

13 November 2007

Our ref: APS-07.142/Perc
Your ref:

FAO Barrie Burgess
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Dear Mr Burgess

07.142 Pleasure Beach – Percolation tests

At the instruction of Scott Wilson acting on behalf of Pleasure and Leisure Corporation Plc, an investigation was undertaken to provide an assessment of the percolation characteristics of the shallow-sub surface soil at Pleasure Beach, Great Yarmouth, Norfolk (drawing 07.142/Perc/1).

The fieldwork comprised seven hand-dug trial pits and percolation tests carried out on 24 and 25 October 2007 (drawing 07.142/Perc/2).

The trial pits, referenced TP15 to TP21, were excavated by hand to a depth of 1.00 m below ground level, trial pits TP01 to TP14 were undertaken as part of an environmental study that is to be reported separately. Once the required depth of 1.00 m was achieved a further test section measuring approximately 0.30 x 0.30 m by 0.25 m deep was excavated at the base of the pit. Each pit encountered a light brown fine and medium sand. The test section was filled with water, and allowed to drain away overnight.

The following day, the test section was filled with water to a depth of 250 mm. The time taken for the water to fully abate was recorded. The pit was tested in triplicate; the results are appended to this letter. After completion of the tests the trial pits were backfilled and reinstated.

Yours sincerely
A F HOWLAND ASSOCIATES

A P Straker
BSc (Hons) FGS

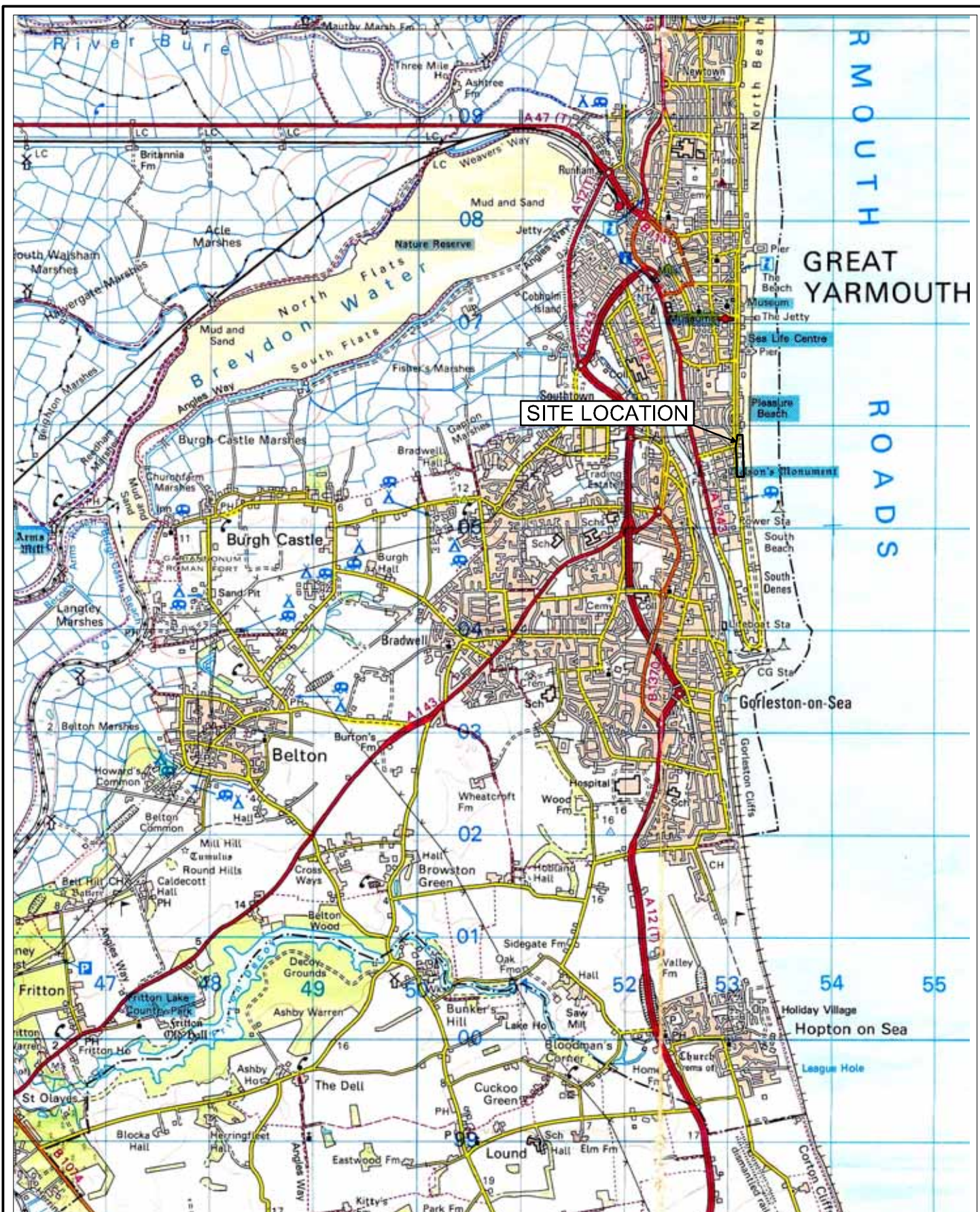
Enclosures:
Percolation test results
Site location plan
Percolation test location plan

PERCOLATION TEST RESULTS

Reference	Date	Water Level (mbgl)
TP15	24/10/2007	Filled to 1.00
	25/10/2007 08:28	Dry. Filled to 1.00
	25/10/2007 09:44	Dry. Filled to 1.00
	25/10/2007 11:10	Dry. Filled to 1.00
	25/10/2007 12:37	Dry
TP16	24/10/2007	Filled to 1.00
	25/10/2007 08:50	Dry. Filled to 1.00
	25/10/2007 09:40	Dry. Filled to 1.00
	25/10/2007 10:43	Dry. Filled to 1.00
	25/10/2007 11:16	Dry
TP17	24/10/2007	Filled to 1.00
	25/10/2007 09:00	Dry. Filled to 1.00
	25/10/2007 09:16	Dry. Filled to 1.00
	25/10/2007 09:23	Dry. Filled to 1.00
	25/10/2007 09:30	Dry
TP18	24/10/2007	Filled to 1.00
	25/10/2007 09:07	Dry. Filled to 1.00
	25/10/2007 09:19	Dry. Filled to 1.00
	25/10/2007 09:47	Dry. Filled to 1.00
	25/10/2007 10:03	Dry
TP19	24/10/2007	Filled to 1.00
	25/10/2007 09:15	Dry. Filled to 1.00
	25/10/2007 09:27	Dry. Filled to 1.00
	25/10/2007 09:30	Dry. Filled to 1.00
	25/10/2007 09:35	Dry
TP20	24/10/2007	Filled to 1.00
	25/10/2007 09:18	Dry. Filled to 1.00
	25/10/2007 09:43	Dry. Filled to 1.00
	25/10/2007 10:00	Dry. Filled to 1.00
	25/10/2007 10:18	Dry
TP21	24/10/2007	Filled to 1.00
	25/10/2007 12:12	Dry. Filled to 1.00
	25/10/2007 12:30	Dry. Filled to 1.00
	25/10/2007 12:50	Dry. Filled to 1.00
	25/10/2007 13:21	Dry

Notes:

1. All readings indicate depth to water in metres below ground level (mbgl)
2. Weather:
 - a. 24/10/2007 – dry
 - b. 25/10/2007 – dry



North



Box indicates approximate position of drawing 07.142/Perc/2



A F Howland Associates
Geotechnical Engineers

Site: Pleasure Beach, Great Yarmouth

SITE LOCATION PLAN

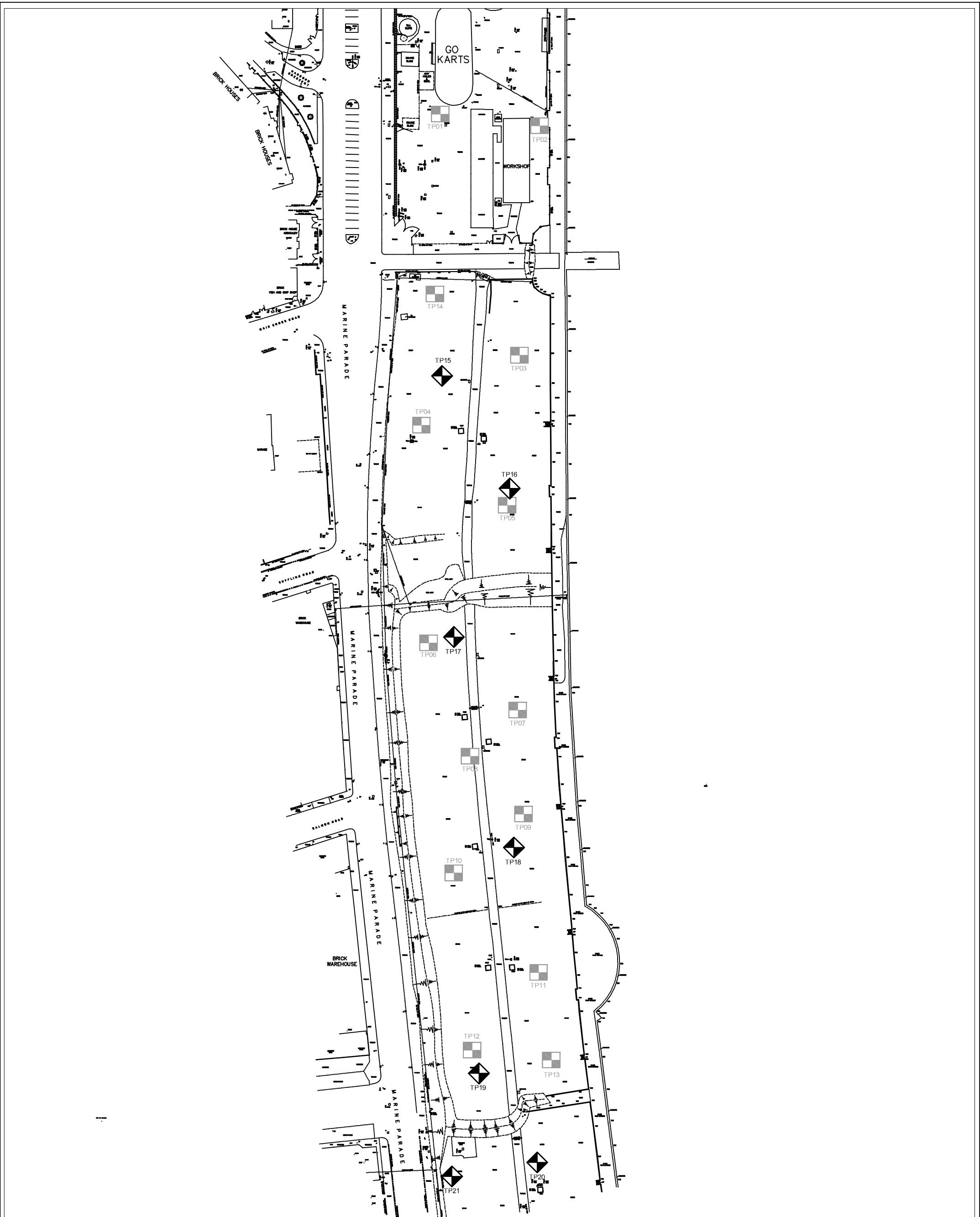
Client : Pleasure and Leisure Corporation Plc

Date : November 2007

Dwg : 07.142/Perc/1

Scale 1: 50,000

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Trial pit location and reference as part of the environmental investigation (referenced AKB-07.142)



Percolation test location and reference

Scale 1:1250

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Site: Pleasure Beach, Great Yarmouth

PERCOLATION TEST LOCATION PLAN

Client: Pleasure and Leisure Corporation Plc

Date: November 2007

Dwg: 07.142/Perc/2