

Project information

Job Number
RS100215

Surveyed by
Ricky Smith

Base Unit
E1CPYKDBWI

Date:
09/02/2015

Client Details:

Chris Taylor
As Site

Site Details:

23a Ravenshaw Street
London
NW6 1NP

Contractor Details:

206 Hutton Road
Shenfield
Essex, CM15 8NR

Notes:

1:4 Electronic Book
 1:4 Survey
 1:4 Survey
 1:4 Survey
 1:4 Survey

NSA LANDSURVEY LIMITED

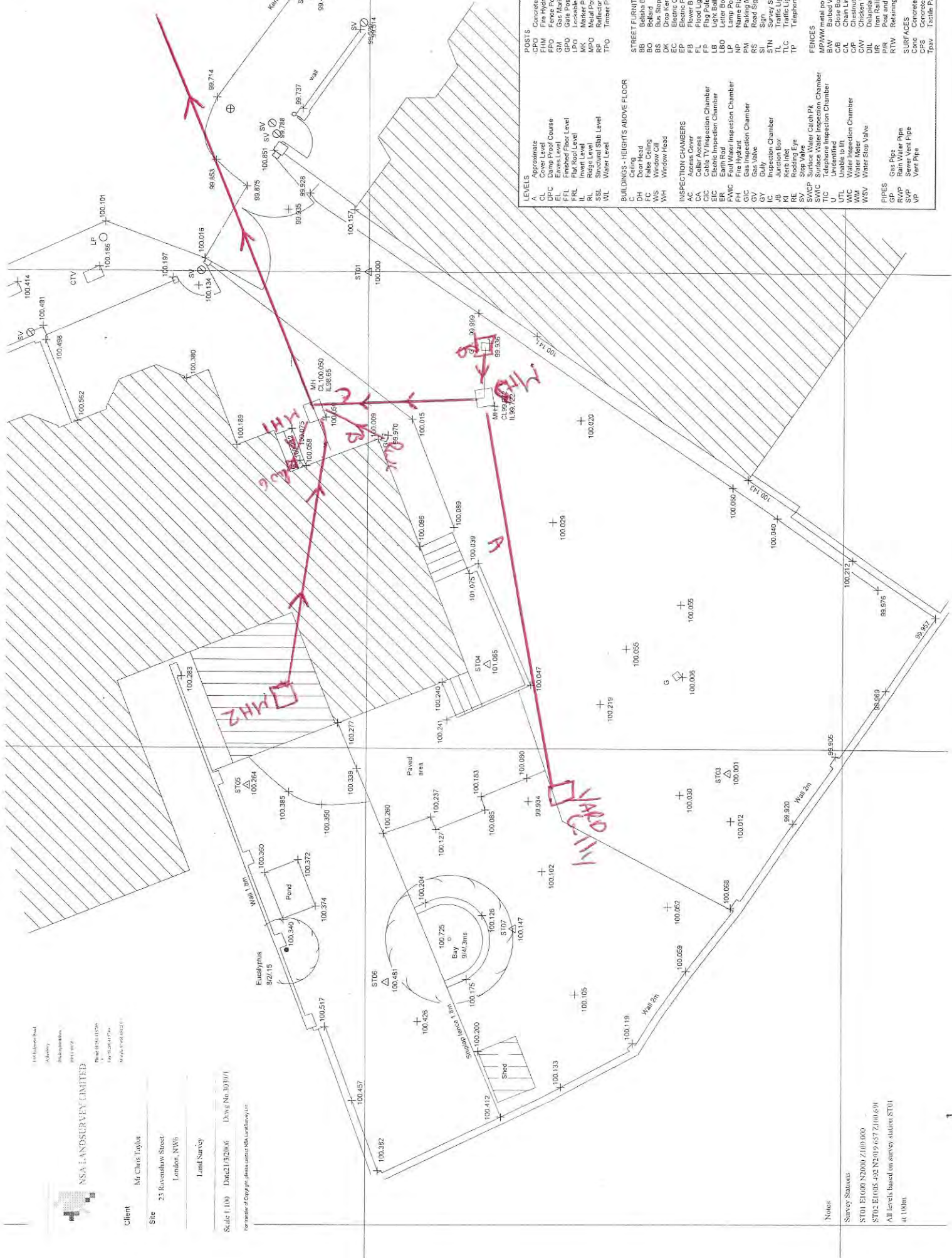
Client Mr Chris Taylor

Site 25 Rowlandsway Street
 London, NW6

Land Survey

Scale 1:100 Date 21/12/16/16 Draw No. 303/1

For number of Copyright, please contact NSA Land Survey Ltd.



LEVELS	POSTS
A. Approximate	Concrete Post
B. DPC	Fire Hydrant
C. EL	Flag Pole
D. FFL	Gate
E. FFL	Gate Post
F. FFL	Lockable Post
G. FFL	Marker Post
H. FFL	Marker Post
I. FFL	Marker Post
J. FFL	Marker Post
K. FFL	Marker Post
L. FFL	Marker Post
M. FFL	Marker Post
N. FFL	Marker Post
O. FFL	Marker Post
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GT. FFL	Marker Post
GU. FFL	Marker Post
GV. FFL	Marker Post
GW. FFL	Marker Post
GX. FFL	Marker Post
GY. FFL	Marker Post

BUILDINGS - HEIGHTS ABOVE FLOOR	STREET FURNITURE
DH. Down Road	Concrete Post
FC. False Ceiling	Fire Hydrant
WS. Window Sill	Flag Pole
WH. Window Head	Gate
AC. Access	Gate Post
CA. Cellar Access	Lockable Post
CIC. Cable TV Inspection Chamber	Marker Post
EIC. Electric Inspection Chamber	Marker Post
FIC. Fire Inspection Chamber	Marker Post
GIC. Gas Inspection Chamber	Marker Post
IV. Inlet Valve	Marker Post
JIC. Junction Chamber	Marker Post
KB. Kerb Inlet	Marker Post
KL. Kerb Light	Marker Post
STN. Survey Station	Marker Post
SWICP. Surface Water Catch Pit	Marker Post
SWIC. Surface Water Inspection Chamber	Marker Post
TIC. Telephone Inspection Chamber	Marker Post
UB. Unidentified	Marker Post
UTL. Utility	Marker Post
WIC. Water Inspection Chamber	Marker Post
WM. Water Meter	Marker Post
WSV. Water Stop Valve	Marker Post
PIPES	Concrete Post
GP. Gas Pipe	Concrete Post
RWP. Rain Water Pipe	Concrete Post
SYP. Sewer Vent Pipe	Concrete Post
VP. Vent Pipe	Concrete Post

Notes:
 Survey Stations
 ST01 E1000 82000 7100 600
 ST02 E1005 492 N2019 657 7100 600
 All levels based on survey station ST01
 at 100m

Defect Grade Description

1: Occurances without damage: for example, laterals, joints, etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurances with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Contructional deficiencies diminishing static, hydraulic and tightness: Eg. open joints, untorched intakes, cracks, minor drainage obstructions such as calcide build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with nonsufficient static safety, hydraulic or tightness: Eg. axial/radial pipebursts, pipe deformations, visually noticable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS.
NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE,
NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 1 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 3 / 0	Base unit: E1CPYKDBWI	Section number: 1

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -
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Purpose: - Duty: Foul Catchment: -	Shape/Size: 150mm Material: Vitrified clay Category: -	start MH: 1 end MH: LAS Total length: 1.00
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Scale: 1:9 Direction: Downstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 I/L: 1.4 metres				
0.00	ST	Start of Survey Length	1/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	1/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	1/4.jpg	Comment / 0
1.00	REM	Enter comment here...	1/5.jpg	Comment / 0
1.00	DER	Settled deposits coarse 15% cross-sectional area loss, Start	1/6.jpg	Service / 3
3				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
1

Pipe length Reference (PLR):
1 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Enter comment here...



Settled deposits coarse 15% cross-sectional area loss, Start

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 1 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 3 / 0	Base unit: E1CPYKDBWI	Section number: 2

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -
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Purpose: - Duty: Foul Catchment: -	Shape/Size: 150mm Material: Vitrified clay Category: -	start MH: 1 end MH: LAS Total length: 13.38
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Scale: 1:125 Direction: Downstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 I/L: 1.4 metres				
0.00	ST	Start of Survey Length	2/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	2/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	2/4.jpg	Comment / 0
1.50	DEE	Attached deposits, encrustation at 5 o'clock 10% cross-sectional area loss	2/5.jpg	Service / 3
6.13	REM	At boundary approx sewer depth 2.5	2/6.jpg	Comment / 0
13.38	REM	LAS Reached	2/7.jpg	Comment / 0
M/H Ref: LAS I/L: 3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
2

Pipe length Reference (PLR):
1 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Attached deposits, encrustation at 5 o'clock 10% cross-sectional area loss



At boundary approx sewer depth 2.5



LAS Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 2 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 3

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -
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Purpose: - Duty: Foul Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 end MH: 2 Total length: 8.13
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Scale: 1:76 Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 I/L: 1.4 metres				
0.00	ST	Start of Survey Length	3/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	3/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	3/4.jpg	Comment / 0
8.13	MHF	Finish node type, manhole, reference number 2	3/5.jpg	Comment / 0
M/H Ref: 2 I/L: 1 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
3

Pipe length Reference (PLR):
2 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Finish node type, manhole, reference number 2

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Rwg X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 4

Road: 23a Ravenshaw Street Place: - London Location: NW61NP	Division: - District: Location Details: -
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Purpose: - Duty: Foul Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 br/a end MH: Rwg Total length: 1.63
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Scale: 1:15 Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 br/a I/L: 1.4 metres				
0.00	ST	Start of Survey Length	4/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	4/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	4/4.jpg	Comment / 0
1.13	LU	Line of drain/sewer deviates up half	4/5.jpg	Comment / 0
1.63	REM	RWG Reached	4/7.jpg	Comment / 0
M/H Ref: Rwg I/L: 0.3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
4

Pipe length Reference (PLR):
Rwg X

Place:

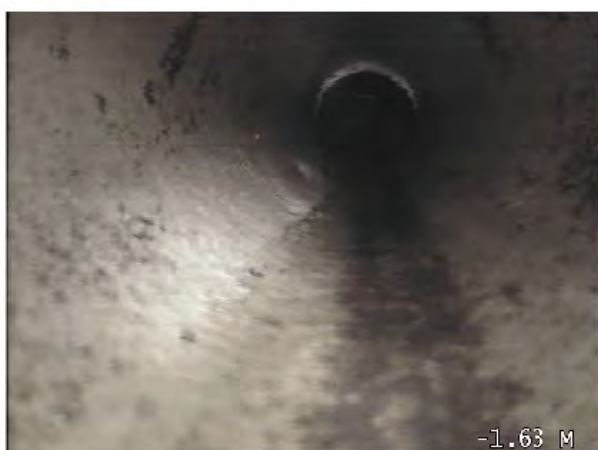
Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Line of drain/sewer deviates up half



RWG Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Rwg X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 5

Road: 23a Ravenshaw Street Place: - London Location: NW61NP	Division: - District: Location Details: -
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Purpose: - Duty: Combined Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 br/b end MH: Rwg Total length: 1.88
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Scale: **1:18** Direction: **Upstream**

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 br/b I/L: 1.4 metres				
	<p>0.00 ST Start of Survey Length</p> <p>0.00 SN Start node type: Manhole</p> <p>0.00 WL Water level 0% height/diameter</p>	<p>5/2.jpg Comment / 0</p> <p>5/3.jpg Comment / 0</p> <p>5/4.jpg Comment / 0</p>	<p>Comment / 0</p> <p>Comment / 0</p> <p>Comment / 0</p>	
<p>1.88</p>	<p>REM</p>	<p>Rwg Reached</p>	<p>5/5.jpg</p>	<p>Comment / 0</p>
M/H Ref: Rwg I/L: 0.3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
5

Pipe length Reference (PLR):
Rwg X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Rwg Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 3 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 6

Road: 23a Ravenshaw Street Place: - London Location: NW61NP	Division: - District: Location Details: -
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Purpose: - Duty: Combined Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 br/c end MH: 3 Total length: 4.63
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Scale: **1:43** Direction: **Upstream**

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 br/c IL: 1.4 metres				
0.00	ST	Start of Survey Length	6/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	6/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	6/4.jpg	Comment / 0
4.63	REM	Mh 3 Reached	6/5.jpg	Comment / 0
M/H Ref: 3 IL: 0.3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
6

Pipe length Reference (PLR):
3 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Mh 3 Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Yard GullyX	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 4 / 0	Base unit: E1CPYKDBWI	Section number: 7

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -
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Purpose: - Duty: Combined Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 3 br/a end MH: Yard Gully Total length: 10.25
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Scale: 1:96 Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 3 br/a I/L: 0.3 metres				
0.00	ST	Start of Survey Length	7/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	7/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	7/4.jpg	Comment / 0
9.38	DEB	Settled deposits coarse 25% cross-sectional area loss, Start	7/5.jpg	Service / 4
10.25	REM	Yard gully Reached	7/6.jpg	Comment / 0
M/H Ref: Yard Gully I/L: 0.2 metres				

CCTV Inspection Photos

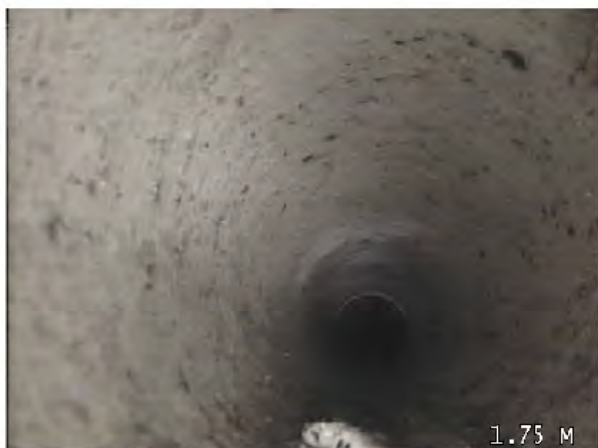
Date:
09/02/2015

Section Number:
7

Pipe length Reference (PLR):
Yard GullyX

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Settled deposits coarse 25% cross-sectional area loss, Start



Yard gully Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Yard GullyX	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 8

Road: 23a Ravenshaw Street Place: - London Location: NW61NP	Division: - District: Location Details: -
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Purpose: - Duty: Combined Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 3 br/b end MH: Yard Gully Total length: 0.88
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Scale: **1:8** Direction: **Upstream**

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 3 br/b I/L: 0.3 metres				
0.00	ST	Start of Survey Length	8/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	8/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	8/4.jpg	Comment / 0
0.88	REM	Yard Gully	8/5.jpg	Comment / 0
M/H Ref: Yard Gully I/L: 0.2 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
8

Pipe length Reference (PLR):
Yard GullyX

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Yard Gully

Structural Defects (SRM 4)

Date:
09/02/2015

No.	PLR	Dir.	Use	Shape/ Size	Date	Mat.	Total Length	Insp. Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	1 X	D	F	150	09/02/2015	VC	1.00	1.00	-	0	0	0	0
2	1 X	D	F	150	09/02/2015	VC	13.38	13.38	-	0	0	0	0
3	2 X	U	F	100	09/02/2015	VC	8.13	8.13	-	0	0	0	0
4	Rwg X	U	F	100	09/02/2015	VC	1.63	1.63	-	0	0	0	0
5	Rwg X	U	C	100	09/02/2015	VC	1.88	1.88	-	0	0	0	0
6	3 X	U	C	100	09/02/2015	VC	4.63	4.63	-	0	0	0	0
7	Yard GullyX	U	C	100	09/02/2015	VC	10.25	10.25	-	0	0	0	0
8	Yard GullyX	U	C	100	09/02/2015	VC	0.88	0.88	-	0	0	0	0

Service Defects (SRM 4)

Date:
09/02/2015

No.	PLR	Dir.	Use	Shape/ Size	Date	Mat.	Total Length	Insp. Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	1 X	D	F	150	09/02/2015	VC	1.00	1.00	-	2	3	2.00	2
2	1 X	D	F	150	09/02/2015	VC	13.38	13.38	-	2	3	2.00	2
3	2 X	U	F	100	09/02/2015	VC	8.13	8.13	-	0	0	0	0
4	Rwg X	U	F	100	09/02/2015	VC	1.63	1.63	-	0	0	0	0
5	Rwg X	U	C	100	09/02/2015	VC	1.88	1.88	-	0	0	0	0
6	3 X	U	C	100	09/02/2015	VC	4.63	4.63	-	0	0	0	0
7	Yard GullyX	U	C	100	09/02/2015	VC	10.25	10.25	-	5	4	5.00	5
8	Yard GullyX	U	C	100	09/02/2015	VC	0.88	0.88	-	0	0	0	0

Report summary

Date:
09/02/2015

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,

Job Information:

Total distance surveyed (M): 41.78
 Engineer: Ricky Smith
 Number of surveys: 8
 Number of surveys grade 4 or above: 0

Section 1 overview

Manholes: 1 to LAS
 Pipelength: 1.00
 Grade: 0
 Material: Vitrified clay
 Pipe size: 150
 Use: Foul

Section 2 overview

Manholes: 1 to LAS
 Pipelength: 13.38
 Grade: 0
 Material: Vitrified clay
 Pipe size: 150
 Use: Foul

Section 3 overview

Manholes: 1 to 2
 Pipelength: 8.13
 Grade: 0
 Material: Vitrified clay
 Pipe size: 100
 Use: Foul

Section 4 overview

Manholes: 1 br/a to Rwg
 Pipelength: 1.63
 Grade: 0
 Material: Vitrified clay
 Pipe size: 100
 Use: Foul

Report summary

Date:
09/02/2015

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,

Section 5 overview

Manholes: 1 br/b to Rwg
Pipelength: 1.88
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined

Section 6 overview

Manholes: 1 br/c to 3
Pipelength: 4.63
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined

Section 7 overview

Manholes: 3 br/a to Yard Gully
Pipelength: 10.25
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined

Survey comments:

HPWJ CLEAN RECOMMENDED

Section 8 overview

Manholes: 3 br/b to Yard Gully
Pipelength: 0.88
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined