

Ilona Mazurek

Lidl Great Britain Ltd
Regional Distribution Centre
Eastgate Way
Manor Park
Runcorn
WA7 1NT

Dear Ilona,

RE: Results of Soakaway Tests at Former Wrexham Police Station (LL12 7BW).

Remada was appointed by Lidl Great Britain Ltd to undertake a day of soakaway tests at the former Wrexham Police Station, Bodhyfryd, LL12 7BW.

Site Works

The soakaway test pit excavation, the soakaway testing and reinstatement works were undertaken on Monday 11th May 2020.

Prior to locating and excavating the seven soakaway test locations, service plans provided by the client were reviewed and each location was positioned to avoid any potential buried services. In addition, each location was scanned by Remada using a Cable Avoidance Tool (CAT).

The brief specified that the soakaway test pits be located within the footprint of the proposed Lidl car park area. The locations of the soakaway test pits are shown on the attached figure.

In total, seven soakaway test locations (SA1 to SA7) were excavated using an 8-tonne wheeled excavator. The pits were excavated to depths of between 1.60m and 2.2m bgl in order to penetrate the natural strata underlying the site.

All test locations were dry. The sides of each pit were relatively stable during the testing; which was undertaken without any significant loss of integrity in the excavation sides. Each pit was rapidly filled using a 8,000-litre water tanker. The water levels were recorded at appropriate time intervals using a dip meter.

Soakaway Tests and Results

The results of the soakaway testing undertaken in accordance with BRE Digest 365 are appended and summarised in the table below.

Location	Pit Depth (m bgl)	Pit Depth (m AOD)	Test Strata	Soil Infiltration Rate (m/s)
SA1 - Test 1	2.05	83.15	Brown slightly silty gravelly medium SAND with low cobble content.	9.92E-05
SA2 - Test 1	1.70	83.49	Brown slightly silty gravelly medium SAND with low cobble content.	7.48E-05
SA3 - Test 1	2.20	82.94	Brown slightly silty gravelly medium SAND with low cobble content.	7.30E-05
SA4 - Test 1	1.67	83.49	Brown slightly silty gravelly medium SAND with low cobble content, becoming slightly gravelly SAND.	8.27E-05
SA5 - Test 1	1.70	83.53	Brown slightly silty gravelly medium SAND with low cobble content.	1.89E-05
SA6 - Test 1	1.60	82.06	Brown slightly silty gravelly medium SAND with low cobble content.	2.09E-04
SA7 - Test 1	1.69	82.00	Brown slightly silty gravelly medium SAND with low cobble content.	1.65E-05

Specialist in Land Condition
(SiLC)

National Quality Mark
Scheme

Due Diligence & Audit

Desk Study

Intrusive Ground
Investigation

Human Health Risk
Assessment

Water Resource Risk
Assessment

Mining Risk Assessment

Preliminary Foundation
Design Recommendations

Remediation Strategies &
Method Statements

Pre-acquisition Advice

Abnormal Cost Assessment

Materials Management Plans
& Declarations

UST Decommissioning

Soil Bio-remediation

Soil Stabilisation

In-situ Groundwater
Remediation

EA Remediation Permit

Verification & Completion
Reports

WAMITAB

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Remada Ltd

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Henley in Arden
B95 5AA

Registered in England
& Wales 08302458

12th May 2020

Yours sincerely,



Peter Dickinson
Senior Consultant
Remada Ltd
07885 300 691
peter.dickinson@remada.co.uk

Enclosures:

- Figure 1 - Exploratory Hole Location Plan
- Trial Pit Logs
- Calculation Sheets

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FIGURE 1

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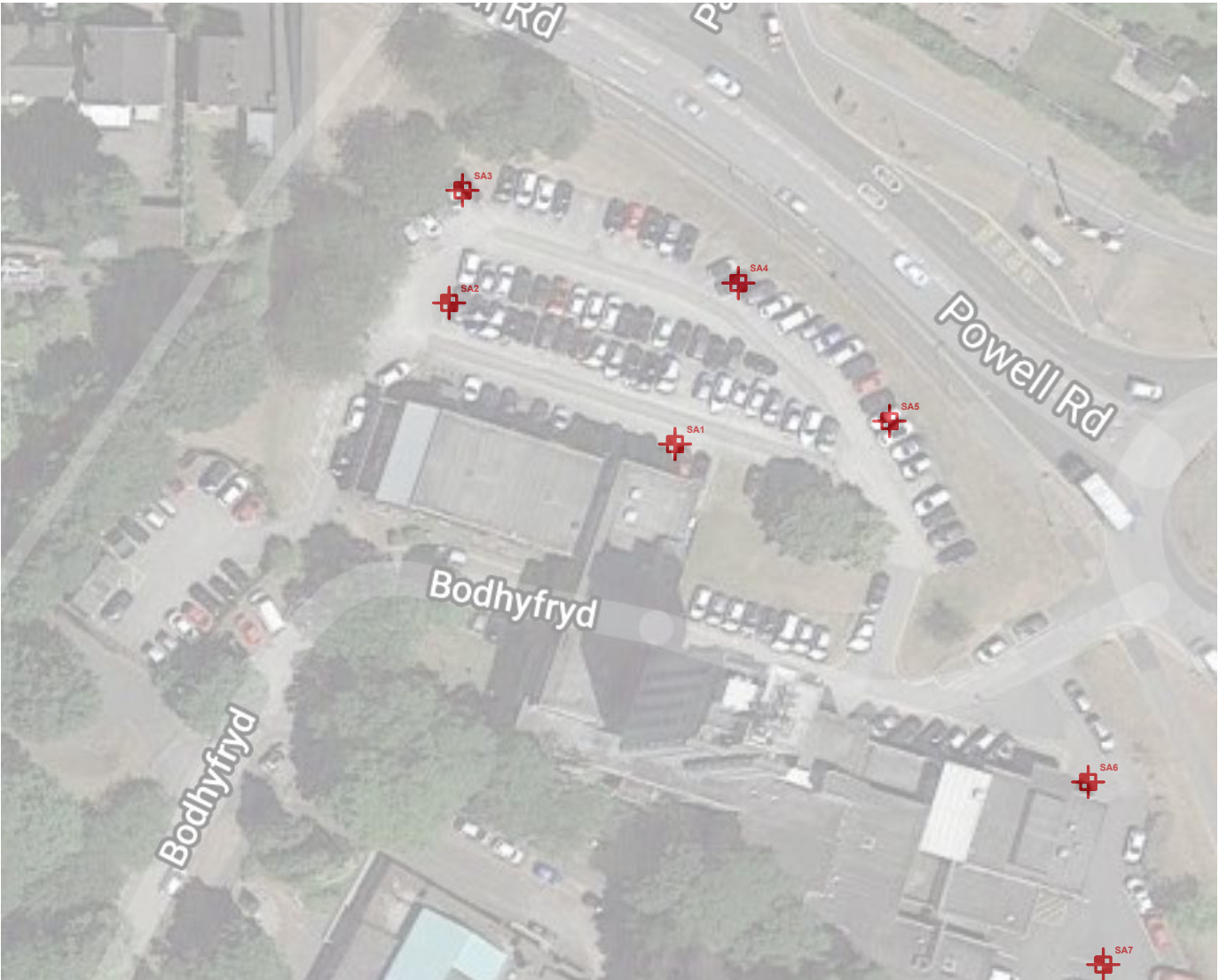
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Legend

Key

 Soakaway Location

Notes

Project Title		
Wrexham Police Headquarters		
Drawing Title		
Soakaway Locations		
Client		
Lidl Great Britain Ltd		
Drawn	Approved	Job No.
GJ	PD	525.04
Scale	Size	Date
NTS	A3	11.05.20

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TRIAL PIT LOGS

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TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA1
Job No 525.04	Date 11-05-20	Ground Level (m) 85.20	Co-Ordinates () E 333,749.0 N 350,709.0	
Contractor				Sheet 1 of 1

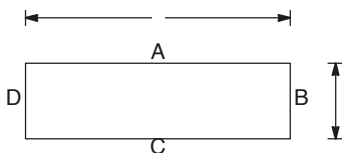


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Asphalt.			
0.15-0.45		MADE GROUND: Light brownish grey sandy angular to subangular fine to coarse gravel predominantly of limestone.			
0.45-2.05		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			

Shoring/Support: No shoring required.
Stability: Sides stable.



GENERAL REMARKS

NVO - No Visual or Olfactory Evidence of Contamination.

Backfilled with arisings upon completion of soakaway testing.

All dimensions in metres Scale 1:37.5	Client Lidl Great Britain Ltd	Method/ Plant Used JCB 3CX	Logged By PD
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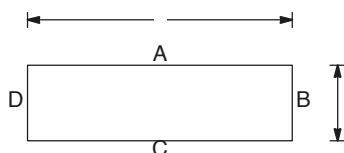
TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA2
Job No 525.04	Date 11-05-20	Ground Level (m) 85.19	Co-Ordinates () E 333,719.0 N 350,729.0	
Contractor				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Asphalt.			
0.10-0.65		MADE GROUND: Grey sandy angular to subangular fine to coarse gravel with low cobble content. Gravel is predominantly of limestone, with rare brick and concrete fragments. Cobbles are angular of concrete.			
0.65-1.10		MADE GROUND: Orangish brown gravelly fine to medium sand with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies. Cobbles are angular to rounded of mixed lithogies including concrete.			
1.10-1.70		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			

Shoring/Support: No shoring required.
Stability: Sides stable.



GENERAL REMARKS

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All dimensions in metres Scale 1:37.5	Client Lidl Great Britain Ltd	Method/ Plant Used JCB 3CX	Logged By PD
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TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA3
Job No 525.04	Date 11-05-20	Ground Level (m) 85.14	Co-Ordinates () E 333,723.0 N 350,740.0	
Contractor				Sheet 1 of 1

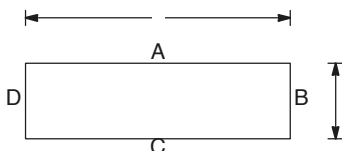


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.12		MADE GROUND: Asphalt.			
0.12-0.50		MADE GROUND: Light brownish grey sandy angular to subangular fine to coarse gravel predominantly of limestone.			
0.50-2.20		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			

Shoring/Support: No shoring required.
Stability: Sides stable.



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All dimensions in metres Scale 1:37.5	Client Lidl Great Britain Ltd	Method/ Plant Used JCB 3CX	Logged By PD
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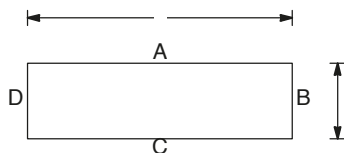
TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA4
Job No 525.04	Date 11-05-20	Ground Level (m) 85.16	Co-Ordinates () E 333,756.0 N 350,731.0	
Contractor				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.12		MADE GROUND: Asphalt.			
0.12-0.75		MADE GROUND: Light brownish grey sandy angular to subangular fine to coarse gravel predominantly of limestone.			
0.75-1.40		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			
1.40-1.67		Brown slightly gravelly medium SAND. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite.			

Shoring/Support: No shoring required.
Stability: Sides stable.



GENERAL REMARKS

NVO - No Visual or Olfactory Evidence of Contamination.

Backfilled with arisings upon completion of soakaway testing.

All dimensions in metres Scale 1:37.5	Client Lidl Great Britain Ltd	Method/ Plant Used JCB 3CX	Logged By PD
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TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA5
Job No 525.04	Date 11-05-20	Ground Level (m) 85.23	Co-Ordinates () E 333,776.0 N 350,709.0	
Contractor				Sheet 1 of 1

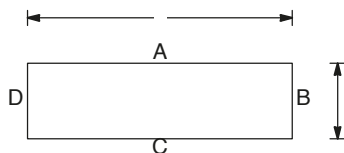


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.14		MADE GROUND: Asphalt.			
0.14-0.75		MADE GROUND: Light brownish grey sandy angular to subangular fine to coarse gravel predominantly of limestone and rare brick fragments.			
0.75-1.70		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			

Shoring/Support: No shoring required.
Stability: Sides stable.



GENERAL REMARKS

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All dimensions in metres
Scale 1:37.5

Client
Lidl Great Britain Ltd

Method/
Plant Used JCB 3CX

Logged By
PD

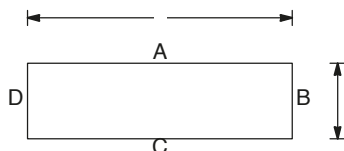
TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA6
Job No 525.04	Date 11-05-20	Ground Level (m) 83.66	Co-Ordinates () E 333,799.0 N 350,667.0	
Contractor				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.08		MADE GROUND: Asphalt.			
0.08-0.60		MADE GROUND: Light brownish grey sandy angular to subangular fine to coarse gravel predominantly of limestone.			
0.60-0.85		MADE GROUND: Orangish brown mottled dark grey gravelly fine to medium sand.			
0.85-1.60		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			

Shoring/Support: No shoring required.
Stability: Sides stable.



GENERAL REMARKS

NVO - No Visual or Olfactory Evidence of Contamination.

Backfilled with arisings upon completion of soakaway testing.

All dimensions in metres Scale 1:37.5	Client Lidl Great Britain Ltd	Method/ Plant Used JCB 3CX	Logged By PD
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TRIAL PIT LOG

Project Former Wrexham Police Station, Bodhyfryd, LL12 7BW				TRIAL PIT No SA7
Job No 525.04	Date 11-05-20	Ground Level (m) 83.69	Co-Ordinates () E 333,790.0 N 350,629.0	
Contractor				Sheet 1 of 1

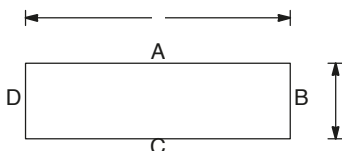


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.12		MADE GROUND: Asphalt.			
0.12-0.50		MADE GROUND: Light brownish grey sandy angular to subangular fine to coarse gravel predominantly of limestone.			
0.50-1.69		Brown slightly silty gravelly medium SAND with low cobble content. Gravel is subrounded to rounded fine to coarse of mixed lithologies including sandstone and quartzite. Cobbles are rounded.			

Shoring/Support: No shoring required.
Stability: Sides stable.



GENERAL REMARKS

NVO - No Visual or Olfactory Evidence of Contamination.

Backfilled with arisings upon completion of soakaway testing.

All dimensions in metres
Scale 1:37.5

Client
Lidl Great Britain Ltd

Method/
Plant Used JCB 3CX

Logged By
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CALCULATION SHEETS

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Soakway Test Report

Remada

Client: Lidl Great Britain Ltd
Job Name: Wrexham Police Station
Job No.: 525.04

Test Date: 11.05.2020

Soil Description: See accompanying Trial Pit Log SA2

Trial Pit No. SA2
Test No. 1
Coordinates:

Weather Conditions: Dry & sunny

Time	Elapsed Time (min)	Depth to water from ground level (m)	(mm)
09.50	0	0.950	950
09.51	1	1.050	1050
09.52	2	1.090	1090
09.53	3	1.110	1110
09.54	4	1.150	1150
09.55	5	1.170	1170
10.00	10	1.250	1250
10.05	15	1.310	1310
10.10	20	1.360	1360
10.15	25	1.420	1420
10.20	30	1.470	1470
10.25	35	1.520	1520
10.30	40	1.550	1550
10.35	45	1.590	1590
10.40	50	1.620	1620
10.45	55	1.660	1660
10.50	60	1.740	1740

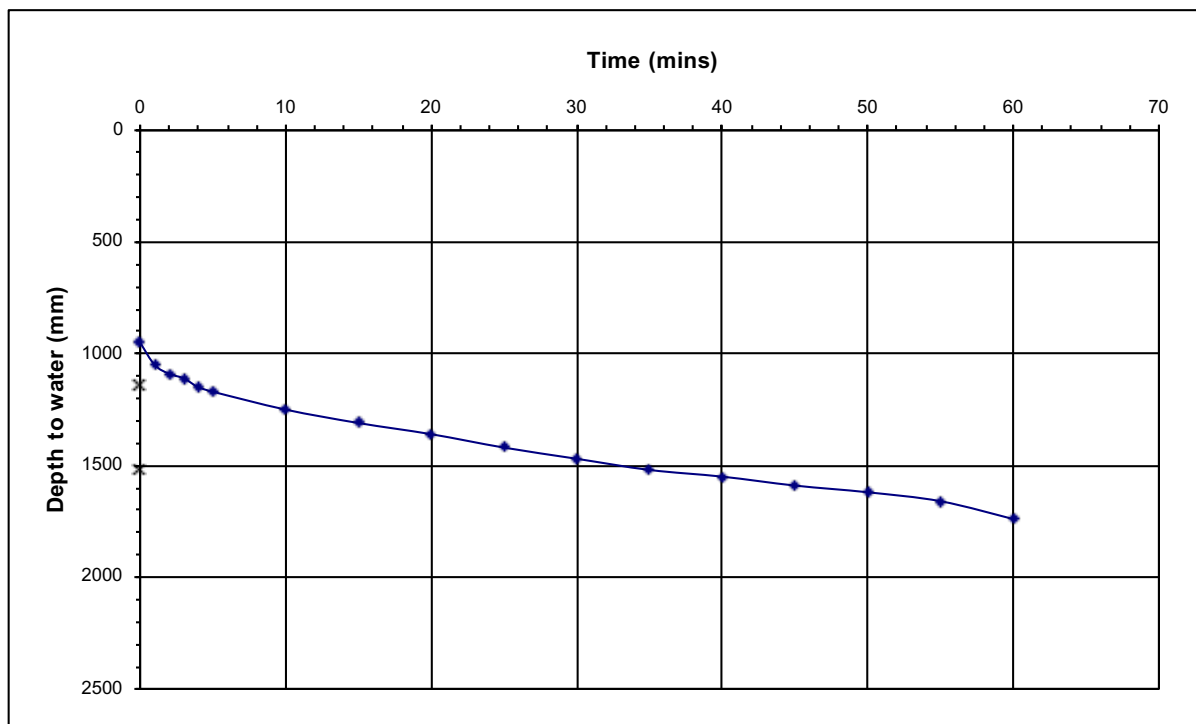
Soakaway Dimensions	(m)	(mm)
Length =	2.25	2250
Width =	0.50	500
Depth =	1.70	1700

Effective depth (empty)	m	mm
75% =	1.51	1512.5
50% =	1.33	1325.0
25% =	1.14	1137.5

Depth at start of test (mm)	=	950
Depth at end of test (mm)	=	1740

Base area of pit	=	1.125
a_{p50} - 50% internal surface area inc. base	=	3.188
V_{p75-25} - Volume 75 - 25%	=	0.422

t_{p75} (min) = (Read from graph)	3.5
t_{p25} (min) = (Read from graph)	33
t_p values extrapolated from graph data =	29.5
t_p value (seconds) =	1770



Soil infiltration rate, f , (m/s) = 7.48E-05 (normal test)
Soil infiltration rate, f , (m/s) = (pit filled with stone)

Notes:

Logged By

IS

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PD

Soakway Test Report

Remada

Client: Lidl Great Britain Ltd
Job Name: Wrexham Police Station
Job No.: 525.04

Test Date: 11.05.2020

Soil Description: See accompanying Trial Pit Log SA3

Trial Pit No.	SA3
Test No.	1
Coordinates:	

Weather Conditions: Dry & sunny

Time	Elapsed Time (min)	Depth to water from ground level (m)	(mm)
10.15	0	0.950	950
10.16	1	1.040	1040
10.17	2	1.100	1100
10.18	3	1.170	1170
10.19	4	1.210	1210
10.20	5	1.270	1270
10.25	10	1.370	1370
10.35	15	1.480	1480
10.40	20	1.530	1530
10.45	25	1.610	1610
10.50	30	1.670	1670
10.55	35	1.740	1740
11.00	40	1.820	1820
11.05	45	1.880	1880
11.10	50	1.910	1910
11.15	55	1.950	1950
11.20	60	2.000	2000
11.25	65	2.060	2060
11.30	70	2.120	2120
11.35	75	2.170	2170

Soakaway Dimensions	(m)	(mm)
Length =	2.25	2250
Width =	0.65	650
Depth =	2.20	2200

Effective depth (empty)	m	mm
75% =	1.89	1887.5
50% =	1.58	1575.0
25% =	1.26	1262.5

Depth at start of test (mm)	=	950
Depth at end of test (mm)	=	2170

Base area of pit	=	1.463
a_{p50} - 50% internal surface area inc. base	=	5.088
V_{p75-25} - Volume 75 - 25%	=	0.914

t_{p75} (min) = (Read from graph)	5
t_{p25} (min) = (Read from graph)	46
t_p values extrapolated from graph data =	41
t_p value (seconds) =	2460



Soil infiltration rate, f , (m/s) = 7.30E-05 (normal test)
Soil infiltration rate, f , (m/s) = (pit filled with stone)

Notes:

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PD

Soakway Test Report

Remada

Client: Lidl Great Britain Ltd
Job Name: Wrexham Police Station
Job No.: 525.04

Test Date: 11.05.2020

Soil Description: See accompanying Trial Pit Log SA4

Trial Pit No.	SA4
Test No.	1
Coordinates:	

Weather Conditions: Dry & sunny

Time	Elapsed Time (min)	Depth to water from ground level (m)	(mm)
12.30	0	0.700	700
12.31	1	0.800	800
12.32	2	0.850	850
12.33	3	0.890	890
12.34	4	0.930	930
12.35	5	0.970	970
12.40	10	1.080	1080
12.45	15	1.190	1190
12.50	20	1.230	1230
12.55	25	1.280	1280
13.00	30	1.360	1360
13.05	35	1.420	1420
13.10	40	1.450	1450
13.15	45	1.490	1490
13.20	50	1.540	1540
13.25	55	1.620	1620
13.30	60	1.650	1650

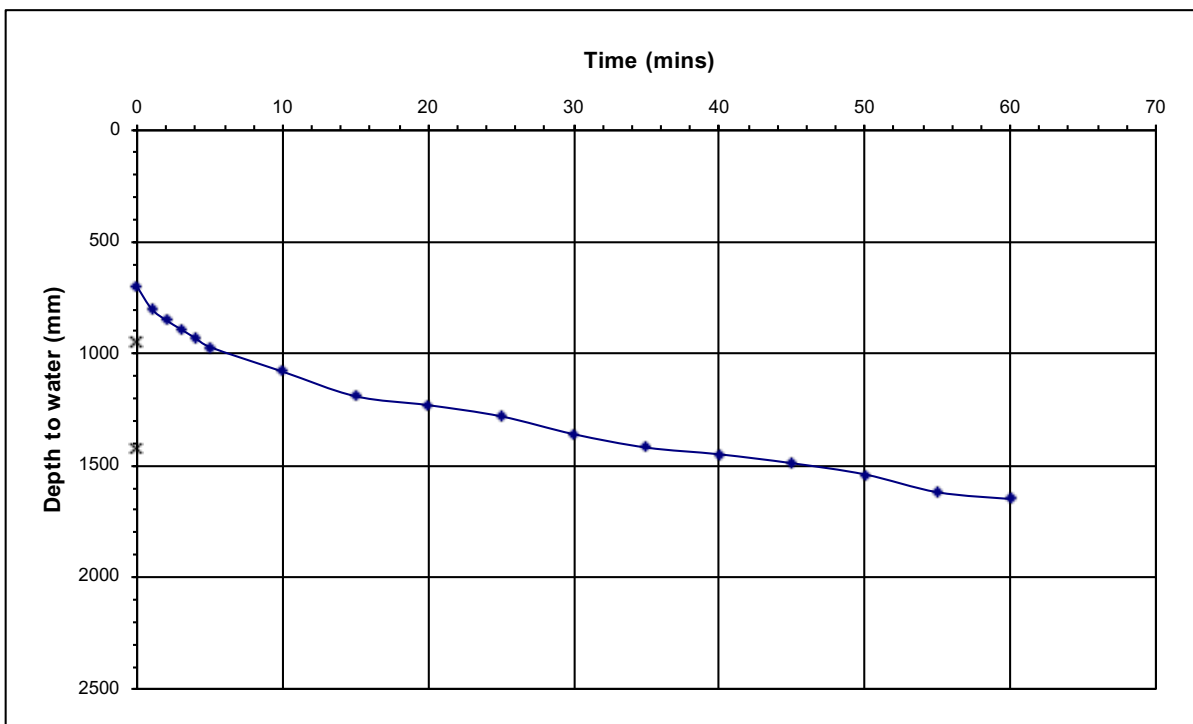
Soakaway Dimensions	(m)	(mm)
Length =	2.00	2000
Width =	0.60	600
Depth =	1.67	1670

Effective depth (empty)	m	mm
75% =	1.43	1427.5
50% =	1.19	1185.0
25% =	0.94	942.5

Depth at start of test (mm)	=	700
Depth at end of test (mm)	=	1650

Base area of pit	=	1.200
a_{p50} - 50% internal surface area inc. base	=	3.722
V_{p75-25} - Volume 75 - 25%	=	0.582

t_{p75} (min) = (Read from graph)	4.5
t_{p25} (min) = (Read from graph)	36
t_p values extrapolated from graph data =	31.5
t_p value (seconds) =	1890



Soil infiltration rate, f , (m/s) = 8.27E-05 (normal test)
Soil infiltration rate, f , (m/s) = (pit filled with stone)

Notes:

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Checked by

PD

Soakway Test Report

Remada

Client: Lidl Great Britain Ltd
Job Name: Wrexham Police Station
Job No.: 525.04

Test Date: 11.05.2020

Soil Description: See accompanying Trial Pit Log SA5

Trial Pit No. SA5
Test No. 1
Coordinates:

Weather Conditions: Dry & sunny

Time	Elapsed Time (min)	Depth to water from ground level (m)	(mm)
12.55	0	0.750	750
12.56	1	0.810	810
12.57	2	0.830	830
12.58	3	0.840	840
12.59	4	0.840	840
13.00	5	0.850	850
13.05	10	0.870	870
13.10	15	0.890	890
13.15	20	0.910	910
13.20	25	0.920	920
13.25	30	0.940	940
13.30	35	0.960	960
13.35	40	0.970	970
13.40	45	0.990	990
13.45	50	1.000	1000
13.50	55	1.020	1020
13.55	60	1.040	1040
14.10	75	1.070	1070
14.25	90	1.120	1120
14.40	105	1.150	1150
14.55	120	1.200	1200

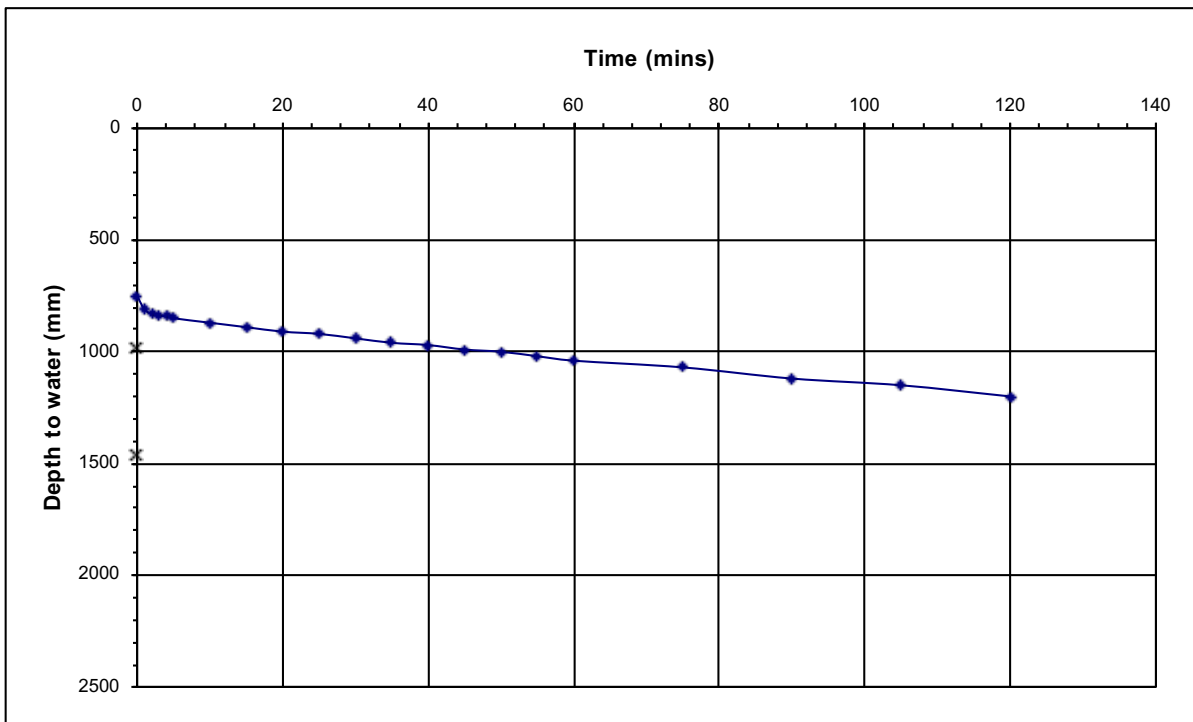
Soakaway Dimensions	(m)	(mm)
Length =	2.15	2150
Width =	0.75	750
Depth =	1.70	1700

Effective depth (empty)	m	mm
75% =	1.46	1462.5
50% =	1.23	1225.0
25% =	0.99	987.5

Depth at start of test (mm)	=	750
Depth at end of test (mm)	=	1200

Base area of pit	=	1.613
a_{p50} - 50% internal surface area inc. base	=	4.368
V_{p75-25} - Volume 75 - 25%	=	0.766

t_{p75} (min) =	(Read from graph)	50
t_{p25} (min) =	(Read from graph)	205
t_p values extrapolated from graph data =		155
t_p value (seconds) =		9300



Soil infiltration rate, f , (m/s) = 1.89E-05 **(normal test)**
Soil infiltration rate, f , (m/s) = **(pit filled with stone)**

Notes:

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Soakway Test Report

Remada

Client: Lidl Great Britain Ltd
Job Name: Wrexham Police Station
Job No.: 525.04

Test Date: 11.05.2020

Soil Description: See accompanying Trial Pit Log SA6

Trial Pit No. SA6
Test No. 1
Coordinates:

Weather Conditions: Dry & sunny

Time	Elapsed Time (min)	Depth to water from ground level (m)	(mm)
11.35	0	0.660	660
11.36	1	0.820	820
11.37	2	0.910	910
11.38	3	0.970	970
11.39	4	1.000	1000
11.40	5	1.060	1060
11.45	10	1.220	1220
11.50	15	1.350	1350
11.55	20	1.410	1410
12.00	25	1.430	1430
12.05	30	1.450	1450
12.10	35	1.450	1450
12.15	40	1.470	1470
12.20	45	1.470	1470

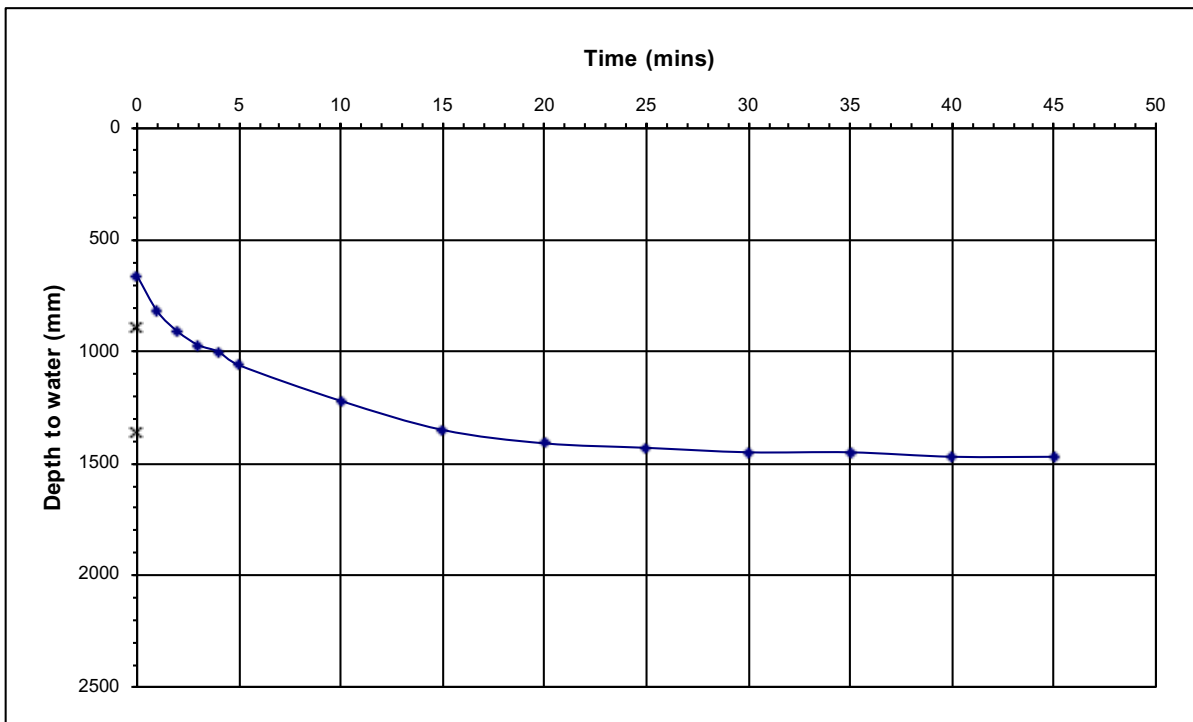
Soakaway Dimensions	(m)	(mm)
Length =	2.20	2200
Width =	0.75	750
Depth =	1.60	1600

Effective depth (empty)	m	mm
75% =	1.37	1365.0
50% =	1.13	1130.0
25% =	0.90	895.0

Depth at start of test (mm)	=	660
Depth at end of test (mm)	=	1470

Base area of pit	=	1.650
a_{p50} - 50% internal surface area inc. base	=	4.423
V_{p75-25} - Volume 75 - 25%	=	0.776

t_{p75} (min) = (Read from graph)	2
t_{p25} (min) = (Read from graph)	16
t_p values extrapolated from graph data =	14
t_p value (seconds) =	840



Soil infiltration rate, f , (m/s) = 2.09E-04 (normal test)
Soil infiltration rate, f , (m/s) = (pit filled with stone)

Notes:

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Soakway Test Report

Remada

Client: Lidl Great Britain Ltd
Job Name: Wrexham Police Station
Job No.: 525.04

Test Date: 11.05.2020

Soil Description: See accompanying Trial Pit Log SA7

Trial Pit No. SA7
Test No. 1
Coordinates:

Weather Conditions: Dry & sunny

Time	Elapsed Time (min)	Depth to water from ground level (m)	(mm)
14.20	0	0.590	590
14.21	1	0.720	720
14.22	2	0.780	780
14.23	3	0.840	840
14.24	4	0.870	870
14.25	5	0.900	900
14.30	10	0.980	980
14.35	15	1.020	1020
14.40	20	1.060	1060
14.45	25	1.100	1100
14.50	30	1.120	1120
14.55	35	1.120	1120
15.00	40	1.140	1140
15.05	45	1.160	1160
15.10	50	1.160	1160
15.15	55	1.170	1170
15.20	60	1.180	1180

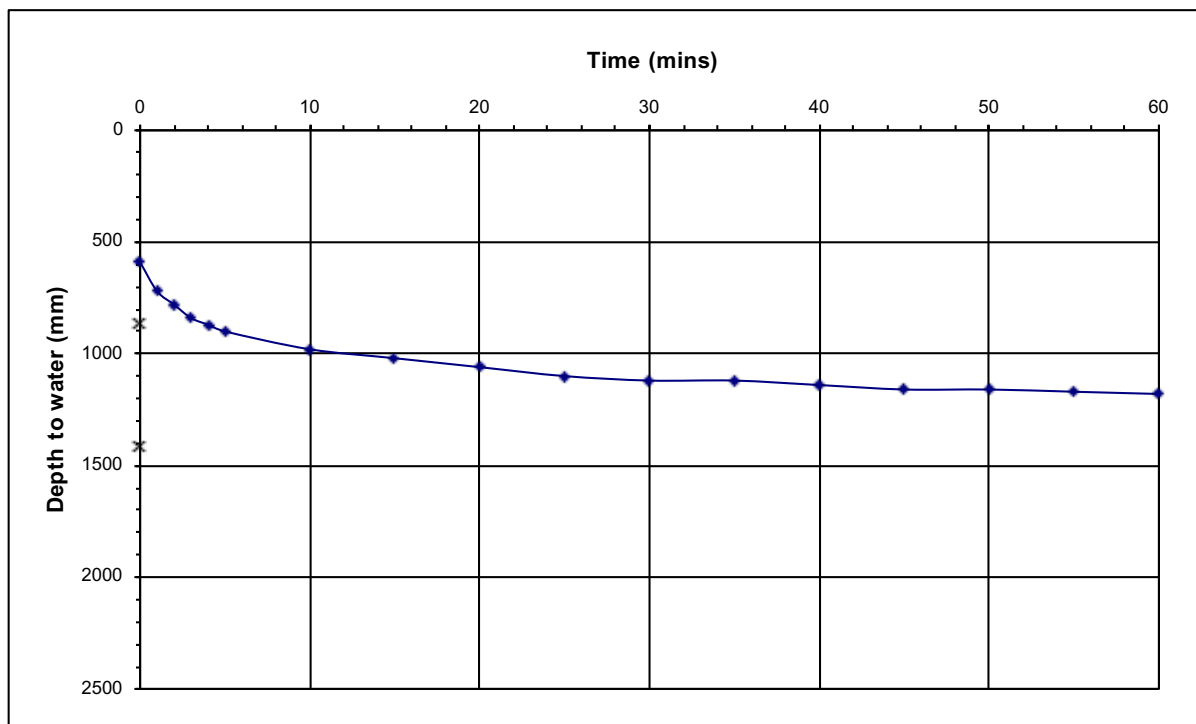
Soakaway Dimensions	(m)	(mm)
Length =	2.00	2000
Width =	0.65	650
Depth =	1.69	1690

Effective depth (empty)	m	mm
75% =	1.42	1415.0
50% =	1.14	1140.0
25% =	0.87	865.0

Depth at start of test (mm)	=	590
Depth at end of test (mm)	=	1180

Base area of pit	=	1.300
a _{p50} - 50% internal surface area inc. base	=	4.215
V _{p75-25} - Volume 75 - 25%	=	0.715

t _{p 75} (min) = (Read from graph)	4
t _{p 25} (min) = (Read from graph)	175
t _p values extrapolated from graph data =	171
t _p value (seconds) =	10260



Soil infiltration rate, f , (m/s) = 1.65E-05 (normal test)
Soil infiltration rate, f , (m/s) = (pit filled with stone)

Notes:

Logged By

IS

Checked by

PD