FIGURE C-001
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
BURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALINGHAM AVENUE
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-100

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-002

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-003
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

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FIGURE C-004

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-005
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-006

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-007
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ALLINGHAM WAY
ESPLANADE
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

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FIGURE C-008

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-009

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-010

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

0 250 500 m

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FIGURE C-011
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

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FIGURE C-012

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
BLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

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FIGURE C-013
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
BURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALANGHAM WAY
ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
ESPLANADE

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-014

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
SPRINGS ROAD
LOVES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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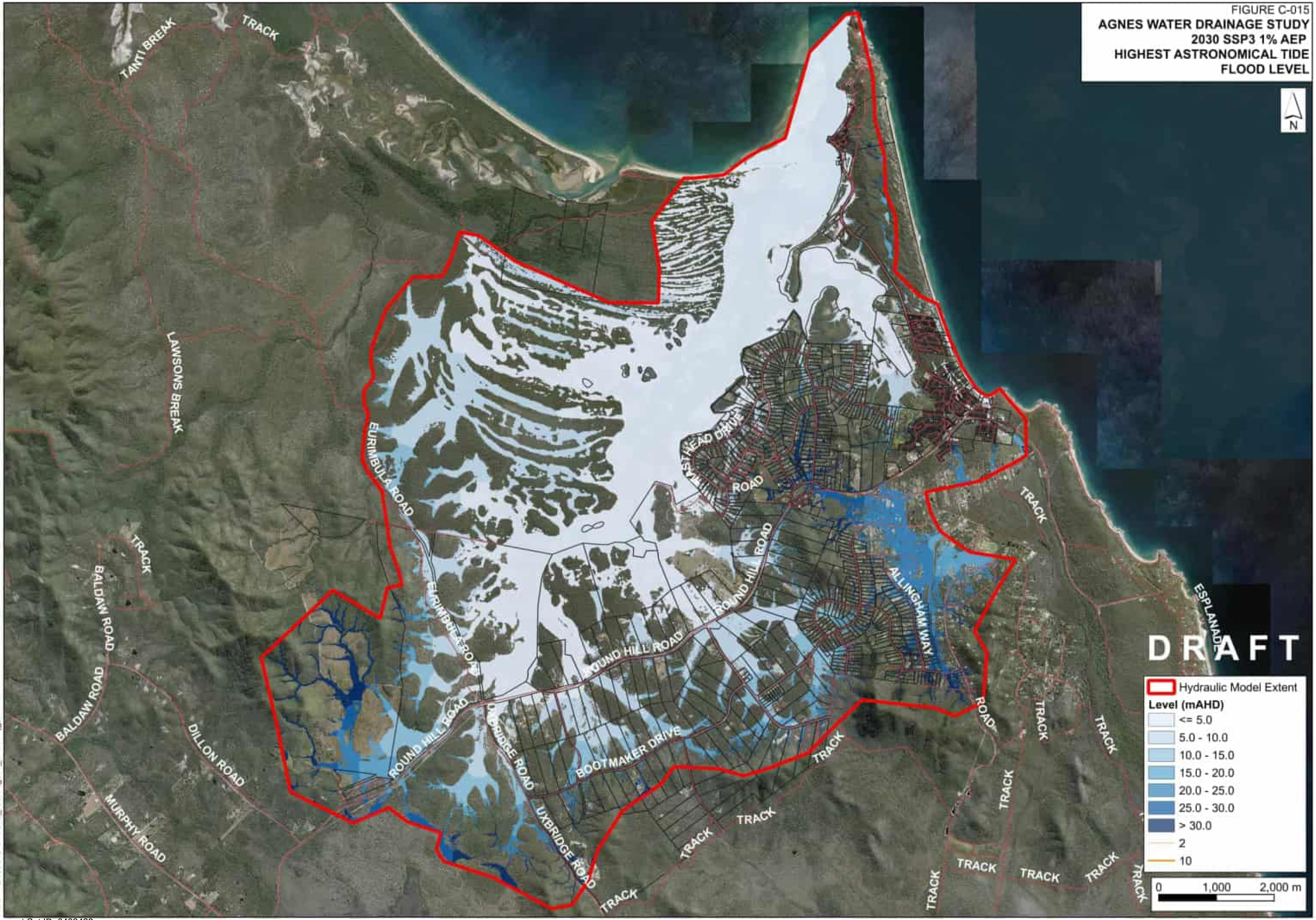

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FIGURE C-016

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-017
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-018

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
SPRINGS ROAD

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-019

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

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FIGURE C-020

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-021
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-022

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

0 250 500 m

DRAFT

J:\J24\124028\GIS\QGIS_tool\Figure_C-022.qgz

FIGURE C-023
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

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FIGURE C-024

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
ESPLANADE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

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FIGURE C-025
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
BURRUM BULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALANGHAM WAY
ESPLANADE
BALDAW ROAD
TRACK
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-026

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOVES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-027

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ROAD
TRACK
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

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FIGURE C-028

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
FLOOD LEVEL

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-029

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
VELOCITY

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-030

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SPRINGS ROAD
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
SPRINGS ROAD

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-031
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

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FIGURE C-032

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-032.qgz

FIGURE C-033
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-034

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

0 250 500 m

DRAFT

J:\J24\124028\GIS\QGIS_tool\Figure_C-034.qgz

FIGURE C-035
AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-035.qgz

FIGURE C-036

AGNES WATER DRAINAGE STUDY
2030 SSP3 1% AEP
STORM SURGE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
OLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-036.qgz

FIGURE C-037
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

FIGURE C-038
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-038.qgz

FIGURE C-039
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ALLINGHAM WAY
ESPLANADE
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-039.qgz

FIGURE C-040

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-040.qgz

FIGURE C-041
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-041.qgz

FIGURE C-042

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-042.qgz

FIGURE C-043
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-043.qgz

FIGURE C-044

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-044.qgz

FIGURE C-045

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-045.qgz

FIGURE C-046

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

0 250 500 m

J:\J241124028\GIS\QGIS_tool\Figure_C-046.qgz

FIGURE C-047
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

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FIGURE C-048

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

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FIGURE C-049
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

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FIGURE C-050
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

CAPTAIN COOK DRIVE
WISTARIA TERRACE
RAFTING GROUND ROAD
FITZROY CRESCENT
SPRINGS ROAD
ESPLANADE
SPRINGS ROAD
GRASSPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
SPRINGS ROAD

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-050.qgz

FIGURE C-051

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ALLINGHAM WAY
ESPLANADE
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-051.qgz

FIGURE C-052

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-052.qgz

FIGURE C-053

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-053.qgz

FIGURE C-054

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-054.qgz

FIGURE C-055
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\U24\124028\GIS\QGIS_tool\Figure_C-055.qgz

FIGURE C-056

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-056.qgz

FIGURE C-057
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-057.qgz

FIGURE C-058

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
FITZROY CRESCENT
SPRINGS ROAD
CLOWES LANE
SPRINGS ROAD
ESPLANADE
SEASPRAY DRIVE
RAFTING GROUND ROAD
ROUND HILL ROAD
ROAD
ROAD
ROUND HILL ROAD
BICENTENNIAL DRIVE
BICENTENNIAL DRIVE
ROAD
TRACK
SPRINGS ROAD

DRAFT

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-058.qgz

FIGURE C-059

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-059.qgz

FIGURE C-060

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
SPRINGS ROAD
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J241\124028\GIS\QGIS_tool\Figure_C-060.qgz

FIGURE C-061
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-061.qgz

FIGURE C-062

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
SPRINGS ROAD
ESPLANADE
GRASSPLAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
SPRINGS ROAD

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-063
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ROAD
TRACK
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-063.qgz

FIGURE C-064

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOVES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-064.qgz

FIGURE C-065
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-065.qgz

FIGURE C-066

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
VELOCITY

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-066.qgz

FIGURE C-067

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-067.qgz

FIGURE C-068

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
ESPLANADE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-068.qgz

FIGURE C-069
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-070

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-070.qgz

FIGURE C-071
AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-071.qgz

FIGURE C-072

AGNES WATER DRAINAGE STUDY
2100 SSP3 1% AEP
STORM SURGE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
OLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\U24\124026\GIS\QGIS_tool\Figure_C-072.qgz

FIGURE C-073
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
WEST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-073.qgz

FIGURE C-074

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
TWISTART TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOVES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J241\124028\GIS\QGIS_tool\Figure_C-074.qgz

FIGURE C-075
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124026\GIS\QGIS_tool\Figure_C-075.qgz

FIGURE C-076

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J241124028\GIS\QGIS_tool\Figure_C-076.qgz

FIGURE C-077
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-077.qgz

FIGURE C-078

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J241124028\GIS\QGIS_tool\Figure_C-078.qgz

FIGURE C-079
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-079.qgz

FIGURE C-080
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
ESPLANADE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-080.qgz

FIGURE C-081
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J241\124028\GIS\QGIS_tool\Figure_C-081.qgz

FIGURE C-082
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

0 250 500 m

DRAFT

J:\J241124028\GIS\QGIS_tool\Figure_C-082.qgz

FIGURE C-083
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-083.qgz

FIGURE C-084

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-084.qgz

FIGURE C-085
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
BURIMBULA ROAD
WEST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-085.qgz

FIGURE C-086

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-086.qgz

FIGURE C-087
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
ROUND HILL ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ROAD
TRACK
TRACK
TRACK
ESPLANADE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J241\124028\GIS\QGIS_tool\Figure_C-087.qgz

FIGURE C-088
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J241124028\GIS\QGIS_tool\Figure_C-088.qgz

FIGURE C-089
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE VELOCITY

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-089.qgz

FIGURE C-090

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-090.qgz

FIGURE C-091
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J241\124028\GIS\QGIS_tool\Figure_C-091.qgz

FIGURE C-092

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
ESPLANADE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-093
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-094

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

0 250 500 m

DRAFT

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FIGURE C-095
AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

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FIGURE C-096

AGNES WATER DRAINAGE STUDY
2030 SSP3 1EY
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

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FIGURE C-097

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
WEST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-098

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-099

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
TRACK
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

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