

NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

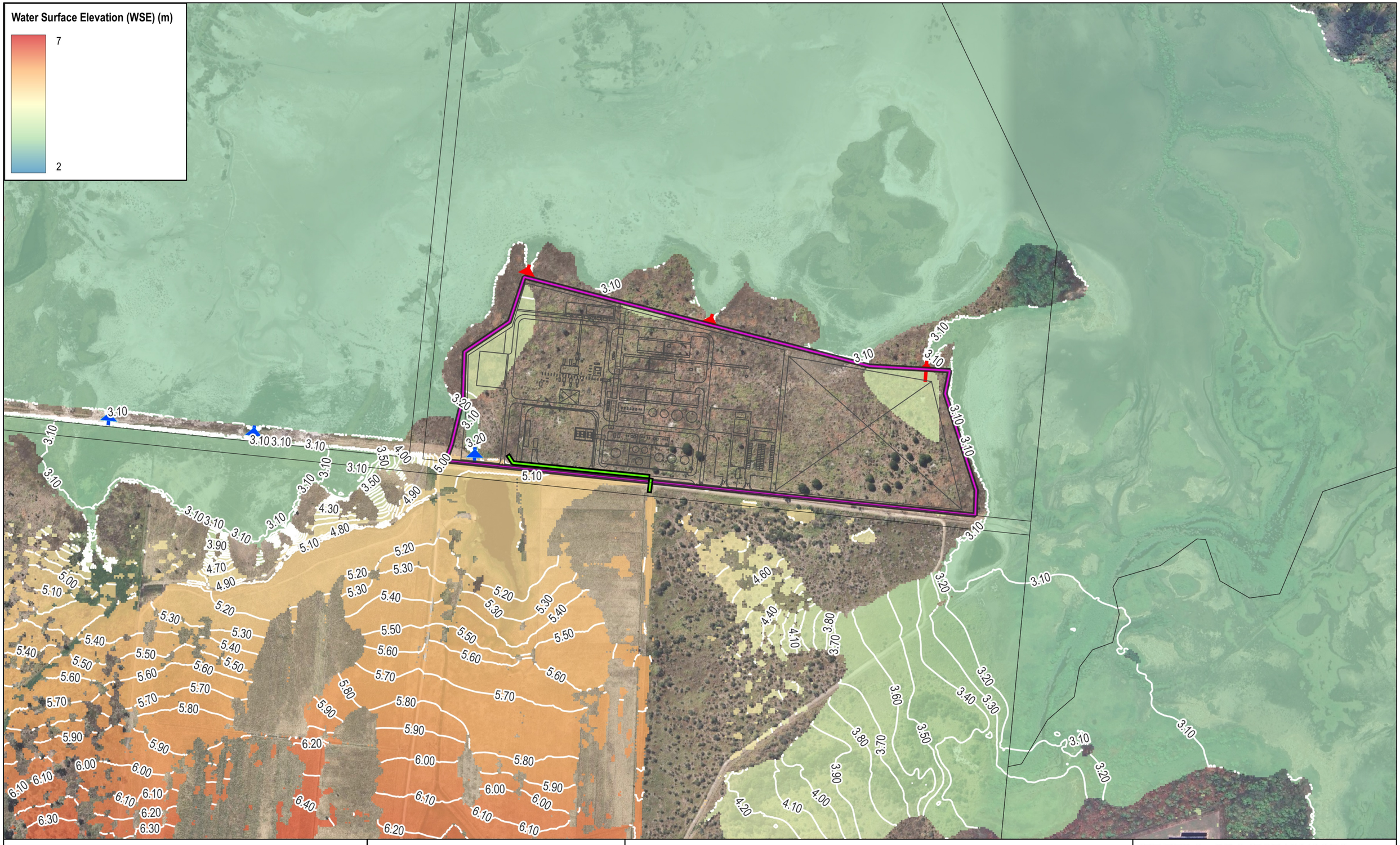
Legend

- Land Parcels
- Development Extent
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)

JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

1% AEP CC Maximum Baseline Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map C03



0°
NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND
T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

Legend

- Land Parcels
- Development Extent
- Proposed Site Layout
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)
- Proposed Minor Levee

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

1% AEP CC Maximum Developed Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map C04



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

Legend

- Land Parcels
- Development Extent
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)

JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

1% AEP Maximum Baseline Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map C05



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

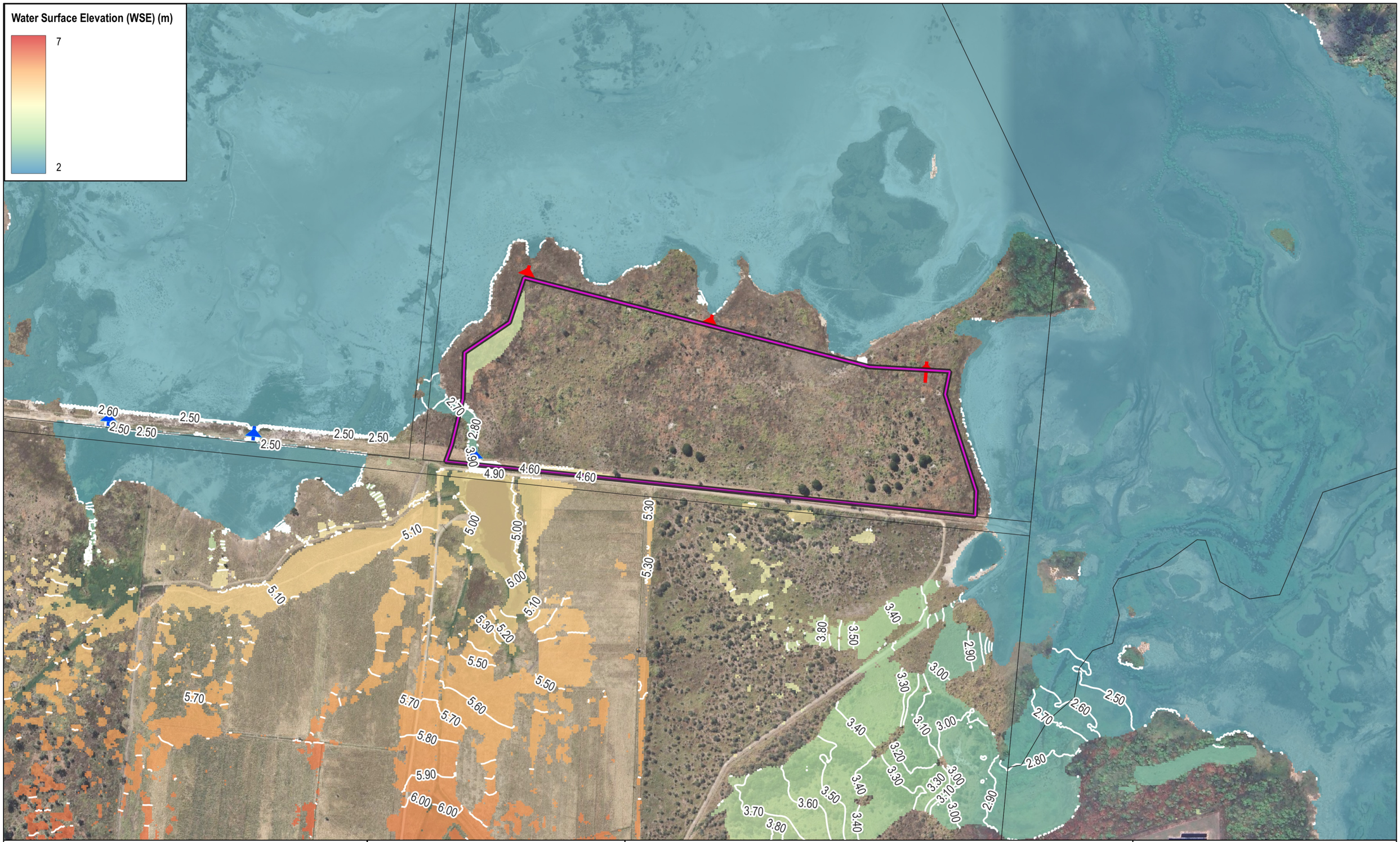
Legend

- Land Parcels
- Development Extent
- Proposed Site Layout
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)
- Proposed Minor Levee

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

1% AEP Maximum Developed Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: **20/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **C06**



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

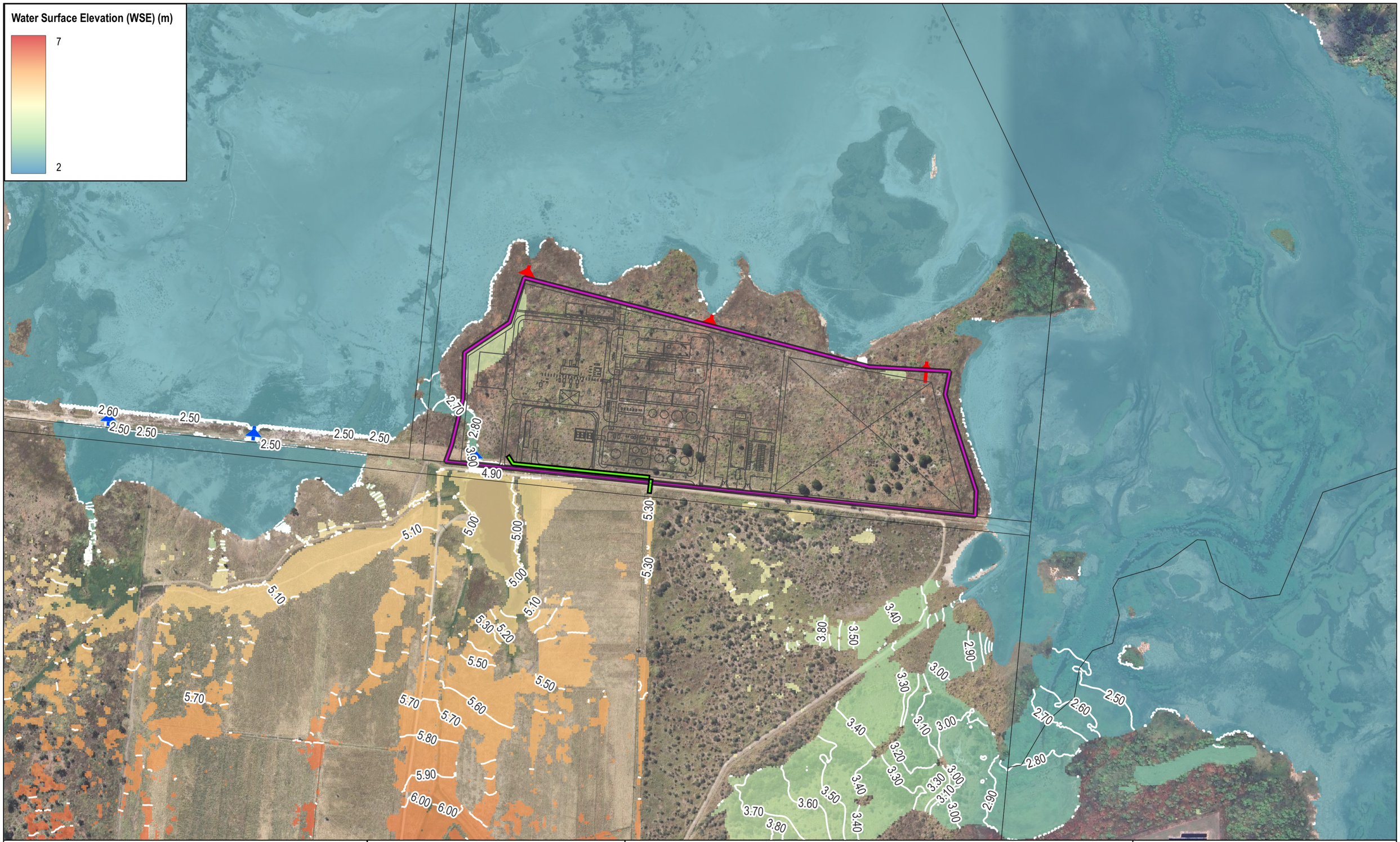
Legend

- Land Parcels
- Development Extent
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

20% AEP Maximum Baseline Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: **20/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **C07**



0° NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

Legend

- Land Parcels
- Development Extent
- Proposed Site Layout
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)
- Proposed Minor Levee

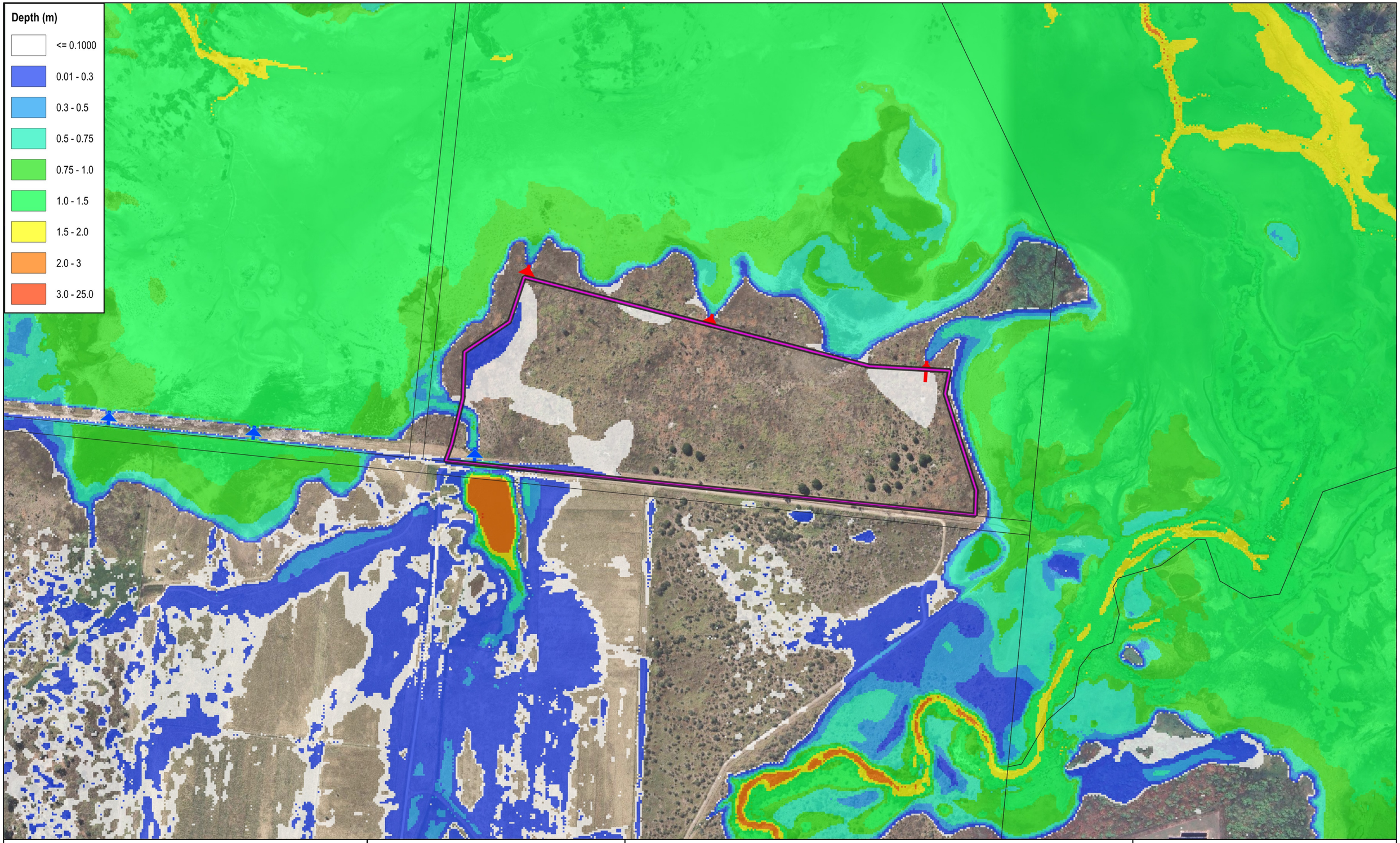
JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

20% AEP Maximum Developed Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map C08

APPENDIX D

Flood Depth Results



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

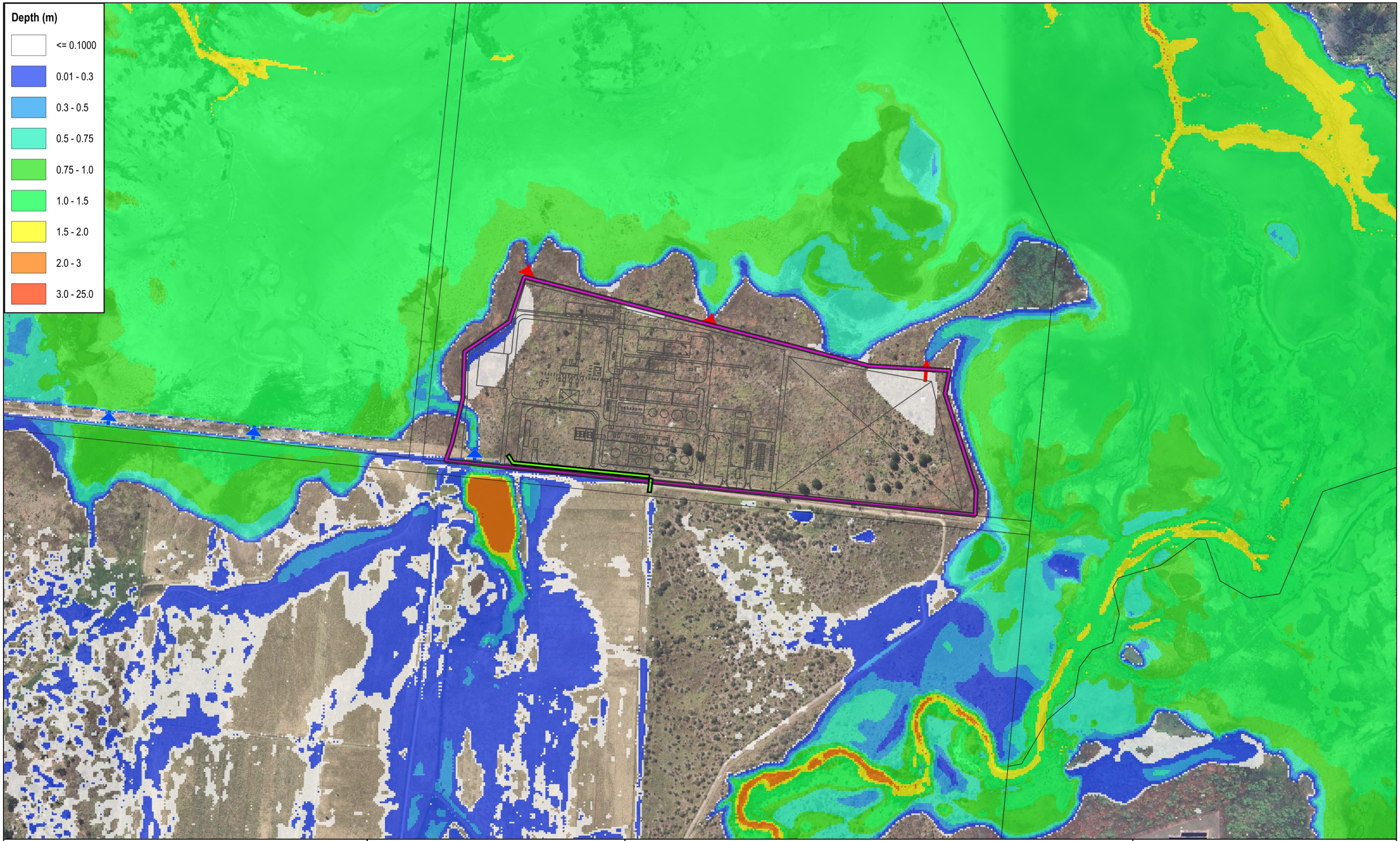
Legend

- Land Parcels
- Development Extent
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)

JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

1% AEP Maximum Baseline Flood Depth

Prepared By: IG Reviewed by: AW	Date: 19/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map D01



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

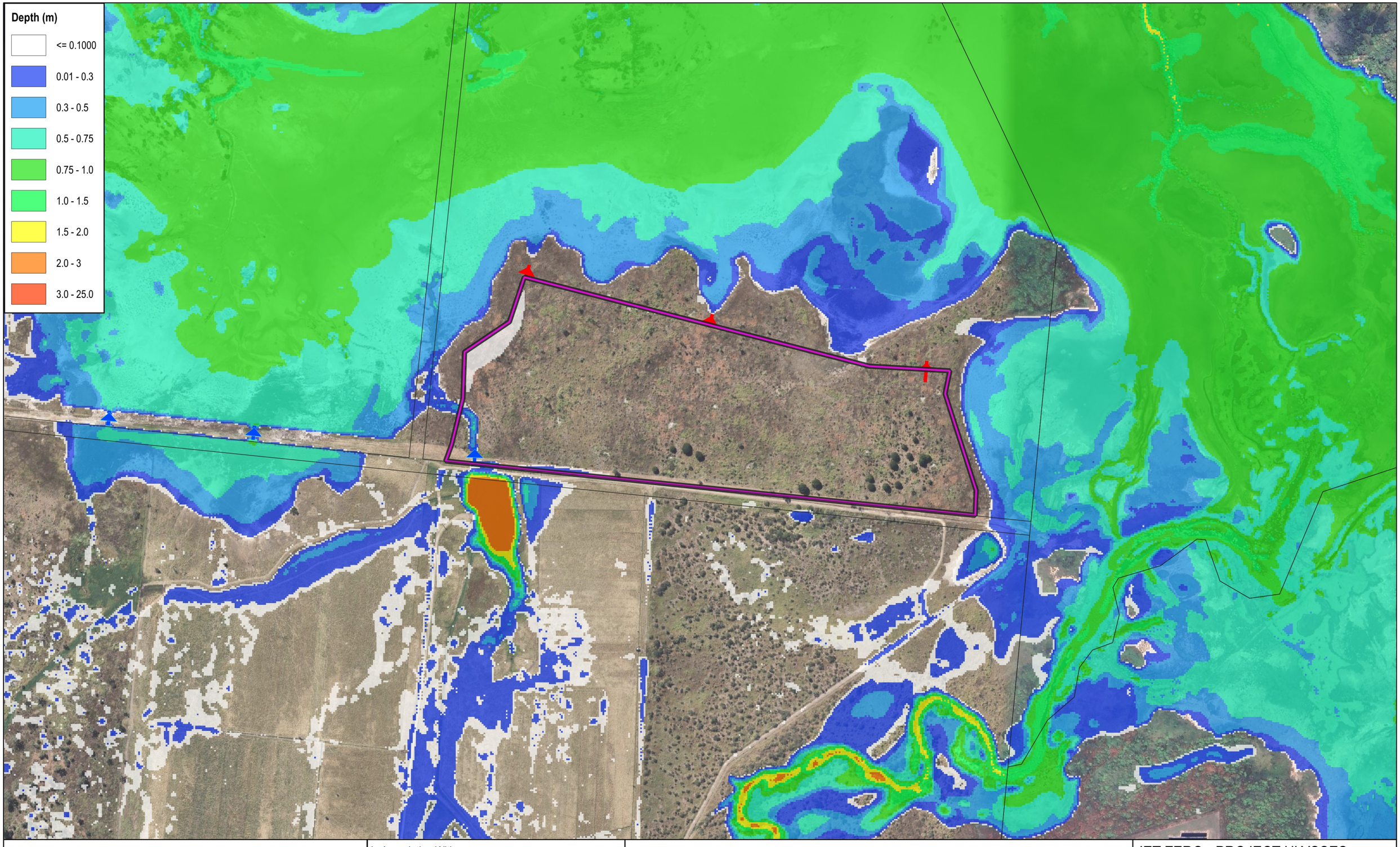
Legend

- Land Parcels
- Development Extent
- Proposed Site Layout
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)
- Proposed Minor Levee

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

1% AEP Maximum Developed Flood Depth

Prepared By: IG Reviewed by: AW	Date: **19/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **D02**



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

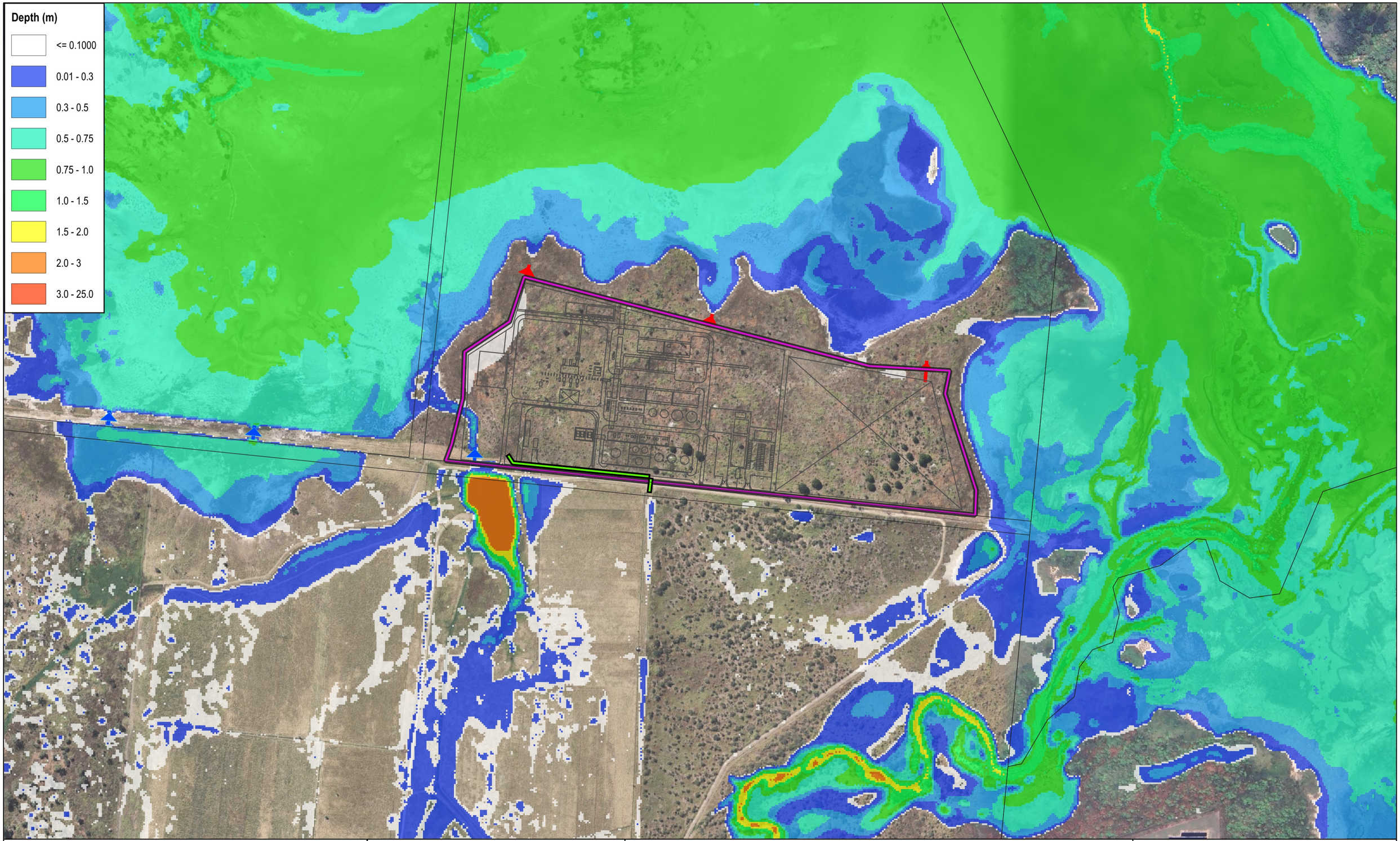
Legend

- Land Parcels
- Development Extent
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)

JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

20% AEP Maximum Baseline Flood Depth

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map D03



NORTHERN CONSULTING engineers

Civil | Structural | Forensic
Traffic | Flood Modelling

TOWNSVILLE | SUNSHINE COAST | BRISBANE
GLADSTONE | NEW ZEALAND

T: +617 4725 5550 E: mail@nceng.com.au
W: www.nceng.com.au

Disclaimer:
All information noted on this plan is INDICATIVE only, therefore any reference and/or deconstruction of the data not soley related to the documents'purpose shall be at the user's risk. NCE shall bare no responsibility or liability for any errors, faults, defects, or omissions in the information.

In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

Legend

- Land Parcels
- Development Extent
- Proposed Site Layout
- Baseline Culverts (Rectangular)
- Baseline Culverts (Circular)
- Proposed Minor Levee

JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

20% AEP Maximum Developed Flood Depth

Prepared By: IG Reviewed by: AW	Date: 19/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map D04

APPENDIX E

Flow Velocity Results