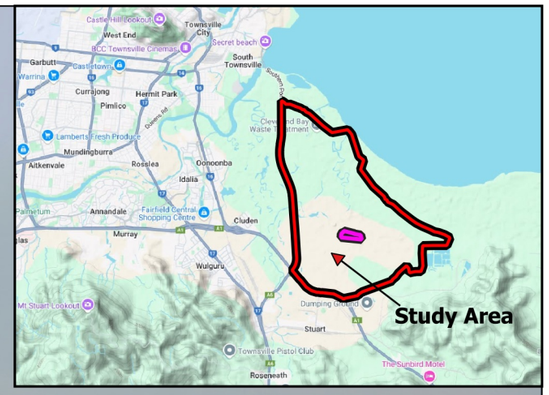
APPENDIX A

Model Setup Maps



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GLADSTONE | NEW ZEALAND

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In Association With:

LONG ENERGY AND RESOURCES

0 250 500 750 1,000 1,250 m

1:30,000

N

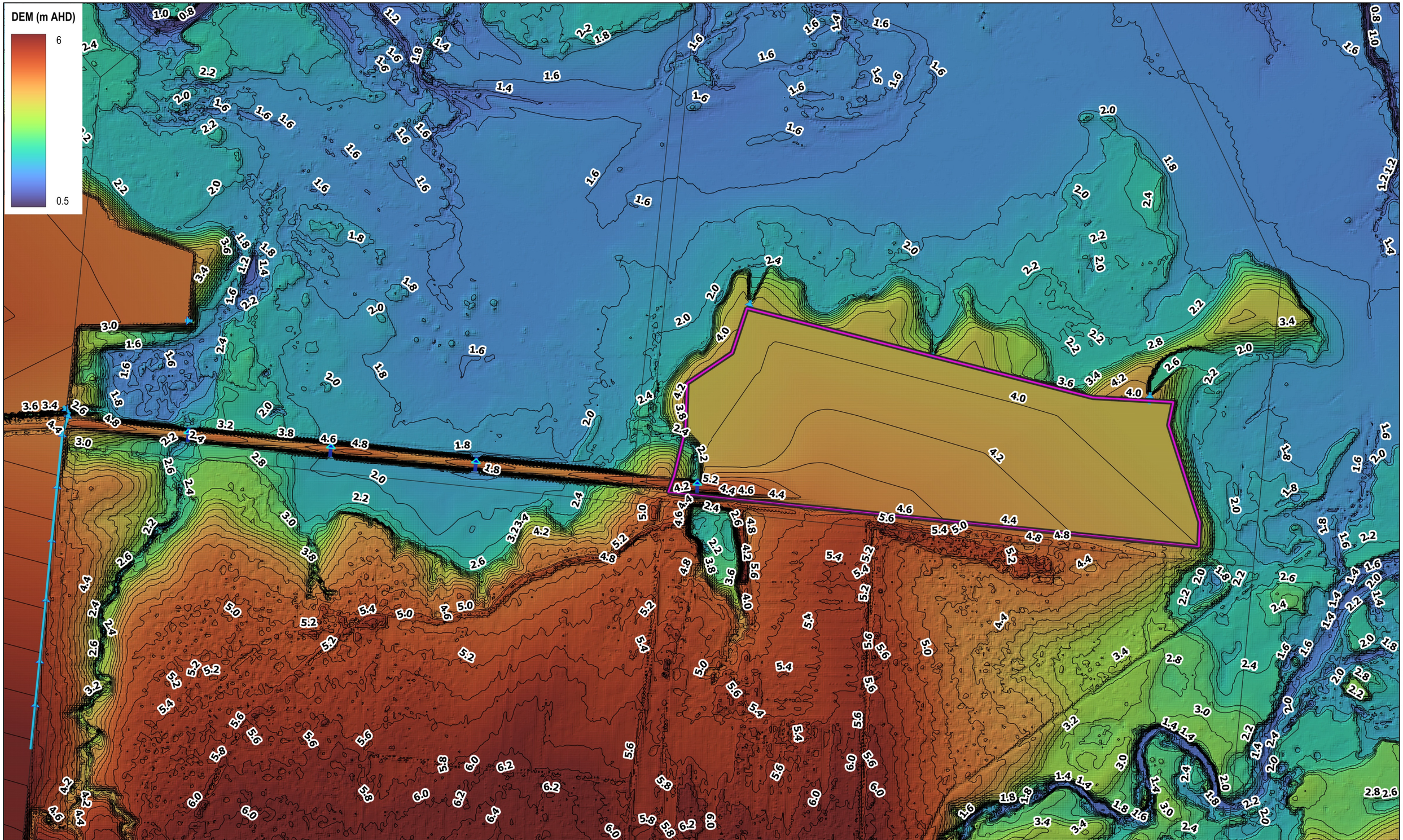
Legend

- TCC_Land_Parcels
- 2d Model Extent
- Site_boundary
- Rain on Grid Extent
- TCC Model Extracted Culvert Inflows
- TCC Model Extracted Inflows
- Model Outlet Boundary Condition

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

Model Setup, Configuration and Locality

Prepared By: AW Reviewed by: AW	Date: **13/02/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **A01**



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

Legend

- TCC_Land_Parcels
- Site_boundary
- Circular pipes
- Box Culverts

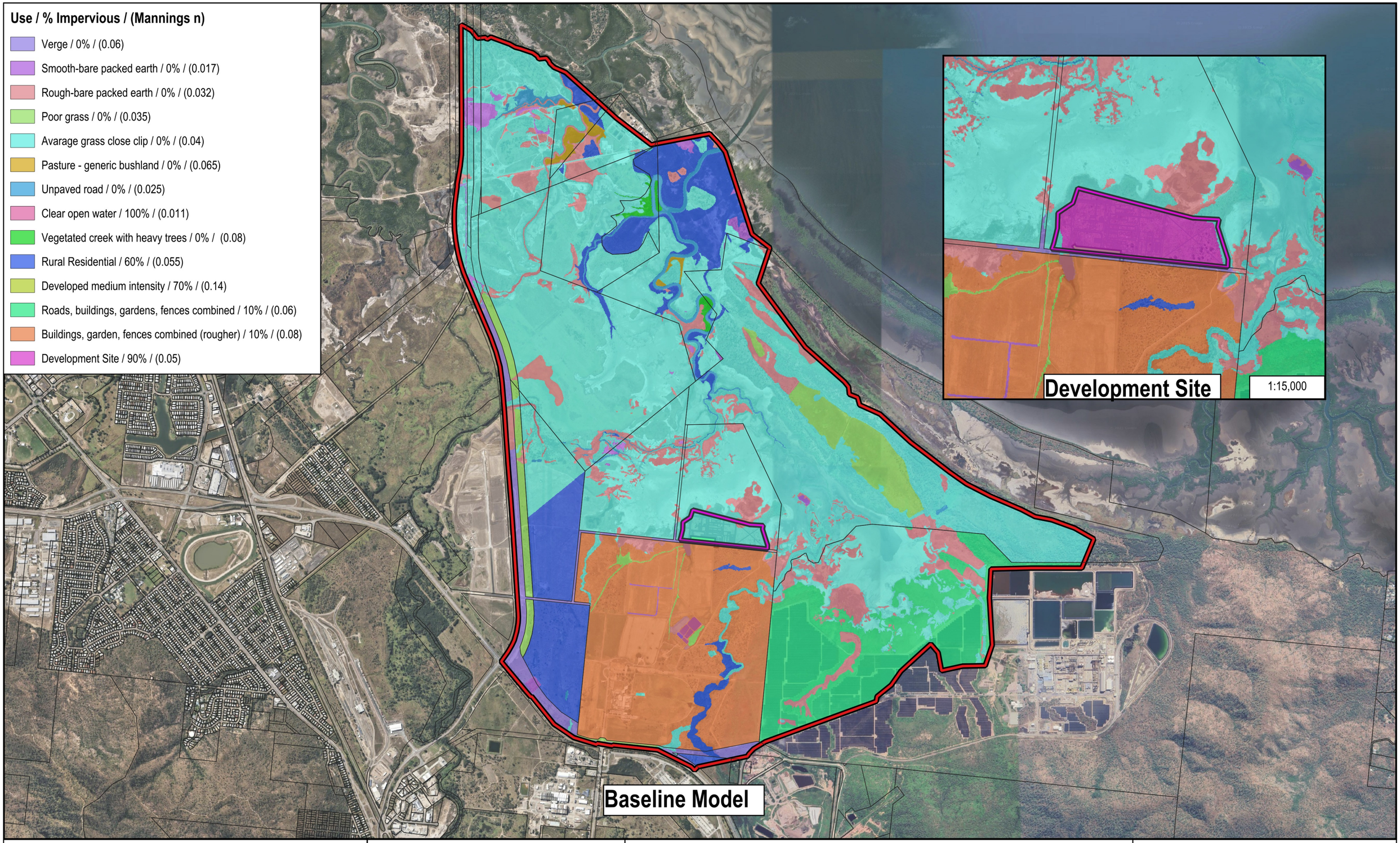
JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

Baseline Digital Elevation Model (DEM)

Prepared By: AW	Date: 21/03/25	Size	Map
Reviewed by: AW	Revision: B	A3	A02
	NCE Ref: MJ2601		

Use / % Impervious / (Mannings n)

- Verge / 0% / (0.06)
- Smooth-bare packed earth / 0% / (0.017)
- Rough-bare packed earth / 0% / (0.032)
- Poor grass / 0% / (0.035)
- Avarage grass close clip / 0% / (0.04)
- Pasture - generic bushland / 0% / (0.065)
- Unpaved road / 0% / (0.025)
- Clear open water / 100% / (0.011)
- Vegetated creek with heavy trees / 0% / (0.08)
- Rural Residential / 60% / (0.055)
- Developed medium intensity / 70% / (0.14)
- Roads, buildings, gardens, fences combined / 10% / (0.06)
- Buildings, garden, fences combined (rougher) / 10% / (0.08)
- Development Site / 90% / (0.05)



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In Association With:

LONG ENERGY AND RESOURCES

0 250 500 750 1,000 1,250 1,500 m

1:30,000

N

Legend

- Land Parcels
- 2D Model Extent
- Development Extent

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

Land Use and Roughness

Prepared By: IG Reviewed by: AW	Date: **22/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **A03**

Afflux (m)

- Below -1.00
- -0.50 - -1.00
- -0.30 - -0.50
- -0.10 - -0.30
- -0.05 - -0.10
- -0.01 - -0.05
- -0.01 - 0.01
- 0.01 - 0.02
- 0.02 - 0.03
- 0.03 - 0.05
- 0.05 - 0.10
- 0.10 - 0.30
- Above 0.30

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In Association With:

LONG ENERGY AND RESOURCES

0 150 300 450 600 750 m

1:15,000

N

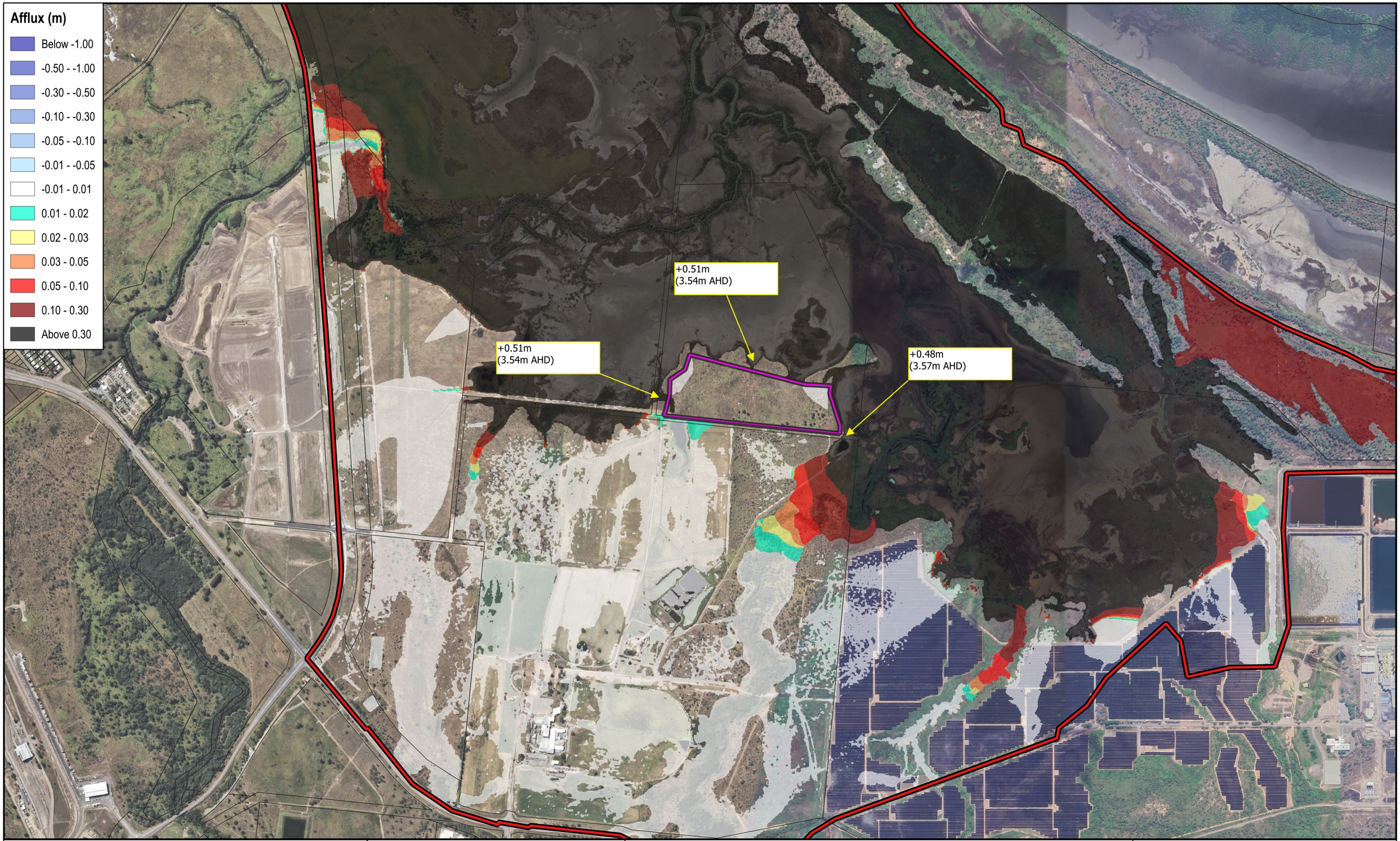
Legend

- Land Parcels
- 2D Model Extent
- Development Extent

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

Baseline Model Verification (NCE Mini Model Minus 2021 Ross River Model WSE)

Prepared By: IG	Date: 21/03/2025	Size	Map
Reviewed by: AW	Revision: A	A3	A04
	NCE Ref: MJ2601		



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In Association With:

LONG ENERGY AND RESOURCES

0 150 300 450 600 750 m

1:15,000

N

Legend

- Land Parcels
- Development Extent
- 2D Model Extent

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

Developed Joint Probability Sensitivity (NCE 1% AEP CC Joint Prob Minus 1% AEP CC WSE)

Prepared By: AW	Date: 22/03/2025	Size	Map
Reviewed by: AW	Revision: A	A3	A05
	NCE Ref: MJ2601		



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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

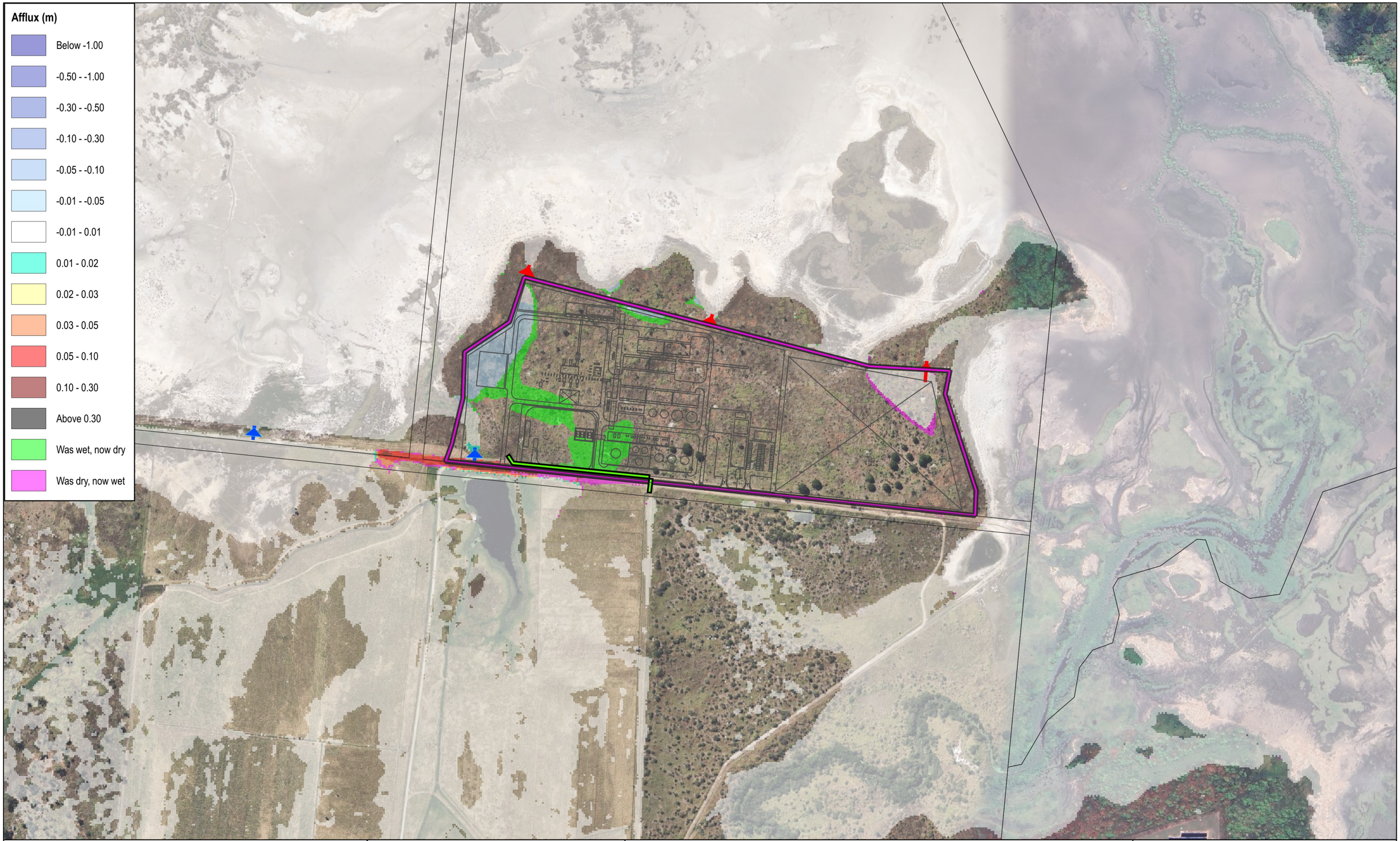
JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

Summary 0.5% AEP & 1% AEP Maximum Developed WSE

Prepared By: IG Reviewed by: AW	Date: 21/03/25 Revision: A NCE Ref: MJ2601	Size A3	Map A06

APPENDIX B

Flood Afflux Results



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

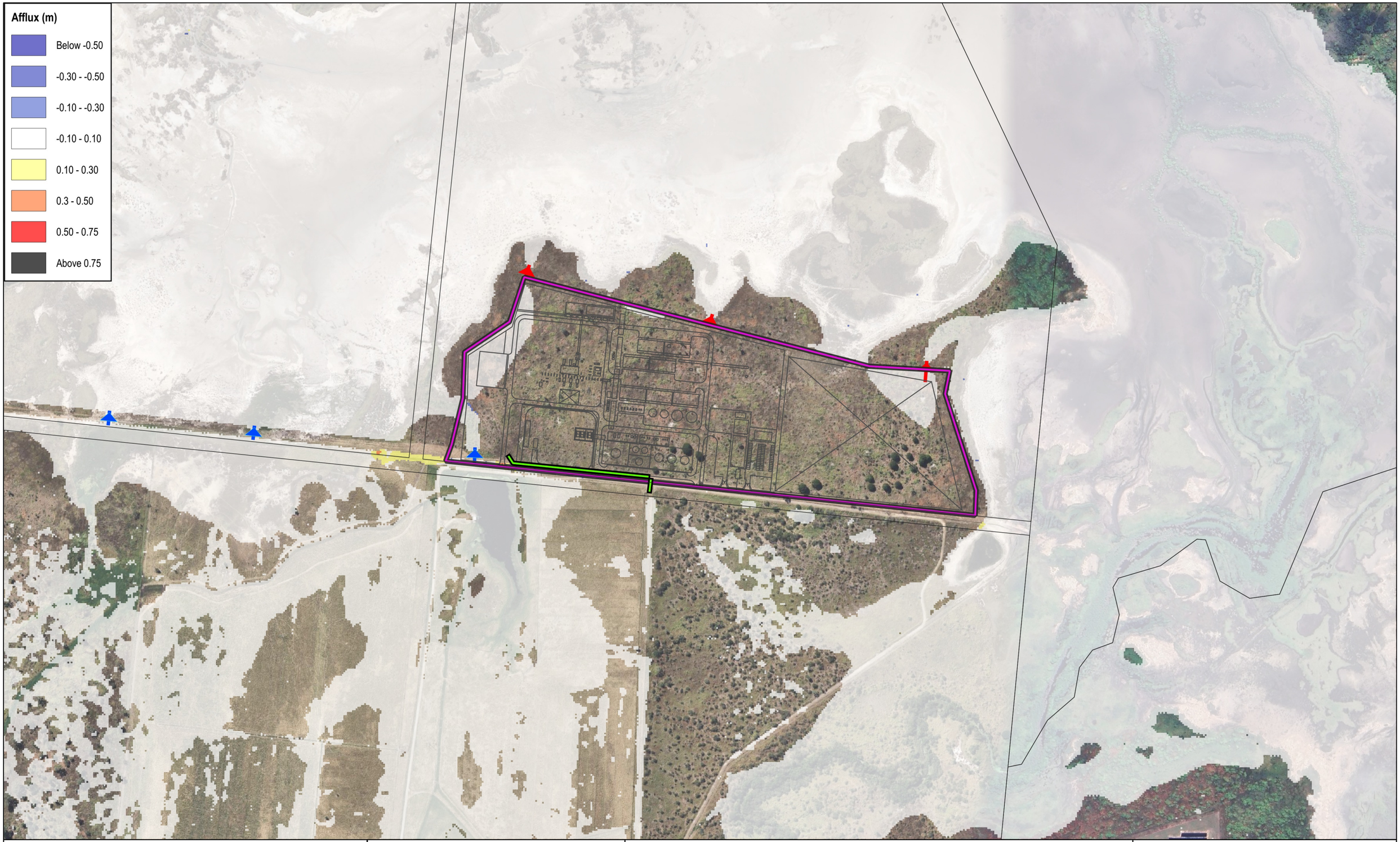
Legend

- 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 WSE Afflux

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: B NCE Ref: MJ2601	Size A3	Map B01



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

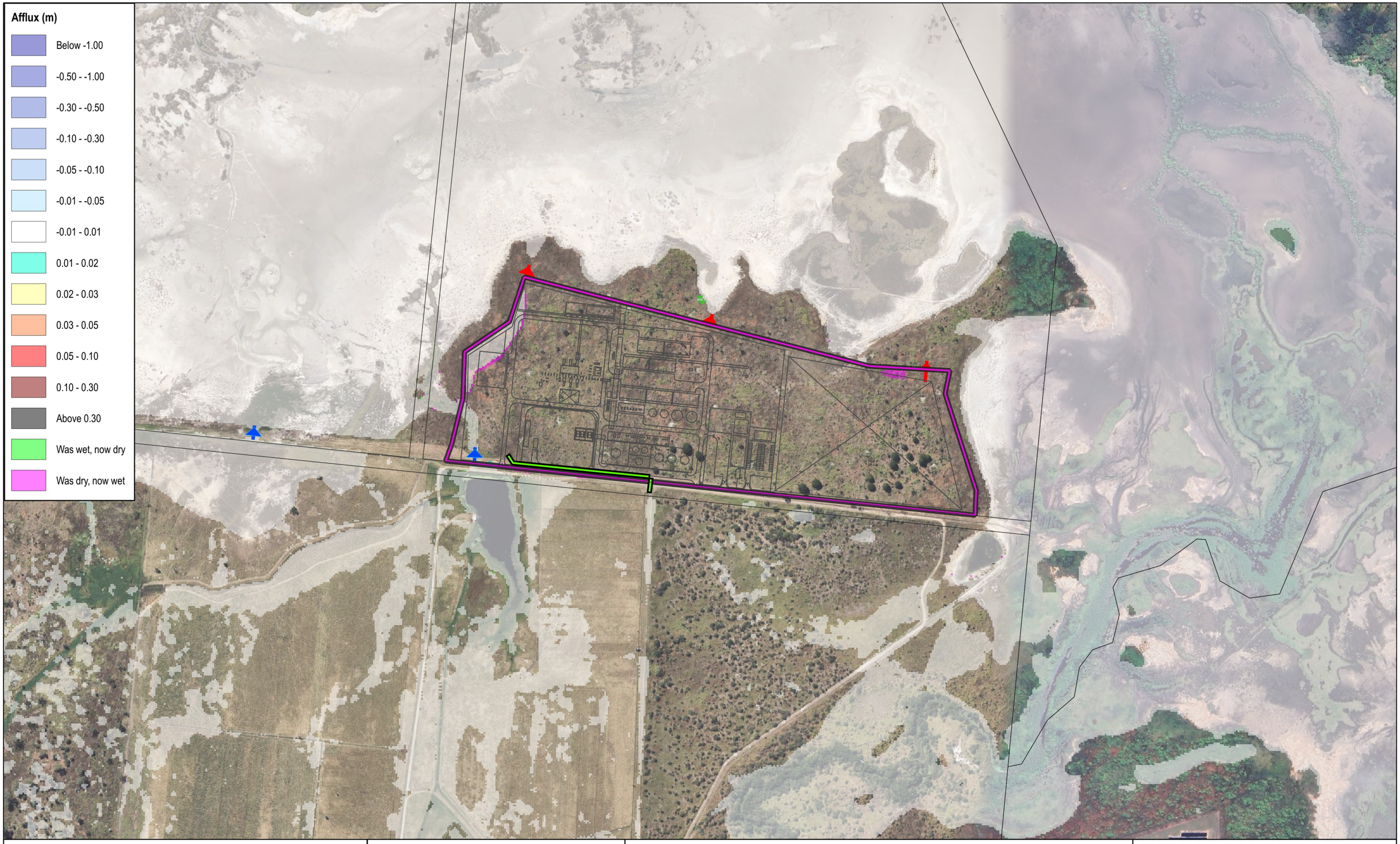
Legend

- 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 Velocity Afflux

Prepared By: IG Reviewed by: AW	Date: **20/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **B02**



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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 WSE Afflux

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map B03



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

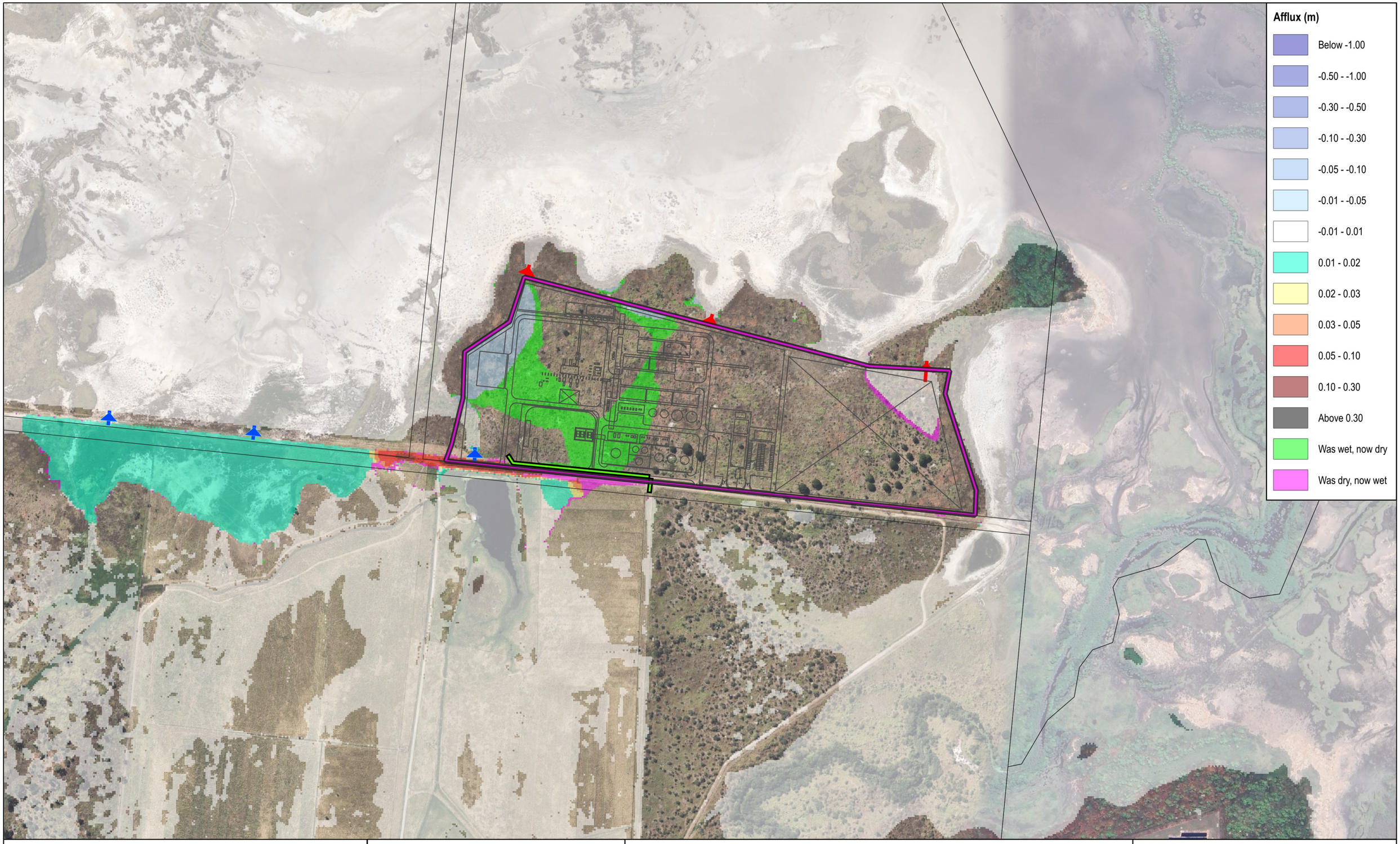
Legend

- 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 Velocity Afflux

Prepared By: IG Reviewed by: AW	Date: 20/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map B04



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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

0.5% AEP Maximum WSE Afflux - Sensitivty

Prepared By: IG Reviewed by: AW	Date: **24/03/2025** Revision: **B** NCE Ref: **MJ2601**	Size **A3**	Map **B05**



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

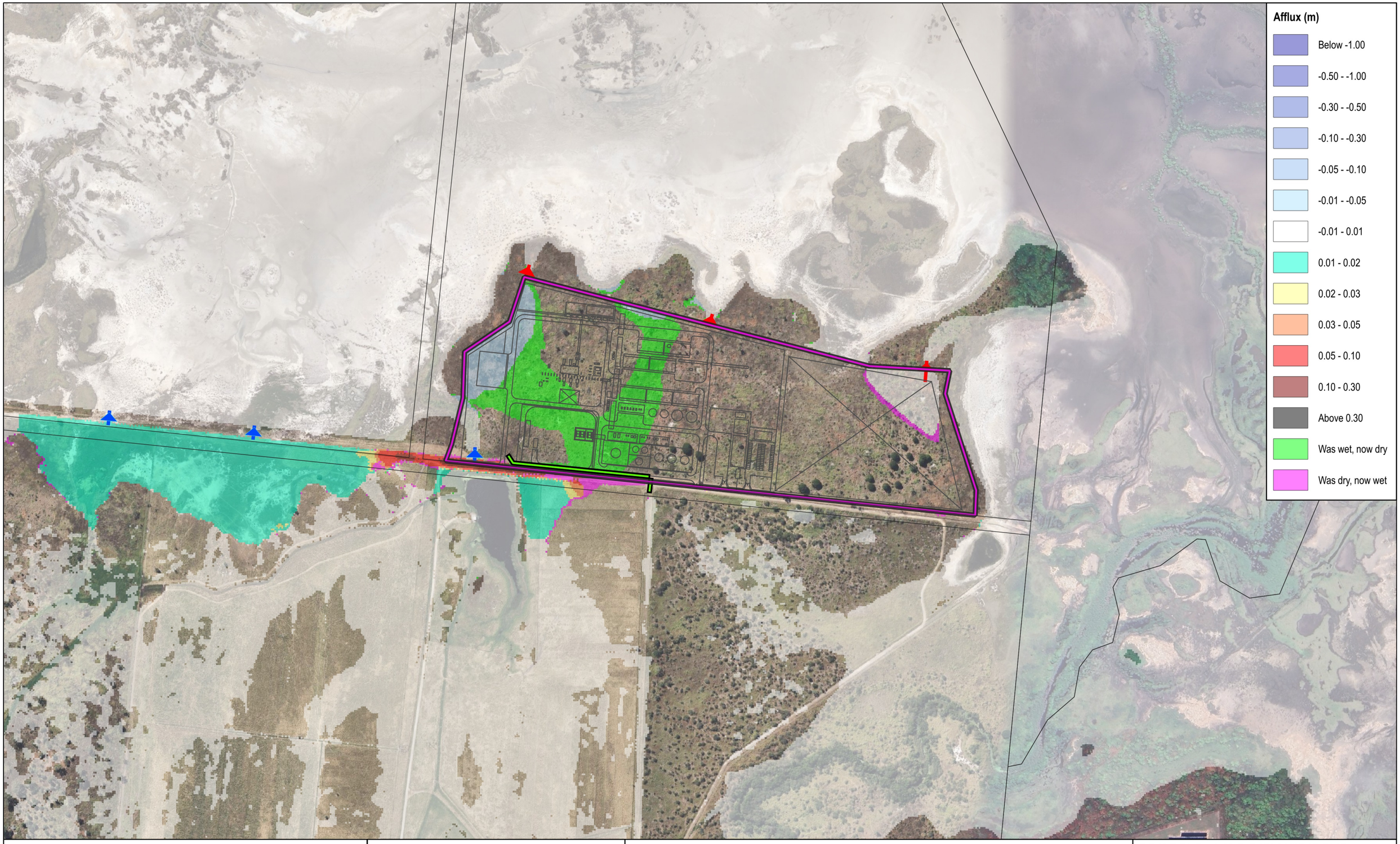
Legend

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

JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

0.5% AEP Maximum Velocity Afflux - Sensitivity

Prepared By: IG Reviewed by: AW	Date: 24/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map B06



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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 WSE Afflux - Sensitivity

Prepared By: IG Reviewed by: AW	Date: **24/03/2025** Revision: **B** NCE Ref: **MJ2601**	Size **A3**	Map **B07**



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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

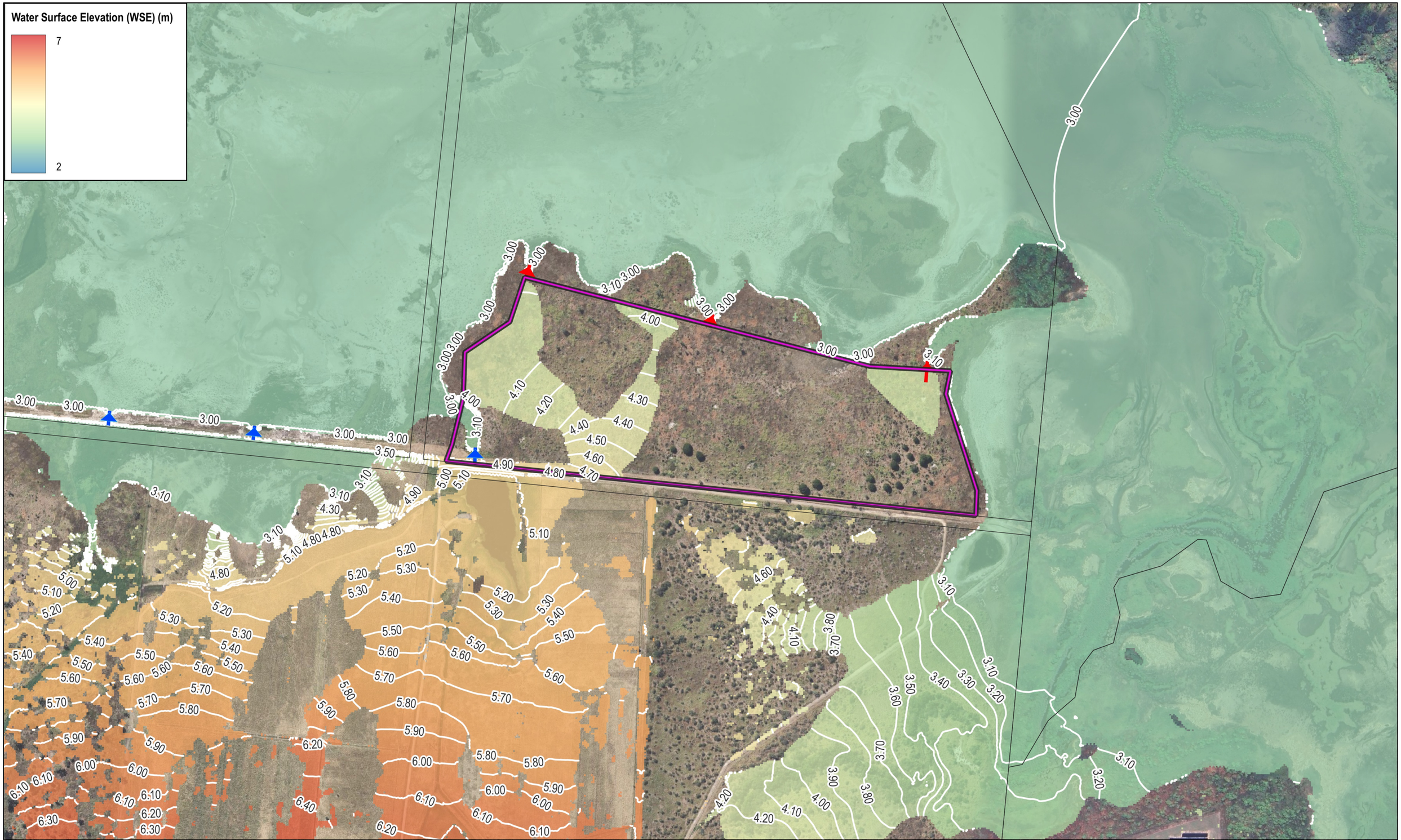
JET ZERO - PROJECT ULYSSES
STUART, TOWNSVILLE

1% AEP CC Maximum Velocity Afflux - Sensitivity

Prepared By: IG Reviewed by: AW	Date: **24/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **B08**

APPENDIX C

Water Surface Elevation Results



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

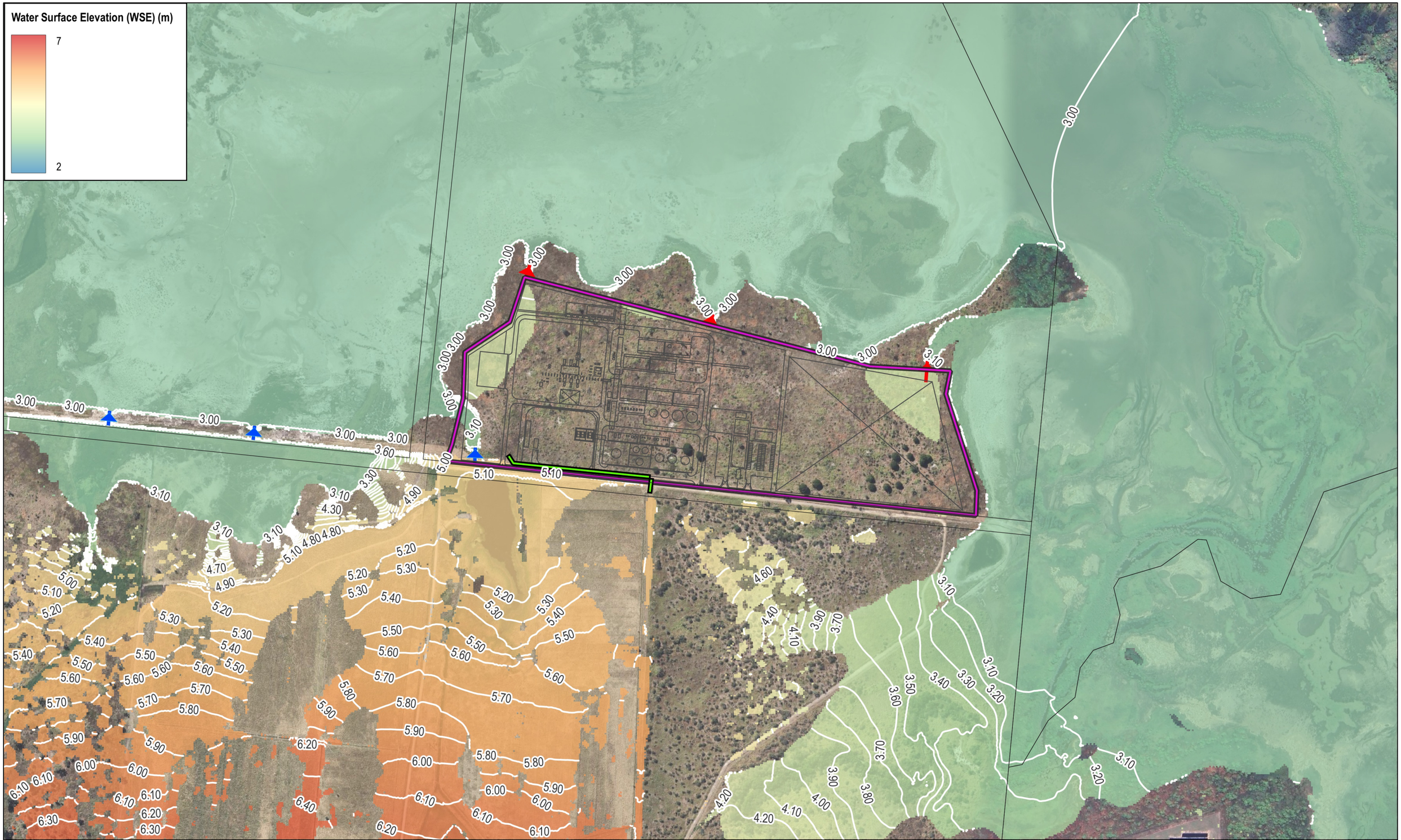
Legend

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

JET ZERO - PROJECT ULYSSES STUART, TOWNSVILLE

0.5% AEP Maximum Baseline Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: 19/03/2025 Revision: A NCE Ref: MJ2601	Size A3	Map C01



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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

0.5% AEP Maximum Developed Water Surface Elevations

Prepared By: IG Reviewed by: AW	Date: **19/03/2025** Revision: **A** NCE Ref: **MJ2601**	Size **A3**	Map **C02**



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

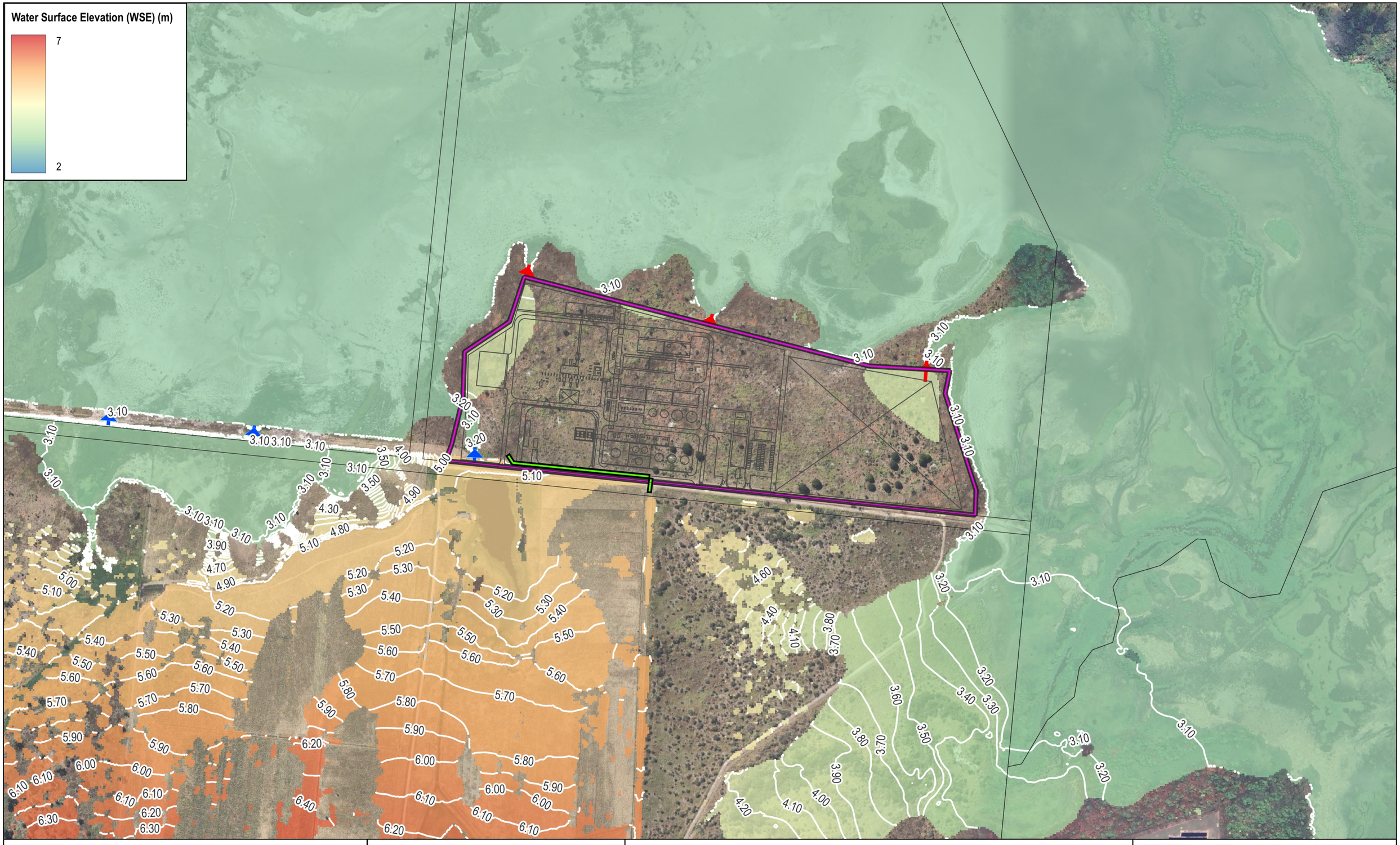
Legend

- 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



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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



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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



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In Association With:

LONG ENERGY AND RESOURCES

0 50 100 150 200 250 m

1:5,000

N

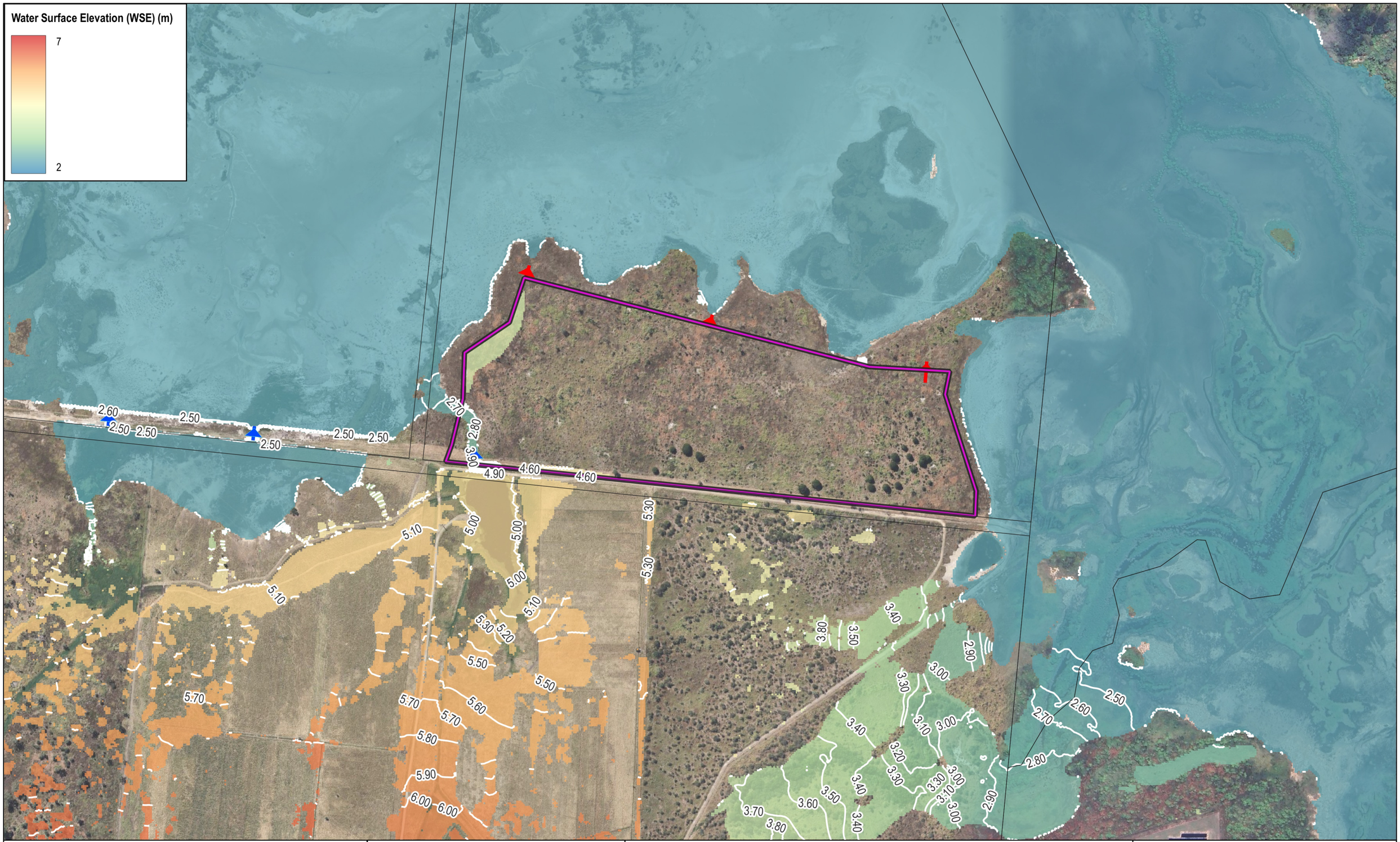
Legend

- 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**



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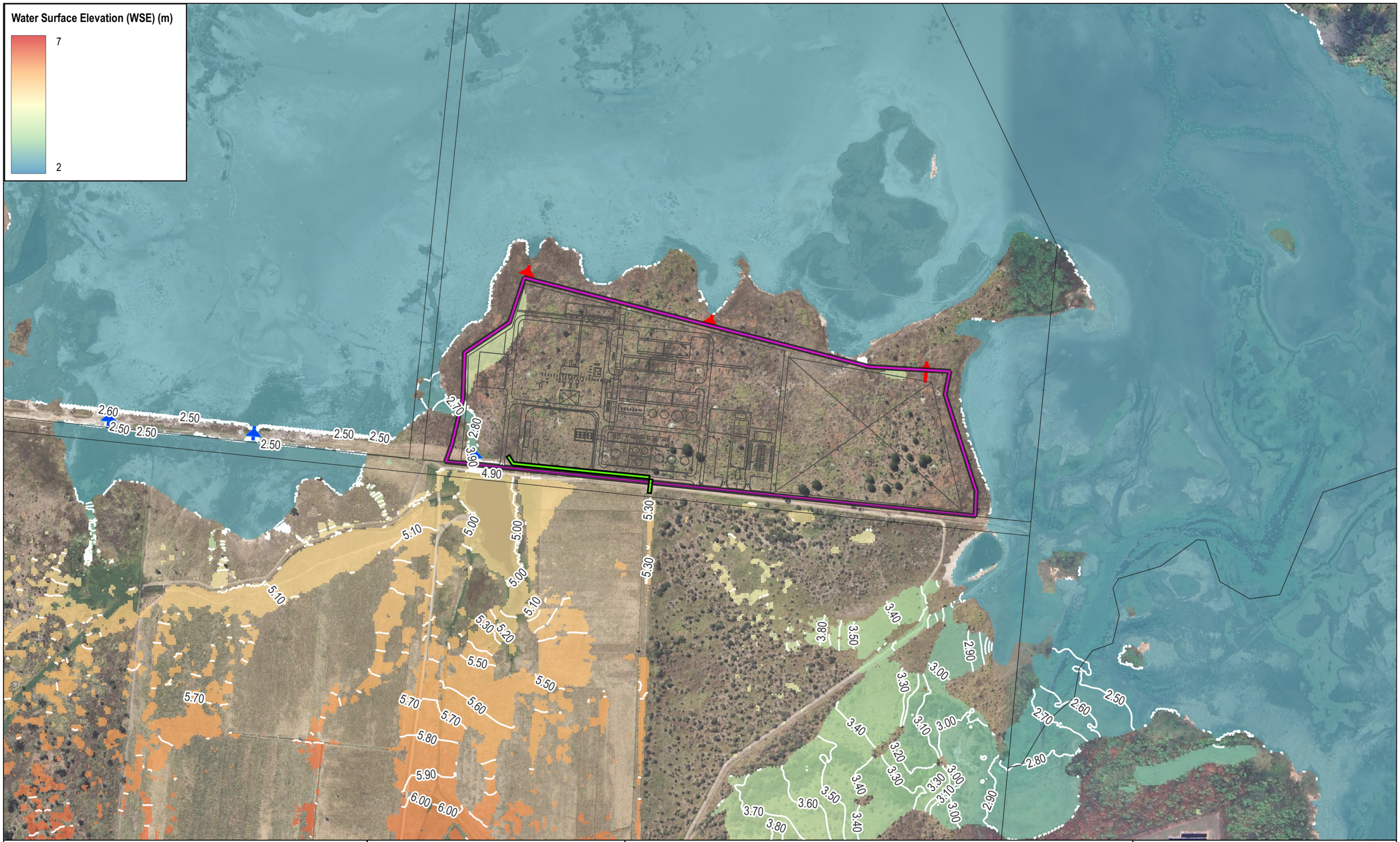
Legend

- 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**



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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