

# CCTV Drain Survey

Date: 11<sup>th</sup> September, 2023

Prepared by Matthew McClusky

Client: CEB Services (UK) Ltd  
Site: Premier House  
Blackfriars Street  
Salford  
M3 5JR



Clearwater House, Unit 20a, Newby Road Industrial Estate,  
Hazel Grove, Stockport SK7 5DA

T: 0161 483 2298 E: [enquiries@drainageconsultantsltd.co.uk](mailto:enquiries@drainageconsultantsltd.co.uk)

Mike Cox  
CEB Services (UK) Ltd  
Irlam  
M44 6RA

Dear Mike,

**Re: CCTV Drain Survey - Premier House, Blackfriars Street, Salford, M3 5JR**

Following our receipt of your order and as requested our engineers have attended the above mentioned site. The purpose of our visit was to carry out a CCTV Survey of the required drainage lines in order to establish the condition, location and connectivity.

The following report highlights our findings on site, and where necessary we have put forward recommendations for repairs to be carried out on the drainage system. We would strongly recommend that all repairs that have been identified are completed to prevent further defects arising. The drainage system has been designed to work in a particular way – any defects identified could be preventing the drainage system from performing as it should.

Here at Drainage Consultants Ltd. we regularly research the market to ensure that our clients are receiving extremely competitive quotations for drain repairs.

Please find below our summary of the survey, along with the detailed survey log sheets, and the survey footage.



### Findings & Recommendations

RWDP-3 (Floor-1) downstream to Discharge

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically down to 5.8m

5.9m – Debris/silt build up, 20%

6.0m – The survey was abandoned, (unable to pass debris/silt).

The blockage within the above drainage line has since been removed.

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RWDP-6 (Floor-1) downstream to Discharge

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically down to 6.5m

6.5m – Obstruction from 12 to 12 o'clock, 75%

6.5m – The survey was abandoned, (unable to pass obstruction).

The blockage within the above drainage line has since been removed.

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Manhole-1 Branch-1 upstream to Head of Line

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.2m – Material changes to cast iron

9.8m – The survey finished at the head of line.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-1 Branch-3 upstream to Head of Line

The drain surveyed is a circular 100mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

7.1m – The survey finished at the head of line.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-1 upstream to Head of Line

The drain surveyed is a circular 100mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

3.1m – The survey finished at the head of Line.

The above drainage line does not exhibit any evident defects at this present time.

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#### Manhole-1 Branch-2 upstream to Head of Line

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.2m – Material changes to cast iron

9.6m – Line deviates up, 90°

9.6m – The survey finished at the vertical section of the drain.

The above drainage line does not exhibit any evident defects at this present time.

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#### Manhole-2 upstream to Head of Line

The drain surveyed is a circular 150mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

17.5m – The survey finished inside of Manhole-1.

The above drainage line does not exhibit any evident defects at this present time.

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#### Manhole-3 upstream to Manhole-2.

The drain surveyed is a circular 150mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

16.0m – The survey finished inside of Manhole-2

The above drainage line does not exhibit any evident defects at this present time.

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#### Manhole-4 downstream to Discharge

The drain surveyed is a circular 225mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

18.5m – The survey finished at the discharge.

The above drainage line does not exhibit any evident defects at this present time.

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#### Manhole-3 downstream to Manhole-4

The drain surveyed is a circular 225mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

4.1m – Silt build up, 20% to 7.4m

12.3m – The survey finished inside of Manhole-4.

We recommend the below work:

Carry out Specialist Mechanical Picote Cleaning in order to clear the drainage line and a resurvey will be required to establish the full condition of the pipework.

Please see the end of the summary for the cost.

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#### Manhole-5 Branch-2 upstream to Head of Line

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

9.6m – The survey finished at the head of line.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-5 Branch-4 upstream to Head of Line

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

3.8m – The survey finished at the head of line.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-5 Branch-1 upstream to Head of Line

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 10%

0.1m – Material changes to cast iron

4.0m – Water level, 0-5%

21.0m – Line deviates up, 90°

21.0m – The survey finished at the vertical section of the drain.

The above drainage line does not exhibit any evident defects at this present time.

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#### Manhole-6 Branch-1 upstream to Manhole-7

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 10%

0.0m – Silt/stones build up, 20%

0.1m – Material changes to cast iron

1.8m – Encrustation from 03 to 09 o'clock, 20% (throughout)

11.5m – The survey finished inside of Manhole-7.

We recommend the below work:

Carry out Specialist Mechanical Picote Cleaning in order to clear the drainage line and a resurvey will be required to establish the full condition of the pipework.

Please see the end of the summary for the cost.

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#### Manhole-7 Branch-2 upstream to RWDP-7

The drain surveyed is a circular 100mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.0m – Material changes to cast iron

7.7m – The survey finished inside of RWDP-7.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-6 upstream to Manhole-5

The drain surveyed is a circular 150mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

11.2m – The survey finished inside of Manhole-5.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-8 upstream to Manhole-6

The drain surveyed is a circular 150mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Camera underwater to 1.9m

1.9m – Water level, 0-5%

11.5m – The survey finished inside of Manhole-6.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-10 downstream to Discharge

The drain surveyed is a circular 225mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 10%

7.4m – Water level, 20%

10.8m – The survey finished at the discharge.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-8 downstream to Manhole-9

The drain surveyed is a circular 225mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

7.5m – The survey finished inside of Manhole-9.

The above drainage line does not exhibit any evident defects at this present time.

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Manhole-9 downstream to Manhole-10

The drain surveyed is a circular 225mm diameter vitrified clay pipe transporting surface water.

The below observations have been made:

0.0m – Water level, 0-5%

0.1m – Material changes to cast iron

11.5m – Water level, 10%

13.5m – The survey finished inside of Manhole-10.

The above drainage line does not exhibit any evident defects at this present time.

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RWDP-7 (Floor-3) upstream to Head of Line

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically up

0.0m – Obstruction from 12 to 12 o'clock, 100%

8.2m – The survey was abandoned, (unable to pass obstruction).

The blockage within the above drainage line has since been removed.

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RWDP-2 (Floor-3) upstream to Head of Line

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically

3.6m – The survey finished (floor-1).

The above drainage line does not exhibit any evident defects at this present time.

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RWDP-1 (Floor-1) downstream to Discharge

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically down

4.9m – The survey finished at floor-3.

The above drainage line does not exhibit any evident defects at this present time.

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RWDP-2 (Floor-1) downstream to Discharge

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically down to 0.6m

5.8m – Silt build up, 20%

6.0m – The survey finished at the restbend.

The blockage within the above drainage line has since been removed.

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RWDP-1 (Floor-1) upstream to Head of Line

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically up

0.4m – Encrustation from 12 to 12 o'clock, 75%

0.4m – The survey was abandoned, (unable to pass encrustation).

The blockage within the above drainage line has since been removed.

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RWDP-2 (Floor-1) upstream to Head of Line

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically up

0.3m – Encrustation from 03 to 09 o'clock, 50%

0.4m – The survey was abandoned, (unable to pass encrustation).

The blockage within the above drainage line has since been removed.

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RWDP-5 (Floor-1) upstream to Head of Line

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically up

1.0m – Obstruction from 12 to 12 o'clock, 100% (concrete/obstruction)

1.0m – The survey was abandoned, (unable to pass obstruction).

The blockage within the above drainage line has since been removed.

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RWDP-5 (Floor-1) downstream to Discharge

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically down to 6.0m

6.1m – Silt/stone build up, 25%

6.1m – The survey was abandoned, (unable to pass silt/stones).

The blockage within the above drainage line has since been removed.

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RWDP-4 (Floor-1) downstream to Discharge

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically down to 4.0m

4.0m – The survey finished at floor-3.

The above drainage line does not exhibit any evident defects at this present time.

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RWDP-4 (Floor-1) upstream to Head of Line

The drain surveyed is a circular 75mm diameter cast iron pipe transporting surface water.

The below observations have been made:

0.0m – Camera travelling vertically up

0.4m – Obstruction from 12 to 12 o'clock, 90% (rock)

0.4m – The survey was abandoned, (unable to pass rock).

The blockage within the above drainage line has since been removed.

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Whilst on site our engineers found scale within the cast iron pipework to be reducing the diameter of the pipework. In order to thoroughly clear the cast iron pipework Specialist Mechanical Picote Cleaning and High Pressure Water Jetting will be required from the surveyed manholes. Please note all lines are flowing freely.

The cost for this is £4,350.00 Plus VAT (2 Man Team, Large Picote, Tow Behind Jetting & Smaller Vehicle Required).

Please note that all major blockages have been cleared, all Rain Water Downpipes are flowing freely following High Pressure Water Jetting, and the replacement of the blocked sections after the time of survey.

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