MANHOLE RECORD CARD

LOCATION	BIRDWELL ROUNDABOUT, BARNSLEY

NODE REFERENCE	MHD8
COORDINATES (m)	-,-
DRAINAGE AREA CODE	-
SURVEY DATE	08 Jun 2020

YEAR LAID	-		STATUS	PU	FUNCTION	S	NODE TYPE	M	COND ITION	SIZE (mm)			TOXIC ATMOSPHERE	N
COVER	SHAPE	D	HINGED	N	LOCK	N	DUTY	-	-	600	X	600	GAS TYPE	-
SHAFT	SIDE ENTRY	N	REGULAT COURSES	2	DEPTH (mm)	550			-	600	X	600	EVIDENCE OF VERMIN	N
CHAMBER	SOFFIT	S	STEPS	2	LADDERS	-	LNDGS	-	-	1200	X	1200	CONSTRUCTI ON CODE	P

STRUCTURAL CONDITION	-	MAINTENANCE CONDITION	-	DEPTH OF FLOW (mm)	-	DEPTH OF SILT (mm)	-	HEIGHT SURCH (mm)	-	COVER LEVEL (m AD)	-

INCOMING PIPES

	UPSTREAM REFERENCE	PIPE SHAPE	PIPE SIZE (mm)			BACKDROP DIAM (mm)	PIPE MATERIAL	LINING	DEPTH FROM COVER (m)	INVERT LEVEL (m AD)
A	OF12	C	150	X	-	-	PVC	-	1.480	
B	OF13	C	150	X	-	-	PVC	-	1.480	
C				X						
D				X						
E				X						
F				X						

OUTGOING PIPES

	DOWNSTREAM REFERENCE					COND	CRITY			
X	MHD8	C	225	X	-	-	-	PVC	-	1.500
Y				X						

CONDITION (Y if action required)	COVER	N	IRONS / LADDERS	N	SHAFT	N	CHAMBER	N	BENCHING	N	OTHER	N

REMARKS

-
-



LOCATION IMAGE -



INTERNAL IMAGE -

MANHOLE RECORD CARD

LOCATION	BIRDWELL ROUNDABOUT, BARNSLEY

NODE REFERENCE	MHD9
COORDINATES (m)	-,-
DRAINAGE AREA CODE	-
SURVEY DATE	08 Jun 2020

YEAR LAID	-		STATUS	PU	FUNCTION	S	NODE TYPE	M	COND ITION	SIZE (mm)			TOXIC ATMOSPHERE	N
COVER	SHAPE	D	HINGED	N	LOCK	N	DUTY	-	-	600	X	600	GAS TYPE	-
SHAFT	SIDE ENTRY	N	REGULAT COURSES	4	DEPTH (mm)	600			-	600	X	590	EVIDENCE OF VERMIN	N
CHAMBER	SOFFIT	S	STEPS	9	LADDERS	-	LNDGS	-	-	1200	X	1200	CONSTRUCTI ON CODE	P

STRUCTURAL CONDITION	-	MAINTENANCE CONDITION	-	DEPTH OF FLOW (mm)	-	DEPTH OF SILT (mm)	-	HEIGHT SURCH (mm)	-	COVER LEVEL (m AD)	-

INCOMING PIPES

	UPSTREAM REFERENCE	PIPE SHAPE	PIPE SIZE (mm)			BACKDROP DIAM (mm)	PIPE MATERIAL	LINING	DEPTH FROM COVER (m)	INVERT LEVEL (m AD)
A	MHD10	C	225	X	-	-	PVC	-	3.130	
B				X						
C				X						
D				X						
E				X						
F				X						

OUTGOING PIPES

	DOWNSTREAM REFERENCE					COND	CRITY			
X	MHD1	C	225	X	-	-	-	PVC	-	3.150
Y				X						

CONDITION (Y if action required)											
COVER	N	IRONS / LADDERS	N	SHAFT	N	CHAMBER	N	BENCHING	N	OTHER	N

REMARKS

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-



LOCATION IMAGE -



INTERNAL IMAGE -

MANHOLE RECORD CARD

LOCATION	BIRDWELL ROUNDABOUT, BARNSLEY

NODE REFERENCE	MHD10
COORDINATES (m)	-,-
DRAINAGE AREA CODE	-
SURVEY DATE	08 Jun 2020

YEAR LAID	-		STATUS	PU	FUNCTION	S	NODE TYPE	M	COND ITION	SIZE (mm)			TOXIC ATMOSPHERE	N
COVER	SHAPE	D	HINGED	N	LOCK	N	DUTY	-	-	600	X	600	GAS TYPE	-
SHAFT	SIDE ENTRY	N	REGULAT COURSES	2	DEPTH (mm)	450			-	590	X	590	EVIDENCE OF VERMIN	N
CHAMBER	SOFFIT	S	STEPS	6	LADDERS	-	LNDGS	-	-	1200	X	-	CONSTRUCTI ON CODE	P

STRUCTURAL CONDITION	-	MAINTENANCE CONDITION	-	DEPTH OF FLOW (mm)	-	DEPTH OF SILT (mm)	-	HEIGHT SURCH (mm)	-	COVER LEVEL (m AD)	-

		UPSTREAM REFERENCE	PIPE SHAPE	PIPE SIZE (mm)			BACKDROP DIAM (mm)	PIPE MATERIAL	LINING	DEPTH FROM COVER (m)	INVERT LEVEL (m AD)
INCOMING PIPES	A	MHD11	C	225	X	-	-	PVC	-	2.270	
	B				X						
	C				X						
	D				X						
	E				X						
	F				X						

		DOWNSTREAM REFERENCE					COND	CRITY			
OUTGOING PIPES	X	MHD9	C	225	X	-	-	-	PVC	-	2.270
	Y				X						

CONDITION (Y if action required)													
COVER	N	IRONS / LADDERS	N	SHAFT	N	CHAMBER	N	BENCHING	N	OTHER	N

REMARKS

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DEPTHS CHECKED 3 TIMES



LOCATION IMAGE -



INTERNAL IMAGE -

MANHOLE RECORD CARD

LOCATION	BIRDWELL ROUNDABOUT, BARNSLEY

NODE REFERENCE	MHD11
COORDINATES (m)	-,-
DRAINAGE AREA CODE	-
SURVEY DATE	08 Jun 2020

YEAR LAID	-		STATUS	PU	FUNCTION	S	NODE TYPE	M	COND ITION	SIZE (mm)			TOXIC ATMOSPHERE	N
COVER	SHAPE	D	HINGED	N	LOCK	N	DUTY	-	-	600	X	600	GAS TYPE	-
SHAFT	SIDE ENTRY	N	REGULAT COURSES	4	DEPTH (mm)	600			-	590	X	580	EVIDENCE OF VERMIN	N
CHAMBER	SOFFIT	S	STEPS	3	LADDERS	-	LNDGS	-	-	-	X	-	CONSTRUCTI ON CODE	P

STRUCTURAL CONDITION	-	MAINTENANCE CONDITION	-	DEPTH OF FLOW (mm)	-	DEPTH OF SILT (mm)	-	HEIGHT SURCH (mm)	-	COVER LEVEL (m AD)	-

		UPSTREAM REFERENCE	PIPE SHAPE	PIPE SIZE (mm)			BACKDROP DIAM (mm)	PIPE MATERIA L	LINING	DEPTH FROM COVER (m)	INVERT LEVEL (m AD)
INCOMING PIPES	A	MHD12	C	225	X	-	-	PVC	-	1.640	
	B	UNKNOWN	C	1150	X	-	-	PVC	-	1.640	
	C				X						
	D				X						
	E				X						
	F				X						

		DOWNSTREAM REFERENCE					COND	CRITY			
OUTGOING PIPES	X	MHD10	C	225	X	-	-	-	PVC	-	1.650
	Y				X						

CONDITION (Y if action required)	COVER	N	IRONS / LADDERS	N	SHAFT	N	CHAMBER	N	BENCHING	N	OTHER	N

REMARKS

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LOCATION IMAGE -



INTERNAL IMAGE -

MANHOLE RECORD CARD

LOCATION	BIRDWELL ROUNDABOUT, BARNSLEY

NODE REFERENCE	MHD12
COORDINATES (m)	-,-
DRAINAGE AREA CODE	-
SURVEY DATE	08 Jun 2020

YEAR LAID	-		STATUS	PU	FUNCTION	S	NODE TYPE	M	COND ITION	SIZE (mm)			TOXIC ATMOSPHERE	N
COVER	SHAPE	D	HINGED	N	LOCK	N	DUTY	-	-	600	X	600	GAS TYPE	-
SHAFT	SIDE ENTRY	N	REGULAT COURSES	4	DEPTH (mm)	600			-	600	X	600	EVIDENCE OF VERMIN	N
CHAMBER	SOFFIT	S	STEPS	3	LADDERS	-	LNDGS	-	-	1200	X	1200	CONSTRUCTI ON CODE	P

STRUCTURAL CONDITION	-	MAINTENANCE CONDITION	-	DEPTH OF FLOW (mm)	-	DEPTH OF SILT (mm)	-	HEIGHT SURCH (mm)	-	COVER LEVEL (m AD)	-

INCOMING PIPES

	UPSTREAM REFERENCE	PIPE SHAPE	PIPE SIZE (mm)			BACKDROP DIAM (mm)	PIPE MATERIAL	LINING	DEPTH FROM COVER (m)	INVERT LEVEL (m AD)
A	OF19	C	150	X	-	-	PVC	-	1.630	
B				X						
C				X						
D				X						
E				X						
F				X						

OUTGOING PIPES

	DOWNSTREAM REFERENCE					COND	CRITY			
X	MHD11	C	225	X	-	-	-	PVC	-	1.640
Y				X						

CONDITION (Y if action required)											
COVER	N	IRONS / LADDERS	N	SHAFT	N	CHAMBER	N	BENCHING	N	OTHER	N

REMARKS

-
-



LOCATION IMAGE -



INTERNAL IMAGE -

MANHOLE RECORD CARD

LOCATION	BIRDWELL ROUNDABOUT, BARNSLEY

NODE REFERENCE	CP3
COORDINATES (m)	-,-
DRAINAGE AREA CODE	-
SURVEY DATE	08 Jun 2020

YEAR LAID	-		STATUS	PU	FUNCTION	S	NODE TYPE	M	COND ITION	SIZE (mm)			TOXIC ATMOSPHERE	N
COVER	SHAPE	D	HINGED	N	LOCK	N	DUTY	-	-	600	X	600	GAS TYPE	-
SHAFT	SIDE ENTRY	N	REGULAT COURSES	3	DEPTH (mm)	540			-	600	X	600	EVIDENCE OF VERMIN	N
CHAMBER	SOFFIT	S	STEPS	5	LADDERS	-	LNDGS	-	-	1200	X	-	CONSTRUCTI ON CODE	P

STRUCTURAL CONDITION	-	MAINTENANCE CONDITION	-	DEPTH OF FLOW (mm)	200	DEPTH OF SILT (mm)	-	HEIGHT SURCH (mm)	-	COVER LEVEL (m AD)	-

		UPSTREAM REFERENCE	PIPE SHAPE	PIPE SIZE (mm)			BACKDROP DIAM (mm)	PIPE MATERIA L	LINING	DEPTH FROM COVER (m)	INVERT LEVEL (m AD)
INCOMING PIPES	A	AC4	C	150	X	-	-	VC	-	1.480	
	B	AC5	C	150	X	-	-	VC	-	1.450	
	C				X						
	D				X						
	E				X						
	F				X						

		DOWNSTREAM REFERENCE					COND	CRITY			
OUTGOING PIPES	X	UNKNOWN	C	225	X	-	-	-	PVC	-	1.470
	Y				X						

CONDITION (Y if action required)	COVER	N	IRONS / LADDERS	N	SHAFT	N	CHAMBER	N	BENCHING	N	OTHER	N

REMARKS

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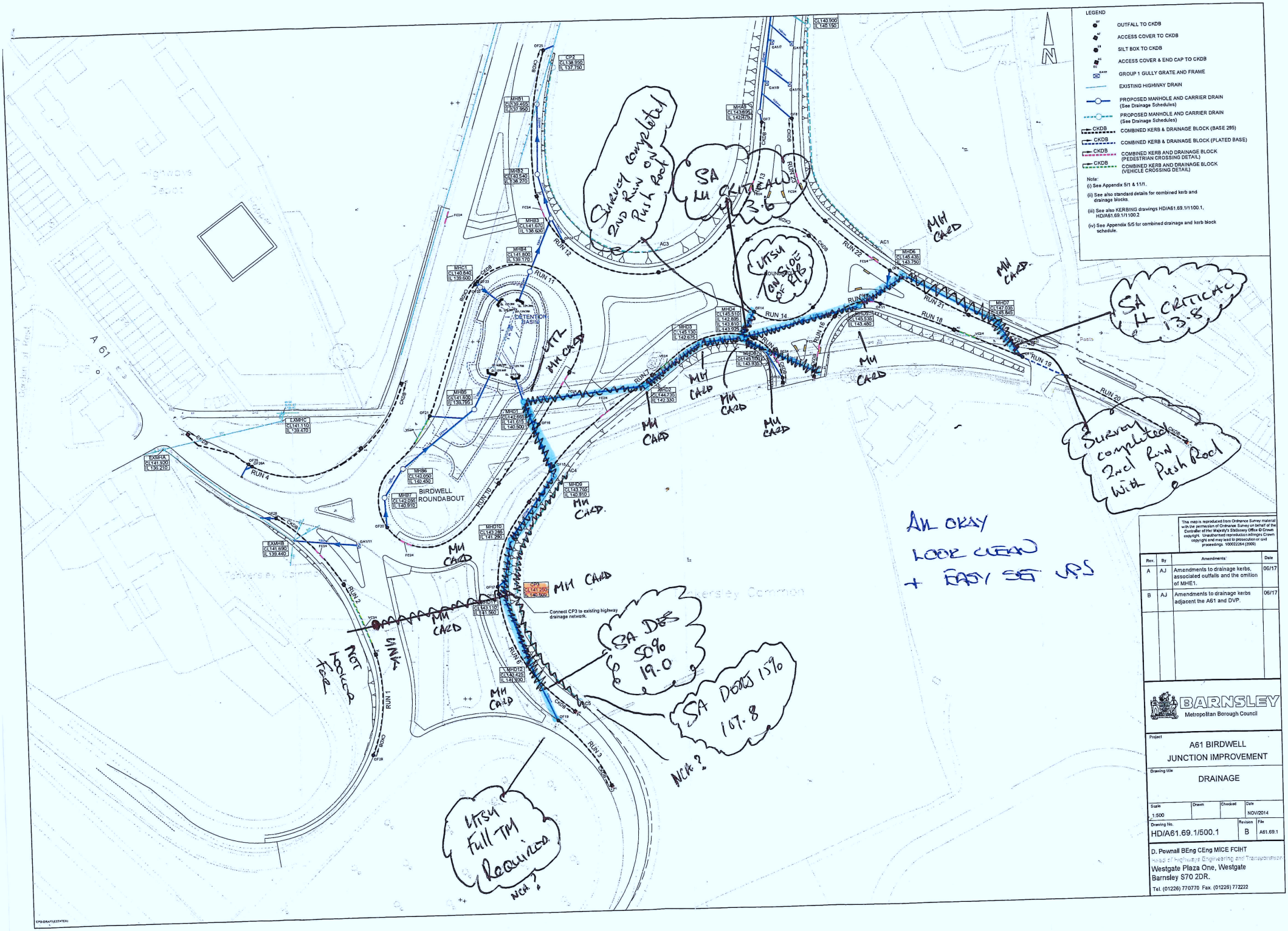
TOTAL DEPTH OF CATCH PIT 1.800



LOCATION IMAGE -



INTERNAL IMAGE -


LEGEND
OUTFALL TO CKDB
ACCESS COVER TO CKDB
SILT BOX TO CKDB
ACCESS COVER & END CAP TO CKDB
GROUP 1 GULLY GRATE AND FRAME
EXISTING HIGHWAY DRAIN
PROPOSED MANHOLE AND CARRIER DRAIN (See Drainage Schedules)
PROPOSED MANHOLE AND CARRIER DRAIN (See Drainage Schedules)
COMBINED KERB & DRAINAGE BLOCK (BASE 295)
COMBINED KERB & DRAINAGE BLOCK (PLATED BASE)
COMBINED KERB AND DRAINAGE BLOCK (PEDESTRIAN CROSSING DETAIL)
COMBINED KERB AND DRAINAGE BLOCK (VEHICLE CROSSING DETAIL)
Note:
(i) See Appendix 5/1 & 11/1.
(ii) See also standard details for combined kerb and drainage blocks.
(iii) See also KERBING drawings HD/A61.69.1/1100.1, HD/A61.69.1/1100.2
(iv) See Appendix 5/5 for combined drainage and kerb block schedule.
N
Survey completed 2ND RUN ON Push Rod
SA M CRITICAL 13.5
UTSW COMPLETE OF PIPE
MH CARD
SA M CRITICAL 13.5
Survey completed 2nd Run With Push Rod
DETENTION BASIN
BIRDWELL ROUNDABOUT
Connect CP3 to existing highway drainage network.
SA DES 50% 19.0
SA DES 15% 107.8
NCA ?
UTSW Full TM Required
NCA ?
AM OKAY
LOOK CLEAN
+ EASY SET UPS
This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. 100022264 (2009)
Rev. | By | Amendments | Date
A | AJ | Amendments to drainage kerbs, associated outfalls and the omition of MHE1. | 06/17
B | AJ | Amendments to drainage kerbs adjacent the A61 and DVP. | 06/17
BARNSLEY Metropolitan Borough Council
Project
A61 BIRDWELL JUNCTION IMPROVEMENT
Drawing title
DRAINAGE
Scale 1:500
Drawn
Checked
Date NOV/2014
Drawing No. HD/A61.69.1/500.1
Revision B
File A61.69.1
D. Pownall BEng CEng MICE FCIHT
Head of Highways Engineering and Transportation
Westgate Plaza One, Westgate
Barnsley S70 2DR.
Tel. (01226) 770770 Fax. (01226) 772222



OnSite Surveying

Above Ground Surveying

OnSite offers a range of 'above ground' investigation services which form a solid basis for pre-planning system extension, remedial work and maintenance programmes for drains and sewers. These include:

- Impermeable Area Studies
- Drainage Area Studies
- Feasibility Studies
- Pumping Station Surveys
- Topographic Surveys
- GPS Asset Surveys
- Asset Tracing and Digital Mapping (CAD)
- Utility Mapping

Below Ground Surveying

Complementing surface investigation services, OnSite provides a complete package of sub-surface surveying and inspection techniques that present a comprehensive picture of wastewater networks; including condition assessment of individual assets that highlight areas of hydraulic inadequacy, blockages or failure. These include:

- CCTV Surveys
- Sonar Surveys
- Manhole Surveys
- Confined Space Man Entry Surveys
- Connectivity Surveys

OnSite Services:

Flow Surveys: short term surveys to validate/verify asset modeling & long term surveys to proactively manage assets

CCTV Surveying: sewer & drain condition inspection surveys including sonar inspections of water filled assets

Jetting / Cleaning: sewer/drain de-silting, de-scaling, root cutting with specialist long reach difficult access capabilities

Pipeline Rehabilitation: including full length lining, patch repairs and robotic cutting

Civil Engineering: remedial Works, R&M, dig downs and specialist civils works for drainage

Temporary Dams: for flood defence & to create dry working areas for inspection/maintenance of water borne structures

Water Mains Cleaning: Typhoon jetting system to remove elemental debris deposited on pipe walls

Spillage Containment: automated drainage valves to enable containment of spills, pollutants or firewater

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