

Light Weight Deflectometer (LWD) Test Report

Testing Officer: Noufal Abdul Rasheed	Report No.: 11120
	Report Date: 9/19/2017

Client Details

Client: Tekfen Construction
Project: Al Khor Expressway Project
Address: PO Box 23584
Doha, Qatar

Client Ref No.:
Contract No.: C-16-031-SS-02
Our Ref: PP-16-0086

Section Location and Details

Site Location: Al Khor Expressway
Side/Direction: Left Hand Side (LHS)
Start Station: 3460
End Station: 3660
Layer No.: 1

Pavement Surface: Subgrade
Lift Thickness (mm): 200
Design Requirement: 125 E_0 for Subgrade in MPa
Construction Type: New

Test Method and Specification

Test Method: ASTM E 2583 - 07
Testing Date/Time: 9/19/2017 3:22:09 PM
Testing Interval: 200m²

Drop Height: 1.0m
Drop Weight: 20kg
Test Equipment Ref: BD-LWD-01

Test Results

Test Date	Point No.	Location	Project Chainage	Subgrade Modulus Em (Mpa)	Surface Modulus (E0) (Mpa)	Material Type	Layer Thickness (mm)	Latitude	Longitude	Comments
9/19/2017	1	Centre	3+460	136	146	Subgrade	200	25.407830	51.489310	INR Ref.: AKE-PH1-TEKASC-INR_RD_139
9/19/2017	2	Left	3+475	196	196	Subgrade	200	25.407890	51.489140	
9/19/2017	3	Right	3+475	149	208	Subgrade	200	25.407950	51.489280	
9/19/2017	4	Centre	3+490	122	138	Subgrade	200	25.408010	51.489210	
9/19/2017	5	Left	3+500	142	142	Subgrade	200	25.408080	51.489050	
9/19/2017	6	Right	3+500	204	214	Subgrade	200	25.408140	51.489230	
9/19/2017	7	Centre	3+515	142	195	Subgrade	200	25.408280	51.489150	
9/19/2017	8	Left	3+525	139	171	Subgrade	200	25.408350	51.489080	
9/19/2017	9	Right	3+525	141	189	Subgrade	200	25.408360	51.489160	
9/19/2017	10	Centre	3+540	134	140	Subgrade	200	25.408470	51.489090	
9/19/2017	11	Left	3+550	167	176	Subgrade	200	25.408560	51.488990	
9/19/2017	12	Right	3+550	286	352	Subgrade	200	25.408590	51.489090	
9/19/2017	13	Centre	3+565	167	218	Subgrade	200	25.408710	51.489010	
9/19/2017	14	Left	3+575	119	150	Subgrade	200	25.408770	51.488910	
9/19/2017	15	Right	3+575	183	197	Subgrade	200	25.408820	51.489060	
9/19/2017	16	Centre	3+590	124	159	Subgrade	200	25.408920	51.488950	
9/19/2017	17	Left	3+600	135	141	Subgrade	200	25.408970	51.488830	
9/19/2017	18	Right	3+600	148	148	Subgrade	200	25.409000	51.488990	
9/19/2017	19	Centre	3+615	106	141	Subgrade	200	25.409120	51.488880	
9/19/2017	20	Left	3+625	141	141	Subgrade	200	25.409180	51.488770	
9/19/2017	21	Right	3+625	124	130	Subgrade	200	25.409240	51.488930	
9/19/2017	22	Centre	3+640	107	140	Subgrade	200	25.409340	51.488820	
9/19/2017	23	Left	3+650	156	236	Subgrade	200	25.409410	51.488680	
9/19/2017	24	Right	3+650	126	138	Subgrade	200	25.409460	51.488870	
9/19/2017	25	Centre	3+660	145	145	Subgrade	200	25.409520	51.488750	

Legend

The figures in green represent passed results
The figures in pink indicate failed results