T.D Construction Testing Ltd,
Gerard Hall
40 Lord Street
St Helens
Merseyside
WA10 2SD
Client: Galiford Try
Contract: FAS Waller Hill

Date: 09 November 2016
Test Report Ref: STR 488388

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Coefficient of Permeability under constant head conditions in a Triaxial Cell in accordance with **BS 1377: Part 6 : 1990 : Clause 6.**

SAMPLE DETAILS:

Certificate of sampling received:	**No**
Laboratory Ref. No:	**S60990**
Client Ref. No:	**Lab/16/1436 - WH133**
Date and Time of Sampling:	**12/10/2016**
Date of Receipt at Lab:	**17/10/2016**
Date of Start of Test:	**25/10/2016**
Sampling Location:	**All one layer on Dam South**
Name of Source:	**Soil Hill**
Method of Sampling:	**Core Cutter**
Sampled By:	**Client**
Material Description:	**Brown Mudstone**
Target Specification:	**N/A**

RESULTS:

See attached

Comments
None

Certificate Prepared by:-
Dyfed Jones
Job Coordinator

Approved by: -
Eric Goulden
Technical Manager

TEST RESULTS

Sample condition: **Undisturbed**

Method of Remoulding (If applicable): **N/A**

Specimen Details:	Initial:	Final:
Diameter:	101.2 mm	N/A
Height:	103.4 mm	N/A
Moisture Content:	13.9 %	16.0 %
Bulk density:	2.252 Mg/m^3	2.338 Mg/m^3
Dry density:	1.977 Mg/m^3	2.016 Mg/m^3

Saturation stage: **Performed in accordance with clause 5.4.3 - Saturation by increments of cell pressure and back pressure.**

Initial pore pressure coefficient,B:	0.22
Final pore pressure coefficient,B:	0.96
Duration of stage:	7 days

Consolidation stage:

Effective pressure:	100 kPa
Duration of stage:	2 days

Permeability stage:

Pressure difference across specimen:	20 kPa
Mean effective stress:	90 kPa
Duration of stage	1 day
Coefficient of Permeability (k_v) at 20°C =	**2.8×10^{-9} m/s**