



A great place to live, work & play

### Scarborough Borough Council Condition Survey of Inclinerometers and Piezometers – 9/4/2013



**Location**

*Filey Flat Cliffs*

Opposite landscaped plot between No.s 10 and 12 Lower Flat Cliffs, in scrub land on seaward side of road. Close to rain gauge.

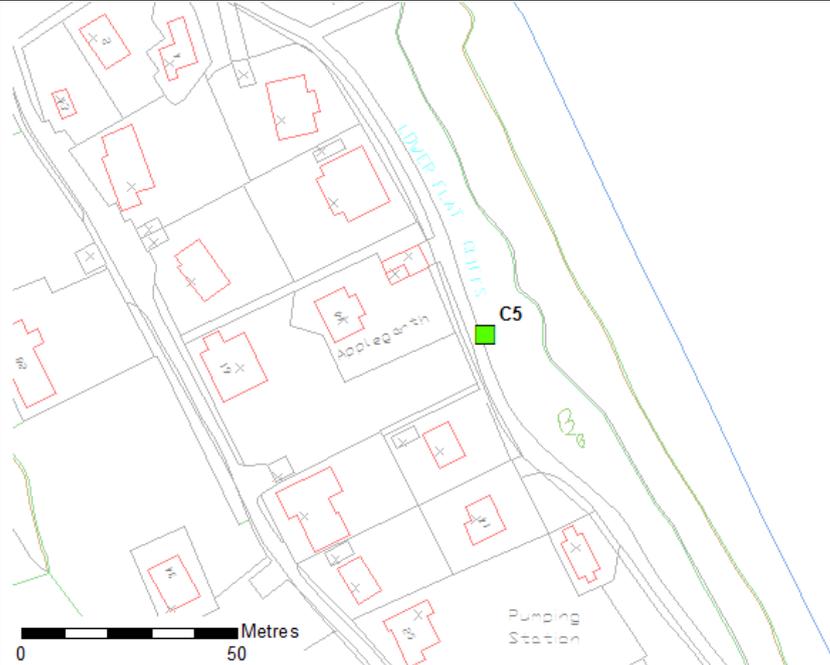
**Borehole**

C5

**Inclinometer**

**Map**

**GPS Reference:**  
TA 12411 78261



**Location Photo**

(Looking west)



<p><b>Condition Photos</b></p>			
<p><b>Condition</b></p>	<ul style="list-style-type: none"> <li>• Cover in acceptable condition and painted red, hinge is ok, but no lock.</li> <li>• No cap on internal inclinometer tube.</li> <li>• Concrete surround is ok.</li> <li>• Vegetation looks to have been cleared recently, but could potentially be overgrown in summer months.</li> </ul>		
<p><b>Known Depth</b></p>	<p>16.00m</p>	<p><b>Recorded Depth</b></p>	<p>15.75m</p>
<p><b>Comments</b></p>	<ul style="list-style-type: none"> <li>• Water recorded at 2.75m.</li> <li>• Dummy inclinometer went to 15.75m.</li> <li>• Adjacent to Borehole C4.</li> </ul>		



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Royal HaskoningDHV  
Enhancing Society Together

#### Location

Filey Flat Cliffs

Opposite landscaped plot between No.s 10 and 12 Lower Flat Cliffs, in scrub land on seaward side of road. Close to rain gauge.

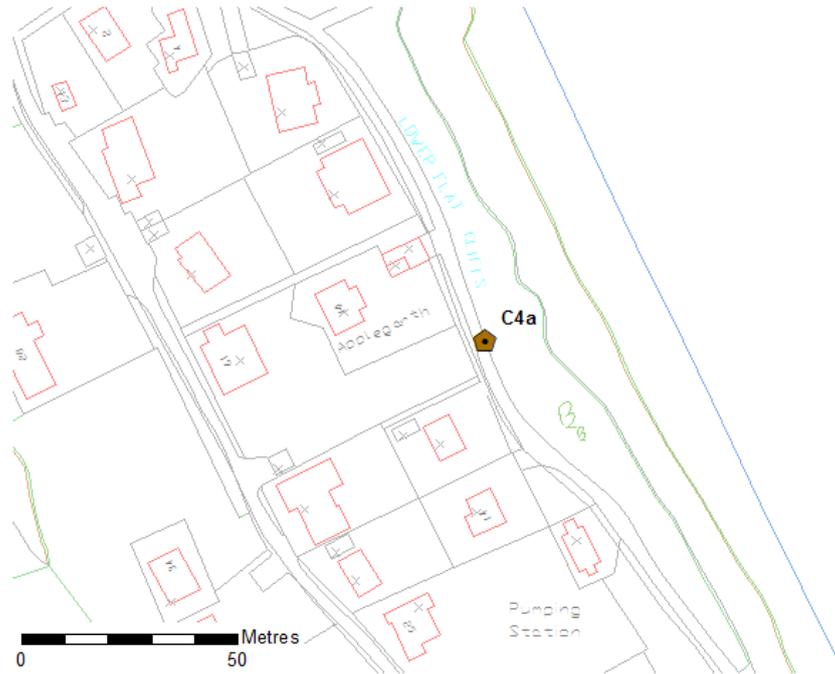
#### Borehole

C4

Piezometer (Automated)

#### Map

GPS Reference:  
TA 12411 78258



#### Location Photo

(looking west)



<b>Condition Photos</b>			Cover locked (unable to access)			
<b>Condition</b>	<ul style="list-style-type: none"> <li>• Cover in ok condition (painted red) and locked.</li> <li>• Concrete surround ok.</li> <li>• Vegetation looks like it has been recently cleared, but could potentially become overgrown in summer months.</li> </ul>					
<b>Recorded Depth to Instrument</b>	Not available		<b>Recorded Depth to Water</b>	Not available		
<b>Known Depth to Instrument</b>	15.50m	<b>Last Recorded Water Depth</b>	3.4m	<b>Record Date</b>	Dec 2012 (Halcrow)	
<b>Comments</b>	<ul style="list-style-type: none"> <li>• Adjacent to Borehole C5.</li> </ul>					



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### Scarborough Borough Council Condition Survey of Inclometers and Piezometers – 9/4/2013



<b>Location</b>	<i>Filey Flat Cliffs</i>	In grassed area outside gate to No. 3 Lower Flat Cliffs (Beach Cottage)
<b>Borehole</b>	C2	<b>Inclinometer</b>

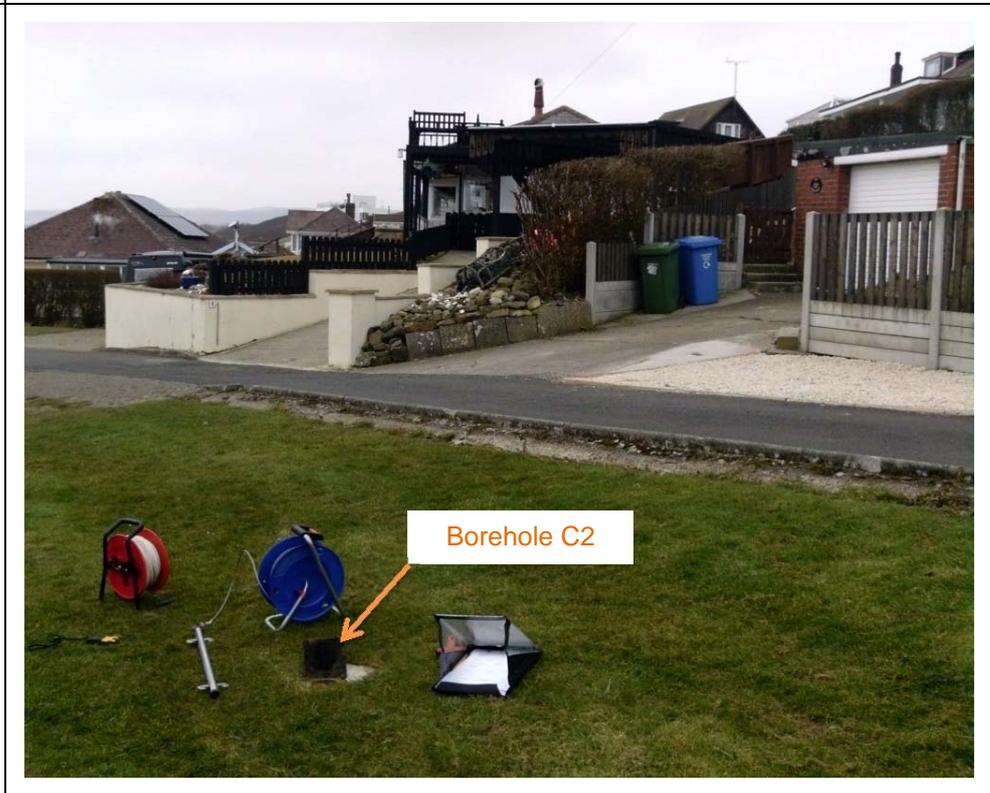
**Map**

**GPS Reference:**  
TA 12329 78363



**Location Photo**

(looking south-west)



<p><b>Condition Photos</b></p>			
<p><b>Condition</b></p>	<ul style="list-style-type: none"> <li>• Cover ok and locked with screw, hinge ok.</li> <li>• Concrete surround ok.</li> <li>• Inner and outer tube full of water to ground level.</li> <li>• No cap to inner tube present.</li> <li>• Vegetation – mown grass (well maintained).</li> </ul>		
<p><b>Known Depth</b></p>	<p>19.00m</p>	<p><b>Recorded Depth</b></p>	<p>19.89m</p>
<p><b>Comments</b></p>	<ul style="list-style-type: none"> <li>• Water present at ground level.</li> <li>• Dummy inclinometer went to 19.89m.</li> <li>• Close to Borehole B1 (in same area of mown grass).</li> </ul>		



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### Scarborough Borough Council Condition Survey of Inclinometers and Piezometers – 9/4/2013



**Location**

*Filey Flat Cliffs*

Outside gate to No. 3 Lower Flat Cliffs (Beach Cottage).

**Borehole**

B1

**Piezometer (Automated)**

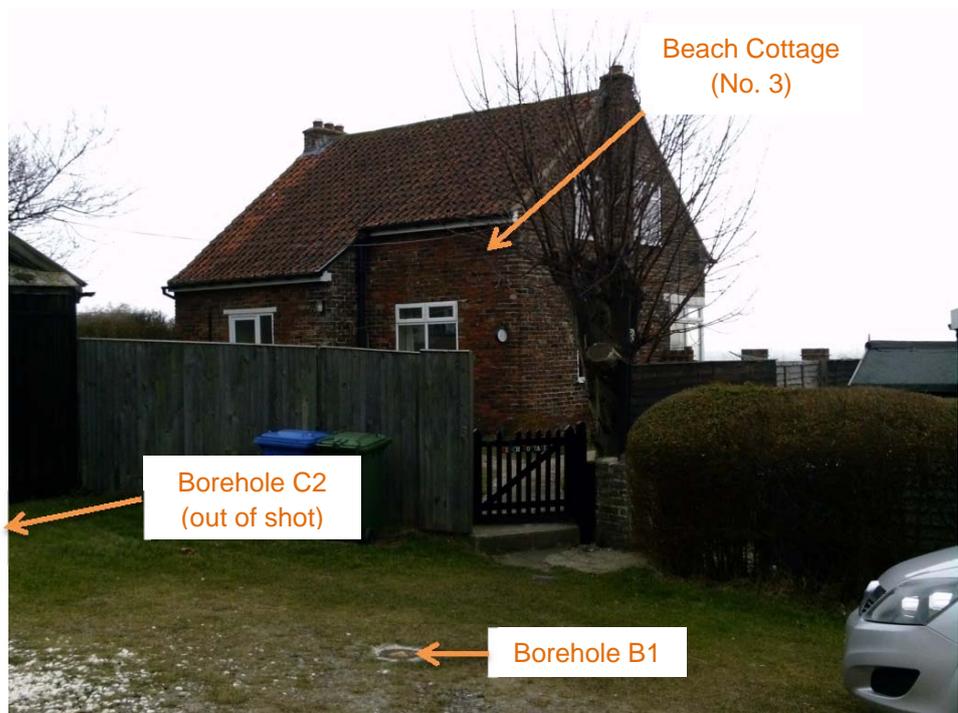
**Map**

**GPS Reference:**  
TA 12339 78357



**Location Photo**

(looking north-east)



<b>Condition Photos</b>			Cover locked (unable to access)			
<b>Condition</b>	<ul style="list-style-type: none"> <li>• Cover ok and locked.</li> <li>• Concrete surround ok.</li> <li>• Vegetation – mown grass (well maintained).</li> </ul>					
<b>Recorded Depth to Instrument</b>	Not available		<b>Recorded Depth to Water</b>	Not available		
<b>Known Depth to Instrument</b>	23.38m	<b>Last Recorded Water Depth</b>	Not available	<b>Record Date</b>	Not available	
<b>Comments</b>	<ul style="list-style-type: none"> <li>• Close to Borehole C2 (in same area of mown grass).</li> </ul>					



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### Scarborough Borough Council Condition Survey of Inclinometers and Piezometers – 9/4/2013



**Location**

*Filey Flat Cliffs*

In grassed area on landward side of road, in front of black and white garage below No. 16 Flat Cliffs. Close to fork in road where Lower Flat Cliffs starts.

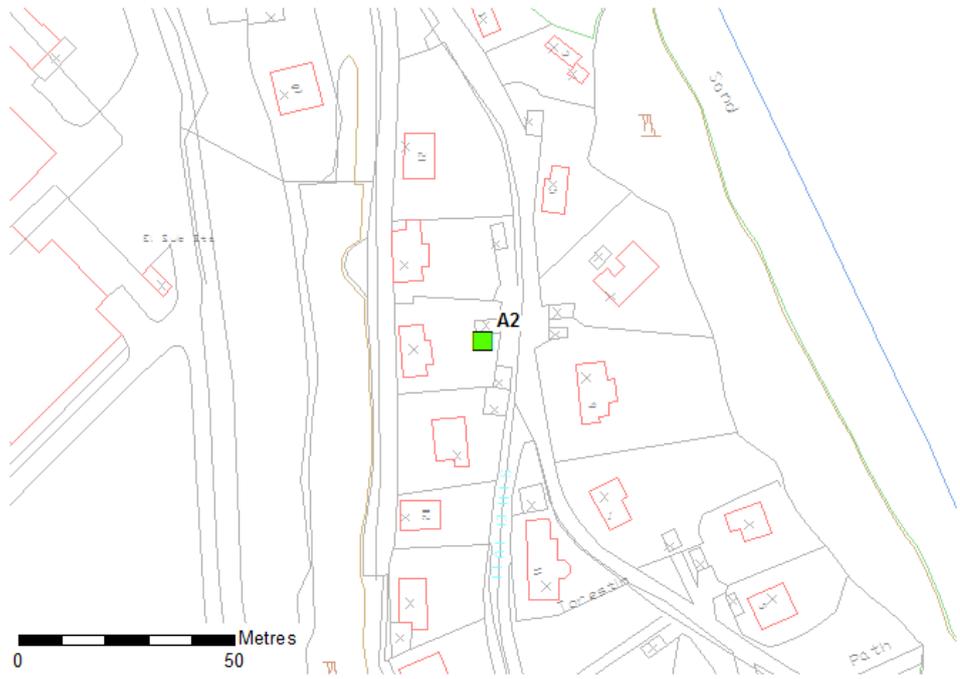
**Borehole**

A2

**Inclinometer**

**Map**

**GPS Reference:**  
TA 12290 78414



**Location Photo**  
(looking south)



<p><b>Condition Photos</b></p>			
<p><b>Condition</b></p>	<ul style="list-style-type: none"> <li>• Cover and hinge both ok, painted red. Lock has rusted.</li> <li>• No cap to internal tube present.</li> <li>• No concrete surround.</li> <li>• Vegetation ok, patchy but short. As it is at an entrance to a garage likely to be kept short.</li> </ul>		
<p><b>Known Depth</b></p>	<p>28.10m</p>	<p><b>Recorded Depth</b></p>	<p>27.15m</p>
<p><b>Comments</b></p>	<ul style="list-style-type: none"> <li>• Water recorded at 1.2m.</li> <li>• Dummy inclinometer went to 27.15m.</li> </ul>		



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### Scarborough Borough Council Condition Survey of Inclonometers and Piezometers – 9/4/2013



**Location**

*Filey Flat Cliffs*

Grass bank between the first fork in the road as you enter Flat Cliffs. Close to upper road.

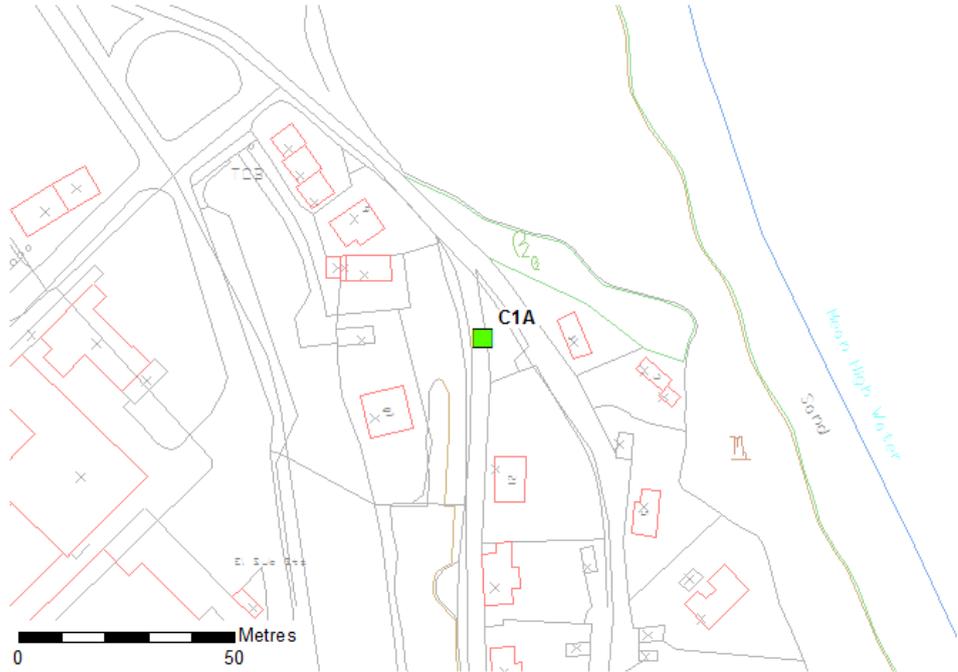
**Borehole**

C1A

**Inclinometer**

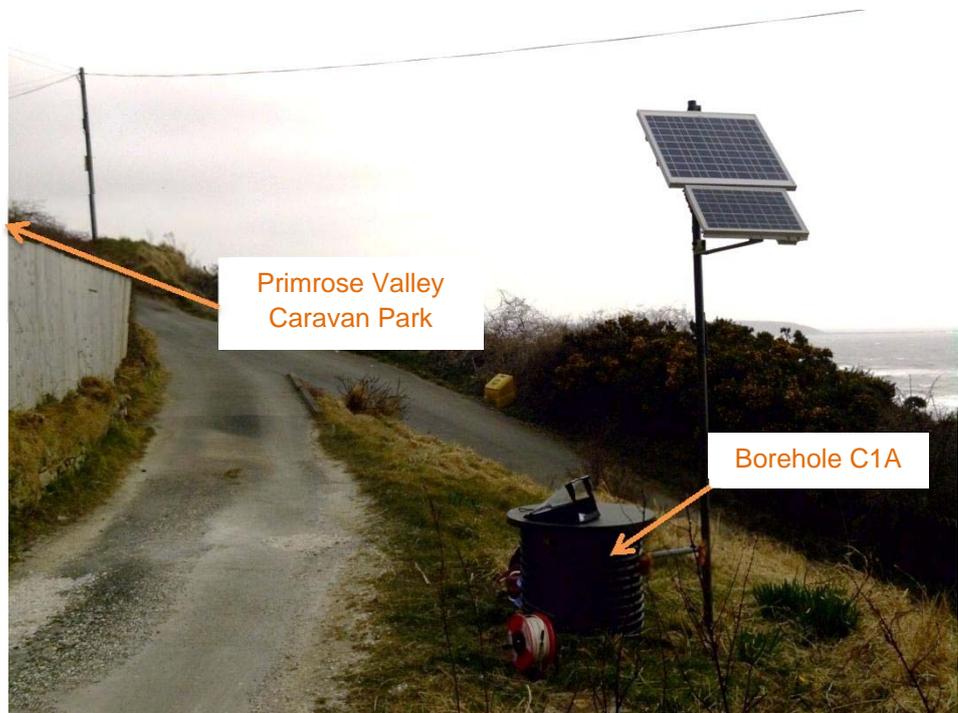
**Map**

**GPS Reference:**  
TA 12269 78490



**Location Photo**

(looking north)



<p><b>Condition Photos</b></p>			<p>Cover locked with two padlocks (unable to access).</p>
<p><b>Condition</b></p>	<ul style="list-style-type: none"> <li>• Good condition.</li> <li>• Two padlocks present, starting to rust (space for a third but lid does not close fully to allow third to be used).</li> </ul>		
<p><b>Known Depth</b></p>	<p>25.00m</p>	<p><b>Recorded Depth</b></p>	<p>Not available</p>
<p><b>Comments</b></p>	<ul style="list-style-type: none"> <li>• Loughborough University acoustic inclinometer.</li> <li>• Borehole C1 should be adjacent.</li> </ul>		



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### Scarborough Borough Council Condition Survey of Inclinerometers and Piezometers – 9/4/2013



**Location**

*Filey Flat Cliffs*

Grass bank between the first fork in the road as you enter Flat Cliffs. Close to upper road.

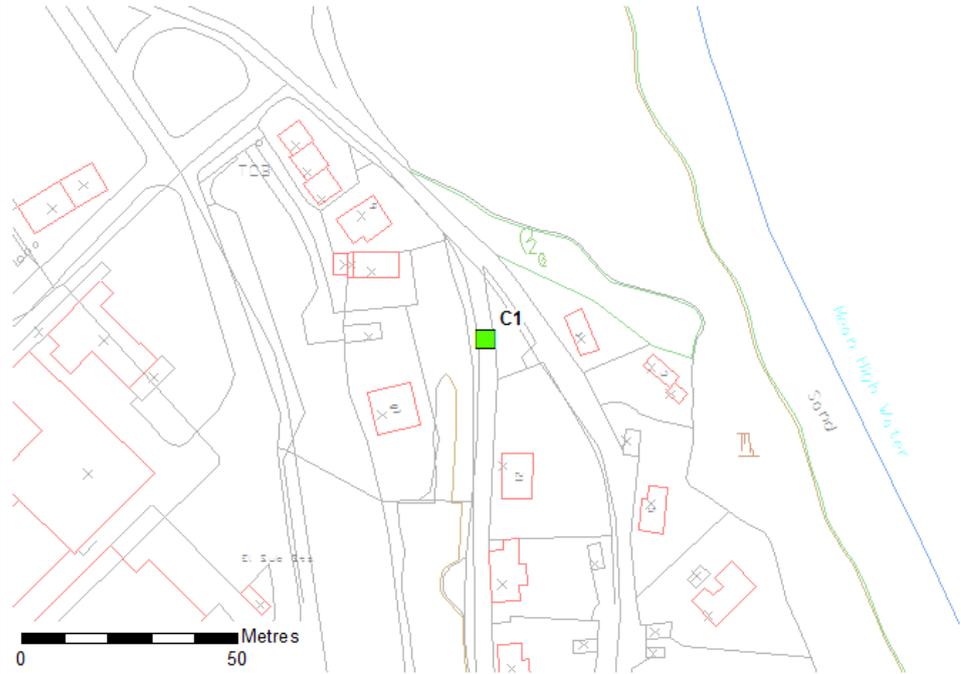
**Borehole**

C1

**Inclinerometer**

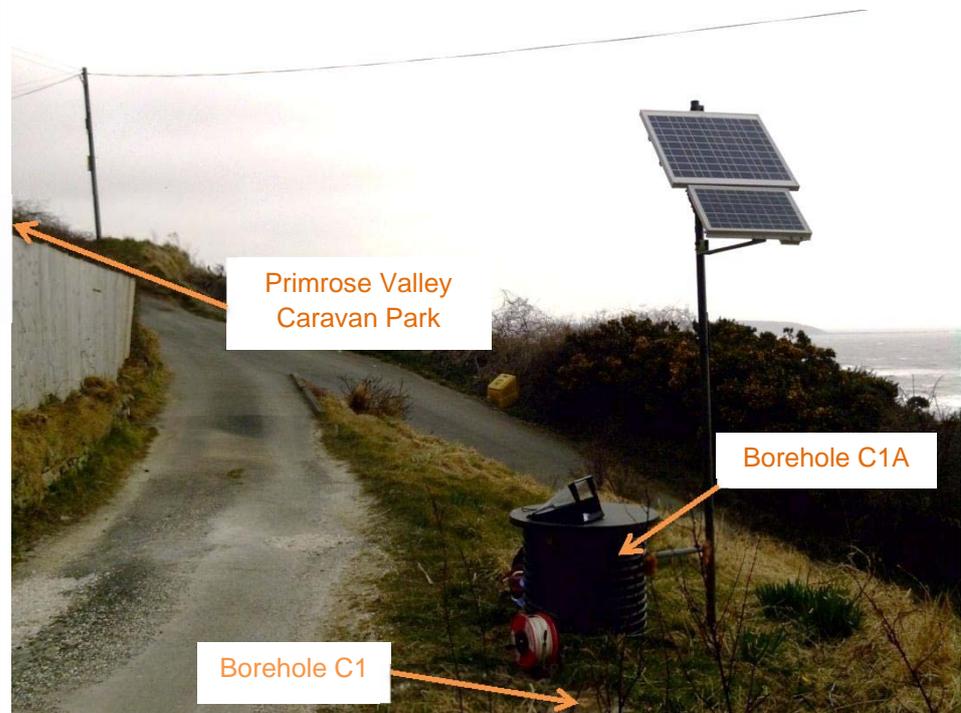
**Map**

**GPS Reference:**  
TA 12268 78489



**Location Photo**

(looking north)



<b>Condition Photos</b>			Cover locked (unable to access)
<b>Condition</b>	<ul style="list-style-type: none"> <li>• Cover ok and locked.</li> <li>• Concrete surround ok.</li> <li>• Vegetation – ok.</li> </ul>		
<b>Known Depth</b>	25.00m	<b>Recorded Depth</b>	25.13m
<b>Comments</b>	<ul style="list-style-type: none"> <li>• Adjacent to Borehole C1A - Loughborough University acoustic inclinometer.</li> <li>• Water recorded at 6.43m.</li> <li>• Borehole depth and water depth surveyed by SBC on 7/5/2013.</li> </ul>		



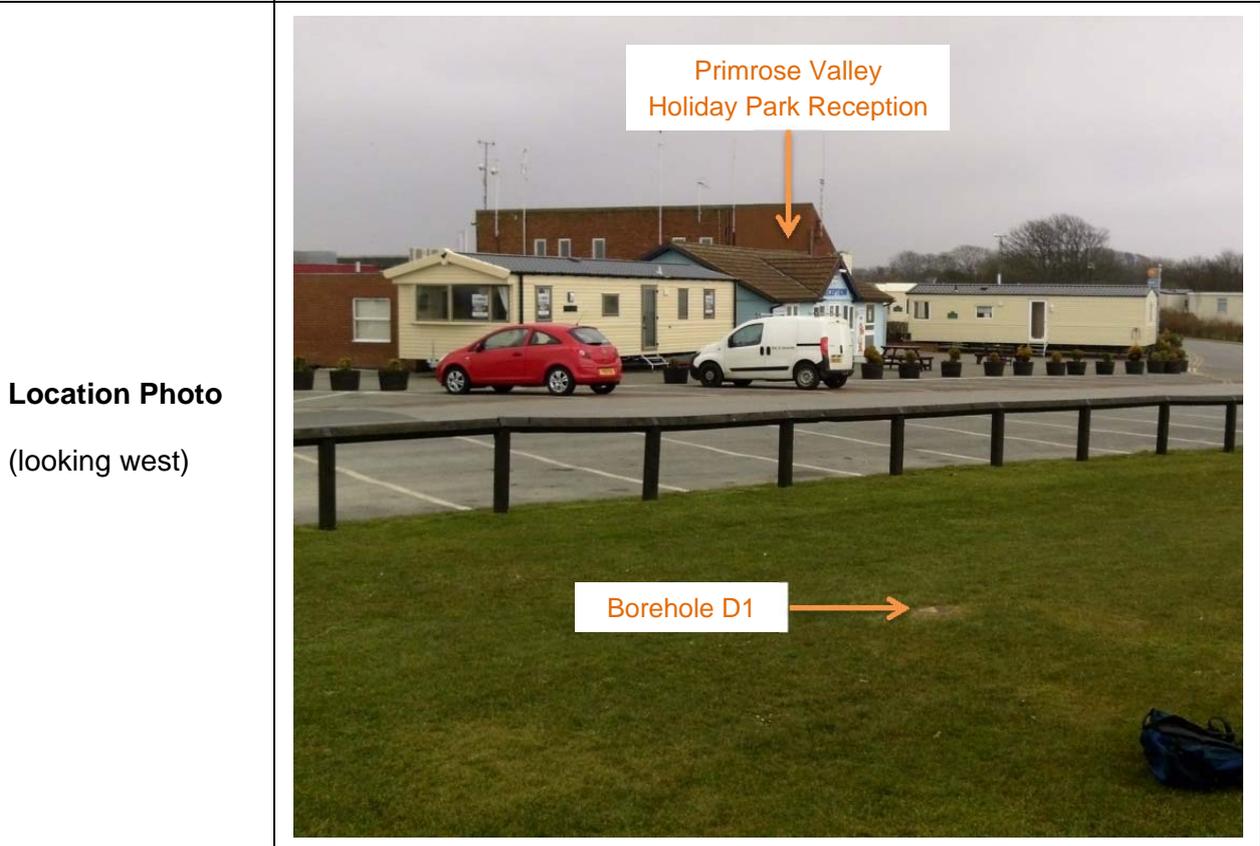
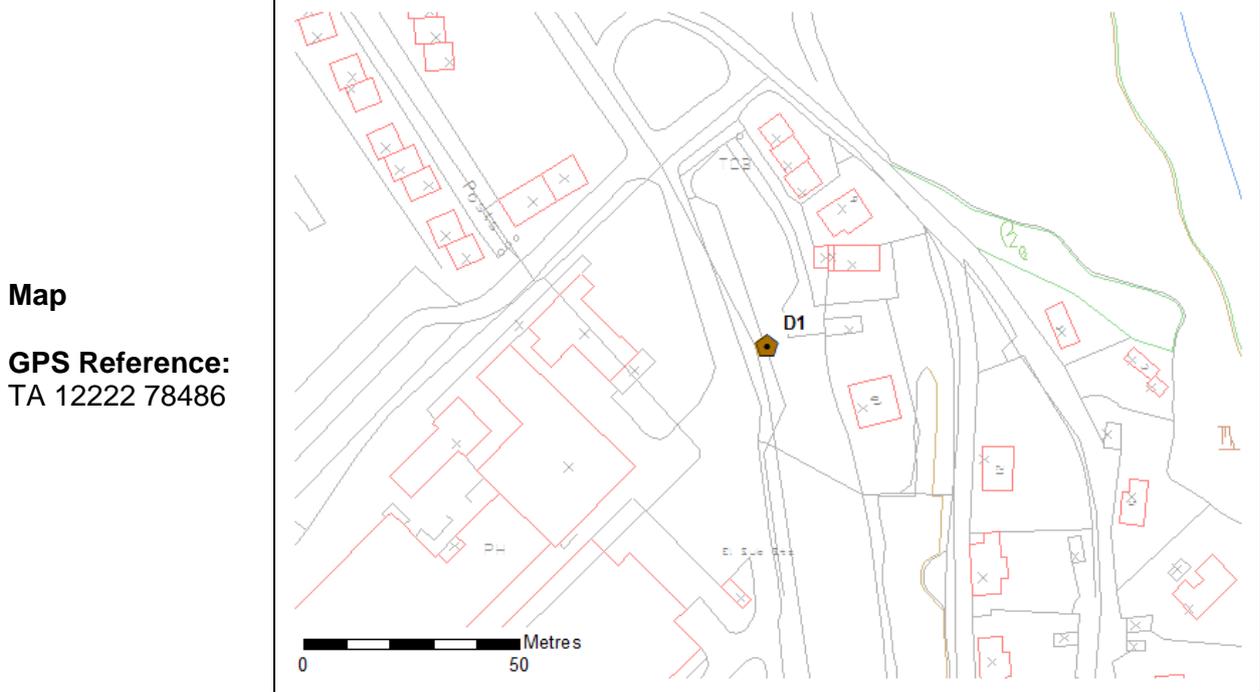
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### Scarborough Borough Council Condition Survey of Inclinometers and Piezometers – 9/4/2013



<b>Location</b>	<i>Filey Flat Cliffs</i>	Grassed area near the garage for No. 10 Flat Cliffs, at the edge of the parking area for the reception at Primrose Valley Holiday Park.
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<b>Borehole</b>	<b>D1</b>	<b>Piezometer (Automated)</b>
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<b>Condition Photos</b>			Cover locked (unable to access)			
<b>Condition</b>	<ul style="list-style-type: none"> <li>• Cover ok, locked (unable to access).</li> <li>• Vegetation ok – mown grass, well maintained.</li> </ul>					
<b>Recorded Depth to Instrument</b>	Not available		<b>Recorded Depth to Water</b>	Not available		
<b>Known Depth to Instrument</b>	20.48m	<b>Last Recorded Water Depth</b>	17.10m	<b>Record Date</b>	Dec 2012 (Halcrow)	
<b>Comments</b>						



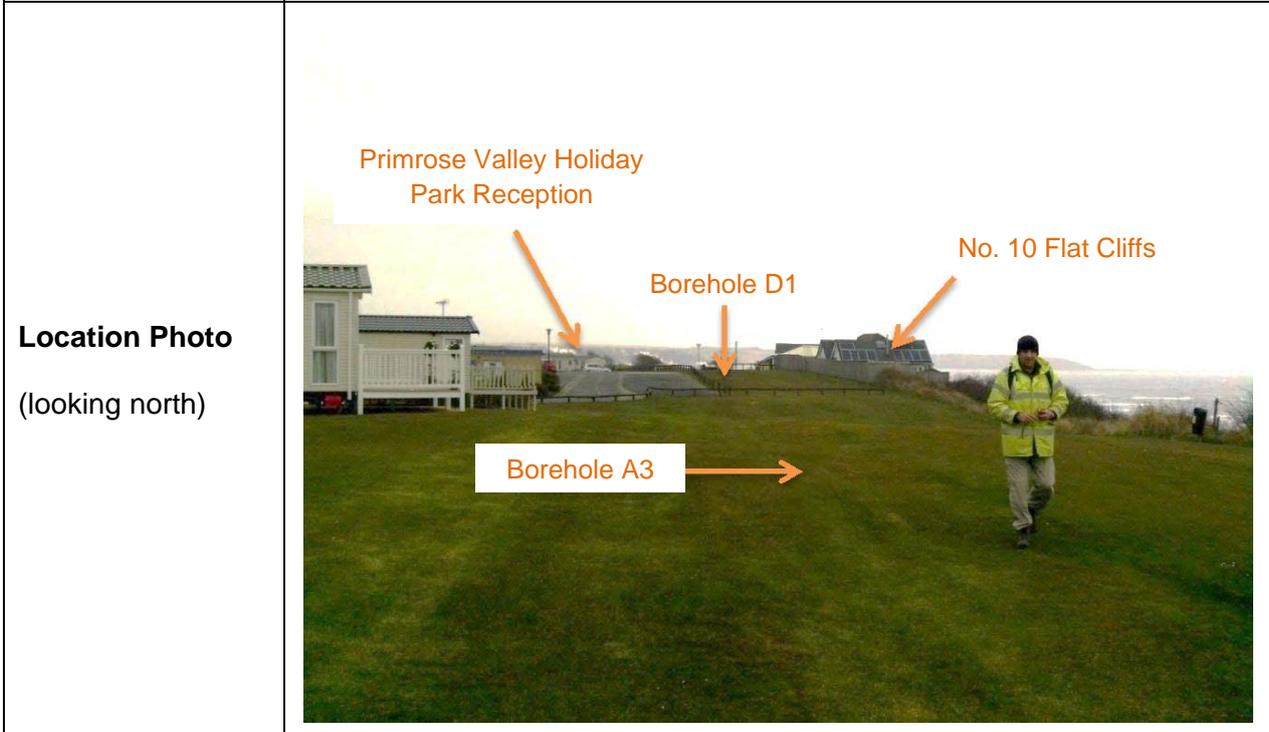
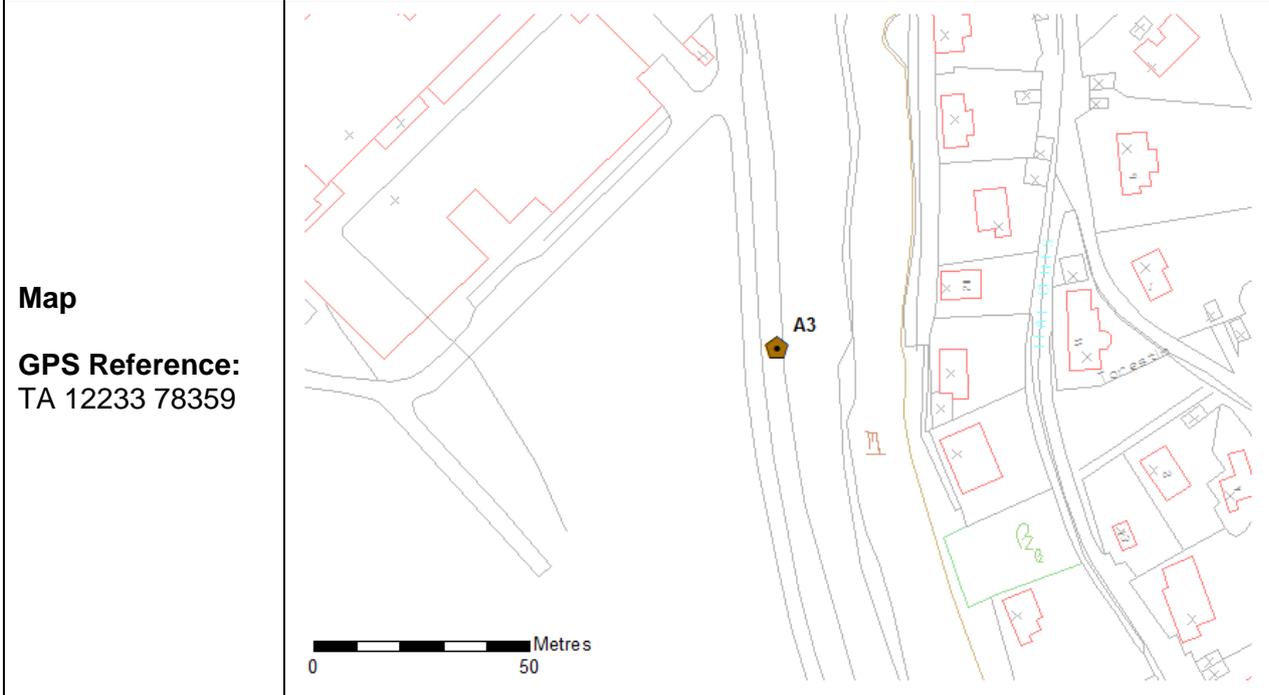
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### Scarborough Borough Council Condition Survey of Inclonometers and Piezometers – 9/4/2013



<b>Location</b>	<i>Filey Flat Cliffs</i>	In mown grass between edge of caravans and top of cliff. Close to rubbish bin. South of borehole D1.
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<b>Borehole</b>	A3	<b>Piezometer (Automated)</b>
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<b>Condition Photos</b>			Cover locked (unable to access)			
<b>Condition</b>	<ul style="list-style-type: none"> <li>• Cover ok and locked (unable to access).</li> <li>• Vegetation ok, mown grass, well maintained.</li> </ul>					
<b>Recorded Depth to Instrument</b>	Not available		<b>Recorded Depth to Water</b>	Not available		
<b>Known Depth to Instrument</b>	30.40m	<b>Last Recorded Water Depth</b>	18.80m	<b>Record Date</b>	Dec 2012 (Halcrow)	
<b>Comments</b>						



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**Scarborough Borough Council**  
**Condition Survey of Inclometers and**  
**Piezometers – 9/4/2013**



**Location**

*Filey Flat Cliffs*

In grass area between caravans and top of cliff, past where the footpath takes a step inland. Behind two caravans which stick out on the corner.

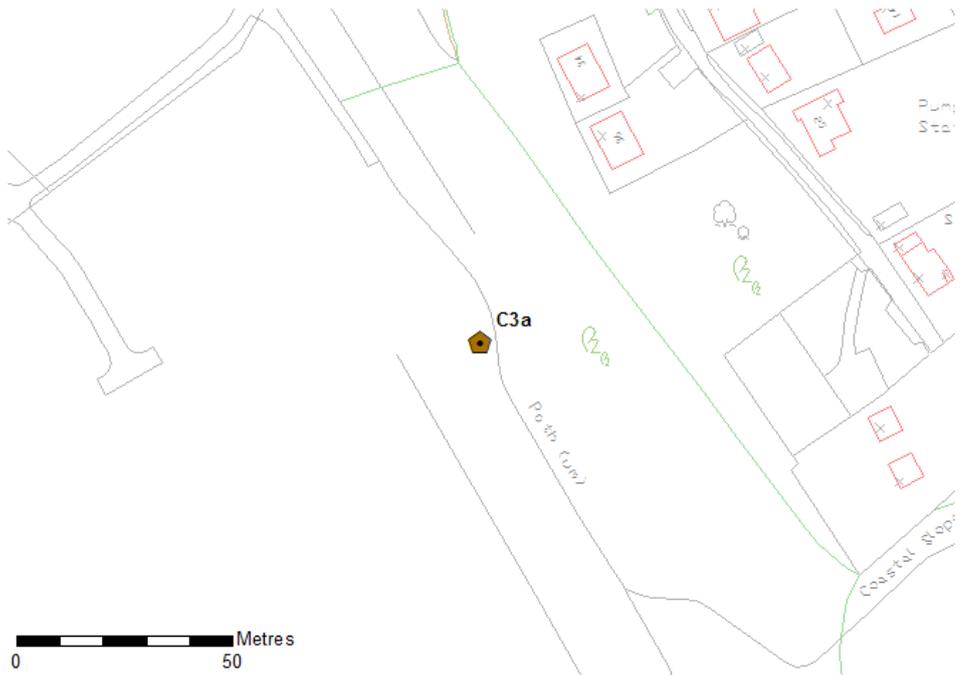
**Borehole**

C3

**Piezometer – twin (Automated)**

**Map**

**GPS Reference:**  
unknown



**Location Photo**

(looking west)



<b>Condition Photos</b>					
<b>Condition</b>	<ul style="list-style-type: none"> <li>Unable to locate borehole. Area has recently been covered by soil and borehole has probably been buried beneath.</li> </ul>				
<b>Recorded Depth to Instrument</b>	Not available		<b>Recorded Depth to Water</b>	Not available	
<b>Known Depth to Instrument</b>	a) 14.50m b) 24.50m	<b>Last Recorded Water Depth</b>	a) 6.71m b) 6.34m	<b>Record Date</b>	Dec 2012 (Halcrow)
<b>Comments</b>	<ul style="list-style-type: none"> <li>SBC surveyed with a metal detector on 7/5/2013 and have confirmed borehole is lost.</li> <li>Borehole C3 to be removed from the SBC monitoring programme.</li> </ul>				