TRIAL PIT LOG

Contract:		Client:		Trial Pit:
Phoenix Place - Addtional Site Investigation		**Taylor Wimpey Central London**		**TP109**
Contract Ref:	Start: **30.10.17**	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	End: **30.10.17**	**13.99**	**E:531035.9 N:182220.7**	**3** of **4**

TP location in south east corner of site

View to north west pit side

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**JBarron**	JB

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
Phoenix Place - Addtional Site Investigation		**Taylor Wimpey Central London**		**TP109**
Contract Ref:	Start: **30.10.17**	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	End: **30.10.17**	**13.99**	**E:531035.9 N:182220.7**	**4** of **4**

View to south west pit side

Recovered spoil

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**JBarron**	JB

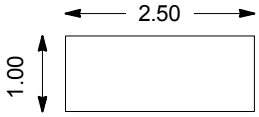
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Phoenix Place - Addtional Site Investigation	**Taylor Wimpey Central London**	**TP110**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	**30.10.17** End: **30.10.17**	**16.84**	**E:530941.0 N:182250.7**	**1** of **4**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Decorative bricks.	16.77	0.07	
						MADE GROUND: BRICK WORK footings (SOUTH WEST face) & BRICK WALL extending to 0.5m bgl (NORTH WEST face). . . . From 0.07m bgl to 0.5m bgl (Remaining pit sides): MADE GROUND: Light grey fine to coarse SAND and sub-rounded to sub-angular GRAVEL and COBBLES of red and whole bricks.	16.34	(0.43) 0.50	
						MADE GROUND: Brownish grey very clayey fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of concrete and brick.	14.44	(1.90) 2.40	
						MADE GROUND: Soft dark grey sandy gravelly silty CLAY. Gravel is sub-rounded fine to coarse flint. (possible reworked alluvial material).	13.84	(0.60) 3.00	
						Firm light grey and orange brown mottled CLAY. (LONDON CLAY FORMATION)	13.34	(0.50) 3.50	

Plan (Not to Scale)



General Remarks

1. No groundwater or seepage encountered.
2. Pit side stable.
3. Trail pit backfilled upon completion.
4. m bgl = meters below ground level
5. Pit orientation NW face = parallel to Calthorpe Street; NE face = parallel to Phoenix Place; SE face = parallel to Mount Pleasant; SW face = parallel to Gough Street.

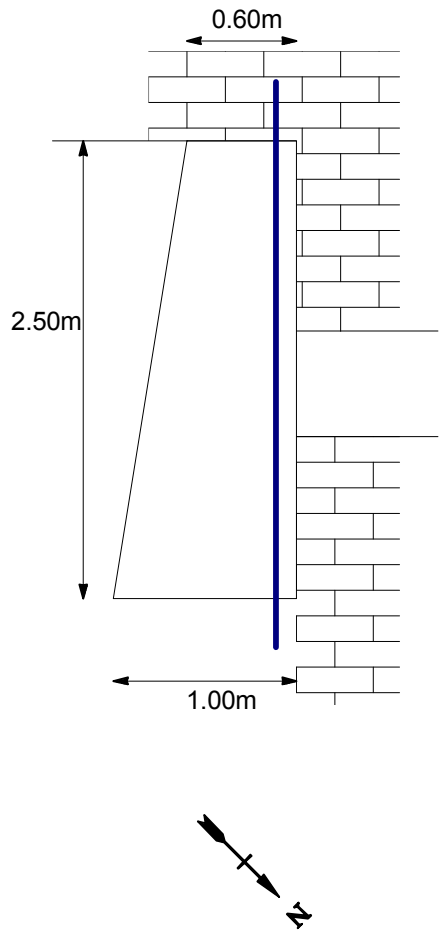
All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**JBarron**	JB

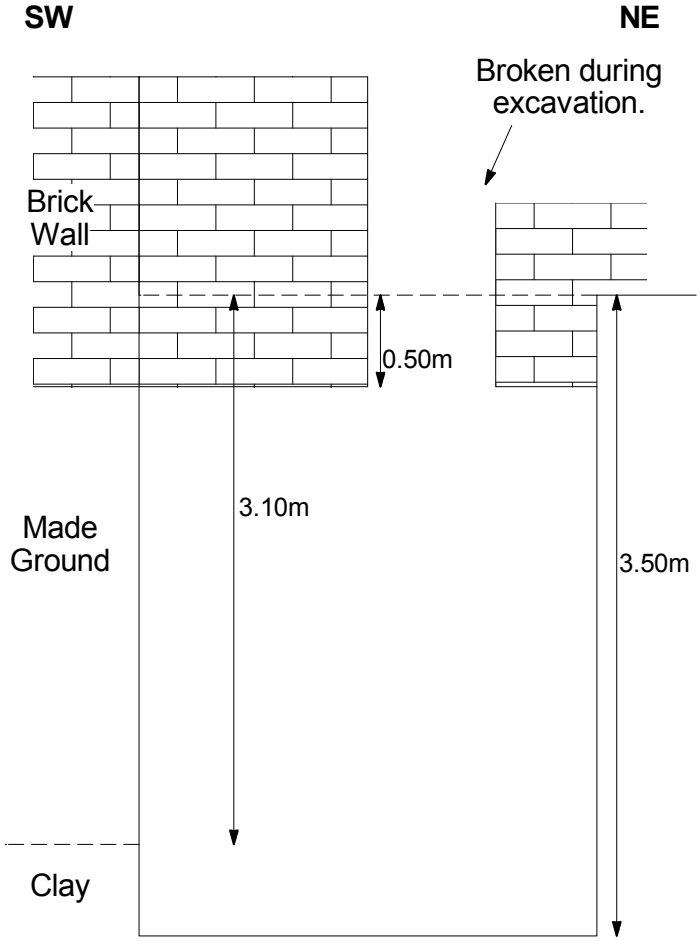
TRIAL PIT LOG

Contract:		Client:		Trial Pit:
Phoenix Place - Addtional Site Investigation		**Taylor Wimpey Central London**		**TP110**
Contract Ref:	Start: **30.10.17**	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	End: **30.10.17**	**16.84**	**E:530941.0 N:182250.7**	**2** of **4**

Plan



Section A



Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**JBarron**	JB

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
Phoenix Place - Addtional Site Investigation		**Taylor Wimpey Central London**		**TP110**
Contract Ref:	Start: **30.10.17**	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	End: **30.10.17**	**16.84**	**E:530941.0 N:182250.7**	**3** of **4**

View towards south western site boundary wall with Gough Street

Southern (south eastern) pit side

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**JBarron**	JB

TRIAL PIT LOG

Contract:		Client:		Trial Pit:
Phoenix Place - Addtional Site Investigation		**Taylor Wimpey Central London**		**TP110**
Contract Ref:	Start: **30.10.17**	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	End: **30.10.17**	**16.84**	**E:530941.0 N:182250.7**	**4** of **4**

Sub-surface wall to north west of pit side

Recovered spoil

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**JCB-3CX**	**JBarron**	JB

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Phoenix Place - Addtional Site Investigation	**Taylor Wimpey Central London**	**WS19**

Contract Ref:	Start: **01.11.17**	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	End: **01.11.17**	**16.66**	**E:530938.6 N:182271.0**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instru-mentation	Description of Strata	Reduced Level	Depth (Thick ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
0.00 - 1.00 (115mm dia) 100% rec							MADE GROUND: Reddish brown fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of concrete and brick.		(1.50)	
								15.16	1.50	
1.00 - 2.00 (115mm dia) 100% rec							MADE GROUND: Soft dark greyish brown sandy gravelly CLAY. Gravel is sub-rounded to sub-angular fine to coarse brick.		(2.00)	
2.00 - 3.00 (98mm dia) 100% rec										
								13.16	3.50	
3.00 - 4.00 (98mm dia) 100% rec							Yellow brown fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of flint. (RIVER TERRACE DEPOSITS)		(1.00)	
4.00 - 5.00 (98mm dia) 100% rec								12.16	4.50	
							Firm brown sandy CLAY. (LONDON CLAY FORMATION)		(0.50)	
								11.66	5.00	
							Window sample completed at 5.0m bgl.			

Drilling Progress and Water Observations					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Inspection pit hand dug to 1.2m depth.
2. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0m bgl and 4.0m bgl.
3. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 4.0m bgl; bentonite seal between 1.0m and 0.3m bgl with flush cover installed at surface.
4. m bgl = meters below ground level.

All dimensions in metres | Scale: **1:39**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Tracked window	**Archway Competitor**	**Darren Ypey**	**JBarron**	JB

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Phoenix Place - Addtional Site Investigation	**Taylor Wimpey Central London**	**WS20**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	**01.11.17** End: **01.11.17**	**16.21**	**E:530968.2 N:182269.9**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instru-mentation	Description of Strata	Reduced Level	Depth (Thick ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
0.00 - 1.00 (115mm dia) 100% rec							MADE GROUND: Brownish grey clayey fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of concrete and brick.		(2.00)	
1.00 - 2.00 (115mm dia) 100% rec								14.21	2.00	
2.00 - 3.00 (98mm dia) 100% rec							MADE GROUND: Brownish grey very clayey fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of concrete and brick.		(3.00)	
3.00 - 4.00 (98mm dia) 100% rec					01/11					
4.00 - 5.00 (98mm dia) 100% rec								11.21	5.00	
							Window sample completed at 5.0m bgl.			

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)
01/11/17			-		4.51

General Remarks

1. Inspection pit hand dug to 1.2m depth.
2. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0m bgl and 5.0m bgl.
3. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 5.0m bgl; bentonite seal between 1.0m and 0.3m bgl with flush cover installed at surface.
4. m bgl = meters below ground level.

All dimensions in metres | Scale: **1:39**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Tracked window	**Archway Competitor**	**Darren Ypey**	**JBarron**	JB

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Phoenix Place - Addtional Site Investigation	**Taylor Wimpey Central London**	**WS21**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	**01.11.17** End: **01.11.17**	**14.88**	**E:530985.4 N:182240.9**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instru-mentation	Description of Strata	Reduced Level	Depth (Thick ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
0.00 - 1.00 (115mm dia) 100% rec							MADE GROUND: Brownish grey clayey fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of concrete and brick.		(3.00)	
1.00 - 2.00 (115mm dia) 100% rec										
2.00 - 3.00 (98mm dia) 100% rec								11.88	3.00	
3.00 - 4.00 (98mm dia) 100% rec					01/11		MADE GROUND: Soft dark grey and black sandy gravelly silty CLAY. Gravel is sub-rounded to sub-angular fine to coarse brick and chalk.		(2.00)	
4.00 - 5.00 (98mm dia) 100% rec								9.88	5.00	
							Window sample completed at 5.0m bgl.			

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)
01/11/17			-		3.44

General Remarks

1. Inspection pit hand dug to 1.2m depth.
2. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0m bgl and 5.0m bgl.
3. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 5.0m bgl; bentonite seal between 1.0m and 0.3m bgl with flush cover installed at surface.
4. m bgl = meters below ground level.

All dimensions in metres | Scale: **1:39**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Tracked window	**Archway Competitor**	**Darren Ypey**	**JBarron**	JB

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Phoenix Place - Addtional Site Investigation	**Taylor Wimpey Central London**	**WS22**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
29518	**01.11.17** End: **01.11.17**	**12.36**	**E:531026.8 N:182208.3**	**1** of **1**

Progress	Samples / Tests				Water	Backfill & Instru-mentation	Description of Strata	Reduced Level	Depth (Thick ness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
0.00 - 1.00 (115mm dia) 100% rec							MADE GROUND: Recovery of greyish brown clayey to very clayey fine to coarse SAND and sub-rounded to sub-angular fine to coarse GRAVEL of concrete and brick.		(3.50)	
1.00 - 2.00 (115mm dia) 100% rec					01/11					
2.00 - 3.00 (98mm dia) 100% rec								8.86	3.50	
3.00 - 4.00 (98mm dia) 100% rec							MADE GROUND: Soft dark greenish grey and black slightly sandy slightly gravelly CLAY. Gravel is sub-rounded to sub-angular fine to coarse brick.		(0.50)	
4.00 - 5.00 (98mm dia) 100% rec								8.36	4.00	
							Zone of core loss.		(1.00)	ZCL
								7.36	5.00	
							Window sample completed at 5.0m bgl.			

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)
01/11/17			-		2.04

General Remarks

1. Inspection pit hand dug to 1.2m depth.
2. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0m bgl and 4.0m bgl.
3. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 4.0m bgl; bentonite seal between 1.0m and 0.3m bgl with flush cover installed at surface.
4. m bgl = meters below ground level.

All dimensions in metres | Scale: **1:39**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Tracked window	**Archway Competitor**	**Darren Ypey**	**JBarron**	JB

APPENDIX C
SITE PHOTOGRAPHS AND WALKOVER CHECKLIST

PHOTOGRAPHIC LOG		
Photo no. **1**	**Date:** 16/10/2017	
Direction photo taken: **East**		
Description: View east from centre of the site towards Royal Mail Mount Pleasant (Calthrope) site and Mail Rail Museum.		

Photo No. **2**	**Date:** 16/10/2017	
Direction photo taken: **South West**		
Description: View towards the south western corner of the site, the lower southern section of the site is accessed by a ramp.		

Photo No.	Date:
3	16/10/2017

Direction Photo Taken:

North West

Description:

View of the site towards north western corner from south eastern corner. The lower southern section of the site is shown.

Photo No.	Date:
4	16/10/2017

Direction Photo Taken:

North

Description:

View of the site towards north western corner along western boundary. The retaining wall is shown on the western site boundary between the site and Gough Street. Small areas of the site are partially vegetated.

Photo No. 5	Date: 16/10/2017	
Direction Photo Taken: **North**		
Description: View along eastern boundary. The wall is in poor condition.		

Photo No. 6	Date: 16/10/2017	
Direction Photo Taken: **West**		
Description: View of possible interceptor in south western corner of the site.		

Photo No.	Date:	
7	16/10/2017	
Direction Photo Taken: **North**		
Description: View of possible interceptor in south western corner of the site.		

Photo No.	Date:	
8	16/10/2017	
Direction Photo Taken: **East**		
Description: Access to site from Phoenix Place.		

WALKOVER SURVEY CHECKLIST: GEOSCIENCES

Mount Pleasant, Phoenix Place

These inspections can provide useful information on:

- Potential geotechnical hazards
- Suitable and appropriate locations for investigation
- The groundwater and surface water environments
- Potentially sensitive receptors (targets) including issues that require further investigation, e.g. ecology surveys
- Potential sources of contaminants
- Nature of contamination
- Potential migration routes (pathways)

Mark locations of features described on a map and give them a reference number.

Describe features in as much detail as possible. Continue on the back of the checklist if necessary, using the feature letter for reference. Take photos of site and relevant features in immediate surrounding area.

The walkover survey can also provide information for the environmental consultant in planning the site investigation.

Points that should be addressed in a walkover survey are as follows:

Features	Description	Photo no.	Map ref.
a) Describe materials exposed in nearby road or railway cuttings, in pits and quarries and natural exposures of soils and rocks near to the site. *This will give an indication of the geology beneath the site*	N/A		
b) Describe surrounding properties/land use and name occupiers. Type of boundary demarcation (if any) on each side. *This will identify any potential sources of contamination from adjacent sites and any sensitive receptors*	Various commercial uses including Royal Mail Mount Pleasant depot to the east of the site & Mail Rail Museum buildings to the north and north east of the site boundary.	1	
c) Describe present land use. Are there areas of hardstanding (if yes describe location, types and condition)? *Especially crops, for consideration of appropriate timing for further investigation, compensation and reinstatement. Also note hardstanding, obstructions etc. Note any old buildings/ivy covered trees as these may be used by owls or bats*	The site is derelict and is covered by compacted fill material and concrete, which is in poor condition.	1,2,3,4, 5,6,7,8	

WALKOVER SURVEY CHECKLIST Continued

Mount Pleasant, Phoenix Place

Features	Description	Photo no.	Map ref.
d) Describe the site in terms of ground slopes and changes in slope. Is there any evidence of subsidence or landslip/slope erosion? *Old scarps or hummocky ground may be evidence of previous landslips that could be reactivated. A terraced appearance may be indicative of superficial solifluction movement or cambering. Trees that are leaning may indicate instability or general slope movement.*	The southern section of the site is lower than the north (change in elevation approx 2m). It is accessed from a ramp in the centre of the site. To the west of this area there is a raised platform former used for parking constructed of a concrete slab and beams. A retaining structure is present at the western boundary along Gough Street, its height varying between 1 m and 3 m.	2, 3, 4	
e) Describe the types and condition of surface vegetation. *Nettles may indicate an old cesspit for example or unhealthy vegetation may indicate the presence of phytotoxic fill or landfill gas. Note invasive weeds, e.g. Japanese knotweed.*	Localised areas of sporadic vegetation predominantly grass and shrubs.	4,6,7	
f) Note the number, location, height and species of trees and hedges. *This is important in terms of shrinking and swelling ground. Trees and hedgerows may be protected; their condition should be noted along with any restrictions they will impose for site access.* *It is important to note any areas with the potential for nesting birds, roosting bats, water voles and badger setts.*	N/A		
g) Describe any evidence of animal activity. *For example obvious animal paths or areas of excavations and burrows.*	N/A		
h) Describe any damage to existing structures on site or adjacent to the site *For example, cracks in buildings both on the site and in the neighbourhood, and other evidence of settlement or differential settlement.* *Note presence of any suspected asbestos-containing materials (ACM)*	The wall bounding the east of the site appears to be in poor condition with a number loose bricks visible.	5	
i) Note the remains of structures that have been demolished. Look for evidence of remnants of any historical structures. *This will provide valuable information on the location of previous foundations, processes etc.* *Note presence of any suspected asbestos-containing materials (ACM)*	There appears to be a former interceptor tank located in the south western corner of the site. The variability of the cover hardstanding on site may suggest possible structures are present below compacted fill.	6, 7 1,2,3,4,5,6, 7,8	

WALKOVER SURVEY CHECKLIST Continued

Mount Pleasant, Phoenix Place

Features	Description	Photo no.	Map ref.
j) Note any abrupt changes in ground level. Is there evidence of Made Ground/fill on site *May indicate that minerals have been worked in surface excavations. May indicate cut and fill.*	The southern section of the site is lower than the north (change in elevation approx 2m) and are probably areas containing significant depths of Made Ground (as indicated by the previous site investigation).	2, 3	
k) Note any surface hollows. *Which may indicate the presence of solution features or swallow holes in rocks such as chalk limestone, gypsum and salt, or collapsed underground workings in these materials. May also indicate badger setts or other wildlife activity.*	N/A		
l) In areas of country underlain by coal or other minerals note any hummocky ground. *Which may be the remnants of spoil tips and surface depressions that may indicate collapsed shallow workings. Areas of general unevenness may be evidence of waste disposal activities.*	N/A		
m) Note any evidence of gas from nearby landfill sites *Can be indicated for example by poor vegetation or gas bubbles in water-filled trenches.*	N/A		
n) Are there any evidence of gas protection measures (gas membrane, gravel filled trenches, venting pipes, cowls etc)	N/A		
o) Note the location of streams, culverts, ponds, seepages and sinks and signs of previous flooding. Note direction of flow. Note where the stream is accessible for sampling. May need to take dimensions of stream. *If ponds are present on site they may contain great crested newts. Ditches, streams and rivers that border or run through a site may contain water voles, otters or white-clawed crayfish. Presence of water features on site may prompt the need for a survey during a site investigation.*	It is known that the River Fleet is culverted underneath Phoenix Place bounding the site to the east.		
p) All surface waters should be examined for evidence of contamination. *For example, oil sheen, silt, solid matter, discoloured sediment.*	N/A		

Features	Description	Photo no.	Map ref.
q) Note site drainage. Are there any drain covers/soakaways (if yes describe locations). Are there any outfalls to surface watercourses? Are there any interceptors/lagoons/effluent treatment plants?	N/A		
r) Describe storage of fuels and chemicals. Are there any drums/containers (if yes, describe quantity, full/empty, stored on hardstanding/softstanding, bunded)? *Is there evidence of underground fuel tanks (if yes, describe locations, how many, volumes, bunding, used/disused, condition)?*	None identified		
s) Note any discoloured ground. *This may provide evidence of contamination.*	N/A		
t) Accidents: In the event of a large spillage would runoff affect any vulnerable watercourses/culverts? *Are emergency procedures/equipment in place?*	N/A		
u) Waste: Are there any waste skips on site? Are waste storage facilities adequate? Is there any litter/fly-tipped material?	N/A		
v) Are there any electricity substations on or adjacent to site?	N/A		
w) Identify any old structures, pipework etc. wherever possible and, if safe, inspect for evidence of stored waste. *Old tanks may contain oil. Old electricity transformers should be noted. Asbestos risk should be assessed together with the need for a specialist hazardous materials survey.*	There appears to be a former interceptor tank located in the south western corner of the site.	6,7	
x) Examine surrounding areas for evidence of contamination which could migrate onto the site. *For example a leaking oil tank on an adjacent site.*	N/A		
y) Note the presence of any underground structures, services, mine workings, tunnels etc *From a safety point of view for development of the site and also as they may provide contaminant migration routes.*	There are Mail Rail Tunnels known to be present to the north and east of the site.		
z) Note any anecdotal information in past uses of the site. *Local street names etc. can provide indicators of past industry or ground problems*	N/A		

WALKOVER SURVEY CHECKLIST Continued

Mount Pleasant, Phoenix Place

Features	Description	Photo no.	Map ref
aa) Description of buildings on site. Is there any evidence of asbestos construction materials, e.g. roofing, insulation materials. Do any of the buildings have basements? Do any of the buildings have a boiler room? (if yes describe fuel type and storage arrangements)	No evidence of past structures containing ACM however known to have been found on site, so likely.		
bb) Identify potential access routes to the site for plant for the site investigation *Excavators and drilling rigs may be required for the next stage of the investigation, or if the access is limited window sampling techniques may need to be specified. Note any specific obstructions such as unsafe/unstable ground, protected trees or hedgerows, or protected buildings.*	Access to the site from entrance on Phoenix Place.	8	
cc) Evidence of buried services (water, gas, electricity, telephone, cable, television, pipelines) *Both for safety considerations and in the case of water as supply for further investigation. As well as danger, there is the question of considerable expense, which can arise from an inadequate knowledge of the location of buried services. The locations and heights of overhead cables may be important when considering the movement of site equipment.*	As per RSK Safeground drawings.		

Walkover survey completed Approved: J.R.Barron

Signature: Date: 20/10/2017