<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Sample &amp; Fluid Tests</th>
<th>Graphic Log</th>
<th>Classification Details</th>
<th>Moisture Condition</th>
<th>Relative Density</th>
<th>Monitoring Well Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>FILL: Sandy Clay, pale brown mottled orange, fine grained sand, with trace fine grained, angular basalt gravel, high plasticity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FILL: Gravelly Clay, pale brown and black, fine-medium grained, angular basalt and sandstone gravels, with fine-coarse grained angular sand, high plasticity</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Becoming pale brown and black mottled orange - orange brown</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Becoming brown mottled pale brown and orange - brown. Angular sandstone gravels with brick and concrete fragments throughout</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>CLAY: brown and grey - brown mottled orange brown, trace fine - coarse grained sand, trace fine - coarse grained, subrounded - subangular gravel, moderate plasticity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Becoming brown, high plasticity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLAY: grey - brown, high plasticity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLAY: pale grey mottled orange - brown, moderate plasticity</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

See GHD Standard Sheets for details of abbreviations & basis of descriptions.
**GROUNDWATER MONITORING WELL**

**BOREHOLE No. NEL-ENV-BH003**

**Client:** North East Link Authority  
**Project:** North East Link Project  
**Project No.:** 31350060910  
**Location:** Kim Cl, Bulleen  
**Start/End Date:** 27/09/2018 / 27/09/2018  
**Installation Date:** 27/09/2018

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### DRILLING PROGRESS

<table>
<thead>
<tr>
<th>DEPTH (m)</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0</td>
<td>CLAY: pale grey mottled orange - brown, moderate plasticity (continued)</td>
</tr>
</tbody>
</table>

**BOREHOLE NEL-ENV-BH003 TERMINATED AT 9.00 m**

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### Installation Details

- **Sample & Field Tests**
- **Graphical Log**
- **Monitoring Well Details**

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**See GHD Standard Sheets for details of abbreviations & basis of descriptions.**

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**GHD**  
180 Lonsdale Street  
Melbourne, Victoria 3000  
T: (03) 8687 8000  F: (03) 8687 8111  E: melmail@ghd.com.au  

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**File:** 31350060910 NEL-ENV-BH003 Page 2 of 3
<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Sample &amp; Field Tests</th>
<th>ROCK TYPE</th>
<th>MOISTURE CONDITION</th>
<th>CONSISTENCY RELATIVE DENSITY</th>
<th>CLASSIFICATION SYMBOL</th>
<th>DEPTH (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td></td>
<td>FILL; Sandy Clay, brown and orange, with trace fine - medium grained sand, trace fine - medium grained, subangular - angular basalt and sandstone gravels, high plasticity</td>
<td>wa &gt; PL</td>
<td>F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.00</td>
<td>ES</td>
<td>Sandy CLAY; brown and orange, with high plasticity, Trace aluminium scrap metal pieces throughout</td>
<td>wa &lt; PL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td></td>
<td>SANDSTONE (HW); pale brown and orange, recovered as fine - coarse grained chips and gravels. Sand is coarse grained</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**See GHD Standard Sheets for details of abbreviations & basis of descriptions.**
**Gravel filter pack**

50mm PN18 uPVC machine slotted casing (0.4 mm aperture)

**sandstone (HW); pale brown and orange, recovered as fine - coarse grained chips and gravels. Sand is coarse grained**

**BoREHOlE NeR-ENV-BH005 TERMINATED AT 11.90 m**

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See GHD Standard Sheets for details of abbreviations & basis of descriptions.
### Drilling and Casing

**Progress**
- Drilling & Casing
- Ground Water Levels

**Ground Water Levels**

#### Depth (m) | Sample & Fluid (mL) | Moisture Condition | Consistency | Relative Density | Classification Symbol
---|---|---|---|---|---
-0.30 | ES PID = 0.4 ppm | | | | |  
-0.60 | ES PID = 1.1 ppm | | | | |  
-1.00 | ES PID = 1.4 ppm | | | | |  
-1.80 | ES PID = 0.2 ppm | | | | | 

**Graphic Log**
- FILL: Gravel, pale grey - dark grey, fine - coarse grained, angular crushed rock
- ASPHALT
- FILL: Clay, brown, moderate plasticity
- FILL: Ballast and clay
- CLAY: Pale brown, minor silt, moderate plasticity
- SANDSTONE (XW): Residual soil inferred as sandstone and siltstone, pale brown, brown, grey and dark brown.
- SILTSTONE (XW): Residual soil inferred as siltstone, pale brown - grey

### Installation

**Components**
- Cement bentonite grout backfill
- 50mm PN18 uPVC blank casing

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**See GHD Standard Sheets for details of abbreviations & basis of descriptions.**

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**GHD**
- 180 Lonsdale Street
- Melbourne, Victoria 3000
- T: (03) 8687 8000  F: (03) 8687 8111  E: melmail@ghd.com.au
**BOREHOLE No. NEL-ENV-BH025**

**Client:** North East Link Authority  
**Easting:** 331024.6 m  
**Northing:** 5824382.8 m  
**Datum/Coord. System:** MGA94  
**Start/End Date:** 24/04/2018 / 26/04/2018  
**Project:** North East Link Project  
**Location:** Watsonia Station, Watsonia  
**Logging:** 26/04/2018  
**Project No:** 31350060910  
**Datum / Coord. System:** MGA94  
**Reduced Level:** -90°  
**Inclination:** 90°  
**Bearing:** N/A  
**Driller:** Star Drilling  
**Drill Rig:** Geoprobe  
**Logged By:** KA  
**Project:** North East Link Project  
**Client:** North East Link Authority  
**Northing:** 5824382.8 m  
**Easting:** 331024.6 m  
**Project No:** 31350060910  
**Logged By:** KA  

**GROUNDWATER MONITORING WELL**

**BOREHOLE NEL-ENV-BH025 TERMINATED AT 15.50 m**

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Sample &amp; Fluid Passes</th>
<th>ROCK TYPE: Colour, Grain size, Structure (texture, fabric, mineral composition, hardness, alteration, cementation, etc as applicable)</th>
<th>MOISTURE CONDITION</th>
<th>CONSISTENCY</th>
<th>RELATIVE DENSITY</th>
<th>CLASSIFICATION SYMBOL</th>
<th>INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0</td>
<td></td>
<td>SILTSTONE (XW); Residual soil inferred as siltstone, pale brown - grey (continued)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>15.0</td>
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</tr>
</tbody>
</table>

**Components**

- 50mm PN18 uPVC machine slotted casing (0.4 mm aperture)
- Gravel filter pack

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See GHD Standard Sheets for details of abbreviations & basis of descriptions.