

Hounslow Small Sites
Byfield Road
PAS128 M3P Utility Mapping Survey
Site Report
Project No. 1716

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Utility Surveyor: Simon Farrell

Topographical Surveyor: Clara Gomez

Date of Survey: September 2019

Drawings Number Issued to the Client: 1716_Site Byfield Road_P.dwg

Type of Survey: Underground Utility Location & Mapping Survey.

Survey Grid: ORDNANCE SURVEY - Related to the OS Active Network via GPS observations.

Survey Datum: ORDNANCE SURVEY - Related to the OS Active Network via GPS observations.

Accuracies: Depth by Electromagnetic Detection: +/- 10% of Depth.
Plan position by Electromagnetic Detection: +/- 10% of Depth.
Depth by GPR: +/- 10% of depth (in Normal Ground Conditions)
Plan position by GPR: +/- 10% of Depth.

Specification Notes:

1. All survey works carried out in the areas defined by Arcadis. Utility survey extended 5m in all directions where access allowed. Topographical survey extended 10m in all directions where access allowed.
2. All drawings must be read in conjunction with record information.
3. Field distortions from any above ground metallic objects i.e. temporary heras fences, temporary safety barriers or parked vehicles can limit the locatable signal due to interference from above ground fields.
4. Statutory information available at the time of survey, provided by the 40Seven.
5. All services have been surveyed robustly using a combination of Electromagnetic Detection & Ground Penetrating Radar (GPR). All utility positions were surveyed in using a Robotic Total Station.

Existing Service Records Provided to Field Surveyor

Service	Provider	Remarks
Gas	Cadent	TQ1675
Telecom	BT Openreach	TQ1630675579
		NOTE: No other existing statutory undertaker's records were available at the time of the survey or during post processing.

Field Equipment

Type	Make	Model	Company I.D No.	Operator(s) Initials
Electrolocation Instrument	RD	8000	PDL007 TXT007	SF
GPR	Mala	HDR Pro	ELP003	SF
Robotic Total Station	Trimble	S7	Rob 24	CG

Utility Location & Mapping Survey Results

Service	Comment Number	Successes / Problems Differences between survey & "Stats"
Drainage	1	Surface water soakaway noted outside the area, no incoming pipes were visible.
	2	No statutory record information available at time of survey.
Electric	1	Electric feeding lampposts around the survey area have been traced.
	2	A full passive sweep has been carried out across the survey area using electromagnetic location instrument.
	3	No statutory record information available at time of survey.
Gas	1	No gas routes could be located on site, it is assumed properties on Carrick Close are either not connected or fed from a main located in the road. Due to a lack of stop valves this could not be proven.
	2	A full passive sweep has been carried out across the survey area using electromagnetic location instrument.
	3	Statutory record information available at time of survey provided by 40Seven.
Water	1	Stop valves and fire hydrant noted on site, routes that entered the survey area have been traced out.
	2	A full passive sweep has been carried out across the survey area using electromagnetic location instrument.



Service	Comment Number	Successes / Problems Differences between survey & "Stats"
	3	No statutory record information available at time of survey.
Telecom	1	Some BT routes are located overhead on site.
	2	BT route located through survey area.
	3	A full passive sweep has been carried out across the survey area using electromagnetic location instrument.
	4	Statutory record information available at time of survey provided by 40Seven.
CATV	1	CATV inspection chamber located within the survey area routes traced outside of survey area.
	2	A full passive sweep has been carried out across the survey area using electromagnetic location instrument.
	3	Statutory record information available at time of survey.
GPR	1	The radar reflects changes in the electrical properties of materials in the sub-surface. The data prevents definition of unknown targets.
	2	A PAS128 MP3P survey has been carried out across the site where possible.
	3	GPR images shown within this report, and are not necessarily indicative of actual routes / anomalies detected.
Others	1	Parked cars prevented full access to the survey area. Every effort was made to locate features which may have been obstructed. Where the extended survey area entered the carriageway, results are limited due to safety concerns.

Photos & GPR Images:

Photo 1



Description: General View of survey extents.

Photo 2



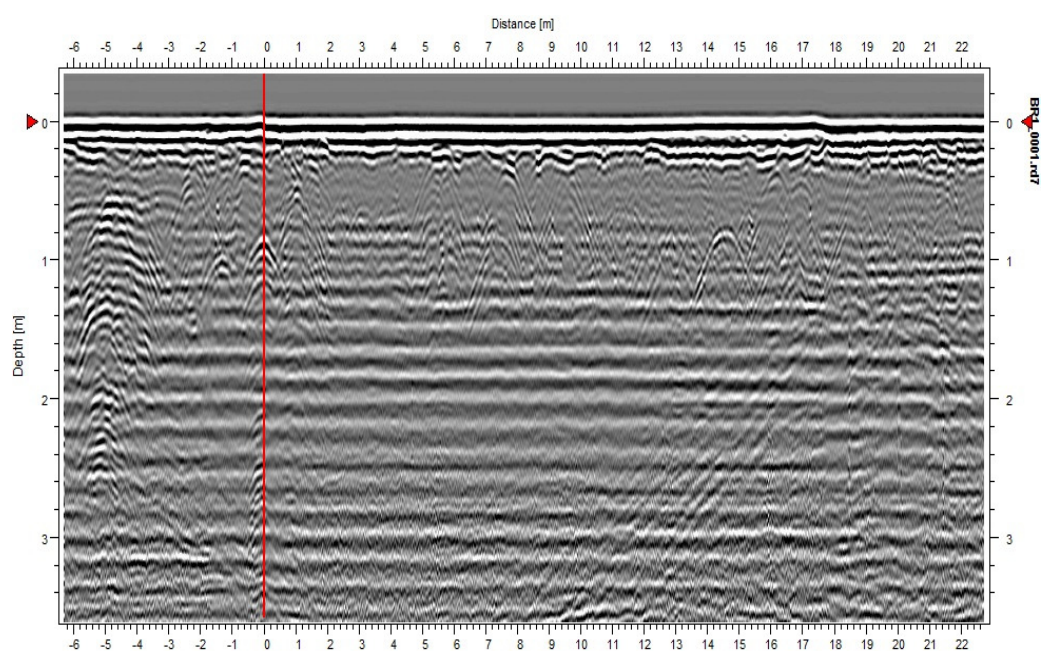
Description: General View of survey extents.

Photo 3



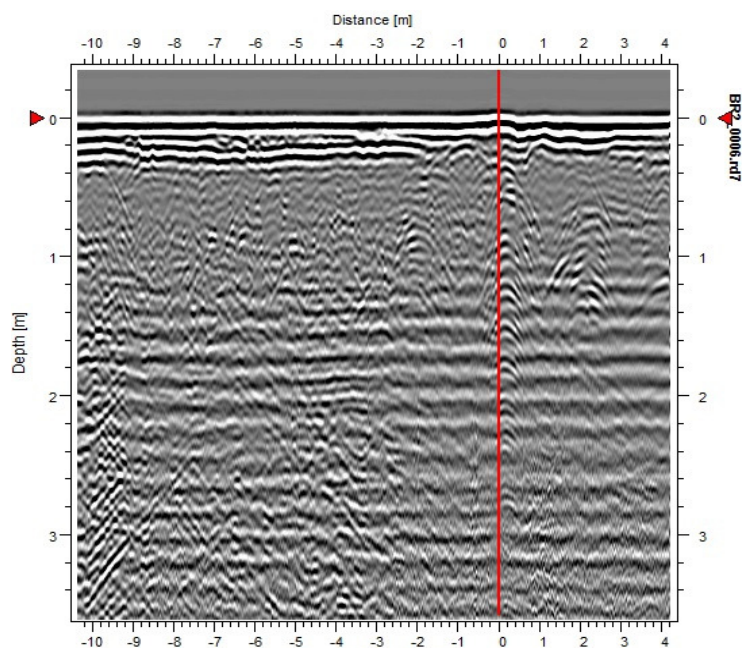
Description: General View of survey extents.

GPR 1



Description: GPR Image 1.

GPR 2



Description: GPR Image 2.

Site Notes:

1. Survey was undertaken in the areas defined by Arcadis.
2. Where utilities on site could not be proven or completed and the appropriate comments have been added to the drawing.
3. Services plotted outside survey extents should not be considered exhaustive.
4. Through non-intrusive surveying techniques, it always remains possible that there are additional services within the survey boundary that we have not been able to detect. We recommend that care is taken on site and that all service providers records should be checked prior to any works being carried out.
5. Existing service provider's records were not available during the site survey.

CAD Operators Comments:

1. Survey work corresponds to Utility Surveyor's fieldwork.
2. Services shown outside the survey extents should not be considered exhaustive.

QA Managers Comments:

1. All procedures have been followed.
2. Checked that all topographical features have utilities connected, or if not are appropriately notated.
3. Services shown outside the survey extents should not be considered exhaustive.

Project Managers Comments:

1. A full electromagnetic and GPR survey carried out across the site.
2. GPR works by emitting electromagnetic signals into the ground and analysing signal returns. The use of GPR is strongly dependent upon local soil properties. Depth of penetration is limited by the presence of clays or other highly conductive materials. There must be a significant electrical contrast between the target and the host materials.
3. If the survey interacts with any above ground metallic features this may hinder the survey therefore caution should be taken within those areas while excavating.
4. It is recommended that statutory authority records are acquired and read in conjunction with this information, as no guarantee can be made for the completeness of this drawing.