------|----------------|-------------|----|-----------------|
| | | | | | | 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: 10.40 | 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> <h2>2016-G6</h2> <p>Sheet 2 of 3</p> |
|---|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 30.00 | Start date: 31-10-16 | End date: 01-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 111.28 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|--|--|--|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | | | | | |
| | | | | (10.90) | Light grey SANDSTONE. | | | | | | | | | | | |
| | | | 81.28 | 30.00 | Borehole ends at 30.00 m (Termination reason: Target Depth) | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|--|--|--|
| Groundwater entries: Struck: 24.00 Rose to: 0.00 Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: 10.40 | | | Depth related remarks: From to: Remarks: | | | Flush details: 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G6</p> |
|--|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-------------------|
| Type: RO | From: 0.00 | To: 27.20 | Start date: 02-11-16 | End date: 02-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (2.60) | Orangish brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | 2.60 (0.50) | Brown mottled grey CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | 3.10 (0.70) | Red brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | 3.80 3.90 | Yellow CLAY [Dry]. (MADE GROUND) Brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (3.80) | | | | | | | |
| | | | | 7.70 | Orangish brown CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | | (3.00) | | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
| | | | | | |

| | | | |
|---|---|--|---|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | Diameter & casing: Dia (mm): Depth: Casing: 11.20 | Depth related remarks: From to: Remarks: | Flush details: 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: <h1>2016-G7</h1> |
|--|--|---|

Log issue: DRAFT
Scale: 1:50

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-------------------|--|
| Type: RO | From: 0.00 | To: 27.20 | Start date: 02-11-16 | End date: 02-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | | |
|------------------|--------------|--------|---------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | | |
| | | | (14.00) | | | | | | | | | | |
| | | | | | 22.30 - 27.50 m: 22.30 - 27.20: Becoming light grey. | | | | | | | | |
| | | | 27.50 | | Borehole ends at 27.50 m (Termination reason: Target Depth) | | | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks | | |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: 11.20 | | | Depth related remarks: From to: Remarks: | | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G7</p> |
|--|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 101.12 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (5.50) | Brownish yellow CLAY [Dry]. (MADE GROUND) | | | | | | |
| | | | 95.62 | 5.50 | Orangish brown sandy soil [Dry]. (MADE GROUND) | | | | | | |
| | | | | (1.30) | | | | | | | |
| | | | 94.32 | 6.80 | Light grey MUDSTONE [Dry]. | | | | | | |
| | | | | (0.80) | | | | | | | |
| | | | 93.52 | 7.60 | Yellowish brown MUDSTONE [Dry]. | | | | | | |
| | | | | (0.60) | | | | | | | |
| | | | 92.92 | 8.20 | Soft dark brown CLAY [Dry]. | | | | | | |
| | | | | (0.30) | | | | | | | |
| | | | 92.62 | 8.50 | Yellowish brown SANDSTONE [Dry]. | | | | | | |
| | | | | (2.70) | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 6.80 | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G8</p> |
|--|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 101.12 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|----------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | | Yellowish brown SANDSTONE [Dry]. | | | | | | | |
| | | | 89.92 | 11.20 | Light grey SANDSTONE [Dry]. | | | | | | | |
| | | | | (12.03) | | | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
|-------|--------|----------------|-------------|----|-----------------|

| | | | | | | | |
|---|--|--|--|--|--|---|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | Diameter & casing: Dia (mm): Depth: Casing: 6.80 | | Depth related remarks: From to: Remarks: | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G8</p> |
|--|---|---|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 31.00 | Start date: 18-10-16 | End date: 19-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 101.12 Grid: | |

| 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 | |
| | | | 77.89 | 23.23 | 22.93 - 23.23 m: 22.93 - 23.23: Arisings wet but no water strike. | | | | | | | |
| | | | | | Borehole ends at 23.23 m (Termination reason: Target Depth) | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 6.80 | From to: Remarks: | Depth: Type: Return: Colour: |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 20.15 | Start date: 26-10-16 | End date: 26-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 101.12 Grid: | |

| 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 gravelly CLAY. Gravel is sandstone (MADE GROUND) | | | | | | | |
| | | | 91.42 | 9.70 | Greyish green MUDSTONE with occasional bands of light grey sandstone.[Dry] | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 9.70 | 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. Log issue: DRAFT Scale: 1:50 | Project: Parry's Quarry Project No: 2931 Client: Alltami | Exploratory position reference: <h2 style="text-align: center;">2016-G9</h2> Sheet 1 of 3 |
|---|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 20.15 | Start date: 26-10-16 | End date: 26-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 101.12 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (0.90) | Greyish green MUDSTONE with occasional bands of light grey sandstone.[Dry] | | | | | | |
| | | | 90.52 | 10.60 | Reddish brown MUDSTONE [Dry]. | | | | | | |
| | | | | (7.20) | | | | | | | |
| | | | 83.32 | 17.80 | Light grey SANDSTONE [Dry]. | | | | | | |
| | | | | (2.35) | | | | | | | |
| | | SP | | | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 9.70 | From to: Remarks: | Depth: Type: Return: Colour: |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 20.15 | Start date: 26-10-16 | End date: 26-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 101.12 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| ... | | ... | 80.97 | 20.15 | Light grey SANDSTONE [Dry]. Borehole ends at 20.15 m (Termination reason: Target Depth) | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
|-------|--------|----------------|-------------|----|-----------------|

| | | | | | | | |
|---|--|--|--|--|--|---|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | Diameter & casing: Dia (mm): Depth: Casing: 9.70 | | Depth related remarks: From to: Remarks: | | Flush details: Depth: Type: Return: Colour: | |
|---|--|--|--|--|--|---|--|

| | | |
|--|--|--|
|  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: <h2 style="margin: 0;">2016-G9</h2> |
|--|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|----------------------|--|
| Type: RO | From: 0.00 | To: 20.45 | Start date: 16-11-16 | End date: 16-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 99.31 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (3.30) | Brown clayey soil with rock fragments [Dry]. (MADE GROUND) | | | | | | |
| | | | 96.01 | 3.30 | Greyish green SILTSTONE [Dry]. | | | | | | |
| | | | 94.61 | 4.70 | Brown MUDSTONE with bands of greyish green and yellow siltstone [Dry]. | | | | | | |
| | | | 92.46 | 6.85 | Light greyish green hard SILTSTONE [Dry]. | | | | | | |
| | | | | (4.75) | | | | | | | |

| Groundwater entries: | | Diameter & casing: | | Depth related remarks: | | Flush details: | |
|----------------------------------|--|-------------------------------|--|------------------------|--|------------------------------|--|
| Struck: Rose to: Casing: Sealed: | | Dia (mm): Depth: Casing: 4.70 | | 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. Log issue: DRAFT Scale: 1:50 | Project: Parry's Quarry Project No: 2931 Client: Alltami | Exploratory position reference: <h2 style="text-align: center;">2016-G10</h2> |
|---|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|----------------------|--|
| Type: RO | From: 0.00 | To: 20.45 | Start date: 16-11-16 | End date: 16-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 99.31 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | XXXXXX | 87.71 | 11.60 | Light greyish green hard SILTSTONE [Dry]. | | | | | | |
| | | XXXXXX | | | Orangish brown MUDSTONE with bands of greyish green siltstone [Dry]. | | | | | | |
| | | | | (2.80) | 12.90 - 14.40 m: 12.90 - 14.40: Becoming reddish brown. | | | | | | |
| | | XXXXXX | 84.91 | 14.40 | Greyish green hard SILTSTONE [Dry]. | | | | | | |
| | | XXXXXX | | | 15.20 - 20.12 m: 15.20 - 20.12: Becoming greyish green. | | | | | | |
| | | | | (5.72) | | | | | | | |

| Groundwater entries: | | Diameter & casing: | | Depth related remarks: | | Flush details: | | | | | |
|----------------------|---------------|--------------------|-----------|------------------------|--------------|----------------|----------|--------|-------|---------|---------|
| Struck: 18.50 | Rose to: 0.00 | Casing: Sealed: | Dia (mm): | Depth: | Casing: 4.70 | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G10</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|----------------------|--|
| Type: RO | From: 0.00 | To: 20.45 | Start date: 16-11-16 | End date: 16-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 99.31 Grid: | |

| 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 | |
| | | | 79.19 | 20.12 | Greyish green hard SILTSTONE [Dry]. | | | | | | | |
| | | | | (0.33) | Dark grey MUDSTONE [Dry]. | | | | | | | |
| | | | 78.86 | 20.45 | Borehole ends at 20.45 m (Termination reason: Target Depth) | | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
|-------|--------|----------------|-------------|----|-----------------|

| | | | |
|---|--|--|---|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | Diameter & casing: Dia (mm): Depth: Casing: 4.70 | Depth related remarks: From to: Remarks: | Flush details: Depth: Type: Return: Colour: |
|---|--|--|---|

| | | |
|---|--|--|
| 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: <h2>2016-G10</h2> |
|---|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 29.00 | Start date: 14-10-16 | End date: 17-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 106.99 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|------------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | | Brown soil [Dry]. (MADE GROUND) | | | | | | | |
| | | | | (8.00) | | | | | | | | |
| | | | 98.99 | 8.00 | Reddish brown MUDSTONE [Dry]. | | | | | | | |
| | | | | (1.50) | | | | | | | | |
| | | | 97.49 | 9.50 | Yellow fine SANDSTONE [Dry]. | | | | | | | |

| 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: |

| | | |
|--|---|--|
| <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G11</p> |
|--|---|--|

Borehole Log

Borehole formation details:

| | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|
| Type: RO | From: 0.00 | To: 29.00 | Start date: 14-10-16 | End date: 17-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|

Location details:

 mAOD: 106.99
 Grid:

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|----------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (2.00) | Yellow fine SANDSTONE [Dry]. | | | | | | |
| | | | 95.49 | 11.50 | Grey hard fine SANDSTONE [Dry]. | | | | | | |
| | | | | (2.50) | | | | | | | |
| | | | 92.99 | 14.00 | Reddish brown MUDSTONE [Dry]. | | | | | | |
| | | | 92.79 | 14.20 | Light grey SANDSTONE [Dry]. | | | | | | |
| | | | | (2.80) | | | | | | | |
| | | | 89.99 | 17.00 | Yellowish brown SANDSTONE [Dry]. | | | | | | |
| | | | 89.79 | 17.20 | Dark grey SANDSTONE [Dry]. | | | | | | |

| | | | | | | | | | | | |
|--|--|--|--|--|--|-------|--------|----------------|-------------|----|-----------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|--|--|--|--|--|--|-------|--------|----------------|-------------|----|-----------------|

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

| | | |
|---|--|--|
| 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: <h2 style="text-align: center;">2016-G11</h2> |
|---|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 29.00 | Start date: 14-10-16 | End date: 17-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 106.99 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (11.70) | Dark grey SANDSTONE [Dry]. | | | | | | | |
| | SP | | 78.09 | 28.90 | Borehole ends at 28.90 m (Termination reason: Target Depth) | | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks | |

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

| | | | | | | | |
|---|--|--|--|--|--|---|--|
|  <small>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</small> | | Project: Parry's Quarry Project No: 2931 Client: Alltami | | | | Exploratory position reference: <h1 style="margin: 0;">2016-G11</h1> | |
| Log issue: DRAFT Scale: 1:50 | | Sheet 3 of 3 | | | | | |

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 28.40 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 109.78 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (4.10) | Brown silty soil [Dry]. (MADE GROUND) | | | | | | |
| | | | 105.68 | 4.10 | Yellowish grey SANDSTONE [Dry]. | | | | | | |
| | | | | (0.80) | | | | | | | |
| | | | 104.88 | 4.90 | Light brown SANDSTONE [Dry]. | | | | | | |
| | | | | (0.60) | | | | | | | |
| | | | 104.28 | 5.50 | Reddish brown MUDSTONE [Dry]. | | | | | | |
| | | | | (0.60) | | | | | | | |
| | | | 103.68 | 6.10 | Yellow SANDSTONE [Dry]. | | | | | | |
| | | | | (0.70) | | | | | | | |
| | | | 102.98 | 6.80 | Reddish brown MUDSTONE [Dry]. | | | | | | |
| | | | | (1.40) | | | | | | | |
| | | | 101.58 | 8.20 | Light grey hard SANDSTONE [Dry]. | | | | | | |
| | | | | (0.80) | | | | | | | |
| | | | 100.78 | 9.00 | Red brown MUDSTONE. | | | | | | |
| | | | | (0.50) | | | | | | | |
| | | | 100.28 | 9.50 | Light grey hard SANDSTONE [Dry]. | | | | | | |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: | | | Depth related remarks: From to: Remarks: | | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G12</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | Location details: | | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|-------------------|--------------|-------|
| Type: RO | From: 0.00 | To: 28.40 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 109.78 | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|----------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (15.50) | Light grey hard SANDSTONE [Dry]. | | | | | | | |

| 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: |

| | | |
|--|--|--|
|  <small>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</small> Log issue: DRAFT Scale: 1:50 | Project: Parry's Quarry Project No: 2931 Client: Alltami | Exploratory position reference: <h2>2016-G12</h2> |
|--|--|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 28.40 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 109.78 Grid: | |

| Backfill/Instaln | 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 hard SANDSTONE [Dry]. | | | | | | | |
| | | | 84.78 | 25.00 | Dark grey mottled black soft MUDSTONE. | | | | | | | |
| | | | | (4.00) | | | | | | | | |
| | | | 80.78 | 29.00 | Borehole ends at 29.00 m (Termination reason: Target Depth) | | | | | | | |

| 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: |

| | | |
|--|---|--|
| <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G12</p> |
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Borehole Log

Borehole formation details:

| | | | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|--------------------------|-------|
| Type: RO | From: 0.00 | To: 32.25 | Start date: 03-11-16 | End date: 03-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | Location details: | |
| | | | | | | | | | | | | mAOD: 112.60 | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (5.40) | Light brown CLAY [Dry]. (MADE GROUND) | | | | | | | |
| | | | 107.20 | 5.40 | Grey soft SANDSTONE [Dry]. | | | | | | | |

| | | | | | | | | | | | |
|--|--|--|--|--|--|-------|--------|----------------|-------------|----|-----------------|
| | | | | | | 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: 5.40 | 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: <h1>2016-G13</h1> |
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Log issue: DRAFT
Scale: 1:50

Borehole Log

Borehole formation details:

| | | | | | | | | | | | | | |
|----------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|--------------------------|-------|
| Type: RO | From: 0.00 | To: 32.25 | Start date: 03-11-16 | End date: 03-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | Location details: | |
| | | | | | | | | | | | | mAOD: 112.60 | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|----------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (12.90) | Grey soft SANDSTONE [Dry]. | | | | | | | |
| | | | 94.30 | 18.30 | Black MUDSTONE [Dry]. | | | | | | | |
| | | | | (3.20) | | | | | | | | |

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|--|--|--|--|--|--|-------|--------|----------------|-------------|----|-----------------|
| | | | | | | 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: 5.40 | 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: <h2>2016-G13</h2> |
|--|--|--|

Log issue: DRAFT
Scale: 1:50

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 32.25 | Start date: 03-11-16 | End date: 03-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.60 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|-----------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | 91.10 | 21.50 | Black MUDSTONE [Dry]. | | | | | | | |
| | | | | (10.50) | Light grey SANDSTONE [Dry]. | | | | | | | |

| Groundwater entries: | Diameter & casing: | Depth related remarks: | Flush details: |
|----------------------------------|-------------------------------|------------------------|------------------------------|
| Struck: Rose to: Casing: Sealed: | Dia (mm): Depth: Casing: 5.40 | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G13</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 32.25 | Start date: 03-11-16 | End date: 03-11-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 112.60 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | 80.60 | 32.00 | Light grey SANDSTONE [Dry]. | | | | | | | |
| | | | | | Borehole ends at 32.25 m (Termination reason: Target Depth) | | | | | | | |

| Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |
|-------|--------|----------------|-------------|----|-----------------|
|-------|--------|----------------|-------------|----|-----------------|

| | | | | | | | |
|---|--|--|--|--|--|---|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | Diameter & casing: Dia (mm): Depth: Casing: 5.40 | | Depth related remarks: From to: Remarks: | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G13</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-------------------|-------|
| Type: RO | From: 0.00 | To: 36.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 114.44 | Grid: |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|--------|-------------------|--|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (5.50) | Varying light dark soils brown soils (MADE GROUND) | | | | | | | |
| | | | 108.94 | 5.50 (0.50) | Yellowish grey SANDSTONE [Dry]. | | | | | | | |
| | | | 108.44 | 6.00 | Greyish blue hard fine SANDSTONE [Dry]. | | | | | | | |

| 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: |

| | | |
|--|---|--|
| <p>Notes: For explanation of symbols and abbreviations see Key Sheet. All depths and reduced levels are in meters.</p> <p>Log issue: DRAFT Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G14</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 36.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 114.44 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (9.70) | Greyish blue hard fine SANDSTONE [Dry]. | | | | | | |
| | | | 98.74 | 15.70 | Dark grey MUDSTONE [Dry]. | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: | | | Depth related remarks: From to: Remarks: | | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G14</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 36.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 114.44 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | |
|------------------|--------------|--------|-------|-------------------|----------------------------------|---------------------------|--------|----------------|-------------|----|-------------------------|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples |
| | | | | (10.80) | Dark grey MUDSTONE [Dry]. | | | | | | |
| | | | 87.94 | 26.50 | Light grey fine SANDSTONE [Dry]. | | | | | | |
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks |

| | | | | | | | | | | | |
|---|--|--|---|--|--|--|--|--|---|--|--|
| Groundwater entries: Struck: Rose to: Casing: Sealed: | | | Diameter & casing: Dia (mm): Depth: Casing: | | | Depth related remarks: From to: Remarks: | | | 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 Scale: 1:50</p> | <p>Project: Parry's Quarry Project No: 2931 Client: Alltami</p> | <p>Exploratory position reference: 2016-G14</p> |
|--|---|--|

Borehole Log

| Borehole formation details: | | | | | | | | | | | | Location details: | |
|-----------------------------|------------|-----------|----------------------|--------------------|-------|--------|--------------|------------|---------|---------|----------|-----------------------|--|
| Type: RO | From: 0.00 | To: 36.00 | Start date: 12-10-16 | End date: 13-10-16 | Crew: | Plant: | Barrel type: | Drill bit: | Logger: | Logged: | Remarks: | mAOD: 114.44 Grid: | |

| Backfill/Instaln | Water-strike | Legend | Level | Depth (thickness) | Stratum Description | Samples & In Situ Testing | | | | | | |
|------------------|--------------|--------|-------|-------------------|---|---------------------------|--------|----------------|-------------|----|-------------------------|--|
| | | | | | | Water | Casing | Depth/Core Run | TCR SCR RQD | If | Results/remarks/samples | |
| | | | | (9.50) | Light grey fine SANDSTONE [Dry]. | | | | | | | |
| | | | 78.44 | 36.00 | Borehole ends at 36.00 m (Termination reason: Target Depth) | | | | | | | |

| 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: |

| | | |
|---|--|--|
| 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: <h2 style="text-align: center;">2016-G14</h2> |
|---|--|--|