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Our Ref: 11047G/TPB/SCS

7th September 2023

Dear Sirs

11047G Woodhouse Lane, Wythenshawe – Infiltration Testing

WML Consulting has been commissioned by Wythenshawe Community Housing Group to undertake in situ soakaway testing at a site located at the old British Legion off Woodhouse Lane in Wythenshawe.

The project involves the construction of a three-storey residential apartment structure. External areas are to include hardstanding for access and parking to the south-east and very localised soft landscaped amenity space.

Intrusive Works

In order to carry out in situ soakaway testing a machine excavated trial pit was formed by SI Ground Investigation Ltd on 30th August 2023.

The Exploratory Hole Location drawing is presented in Appendix 01.

The subsequent ground conditions encountered, together with other pertinent observations were recorded during the intrusive works.

Ground Conditions

The ground conditions encountered comprised a surface horizon of made ground overlying firm to stiff, grey brown clay with occasional sand bands to a maximum proven depth of 1.50mbgl.

Visual/Olfactory Evidence of Contamination

No visual and/or olfactory evidence of significant ground contamination has been identified within the exploratory hole during the investigation.

Groundwater

Groundwater was not encountered during the formation of the trial pit.

Directors

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WML Consulting Limited
Registered in England No. 3176267

In Situ Soakaway Testing

In-situ soakaway testing carried out in the machine excavated trial pit on 30th August 2023 recorded a drop in water level of 3cm during the 240 minute test duration. As the water level did not drop below 75% of the initial head a coefficient of permeability could not be calculated and the infiltration rate is considered negligible.

The results of the in situ testing are presented in Appendix 02.

We trust this provides you the information required at this time. However, please do not hesitate to contact us if you have any queries.

Yours sincerely



T P Booth



S C Seddon

For WML CONSULTING

**Appendix 01
Drawings**

Notes

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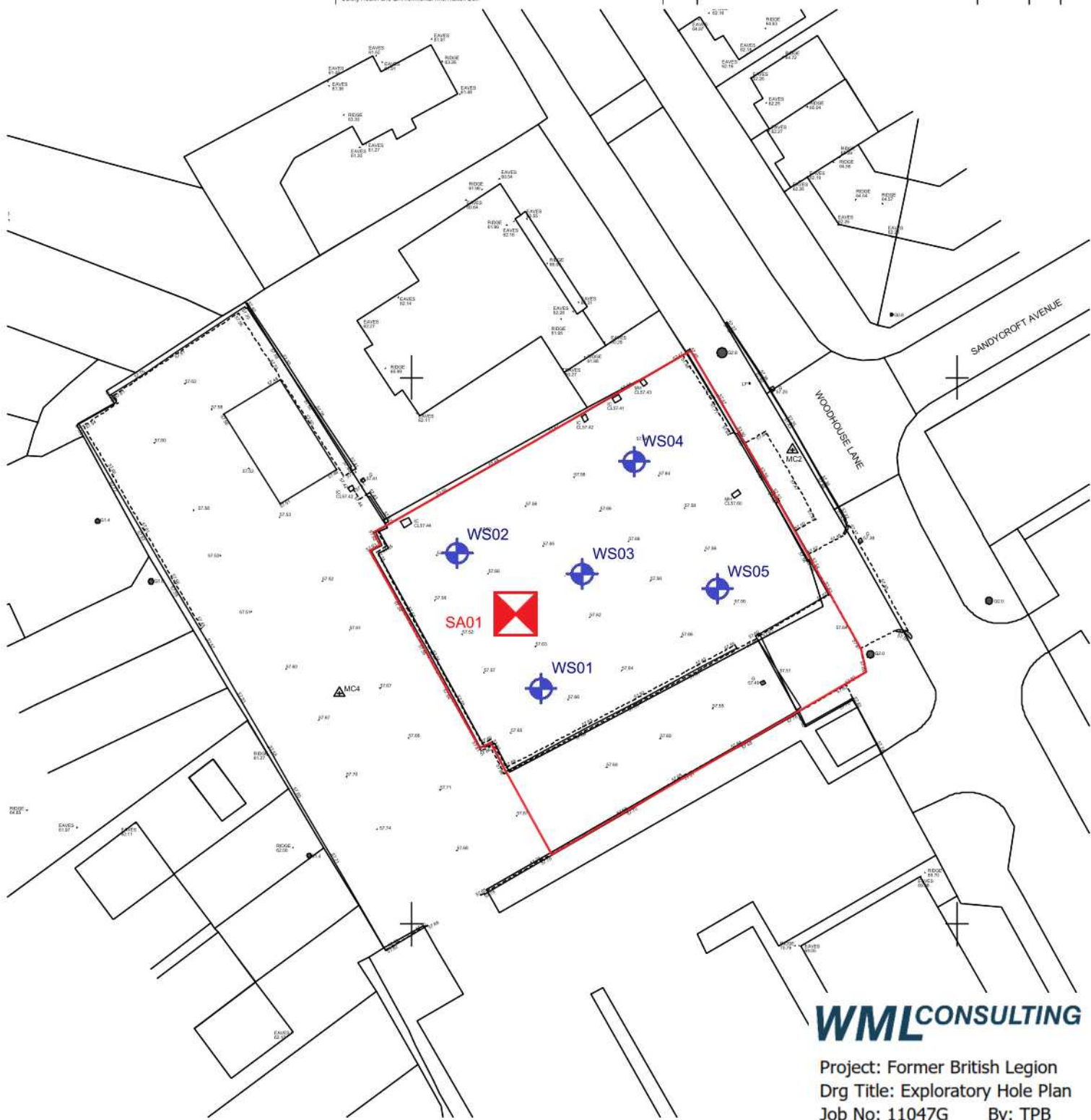
- DRAWING NOT TO BE SCALED.
- REPORT ERRORS & OMISSIONS TO ARCHITECT.
- CHECK ALL DIMENSIONS ON SITE.
- DRAWING TO BE READ IN CONJUNCTION WITH HEALTH AND SAFETY PLAN AND ALL RELEVANT RISK ASSESSMENTS.

0 5 10 15 20
 Scale in m. @ A4 1:500

Residual Risks

In addition to the hazards/risks normally associated with the types of work detailed on this drawing take note of the above. It is assumed that all works on this drawing will be carried out by a competent contractor working, where appropriate, to an appropriate method statement.
 Safety Health and Environmental Information Box

RevID	Note	Date	Drwn	Chkd
P1	First Issue	15.02.23	-	-



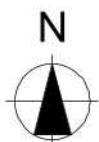
WMLCONSULTING

Project: Former British Legion
 Drg Title: Exploratory Hole Plan
 Job No: 11047G By: TPB
 Drg No: SK-01 Rev: -
 Date: 24/04/2023 Scale: NTS

Project Name & No.
 Former British Legion Site, Woodhouse Lane, Wythenshawe

Client
 WCHG

Layout Title
 Location Plan



number
 6811-ARC-00-00-DR-A-010016

rev	drawn by	checked by	status
P1	SB	SB	S

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Appendix 02
In Situ Soakaway Test Results

IN SITU PERMEABILITY TEST																																																																																																			
Project Number 11047G		Date 30-Aug-23																																																																																																	
Project Name Woodhouse Lane, Wythenshawe		Test Pit Number SA01																																																																																																	
Engineer SE		Test Number 1																																																																																																	
FIELD MEASUREMENTS		TRIAL PIT INFORMATION																																																																																																	
<p>Depth at Time,</p> <table border="1"> <thead> <tr> <th>Time Elapsed (t) mins</th> <th>t(m below datum)</th> <th>head of water (m)</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.50</td><td>1.00</td></tr> <tr><td>1.00</td><td>0.50</td><td>1.00</td></tr> <tr><td>2.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>3.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>4.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>5.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>6.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>7.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>8.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>9.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>10.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>15.00</td><td>0.51</td><td>0.99</td></tr> <tr><td>20.00</td><td>0.52</td><td>0.98</td></tr> <tr><td>25.00</td><td>0.52</td><td>0.98</td></tr> <tr><td>30.00</td><td>0.52</td><td>0.98</td></tr> <tr><td>35.00</td><td>0.52</td><td>0.98</td></tr> <tr><td>40.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>45.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>50.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>55.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>60.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>90.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>120.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>150.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>180.00</td><td>0.53</td><td>0.97</td></tr> <tr><td>240.00</td><td>0.53</td><td>0.97</td></tr> </tbody> </table>		Time Elapsed (t) mins	t(m below datum)	head of water (m)	0.00	0.50	1.00	1.00	0.50	1.00	2.00	0.51	0.99	3.00	0.51	0.99	4.00	0.51	0.99	5.00	0.51	0.99	6.00	0.51	0.99	7.00	0.51	0.99	8.00	0.51	0.99	9.00	0.51	0.99	10.00	0.51	0.99	15.00	0.51	0.99	20.00	0.52	0.98	25.00	0.52	0.98	30.00	0.52	0.98	35.00	0.52	0.98	40.00	0.53	0.97	45.00	0.53	0.97	50.00	0.53	0.97	55.00	0.53	0.97	60.00	0.53	0.97	90.00	0.53	0.97	120.00	0.53	0.97	150.00	0.53	0.97	180.00	0.53	0.97	240.00	0.53	0.97	<p>Pit Length 2.00 m</p> <p>Pit Width 0.60 m</p> <p>Pit Depth 1.50 m</p> <p>Groundwater Level 1.50 m</p> <p>Datum</p> <p>Infilled with gravel? NO</p> <p>40-75mm diameter stone: assumed porosity 30%</p> <p>test duration 240.00 mins</p> <p>Depth to water at To 0.50 m</p> <p>Depth to water at Tf 0.53 m</p> <table border="1"> <thead> <tr> <th>Water status</th> <th>Head of water (m BD)</th> <th>time (mins)</th> </tr> </thead> <tbody> <tr> <td>100% full</td> <td>1.00</td> <td>0</td> </tr> <tr> <td>75% full</td> <td>0.75</td> <td>-</td> </tr> <tr> <td>50% full</td> <td>0.50</td> <td>-</td> </tr> <tr> <td>25% full</td> <td>0.25</td> <td>-</td> </tr> </tbody> </table>		Water status	Head of water (m BD)	time (mins)	100% full	1.00	0	75% full	0.75	-	50% full	0.50	-	25% full	0.25	-
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<p style="text-align: center;">Infiltration</p> <p>The graph displays a horizontal line of data points at a depth of 0.50 m below datum, indicating no change in water level over time. The x-axis represents time from 0.00 to 250.00 minutes, and the y-axis represents depth from 0.00 to 1.50 meters.</p>																																																																																																			
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<p>Vp75-25 = 0.60 m3</p> <p>ap50 = 3.8 m2</p> <p>tp75-25 = - mins</p> <p>Infiltration rate = - m/sec</p>		<p>Water level did not drop below 75% full during test duration showing negligible infiltration, therefore not possible to calculate infiltration rate.</p>																																																																																																	