



A1 Soakaway Test

Site Name	Development at Greenhill Road
Location	Middleton
GeoAssist Ref	6127VGH
Client	J Walker Homes Limited
	Joshua House 35 Joshua Lane Middleton Manchester M24 2AY
Planning Consultant	Trevena Blake & Associates
NGR (centre of site)	388610,405180
Production Date	July 2024
Survey Method	
Surveyor	Others
Status	Final v1.00
Base Survey	OSGB36

Soakaway test locations

GeoAssist Limited	Site:	Development at Greenhill Road, Mddleton	
	Job Ref:	6127 VGH	TP3
	Originator:	MB	
	Checked:	MR	
	Date:	08/07/2024	

Easting 388639.9 Northing 405184.50 Level (mAOD) 101.94

Test Pit Dimensions (m)
Inlet Pipe Invert Level (m) 0.8 Assumed

Width (m)	Length (m)	Depth (m)	Volume (m ³)	Effective Depth (m)	
0.5	1.6	2.1	1.68	1.35	

Test Results
Test Date: 08/07/2024
Principal Material Type
Brown Sand Silty Clay with Sand Bands

Date	Time (mins)	TEST 1 Depth Below Surface (m)	Date	Time (mins)	TEST 2 Depth Below Surface (m)	Date	Time (mins)	TEST 3 Depth Below Surface (m)
08.07.24 10:02	0	0.9						
08.07.24 10:03	0	0.91						
08.07.24 10:04	1	0.91						
08.07.24 10:07	4	0.91						
08.07.24 10:12	10	0.93						
08.07.24 10:32	29	0.93						
08.07.24 11:02	59	0.93						
08.07.24 13:02	180	0.94						
08.07.24 14:44	281	0.95						
09.07.24 11:02	1499	0.91						

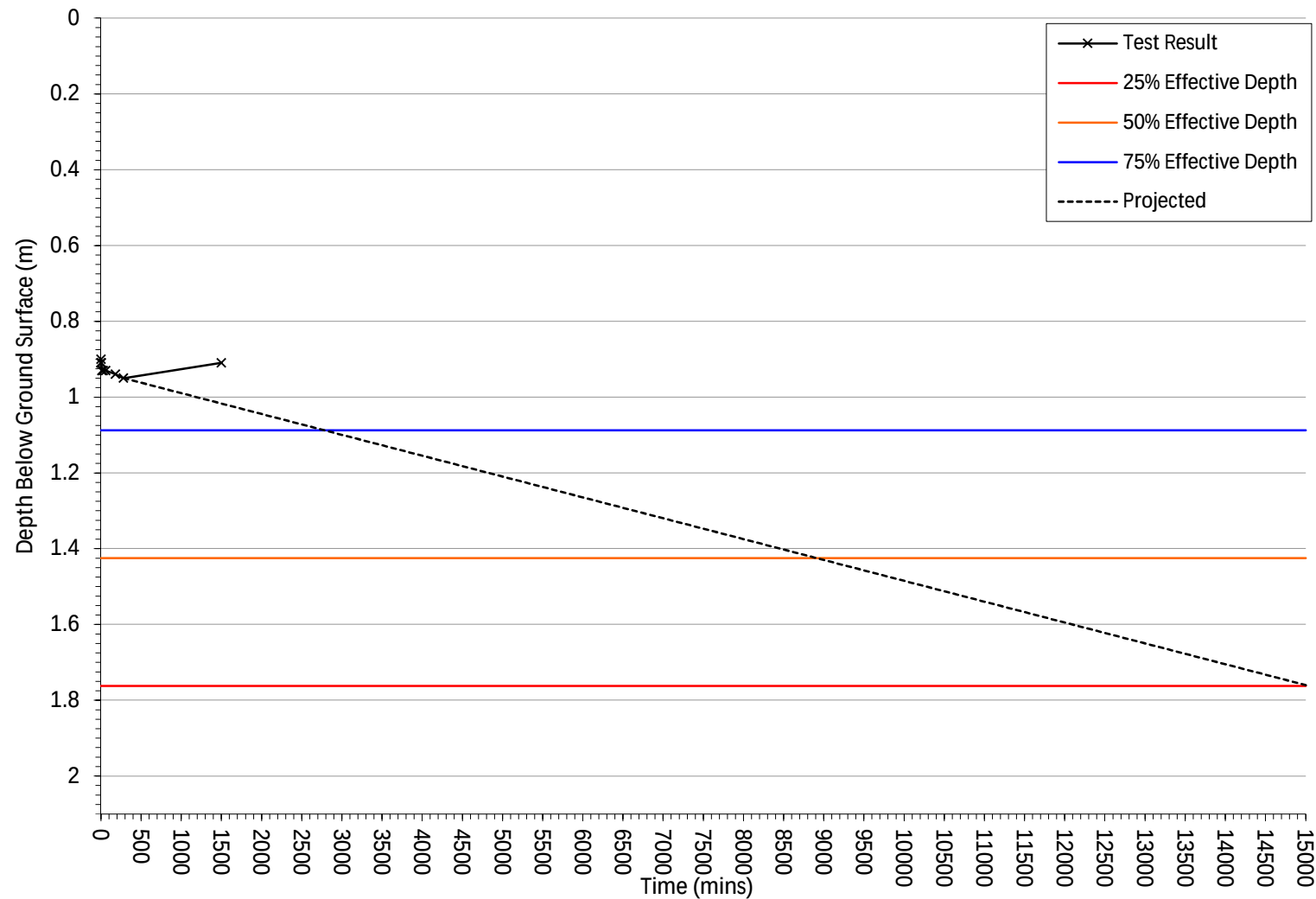
Calculations

Effective Depth (m)			$a_{S_{50}}$	2.835 m ²
75%	1.09	0.675	V_{p75-25}	0.54 m ³
25%	1.76	1.225	a_{p50}	3.635 m ²
50%	1.43		t_{p75-25}	738000 seconds (projected)

Soil Infiltration Rate *f* from Test 1 2.0E-07 m/sec

Notes: Trail pit filled with water under wet conditions - Trial pit failed to half empty within 24hrs. Therefore unsuitable for soakaway drainage

Results of Field Observations 6127 VGHM TP3 Soakaway Test 08th July 2024



GeoAssist Limited	Site:	Development at Greenhill Road, Mddleton	
	Job Ref:	6127 VGH	TP4
	Originator:	MB	
	Checked:	MR	
	Date:	08/07/2024	

Easting 388618.234 Northing 405186.46 Level (mAOD) 102.79

Test Pit Dimensions (m)
Inlet Pipe Invert Level (m) 0.8 Assumed

Width (m)	Length (m)	Depth (m)	Volume (m ³)	Effective Depth (m)	
0.5	1.5	2	1.5	1.35	

Test Results
Test Date: 08/07/2024

Principal Material Type
Brown Sand Silty Clay with Sand Bands

Date	Time (mins)	TEST 1 Depth Below Surface (m)	Date	Time (mins)	TEST 2 Depth Below Surface (m)	Date	Time (mins)	TEST 3 Depth Below Surface (m)
08.07.24 10:18	0	0.99						
08.07.24 10:19	0	1						
08.07.24 10:23	4	1.01						
08.07.24 10:28	10	1.01						
08.07.24 10:48	29	1.03						
08.07.24 11:18	59	1.05						
08.07.24 13:36	197	1.09						
08.07.24 14:36	257	1.11						
09.07.24 11:01	1482	1.21						

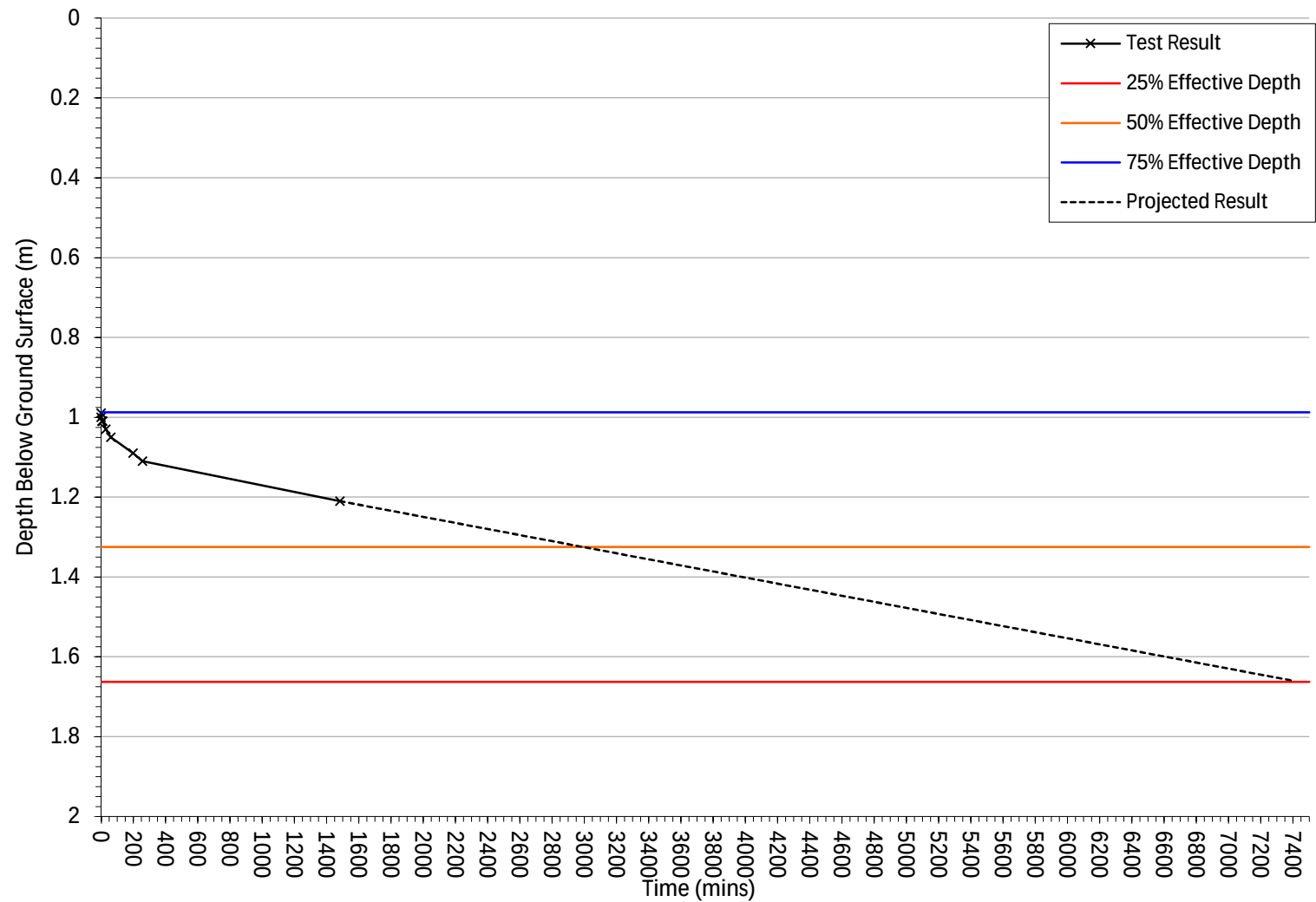
Calculations

Effective Depth (m)			$a_{S_{50}}$	2.7 m ²
75%	0.99	0.675	V_{p75-25}	0.50625 m ³
25%	1.66	1.225	a_{p50}	3.45 m ²
50%	1.33		t_{p75-25}	444000 seconds (projected)

Soil Infiltration Rate *f* from Test 1 3.3E-07 m/sec

Notes: Trial pit failed to half empty within 24hrs. Therefore unsuitable for soakaway drainage

Results of Field Observations 6127 VGHM TP4 Soakaway Test 08th July 2024



GeoAssist Limited	Site:	Development at Greenhill Road, Mddleton	
	Job Ref:	6127 VGH	TP5
	Originator:	MB	
	Checked:	MR	
Soil Infiltration Rate Test		Date:	08/07/2024

Easting 388647.509 Northing 405141.95 Level (mAOD) 103.36

Test Pit Dimensions (m)

Inlet Pipe Invert Level (m) 0.8 Assumed

Width (m)	Length (m)	Depth (m)	Volume (m ³)	Effective Depth (m)	
0.5	1.5	2	1.5	1.35	

Test Results

Test Date: 08/07/2024

Principal Material Type

Brown Sand Silty Clay with Sand Bands

Date	Time (mins)	TEST 1 Depth Below Surface (m)	Date	Time (mins)	TEST 2 Depth Below Surface (m)	Date	Time (mins)	TEST 3 Depth Below Surface (m)
08.07.24 11:29	0	0.88						
08.07.24 11:30	0	0.88						
08.07.24 11:39	10	0.89						
08.07.24 11:59	29	0.89						
08.07.24 12:38	68	0.89						
08.07.24 13:39	129	0.89						
08.07.24 14:39	190	0.89						
09.07.24 09:34	1324	0.68						
09.07.24 11:00	1410	0.51						

Calculations

Effective Depth (m)			$a_{S_{50}}$	2.7 m ²
75%	0.99	0.675	V_{p75-25}	0.50625 m ³
25%	1.66	1.225	a_{p50}	3.45 m ²
50%	1.33		t_{p75-25}	780000 seconds (projected)

Soil Infiltration Rate f from Test 1 1.9E-07 m/sec

Notes:

Trail pit wall failed overnight

Trial pit failed to half empty within 24hrs, Therefore unsuitable for soakaway drainage

Results of Field Observations 6127 VGHM TP5 Soakaway Test 08th July 2024

