

LEGEND

Utility Survey Point Features

FH	Fire Hydrant	IC	IC - Electric	MHF	MH - Foul
GV	Gas Valve	ICR	IC - Round	MH	MH - Round
G	Gully	ICT	IC - Telecom	MHS	MH - Surface Water
GR	Gully Round	ICTC	IC - Traffic	SC	Stop Cock
IC	Inspection Cover	ICV	IC - CATV	WM	Water Meter
ICC	IC - Comms	MH	Manhole	WV	Water Valve

Utility Survey Linework Features

BT	Communications	E	Electrical
CATV	Cable TV	EE	Electrical Earth
CCTV	Closed Circuit TV	LV	Electrical - Low Volt
COMMS	Communications	HV	Electrical - High Volt
FOL	Fibre Optic Line	EHV	Electrical - Extra High Volt
FOLC	Fibre Optic Line - Colt	TFL	Electrical - TFL
FOLV	Fibre Optic Line - Virgin	SL	Street Lighting
FOLM	Fibre Optic Line - Mercury	TCSU	Traffic Control System Unit
FOLMF	Fibre Optic Line - MFSC	G	Gas Service
FOLN	Fibre Optic Line - Tarnet	GLP	Gas Low Pressure
FOLV	Fibre Optic Line - Virgin	GIP	Gas Intermediate Pressure
FOLW	Fibre Optic Line - Vodafone	GMP	Gas Medium Pressure
FOLX	Fibre Optic Line - WCOM	GHP	Gas High Pressure
TS	Telecom Service	GPR	GPR - Unknown
		ED	Empty Duct
		GPR	GPR Anomaly
		UA	Unknown Asset
		UAPS	UA Passive Sweep
		UCL	Unknown Cable
		GPR	GPR Site
			GPR Survey Area
			Chimney
			Manhole Chamber
			Manhole ID
			Pot End
			XX (AS) - Assumed Service
			Scope of Works

PAS128 Quality Levels
(Consult document 'PAS128:2014.pdf' for full details)

XX-A	Quality Level A	XX-B3	Quality Level B3
XX-B1	Quality Level B1	XX-B3P	Quality Level B3P
XX-B1P	Quality Level B1P	XX-B4	Quality Level B4
XX-B2	Quality Level B2	XX-C	Quality Level C
XX-B2P	Quality Level B2P	XX-D	Quality Level D

Special Survey Features

DATUM	Datum Point	E-XXXXXXX	Survey Station
12.24	Photo Point	N-YYYYYYY	Scan Target
	Panoramic Photo Point	H-ZZZZZ	

Utility Survey Abbreviations

AB	Abandoned	FLO	Flooded	TFR	Taken From Records
BLD	Blocked	IL	Invert Level	UTO	Unable to Open
CL	Cover Level	NT	No Trace	UTS	Unable to Survey
CUT	Disconnect Utility	OE	Overhead Electric	UNK	Unknown
EOG	End of GPR Signal	OT	Overhead Telecom	WL	Water Level
EOT	End of Trace	P	Pilot	XXd	Survey Depth - Grid to Top of Service
FOS	Full of Silt	SOF	Soft Level		

Utility Material Abbreviations

AC	Asbestos Cement	CC	Concrete Chamber	SI	Spun Iron
BC	Brick Chamber	DI	Ductile Iron	ST	Steel
CI	Cast Iron	PE	Polyethylene	WTR	Water

Murphy Geospatial Disclaimer

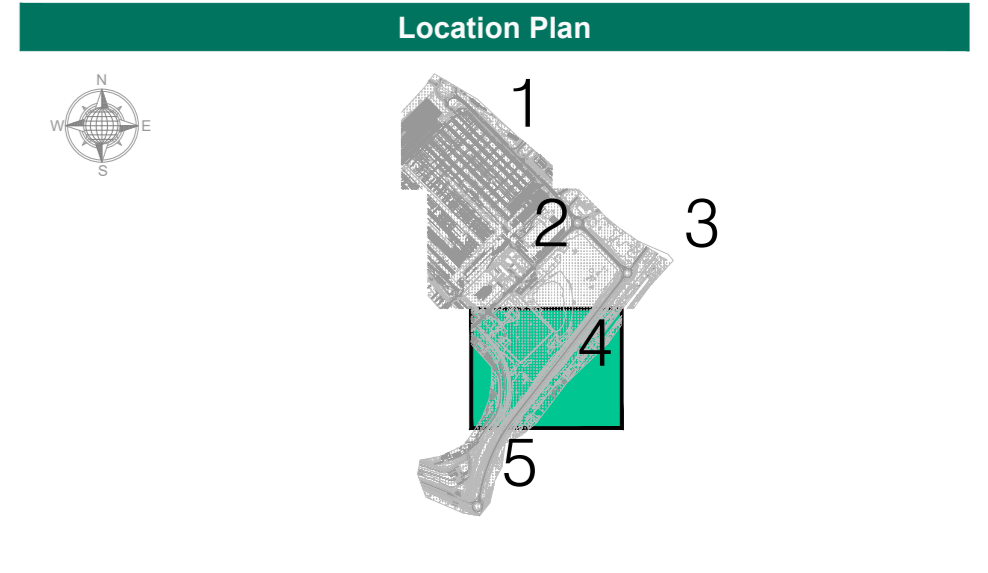
All reasonable endeavours have been used to capture the required data in the survey to the agreed standards of accuracy. Where features have been identified due to a lack of access, the areas will be annotated as 'UTS (Unable to Survey)'. The Company shall not be liable for any damages or consequential losses arising from the reliance on survey information beyond its specified scope and accuracy, or survey information used for purposes other than that stated in the Contract of Works.

Any concerns with the survey should be raised with Murphy Geospatial, who will endeavour to promptly provide a remedy. The Client shall not seek recourse through any third party until such time as Murphy Geospatial have had the opportunity to address any concerns raised.

Background Topographical Survey provided by client for indicative use only.

Quality Level-D Utility Linework all taken from STATS record documents, as highlighted in 'MGS49340 Utility Desktop Search Report 07'.

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Revisions

Rev	Description	Surveyed by	Drawn by	Checked by
A	Final Issue	DM - 26/10/22	MGB/TH - 01/11/22	MM - 01/11/22



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Client	Wood Group
Project	Green Lithium Refinery
Site Address	Kinkerdale Road Middlesbrough TS6 6UD
Description	Underground Utility Survey(PAS128)
Survey Grid	OSGB36(15) - Scale Factor 1.0
Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band F
Drawing Scale	1:200 @ A0
Drawing Number	MGS49340-U-A11-04