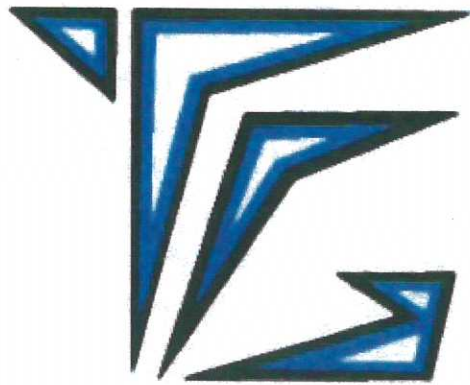
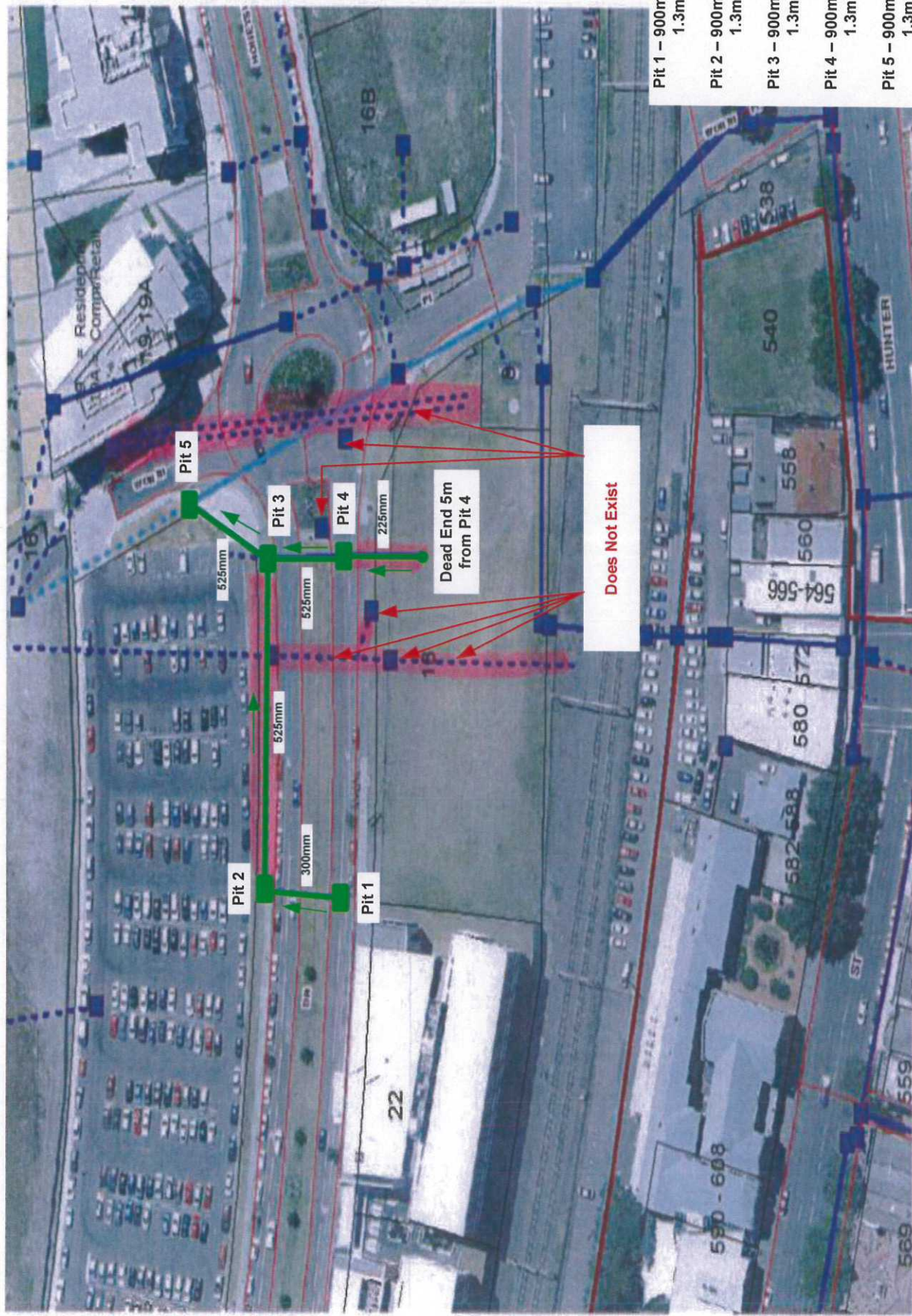


**FENECH GROUP
PTY LTD**



**CCTV INSPECTION FOR
NORTHROP
18 HONEYSUCKLE DR
HONEYSUCKLE
STORMWATER SURVEY**

15/8/14



- Pit 1 – 900mm x 800mm x 1.3m Depth
- Pit 2 – 900mm x 800mm x 1.3m Depth
- Pit 3 – 900mm x 800mm x 1.3m Depth
- Pit 4 – 900mm x 800mm x 1.3m Depth
- Pit 5 – 900mm x 800mm x 1.3m Depth

Date: 15 / 08 / 14

Sheet No. 000

No. In Set 000

Scale Nil

18 HONEYSUCKLE DR HONEYSUCKLE STORMWATER SURVEY



PH: 0425292298

FAX: 49430008

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| Project Name: NORTHROP-18 HONEYSU | Project number: | Date: 15/08/2014 | Contact: AARON KNIGHT | |
|--------------------------------------|-----------------|---------------------|--------------------------|--|

| | |
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| Inspection: 1 | |
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| Section: 3, PIT 4 --- PIT 3 | 15 |
| Section: 4, . --- PIT 4 | 17 |
| Section: 5, PIT 3 --- PIT 5 | 19 |
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ΣØ / Main sections / Inspection: 1

| | | | |
|---|-----------------|-------------------------------------|----------------------------|
| Project name NORTHROP-18 HONEYSUCKLE DR | Project Number: | Responsible: AARON KNIGHT | Date: 15/08/2014 |
|---|-----------------|-------------------------------------|----------------------------|

| No. | Start MH | End MH | Date | Location/Street | Pipe Attribute No. | STR Grade | SER Grade | (m) |
|-----|----------|--------|------------|-------------------|--------------------|-----------|-----------|------|
| 4 | | PIT 4 | 15/08/2014 | 18 HONEYSUCKLE DR | 4 | 1 | 5 | 0.20 |
| 6 | DEADEND | PIT 4 | 15/08/2014 | 18 HONEYSUCKLE DR | 6 | 1 | 1 | 4.50 |

Pipe size: 225 = 4.7 m (4.7 m)

| No. | Start MH | End MH | Date | Location/Street | Pipe Attribute No. | STR Grade | SER Grade | (m) |
|-----|----------|--------|------------|-------------------|--------------------|-----------|-----------|-------|
| 1 | PIT 1 | PIT 2 | 15/08/2014 | 18 HONEYSUCKLE DR | 1 | 1 | 3 | 20.10 |

Pipe size: 300 = 20.1 m (20.1 m)

| No. | Start MH | End MH | Date | Location/Street | Pipe Attribute No. | STR Grade | SER Grade | (m) |
|-----|----------|--------|------------|-------------------|--------------------|-----------|-----------|-------|
| 2 | P1T 2 | PIT3 | 15/08/2014 | 18 HONEYSUCKLE DR | 2 | 1 | 1 | 56.00 |
| 3 | PIT 4 | PIT 3 | 15/08/2014 | 18 HONEYSUCKLE DR | 3 | 1 | 1 | 20.60 |
| 5 | PIT 3 | PIT 5 | 15/08/2014 | 18 HONEYSUCKLE DR | 5 | 1 | 1 | 23.50 |

Pipe size: 525 = 100.1 m (100.1 m)

All sections = 124.9 m (124.9 m)

Inspection summary / Inspection: 1

 Project Name:
 NORTHROP-18

Project number:

 Date:
 15/08/2014

 Contact:
 AARON KNIGHT

HONEYSUCKLE DR

Please find per enclosure the inspection report

| | |
|---|-----------------|
| Total Length of sewer network | 124.70 m |
| Inspected Length of sewer network | 124.70 m |
| Not inspected Length of sewer network | 0.00 m |
| Total Length of house connections (satellite) | 0.00 m |
| Inspected Length of house connections (satellite) | 0.00 m |
| Not inspected Length of house connections (satellite) | 0.00 m |
| Number of Sections | 5 |
| Number of house connections | 0 |
| Number of Photos | 15 |




Inspection Summary / Inspection: 1

Date:
15/08/2014

Responsible:
AARON KNIGHT




Sewer Reference: 1
Section Number: 1
Start node: PIT 1
End node: PIT 2

Section length: 20.10 m
Pipe length:
Material Reinforced concrete pipe
Shape:

| | | | | |
|---|-------|------|--|------|
|  | 0.00 | STGP | Start node, grated inlet pit, Nodename: PIT 2 | |
|  | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 0% | |
| | 3.60 | JDL | Joint displaced longitudinally, longitudinal displacement 10-20mm | 0.5; |
| | 6.10 | JDL | Joint displaced longitudinally, longitudinal displacement 10-20mm | 0.5; |
| | 10.40 | OBM | Obstruction, a fragment of conduit material is lying in the invert , reduction in cross sectional area: 5-20% , from 6 to 10 o'clock | ; 30 |
| | 13.40 | OBZ | Obstruction, some other object is lying in the invert , reduction in cross sectional area: <5% , at 6 o'clock | ; 5 |
| | 16.00 | JDL | Joint displaced longitudinally, longitudinal displacement 21-30mm | |
|  | 20.10 | FHGP | Finish node, grated inlet pit, Nodename: PIT 1 | |

Sewer Reference: 2
Section Number: 2
Start node: P1T 2
End node: PIT3

Section length: 56.00 m
Pipe length:
Material Reinforced concrete pipe
Shape:

| | | | | |
|---|-------|------|---|--|
|  | 0.00 | STGP | Start node, grated inlet pit, Nodename: P1T 2 | |
|  | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 0% | |
| | 41.60 | OBJ | Obstruction, an object is wedged in the joint, at joint, reduction in cross sectional area: <5% , from 3 to 6 o'clock | |
|  | 56.00 | FHGP | Finish node, grated inlet pit, Nodename: PIT3 | |


Inspection Summary / Inspection: 1

Date:
15/08/2014

Responsible:
AARON KNIGHT

Sewer Reference: 3
Section Number: 3
Start node: PIT 4
End node: PIT 3


Section length: 20.60 m
Pipe length:
Material Reinforced concrete pipe
Shape:



PIT 4 **0.00** STGP Start node, grated inlet pit, Nodename: PIT 4
..... **0.00** WLC Water level, clear flow (the invert is visible), depth 0%
..... **12.10** INGF Ingress of soil, fine material , at 6 o'clock, Start
..... **19.10** INGF Ingress of soil, fine material , at 6 o'clock, End
PIT 3 **20.60** FHGP Finish node, grated inlet pit, Nodename: PIT 3

Sewer Reference: 4
Section Number: 4
Start node: .
End node: PIT 4

Section length: 0.20 m
Pipe length:
Material Reinforced concrete pipe
Shape:






PIT 4 **0.00** STGP Start node, grated inlet pit, Nodename: PIT 4
..... **0.00** WLC Water level, clear flow (the invert is visible), depth 0%
..... **0.00** OBZ Obstruction, some other object is lying in the invert , reduction
in cross sectional area: 5-20% , from 5 to 7 o'clock, Start
..... **0.10** OBZ Obstruction, some other object is lying in the invert , reduction
in cross sectional area: 5-20% , from 5 to 7 o'clock, End ; 3
..... **0.20** SAOB Inspection (survey) abandoned, obstruction , General
Comments HEAVY DEBRIS / HEAVY DEBRIS




Inspection Summary / Inspection: 1

| | | | |
|---------------------|------------------------------|--|--|
| Date: 15/08/2014 | Responsible: AARON KNIGHT | | |
|---------------------|------------------------------|--|--|

| | | | |
|------------------|-------|-----------------|--------------------------|
| Sewer Reference: | 5 | Section length: | 23.50 m |
| Section Number: | 5 | Pipe length: | |
| Start node: | PIT 3 | Material | Reinforced concrete pipe |
| End node: | PIT 5 | Shape: | |

| | | | |
|---|---------------------------------|------|--|
|  | PIT 5 0.00 | STSP | Start node, side entry pit, Nodename: PIT 5 |
|  | 0.10 | WLC | Water level, clear flow (the invert is visible), depth 30% |
|  | PIT 3 23.50 | FHSP | Finish node, side entry pit, Nodename: PIT 3 |

| | | | |
|------------------|---------|-----------------|--------------------------|
| Sewer Reference: | 6 | Section length: | 4.50 m |
| Section Number: | 6 | Pipe length: | |
| Start node: | DEADEND | Material | Reinforced concrete pipe |
| End node: | PIT 4 | Shape: | |

| | | | |
|---|----------------------------------|------|--|
|  | PIT 4 0.00 | STGP | Start node, grated inlet pit, Nodename: PIT 4 |
|  | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 45% |
|  | DEADEND 4.50 | FHDE | Finish node, dead end, Nodename: , General Comments CAP BROKEN / CAP BROKEN |

Project information / Inspection: 1

| | | | |
|---|-----------------|---------------------------------|-----------------------------|
| Project name NORTHROP-18 HONEYSUCKLE DR | Project number: | Contact: AARON KNIGHT | Date : 15/08/2014 |
|---|-----------------|---------------------------------|-----------------------------|

Client: **Northrop**
Contact Name: **Mr. Aaron Knight**
Department: **Civil Engineer**
Po Box: **180**
Street:
City: **Charlestown**
Telephone: **0249431777**
Fax: **0249431577**
Mobile: **0403101140**
E-mail:

Site:
Contact Name:
Department:
Po Box:
Street:
City:
Telephone:
Fax:
Mobile:
E-mail:

Contractor **FENECH GROUP PTY LTD**
Contact Name: **Mr. Mark Fenech**
Department: **Pipeline Maintenance**
Po Box: **680**
Street:
City: **The Junction NSW 2291**
Telephone: **0249 438 888**
Fax: **0249 430 008**
Mobile: **0425 292 298**
E-mail: **fenechgroup@optusnet.com.au**



FENECH GROUP PTY LTD

PO BOX 680 The Junction NSW 2291

Tel: 0249 438 888

Fax: 0249 430 008

Email: fenechgroup@optusnet.com.au

Grade Defect Guide and Recommendations / Inspection: 1

| | | | |
|---|-----------------|---------------------------------|-----------------------------|
| Project Name : NORTHROP-18 HONEYSUCKLE DR | Project number: | Contact: AARON KNIGHT | Date : 15/08/2014 |
|---|-----------------|---------------------------------|-----------------------------|

1: These codes describe the physical condition of the sewer and the severity of the damage

STRUCTURAL CONDITION

2: These codes describe the capability of the sewer to meet its service requirements and indicate loss of capacity, potential for blockage and watertightness

SERVICE DEFECTS

3: These codes define features relating to the construction of the sewer

CONSTRUCTIONAL FEATURES

4: These codes define general items concerning the sewer

MISCELLANEOUS FEATURES

5: Collapsed or collapse imminent

Brick Sewers: Already collapsed, Missing Invert, Deformation >10% and fractured, Displaced/hanging brickwork and deformation <10%, Extensive areas of missing brickwork Clayware, concrete and plastic pipe sewers: Already collapsed, Deformation >10% and brok






CCTV Inspection report / Inspection: 1

| | | | | | |
|--------------------------------|--|-----------------------|-----------------------------|-----------------------------|------------------------------|
| Inspection Number 1 | Pipe Attribute ID: 1 | Catchment - | U/S Manhole PIT 1 | D/S Manhole PIT 2 | Plan Length 0.00 m |
| Pipe Diameter 300 mm | Pipe Material Reinforced concrete pipe | | | | |

| | | |
|---------------------------------------|---|-------------------------------------|
| Town/suburb: NEWCASTLE | Date: 15/08/2014 | Flow Control: No measures |
| Location: 18 HONEYSUCKLE DR | Asset Owner: NEWCASTLE CITY COUNCIL | Precipitation: No |
| Location type: Road | Operator: DANNY WILLIAMS | |
| | Cleaning: not cleaned | |

| | |
|-------------------------------------|--|
| Inspected Length: 20.00 m | |
| Structural Grading: 1 | |
| Service Grade: 3 | |

Remarks :

| 1:165 | Position | Code | Observation | Grade | | | | | |
|------------|----------|--|--|---|--|----------|----------|-----------|-----------|
| | PIT 2 | | | | | | | | |
| | 0.00 | STGP | Start node, grated inlet pit, Nodename: PIT 2 | 0 |  3.6 m | | | | |
| | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 0% | 0 | | | | | |
| | 3.60 | JDL | Joint displaced longitudinally, longitudinal displacement 10-20mm | 1 |  3.6 m | | | | |
| | 6.10 | JDL | Joint displaced longitudinally, longitudinal displacement 10-20mm | 1 | | | | | |
| | 10.40 | OBM | Obstruction, a fragment of conduit material is lying in the invert , reduction in cross sectional area: 5-20% , from 6 to 10 o'clock | 4 |  6.1 m | | | | |
| | 13.40 | OBZ | Obstruction, some other object is lying in the invert , reduction in cross sectional area: <5% , at 6 o'clock | 2 |  6.1 m | | | | |
| | 16.00 | JDL | Joint displaced longitudinally, longitudinal displacement 21-30mm | | | | | | |
| 20.10 | FHGP | Finish node, grated inlet pit, Nodename: PIT 1 | 0 |  10.4 m | | | | | |
| PIT 1 | | | | | | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| 2 | 0.5 | 0.05 | 1 | 1 | 2 | 30 | 1.74 | 35 | 3 |

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 1 | Sewer Ref.: 1 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|

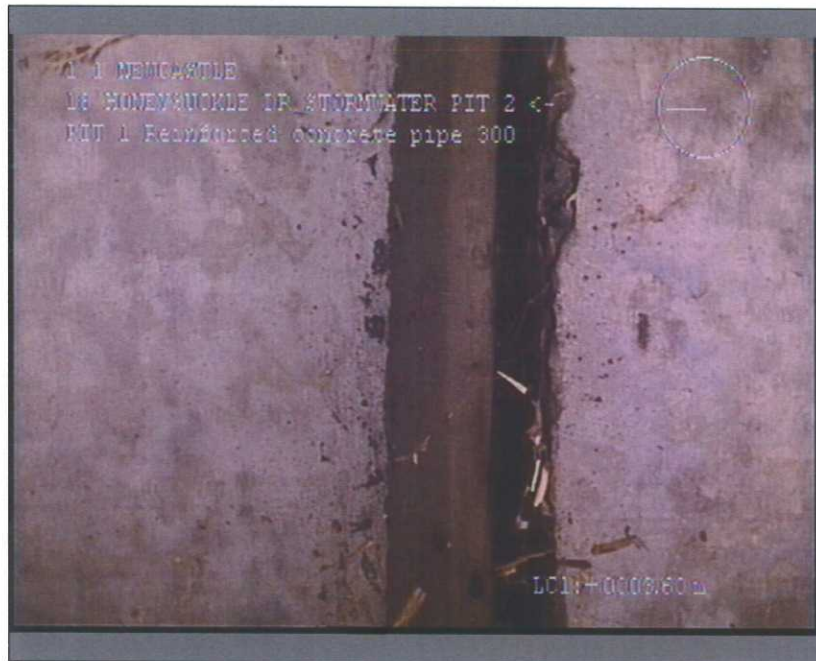


Photo: 1_3A
3.6m, Joint displaced longitudinally, longitudinal displacement 10-20mm



Photo: 1_3B
3.6m, Joint displaced longitudinally, longitudinal displacement 10-20mm

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 1 | Sewer Ref.: 1 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|

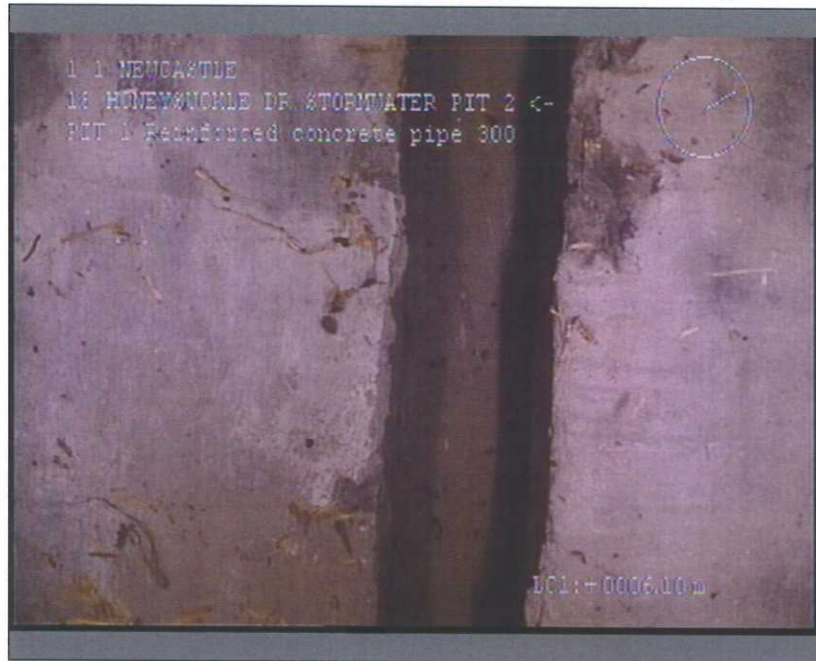


Photo: 1_4A
6.1m, Joint displaced longitudinally, longitudinal displacement 10-20mm

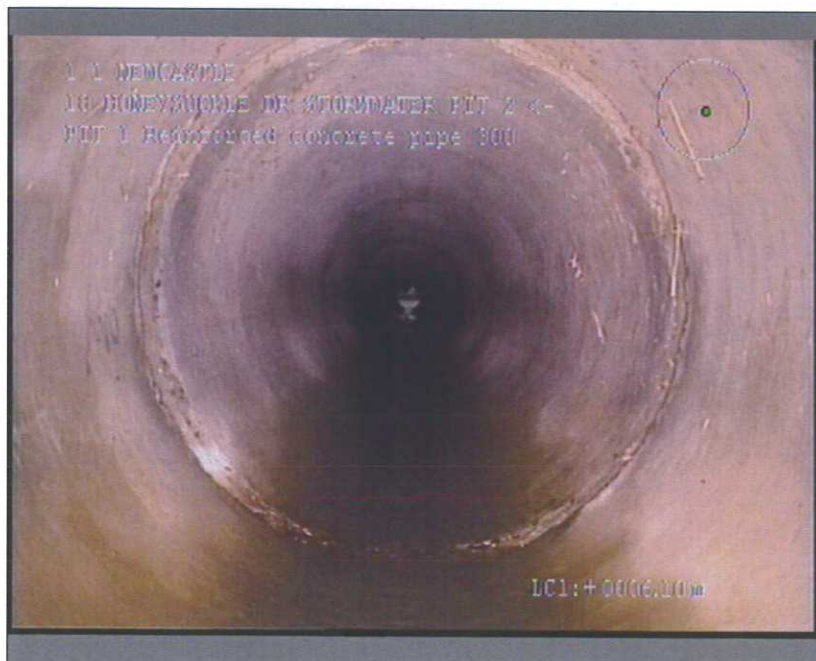


Photo: 1_4B
6.1m, Joint displaced longitudinally, longitudinal displacement 10-20mm

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 1 | Sewer Ref.: 1 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|

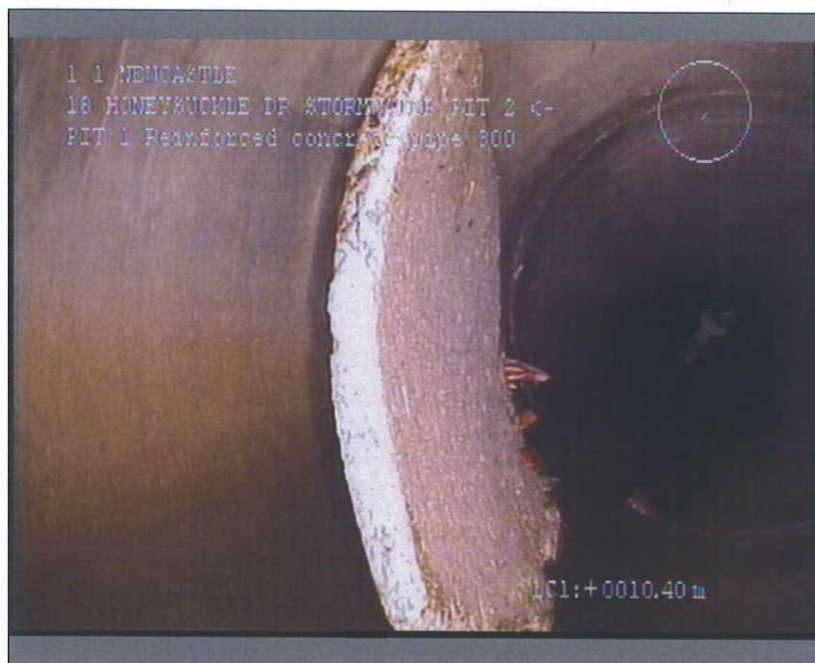


Photo: 1_5A

10.4m, Obstruction, a fragment of conduit material is lying in the invert , reduction in cross sectional area: 5-20% , from 6 to 10 o'clock



Photo: 1_6A

13.4m, Obstruction, some other object is lying in the invert , reduction in cross sectional area: <5% , at 6 o'clock

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 1 | Sewer Ref.: 1 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|

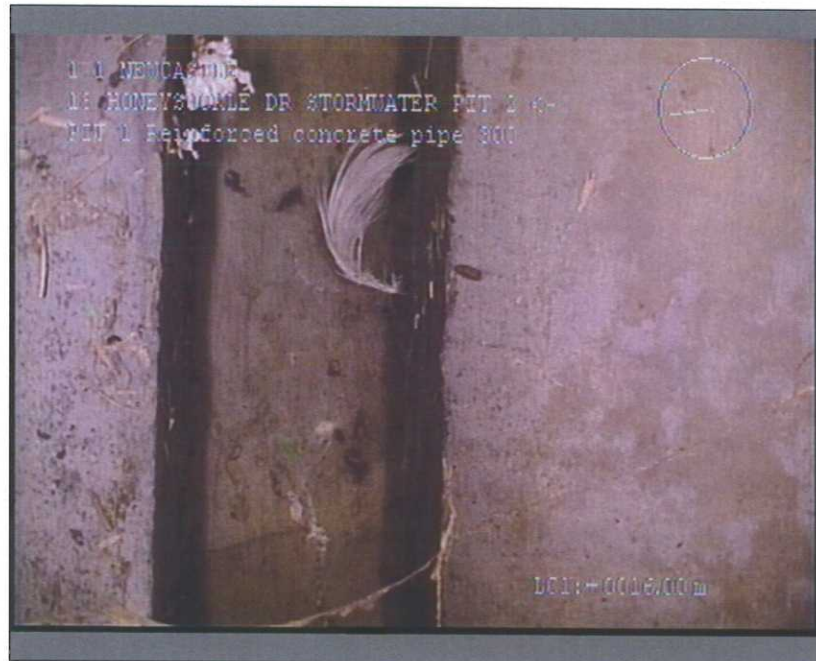


Photo: 1_7A

16m, Joint displaced longitudinally, longitudinal displacement 21-30mm

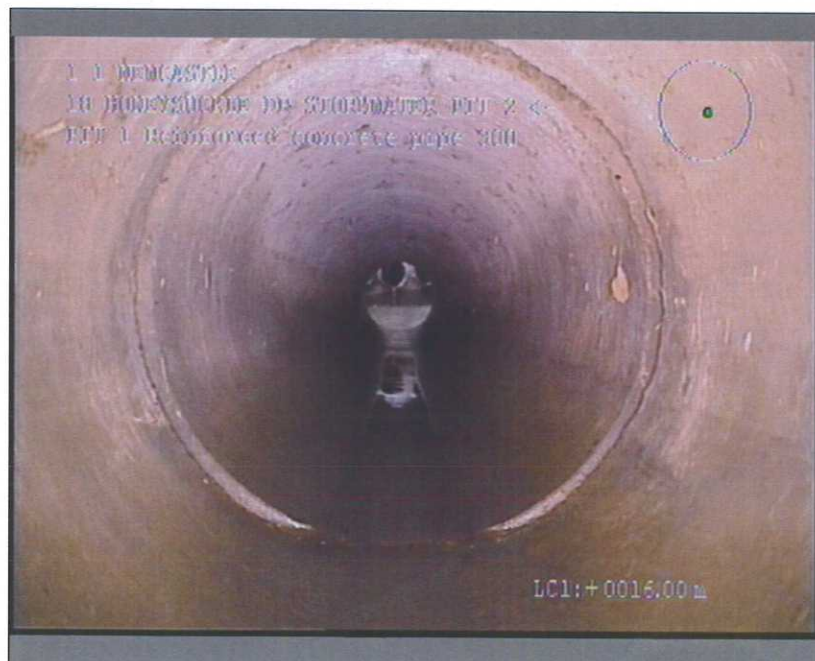


Photo: 1_7B

16m, Joint displaced longitudinally, longitudinal displacement 21-30mm

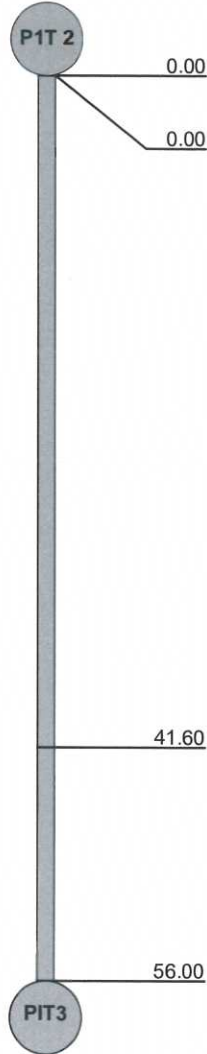


CCTV Inspection report / Inspection: 1

| | | | | | |
|--------------------------------|--|-----------------------|-----------------------------|----------------------------|------------------------------|
| Inspection Number 2 | Pipe Attribute ID: 2 | Catchment . | U/S Manhole P1T 2 | D/S Manhole PIT3 | Plan Length 0.00 m |
| Pipe Diameter 525 mm | Pipe Material Reinforced concrete pipe | | | | |

| | | |
|---------------------------------------|---|-------------------------------------|
| Town/suburb: NEWCASTLE | Date: 15/08/2014 | Flow Control: No measures |
| Location: 18 HONEYSUCKLE DR | Asset Owner: NEWCASTLE CITY COUNCIL | Precipitation: No |
| Location type: Road | Operator: DANNY WILLIAMS | |
| | Cleaning: not cleaned | |

| | |
|-------------------------------------|--|
| Inspected Length: 56.00 m | |
| Structural Grading: 1 | |
| Service Grade: 1 | |

Remarks :

| 1:450 | Position | Code | Observation | Grade | |
|------------|--|----------|---|-----------|--|
| |  | | | | |
| | 0.00 | STGP | Start node, grated inlet pit, Nodename: P1T 2 | 0 |  |
| | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 0% | 0 | 41.6 m |
| | 41.60 | OBJ | Obstruction, an object is wedged in the joint, at joint, reduction in cross sectional area: <5% , from 3 to 6 o'clock | |  |
| | 56.00 | FHGP | Finish node, grated inlet pit, Nodename: PIT3 | 0 | 41.6 m |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def |
| 0 | 0 | 0 | 0 | 1 | 0 |
| | | | | | SER peak |
| | | | | | 0 |
| | | | | | SER mean |
| | | | | | 0 |
| | | | | | SER total |
| | | | | | 0 |
| | | | | | SER grade |
| | | | | | 1 |

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 2 | Sewer Ref.: 2 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|



Photo: 2_3A

41.6m, Obstruction, an object is wedged in the joint, at joint, reduction in cross sectional area: <5% , from 3 to 6 o'clock



Photo: 2_3B

41.6m, Obstruction, an object is wedged in the joint, at joint, reduction in cross sectional area: <5% , from 3 to 6 o'clock

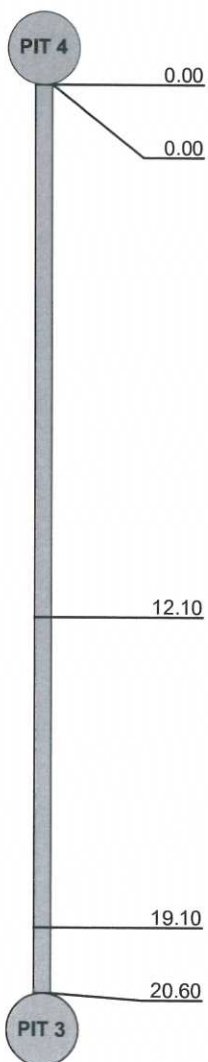


CCTV Inspection report / Inspection: 1

| | | | | | |
|--------------------------------|--|----------------|-----------------------------|-----------------------------|------------------------------|
| Inspection Number 3 | Pipe Attribute ID: 3 | Catchment . | U/S Manhole PIT 4 | D/S Manhole PIT 3 | Plan Length 0.00 m |
| Pipe Diameter 525 mm | Pipe Material Reinforced concrete pipe | | | | |

| | | |
|------------------------------------|--|----------------------------------|
| Town/suburb: NEWCASTLE | Date: 15/08/2014 | Flow Control: No measures |
| Location: 18 HONEYSUCKLE DR | Asset Owner: NEWCASTLE CITY COUNCIL | Precipitation: No |
| Location type: Road | Operator: DANNY WILLIAMS | |
| | Cleaning: not cleaned | |

| | |
|----------------------------------|--|
| Inspected Length: 21.00 m | |
| Structural Grading: 1 | |
| Service Grade: 1 | |

Remarks :

| 1:165 | Position | Code | Observation | Grade | | |
|--|----------|------|---|--|--|--|
|  | 0.00 | STGP | Start node, grated inlet pit, Nodename: PIT 4 | 0 |  12.1 m | |
| | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 0% | 0 |  19.1 m | |
| | 12.10 | S1 | INGF | Ingress of soil, fine material , at 6 o'clock, Start | | |
| | 19.10 | E1 | INGF | Ingress of soil, fine material , at 6 o'clock, End | | |
| | 20.60 | FHGP | Finish node, grated inlet pit, Nodename: PIT 3 | | 0 | |

| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
|------------|----------|----------|-----------|-----------|------------|----------|----------|-----------|-----------|
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 3 | Sewer Ref.: 3 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|



Photo: 3_3A
12.1m, Ingress of soil, fine material , at 6 o'clock, Start



Photo: 3_4A
19.1m, Ingress of soil, fine material , at 6 o'clock, End

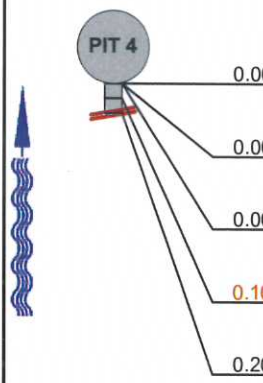
CCTV Inspection report / Inspection: 1

| | | | | | |
|--------------------------------|--|-----------|-------------|-----------------------------|------------------------------|
| Inspection Number 4 | Pipe Attribute ID: 4 | Catchment | U/S Manhole | D/S Manhole PIT 4 | Plan Length 0.00 m |
| Pipe Diameter 225 mm | Pipe Material Reinforced concrete pipe | | | | |

| | | |
|------------------------------------|--|----------------------------------|
| Town/suburb: NEWCASTLE | Date: 15/08/2014 | Flow Control: No measures |
| Location: 18 HONEYSUCKLE DR | Asset Owner: NEWCASTLE CITY COUNCIL | Precipitation: No |
| Location type: Road | Operator: DANNY WILLIAMS | |
| | Cleaning: not cleaned | |

| | |
|---------------------------------|--|
| Inspected Length: 1.00 m | |
| Structural Grading: 1 | |
| Service Grade: 5 | |

Remarks :

| 1:50 | Position | Code | Observation | Grade |
|--|----------|------|---|-------|
|  | 0.00 | STGP | Start node, grated inlet pit, Nodename: PIT 4 | 0 |
| | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 0% | 0 |
| | 0.00 | S1 | OBZ Obstruction, some other object is lying in the invert , reduction in cross sectional area: 5-20% , from 5 to 7 o'clock, Start | |
| | 0.10 | E1 | OBZ Obstruction, some other object is lying in the invert , reduction in cross sectional area: 5-20% , from 5 to 7 o'clock, End | 3 |
| | 0.20 | SAOB | Inspection (survey) abandoned, obstruction , General Comments HEAVY DEBRIS | 0 |



0 m



0.2 m

| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
|------------|----------|----------|-----------|-----------|------------|----------|----------|-----------|-----------|
| 0 | 0 | 0 | 0 | 1 | 1 | 30 | 15 | 3 | 5 |

Inspection Pictures / Inspection: 1

| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 4 | Sewer Ref.: 4 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|



Photo: 4_3A

0m, Obstruction, some other object is lying in the invert, reduction in cross sectional area: 5-20%, from 5 to 7 o'clock, Start



Photo: 4_5A

0.2m, Inspection (survey) abandoned, obstruction, General Comments
 HEAVY DEBRIS / HEAVY DEBRIS

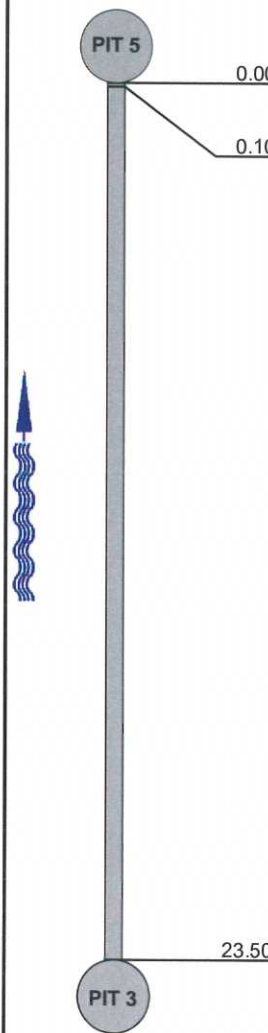
CCTV Inspection report / Inspection: 1

| | | | | | |
|--------------------------------|--|-----------------------|-----------------------------|-----------------------------|------------------------------|
| Inspection Number 5 | Pipe Attribute ID: 5 | Catchment . | U/S Manhole PIT 3 | D/S Manhole PIT 5 | Plan Length 0.00 m |
| Pipe Diameter 525 mm | Pipe Material Reinforced concrete pipe | | | | |

| | | |
|------------------------------------|--|----------------------------------|
| Town/suburb: NEWCASTLE | Date: 15/08/2014 | Flow Control: No measures |
| Location: 18 HONEYSUCKLE DR | Asset Owner: NEWCASTLE CITY COUNCIL | Precipitation: No |
| Location type: Road | Operator: DANNY WILLIAMS | |
| | Cleaning: not cleaned | |

| | |
|----------------------------------|--|
| Inspected Length: 24.00 m | |
| Structural Grading: 1 | |
| Service Grade: 1 | |

Remarks :

| 1:195 | Position | Code | Observation | Grade |
|--|----------|------|--|-------|
|  | | STSP | Start node, side entry pit, Nodename: PIT 5 | 0 |
| | | WLC | Water level, clear flow (the invert is visible), depth 30% | 0 |
| | | FHSP | Finish node, side entry pit, Nodename: PIT 3 | 0 |

| | | | | | | | | | |
|------------|----------|----------|-----------|-----------|------------|----------|----------|-----------|-----------|
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

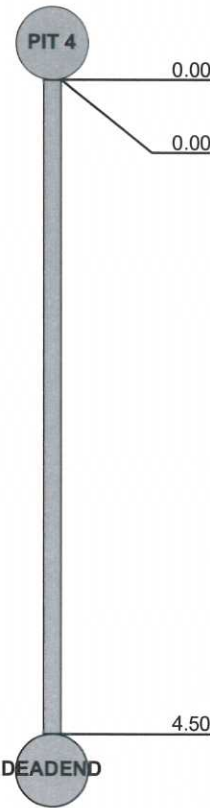
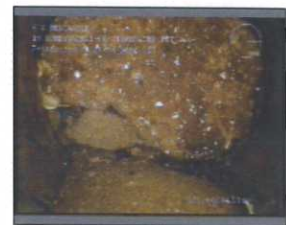
CCTV Inspection report / Inspection: 1

| | | | | | |
|--------------------------------|--|----------------|-------------------------------|-----------------------------|------------------------------|
| Inspection Number 6 | Pipe Attribute ID: 6 | Catchment . | U/S Manhole DEADEND | D/S Manhole PIT 4 | Plan Length 0.00 m |
| Pipe Diameter 225 mm | Pipe Material Reinforced concrete pipe | | | | |

| | | |
|------------------------------------|--|----------------------------------|
| Town/suburb: NEWCASTLE | Date: 15/08/2014 | Flow Control: No measures |
| Location: 18 HONEYSUCKLE DR | Asset Owner: NEWCASTLE CITY COUNCIL | Precipitation: No |
| Location type: Road | Operator: DANNY WILLIAMS | |
| | Cleaning: cleaned | |

| | |
|---------------------------------|--|
| Inspected Length: 5.00 m | |
| Structural Grading: 1 | |
| Service Grade: 1 | |

Remarks :

| 1:50 | Position | Code | Observation | Grade | |
|--|----------|------|--|-------|--|
|  | 0.00 | STGP | Start node, grated inlet pit, Nodename: PIT 4 | 0 |  4.5 m |
| | 0.00 | WLC | Water level, clear flow (the invert is visible), depth 45% | 0 | |
| | 4.50 | FHDE | Finish node, dead end, Nodename: , General Comments0 CAP BROKEN | | |

| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
|------------|----------|----------|-----------|-----------|------------|----------|----------|-----------|-----------|
| 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

Inspection Pictures / Inspection: 1

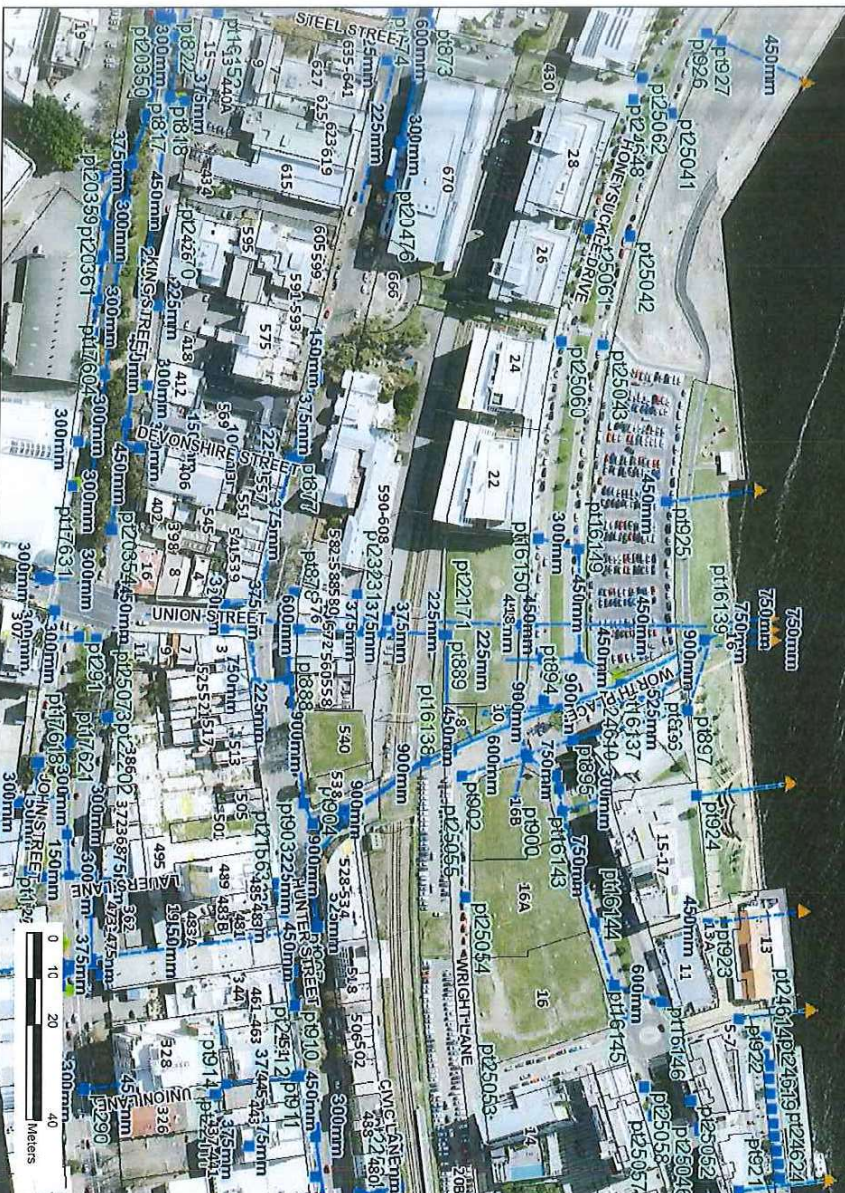
| | | | | |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|
| Location/Street 18 HONEYSUCKLE DR | Town or suburb: NEWCASTLE | Date : 15/08/2014 | Section number: 6 | Sewer Ref.: 6 |
|---|-------------------------------------|-----------------------------|-----------------------------|-------------------------|



Photo: 6_3A

4.5m, Finish node, dead end, Nodename: , General Comments CAP
 BROKEN / CAP BROKEN

Drainage Map Honeysuckle



Scale: 3,294 at A4

| Pits | |
|-----------|--|
| | Newcastle City Council - CCTV Confirmed Location |
| | Newcastle City Council - Unconfirmed Location |
| | Hunter Water - CCTV Confirmed Location |
| | Hunter Water - Unconfirmed Location |
| | Other Owners - CCTV Confirmed Location |
| | Other Owners - Unconfirmed Location |
| Headwalls | |
| | Newcastle City Council - CCTV Confirmed Location |
| | Newcastle City Council - Unconfirmed Location |
| | Hunter Water - CCTV Confirmed Location |
| | Hunter Water - Unconfirmed Location |
| | Other Owners - CCTV Confirmed Location |
| | Other Owners - Unconfirmed Location |
| Pipes | |
| | Newcastle City Council - CCTV Confirmed Location |
| | Newcastle City Council - Unconfirmed Location |
| | Hunter Water - CCTV Confirmed Location |
| | Hunter Water - Unconfirmed Location |
| | Other Owners - CCTV Confirmed Location |
| | Other Owners - Unconfirmed Location |
| Culverts | |
| | Newcastle City Council - CCTV Confirmed Location |
| | Newcastle City Council - Unconfirmed Location |
| | Hunter Water - CCTV Confirmed Location |
| | Hunter Water - Unconfirmed Location |
| | Other Owners - CCTV Confirmed Location |
| | Other Owners - Unconfirmed Location |

IMPORTANT

Council takes all reasonable care in providing details of its stormwater drainage assets, however our records are incomplete and locations and information may vary from that shown on the plans provided. The information shown on the plans has been prepared from the best available information and is not a guarantee of accuracy. Council does not accept any liability for any loss or damage (including indirect or consequential loss or damage) however caused (including without limitation, for breach of contract, negligence and breach of statute) which may be suffered or incurred from or in connection with the advice (plans) provided. Except to the extent that liability may not be capable of lawful exclusion.

1. There may be underground stormwater drains owned by other authorities, in the vicinity of your work, about which Council has no information. Council is not responsible for any loss or damage (including indirect or consequential loss or damage) however caused (including without limitation, for breach of contract, negligence and breach of statute) which may be suffered or incurred from or in connection with the advice (plans) provided. Except to the extent that liability may not be capable of lawful exclusion.

You should also be aware that:

Council has no information. Council is not responsible for any loss or damage (including indirect or consequential loss or damage) however caused (including without limitation, for breach of contract, negligence and breach of statute) which may be suffered or incurred from or in connection with the advice (plans) provided. Except to the extent that liability may not be capable of lawful exclusion.