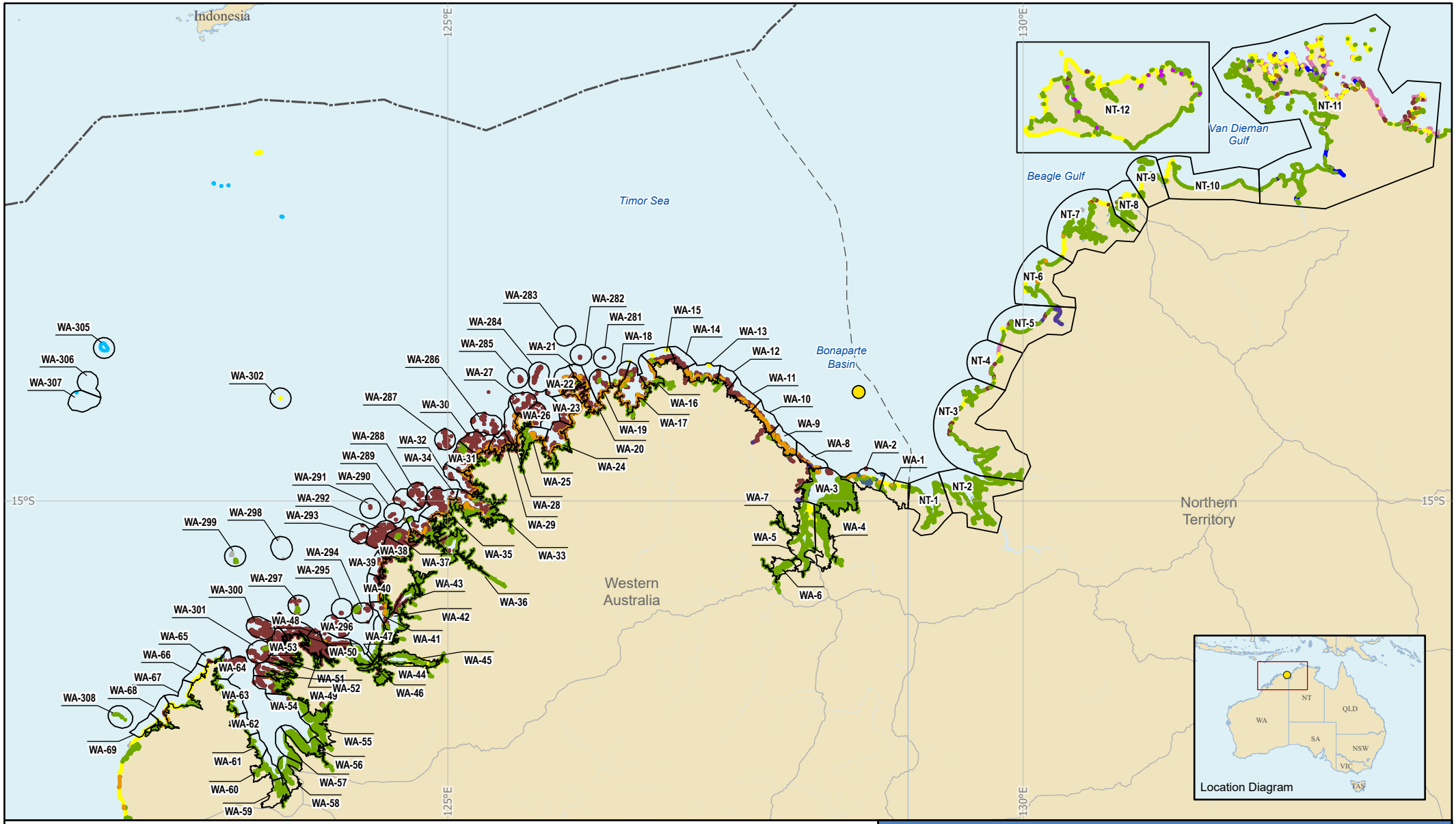
Appendix 16
Shoreline Types within the EMBA



LEGEND

- Beehive-1
- Coast cells
- Australian Exclusive Economic Zone
- Offshore State Boundaries

Shoreline

- *Alluvial sediment \ plain*
- *Beach sediment \ ridges*
- *Colluvium*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Marshy sediment flats \ Marshy saline sediment flats*
- *Mixed sandy shore \ Mixed sandy sediments on bedrock*
- *Muddy sediments \ alluvium \ sediment flats*
- *Reef \ Coral outer with sandy shore*
- *Rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Sediment plain \ sediment deposits*
- *Soft bedrock*
- *Unclassified*

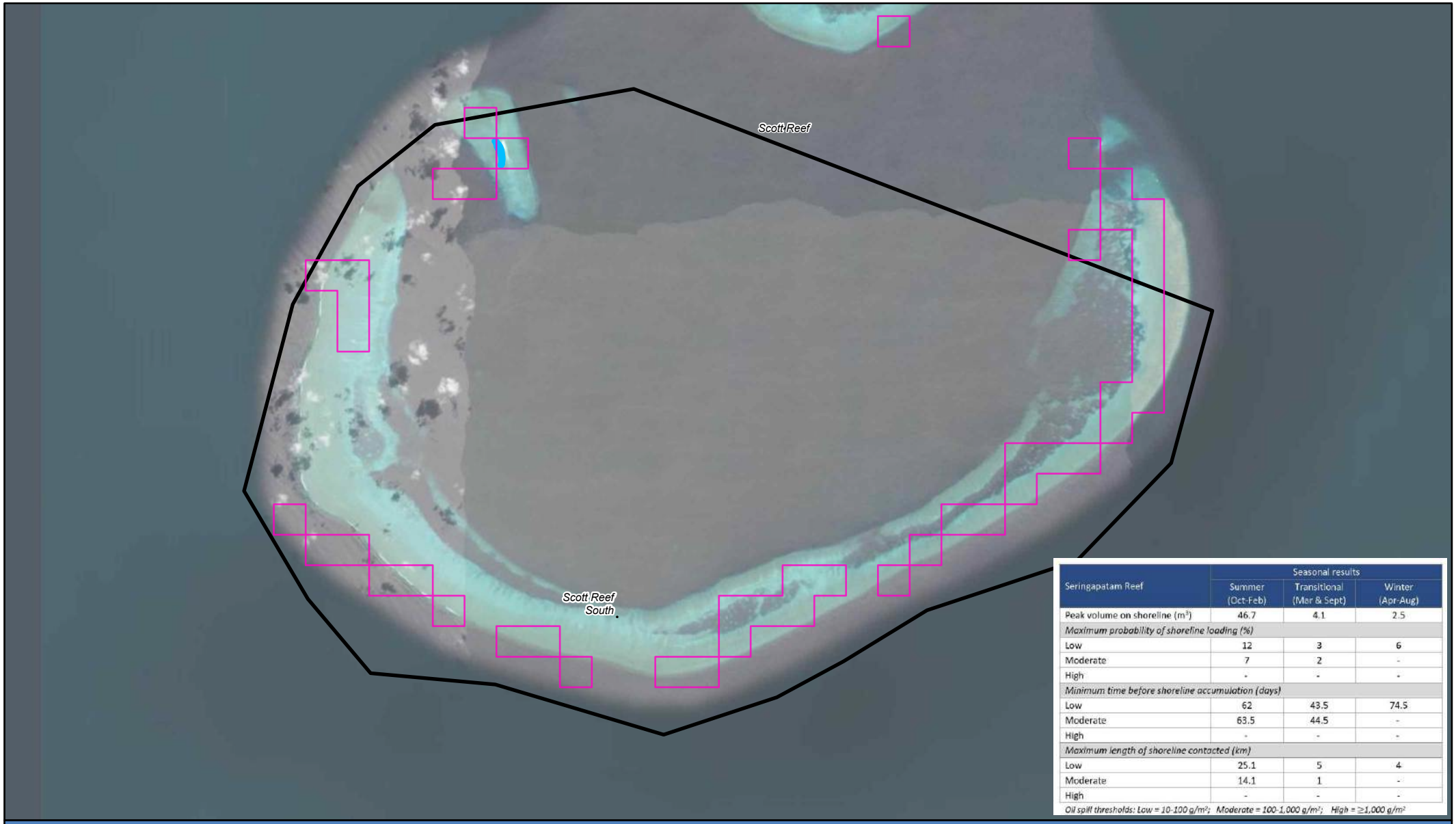
SHORELINE RECEPTOR MAP - OVERVIEW

eog

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PROJECT: Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:5,000,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series Overview	SHEET: INDEX	REV: E

0 100 200 km



Seringapatam Reef	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	46.7	4.1	2.5
Maximum probability of shoreline loading (%)			
Low	12	3	6
Moderate	7	2	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	62	43.5	74.5
Moderate	63.5	44.5	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	25.1	5	4
Moderate	14.1	1	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - SERINGAPATAM REEF (WAMOPRA DOT CELL 307)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

- *Reef \ Coral outer with sandy shore*

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PROJECT: Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:170,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 1 of 64	REV: E

0 5 km



Ashmore Reef	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	22.2	2.5	3
Maximum probability of shoreline loading (%)			
Low	12	2	6
Moderate	3	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	63	49.5	64
Moderate	63.5	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	18.1	4	6
Moderate	11.1	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - ASHMORE REEF (WAMOPRA DOT CELL 306)

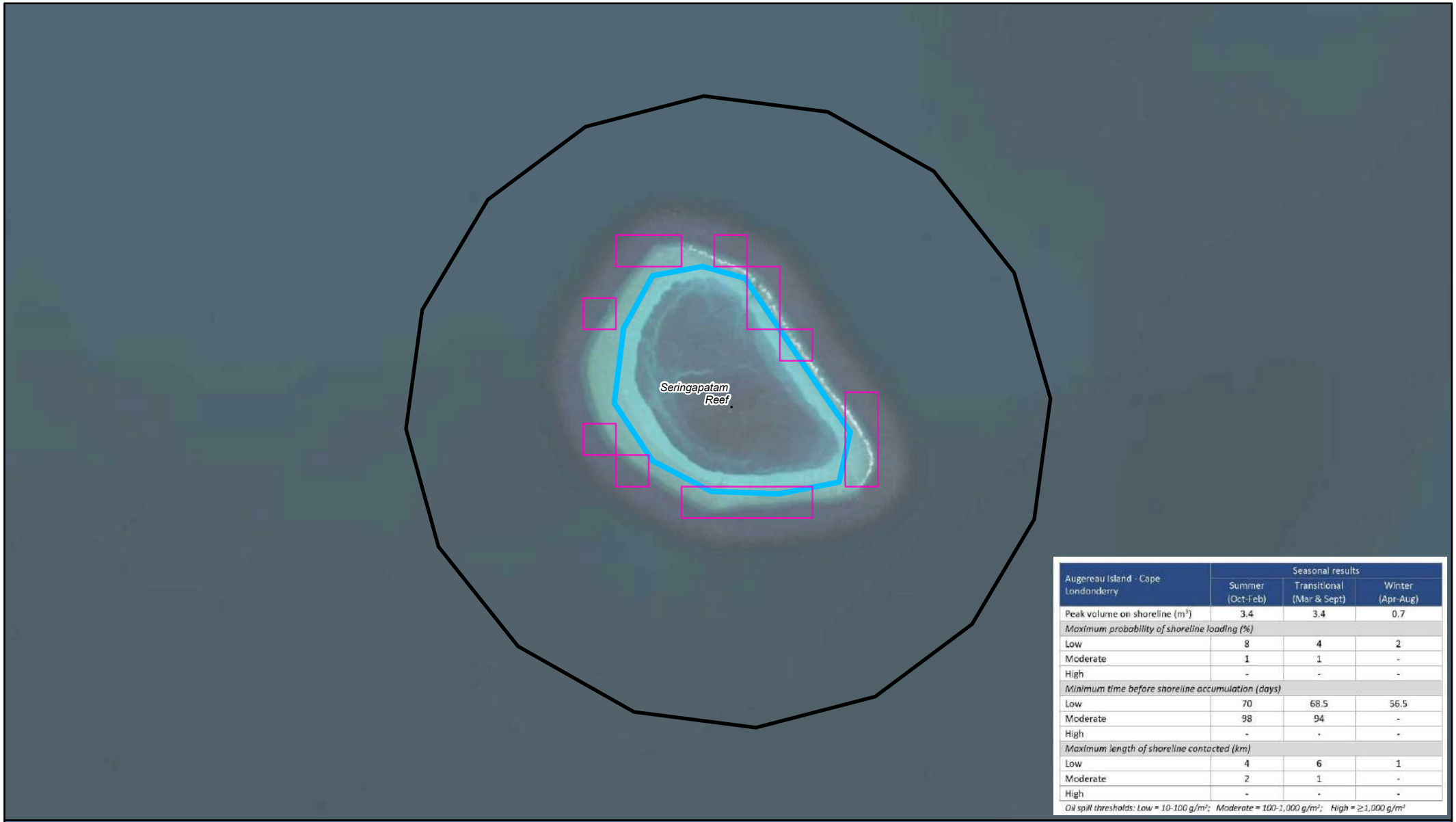
LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:205,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 2 of 64	REV E

0 5 10 km



Augereau Island - Cape Londonderry	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	3.4	3.4	0.7
Maximum probability of shoreline loading (%)			
Low	8	4	2
Moderate	1	1	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	70	68.5	56.5
Moderate	98	94	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	4	6	1
Moderate	2	1	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUGEREAU ISLAND - CAPE LONDONDERRY (WAMOPRA DOT CELL 305)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

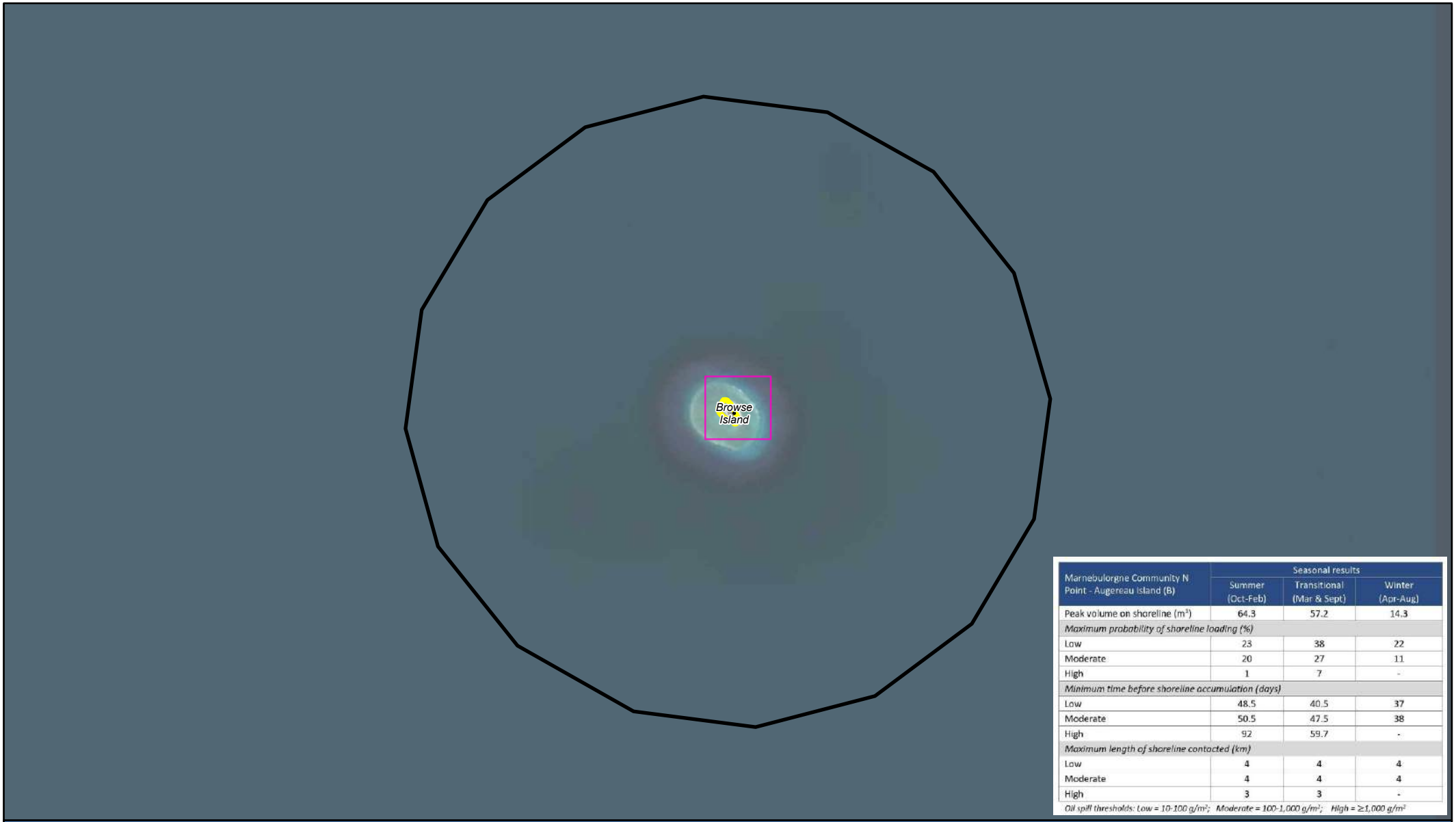
- *Reef \ Coral outer with sandy shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:165,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 3 of 64	REV E

0 5 km



Marnebulorgne Community N Point - Augereau Island (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	64.3	57.2	14.3
Maximum probability of shoreline loading (%)			
Low	23	38	22
Moderate	20	27	11
High	1	7	-
Minimum time before shoreline accumulation (days)			
Low	48.5	40.5	37
Moderate	50.5	47.5	38
High	92	59.7	-
Maximum length of shoreline contacted (km)			
Low	4	4	4
Moderate	4	4	4
High	3	3	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - MARNEBULORGNE COMMUNITY N POINT - AUGEREAU ISLAND (B) (WAMOPRA DOT CELL 302)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

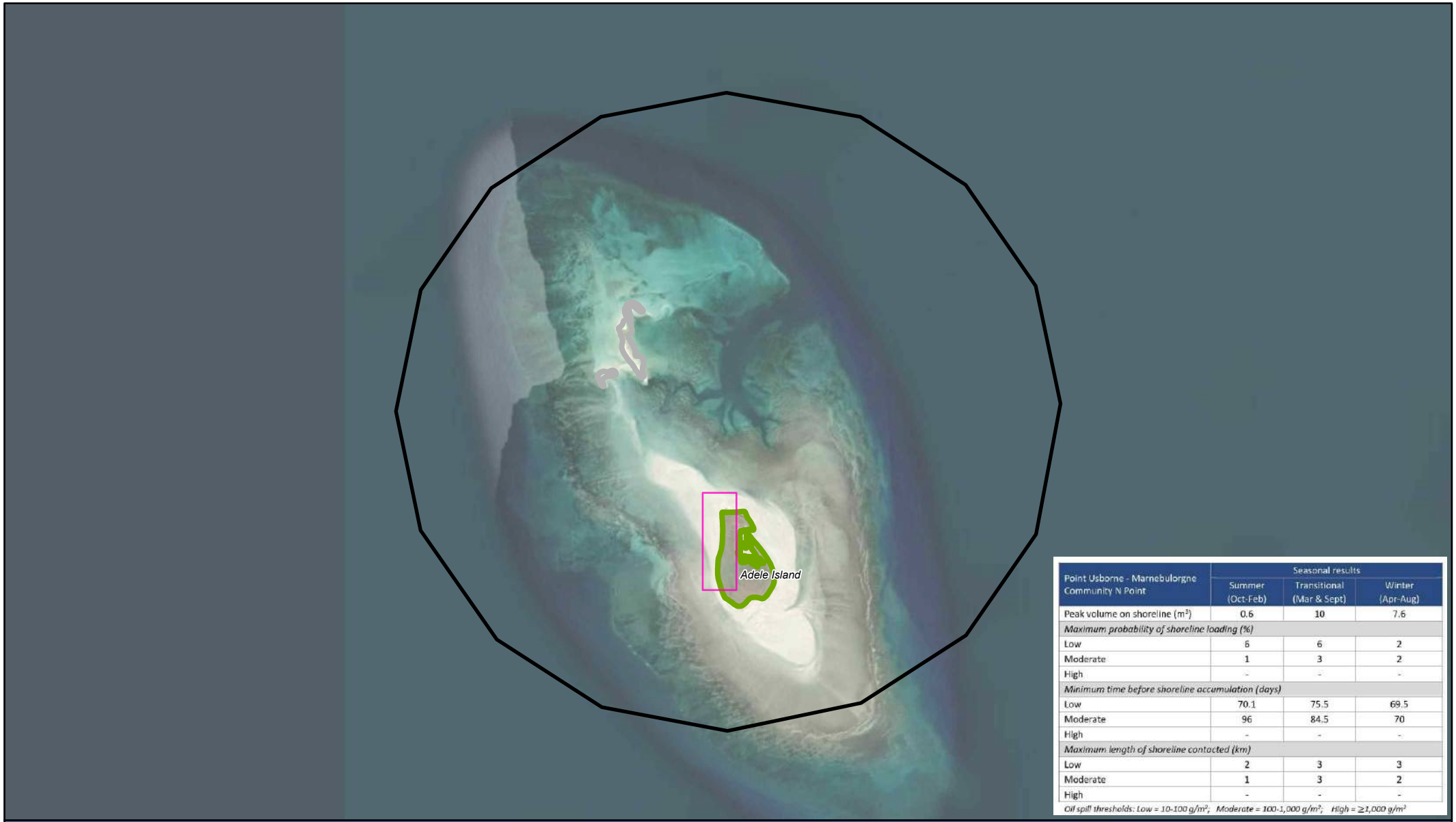
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT: Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:165,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 4 of 64	REV: E

0 5 km



Point Usborne - Marnebulorgne Community N Point	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	0.6	10	7.6
Maximum probability of shoreline loading (%)			
Low	6	6	2
Moderate	1	3	2
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	70.1	75.5	69.5
Moderate	96	84.5	70
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	2	3	3
Moderate	1	3	2
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - POINT USBORNE - MARNEBULORGNE COMMUNITY N POINT (WAMOPRA DOT CELL 299)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

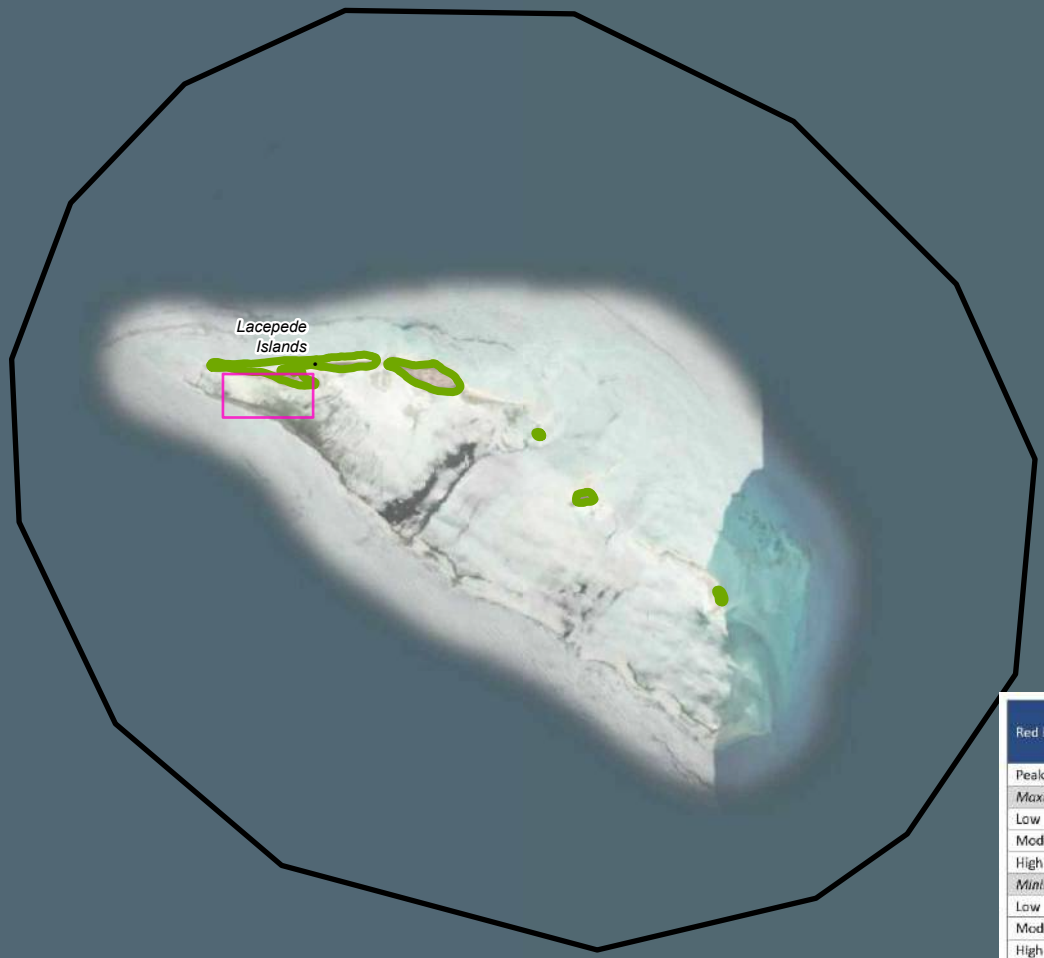
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Unclassified*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:160,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 5 of 64	REV E

0 5 km



Red Bluff - Chimney Rocks (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	0.5	0.6	-
Maximum probability of shoreline loading (%)			
Low	1	1	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	95.5	74	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	1	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = >1,000 g/m²

SHORELINE RECEPTORS - RED BLUFF - CHIMNEY ROCKS (B) (WAMOPRA DOT CELL 308)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

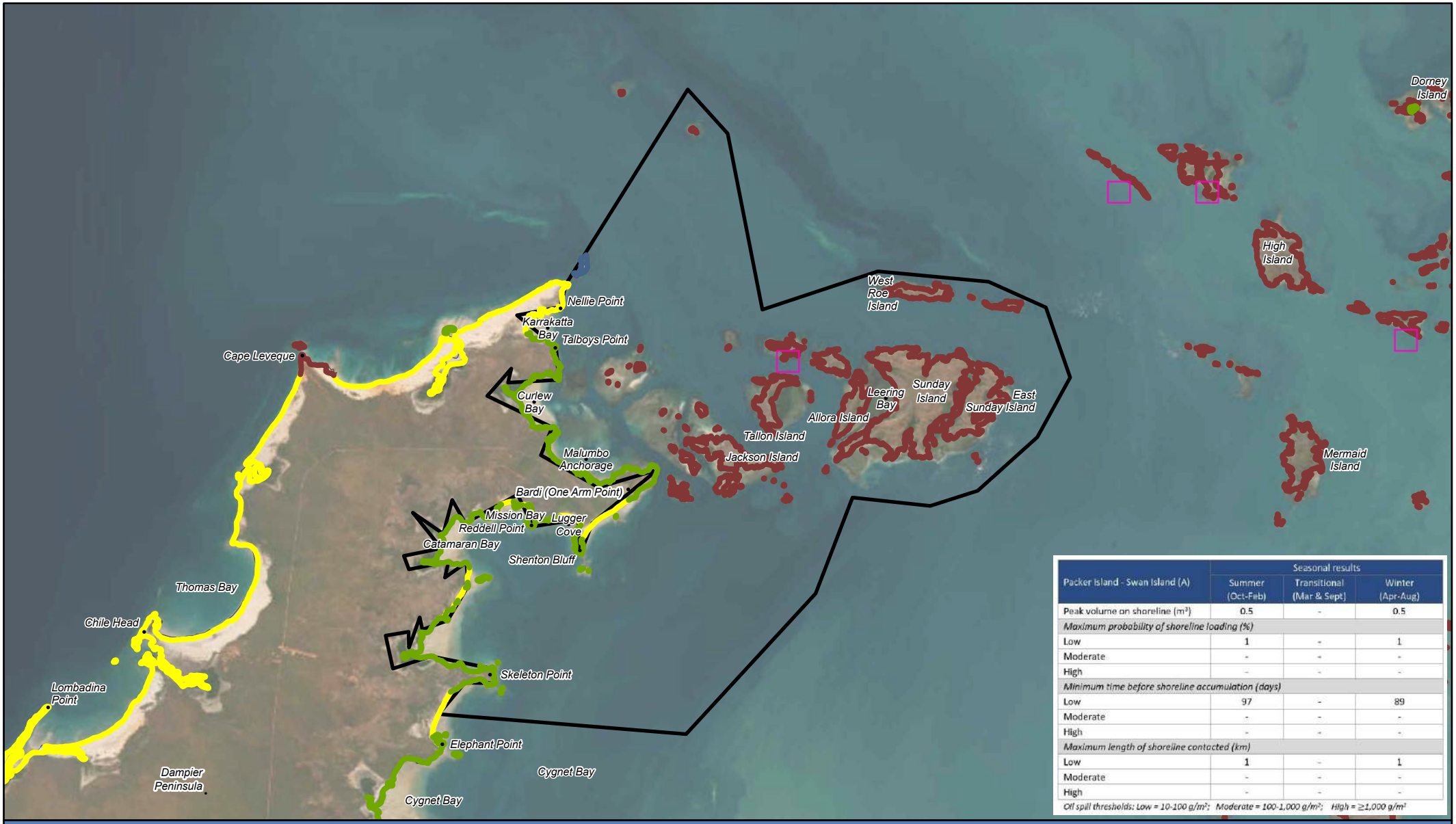
- *Tidal flats (sand, mud, sediment)* \ *Mangroves*

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PROJECT: Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:175,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 6 of 64	REV: E

0 5 km



Packer Island - Swan Island (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	0.5	-	0.5
Maximum probability of shoreline loading (%)			
Low	1	-	1
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	97	-	89
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	-	1
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - PACKER ISLAND - SWAN ISLAND (A) (WAMOPRA DOT CELL 64)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

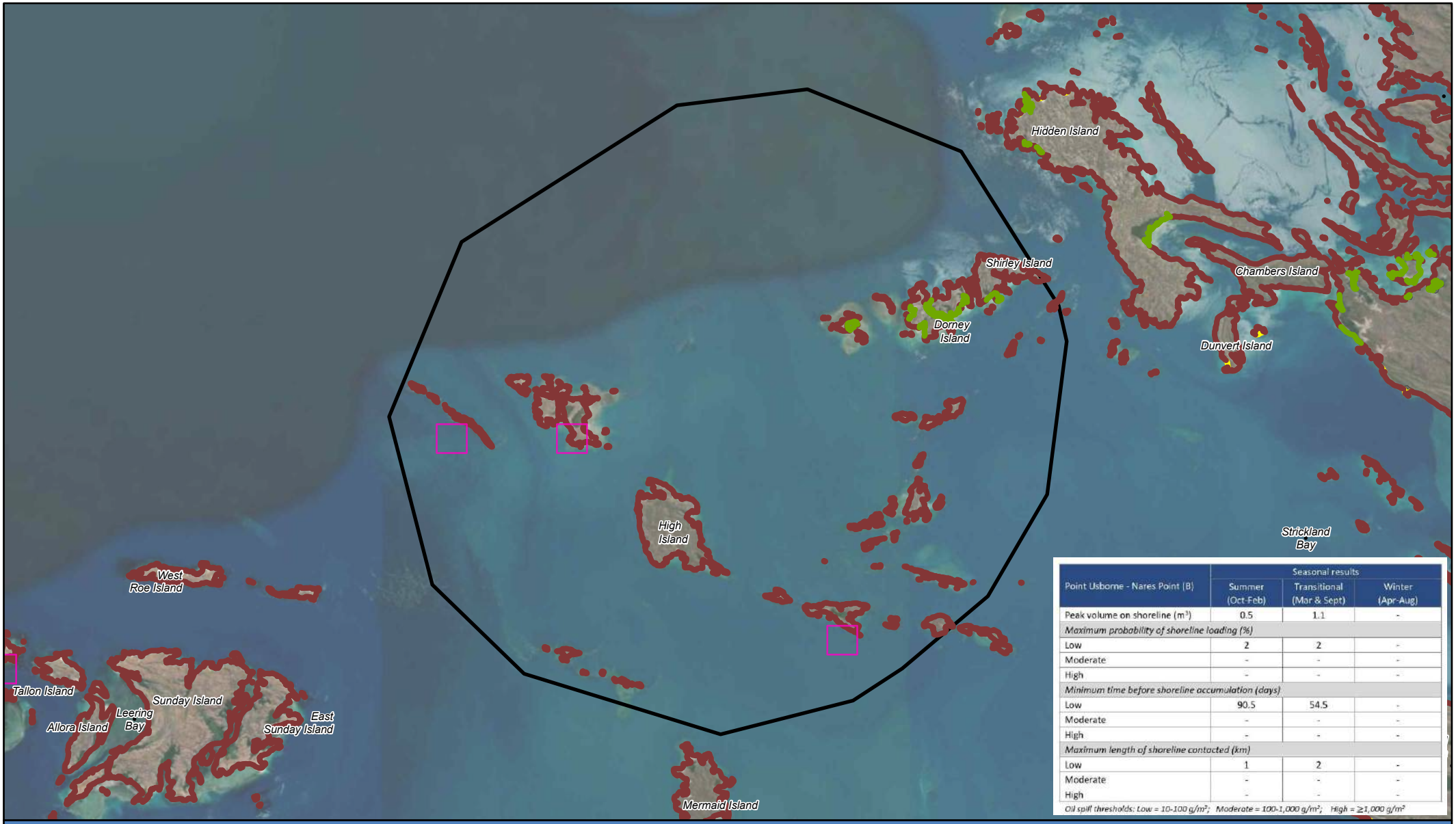
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:245,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 7 of 64	REV E

0 5 10 km



Point Usborne - Nares Point (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	0.5	1.1	-
Maximum probability of shoreline loading (%)			
Low	2	2	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	90.5	54.5	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	2	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - POINT USBORNE - NARES POINT (B) (WAMOPRA DOT CELL 301)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

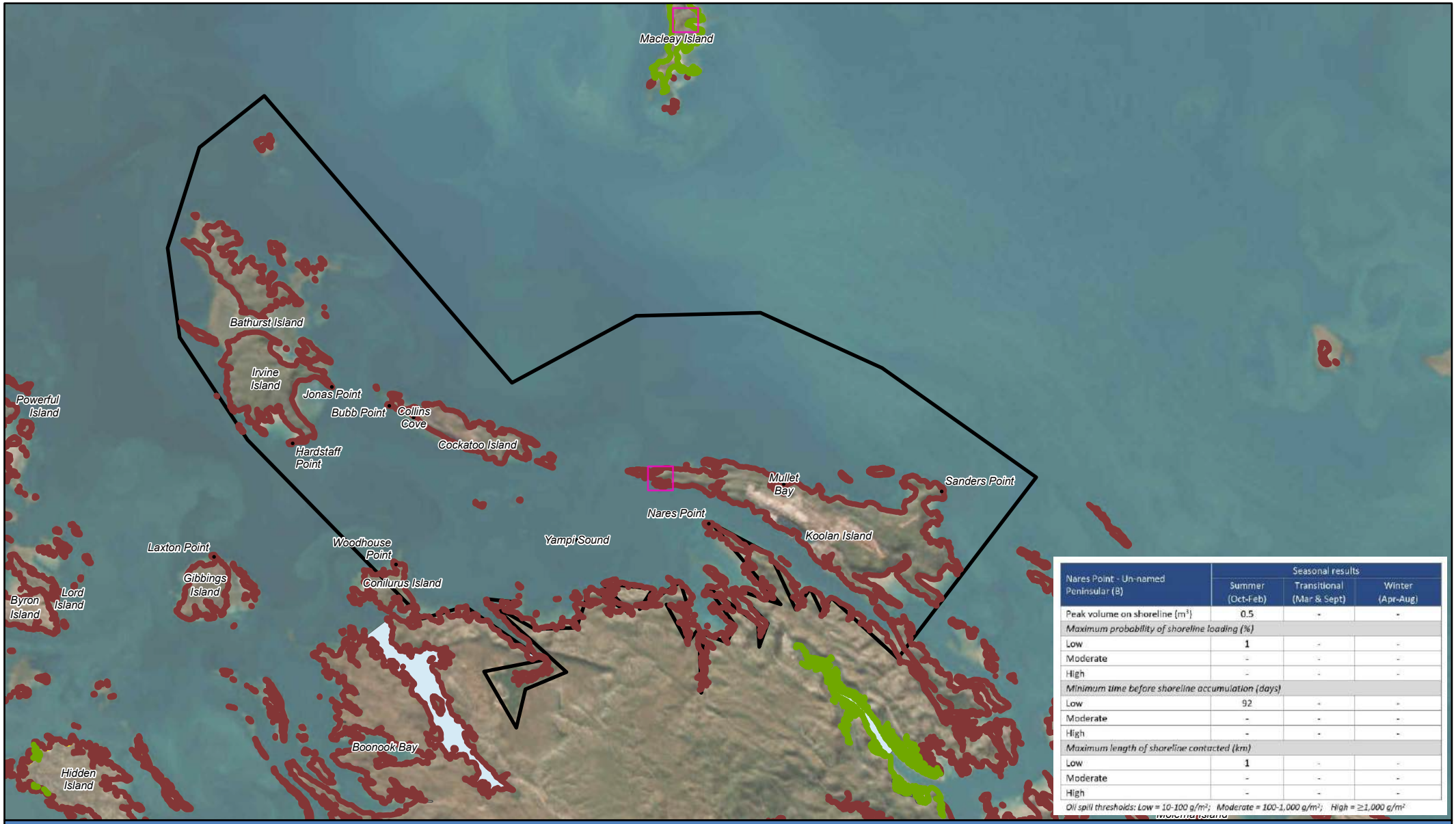
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:180,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 8 of 64	REV: E

0 5 km



Nares Point - Un-named Peninsular (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	0.5	-	-
Maximum probability of shoreline loading (%)			
Low	1	-	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	92	-	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	-	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - NARES POINT - UN-NAMED PENINSULAR (B) (WAMOPRA DOT CELL 50)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

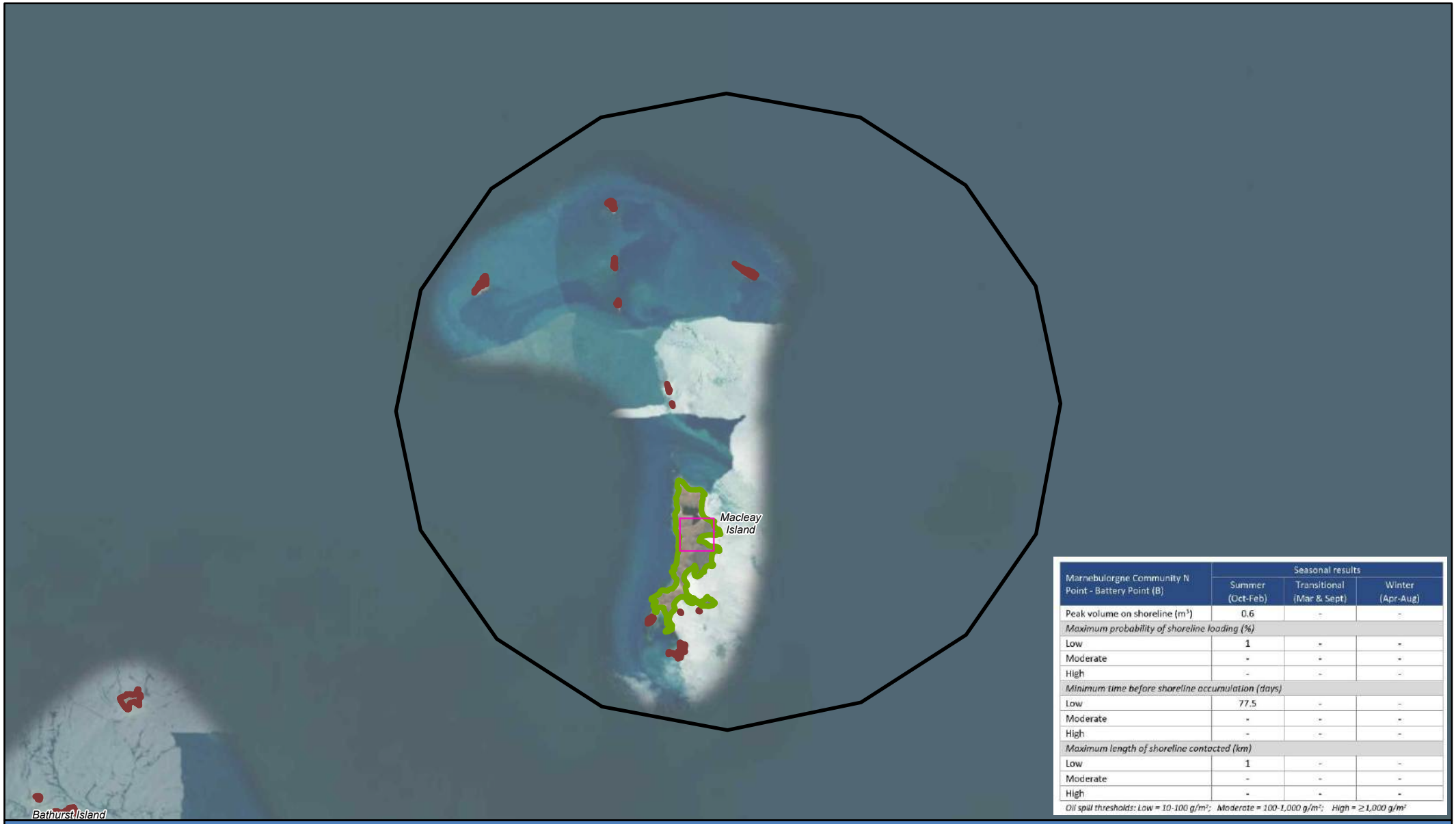
Shoreline

- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:215,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 10 of 64	REV E

0 5 10 km



Marnebulorgne Community N Point - Battery Point (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	0.6	-	-
Maximum probability of shoreline loading (%)			
Low	1	-	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	77.5	-	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	-	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - MARNEBULORGNE COMMUNITY N POINT - BATTERY POINT (B) (WAMOPRA DOT CELL 297)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

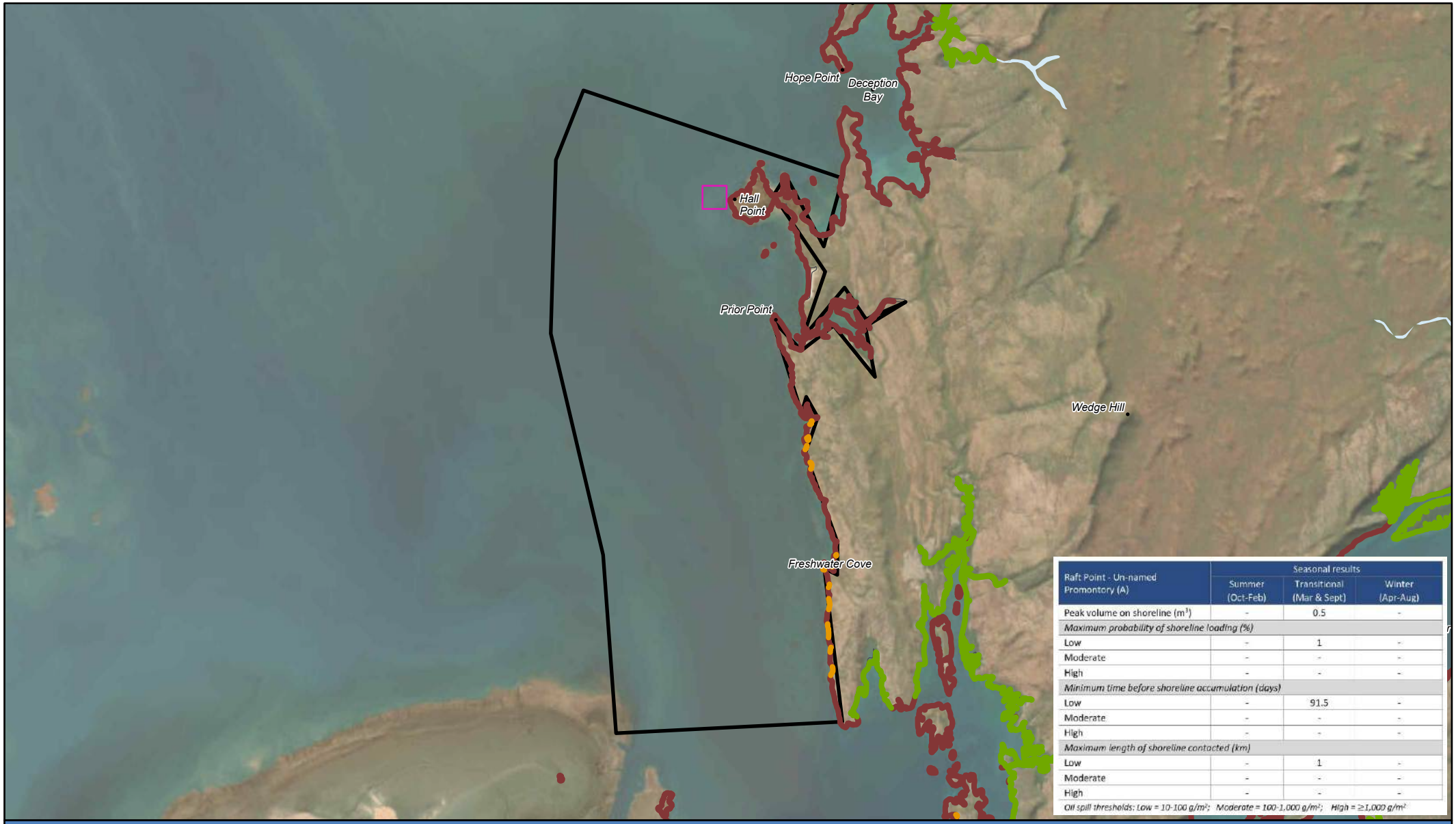
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:160,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 11 of 64	REV E

0 5 km



Raft Point - Un-named Promontory (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	-	0.5	-
Maximum probability of shoreline loading (%)			
Low	-	1	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	-	91.5	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	1	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - RAFT POINT - UN-NAMED PROMONTORY (A) (WAMOPRA DOT CELL 40)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

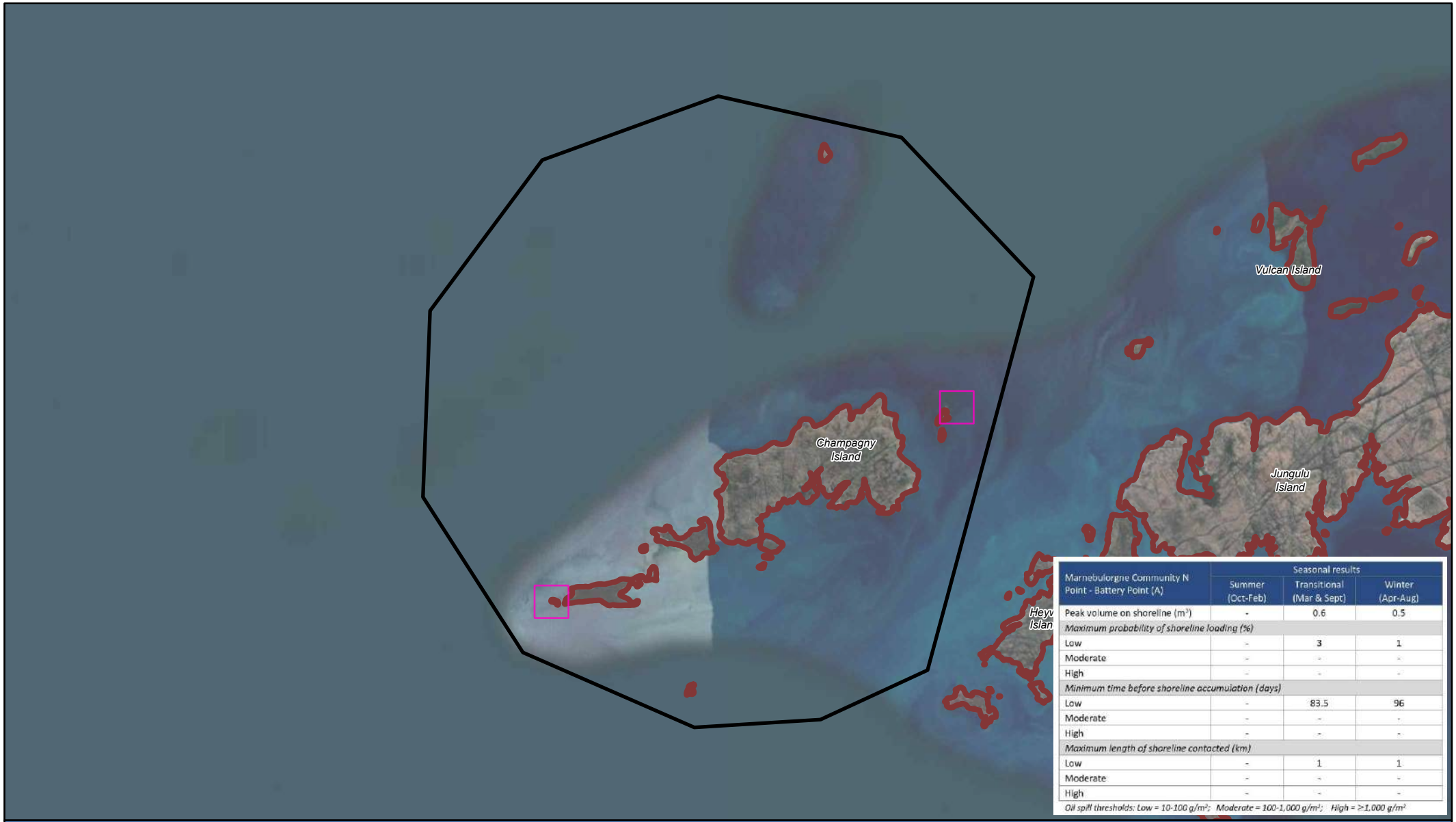
- *Beach sediment \ ridges*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:225,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 12 of 64	REV E

0 5 10 km



Marnebulorgne Community N Point - Battery Point (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	-	0.6	0.5
Maximum probability of shoreline loading (%)			
Low	-	3	1
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	-	83.5	96
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	1	1
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = >1,000 g/m²

SHORELINE RECEPTORS - MARNEBULORGNE COMMUNITY N POINT - BATTERY POINT (A) (WAMOPRA DOT CELL 293)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

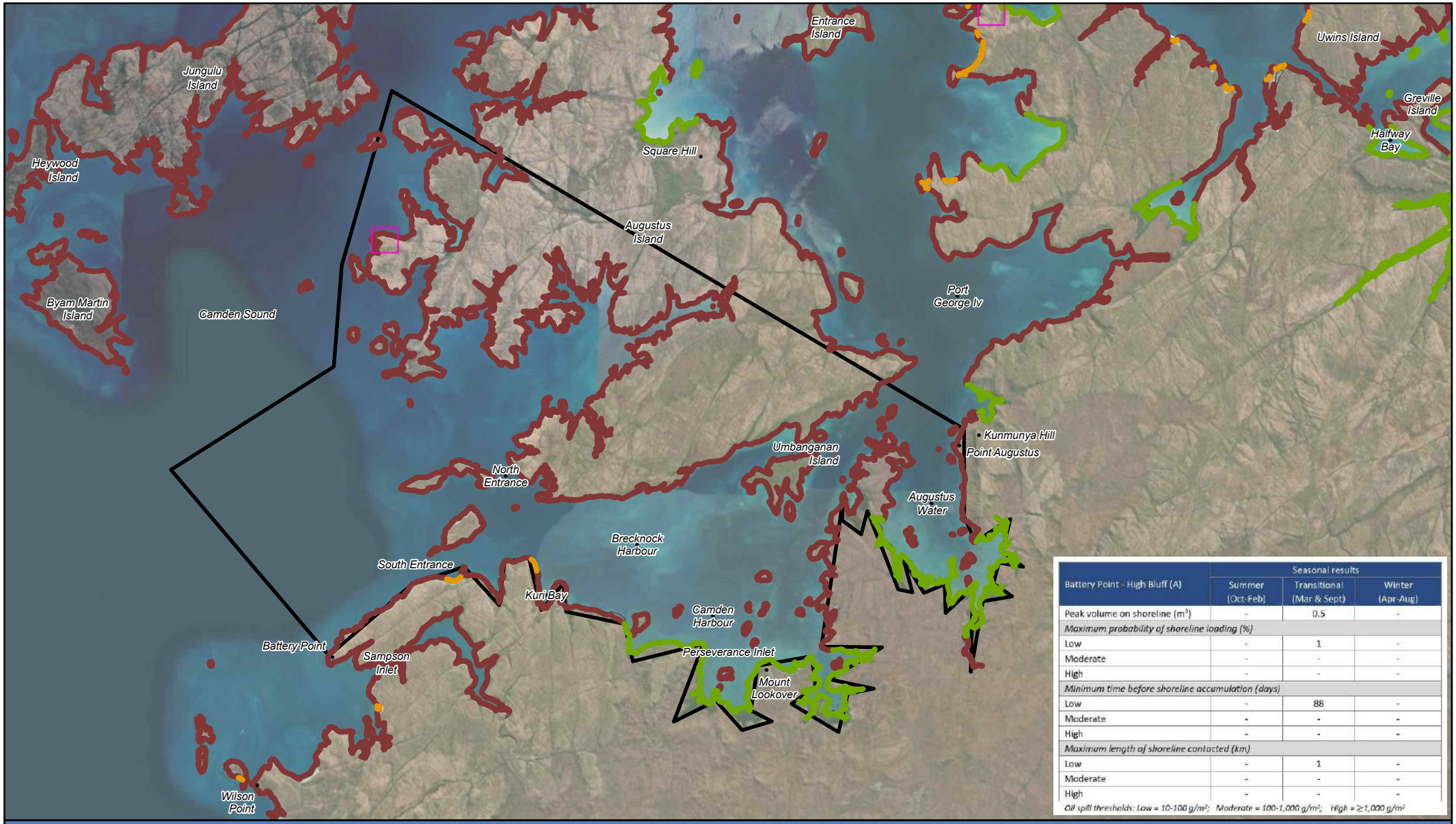
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:160,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 13 of 64	REV: E

0 5 km



Battery Point - High Bluff (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	-	0.5	-
Maximum probability of shoreline loading (%)			
Low	-	1	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	-	88	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	1	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - BATTERY POINT - HIGH BLUFF (A) (WAMOPRA DOT CELL 38)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

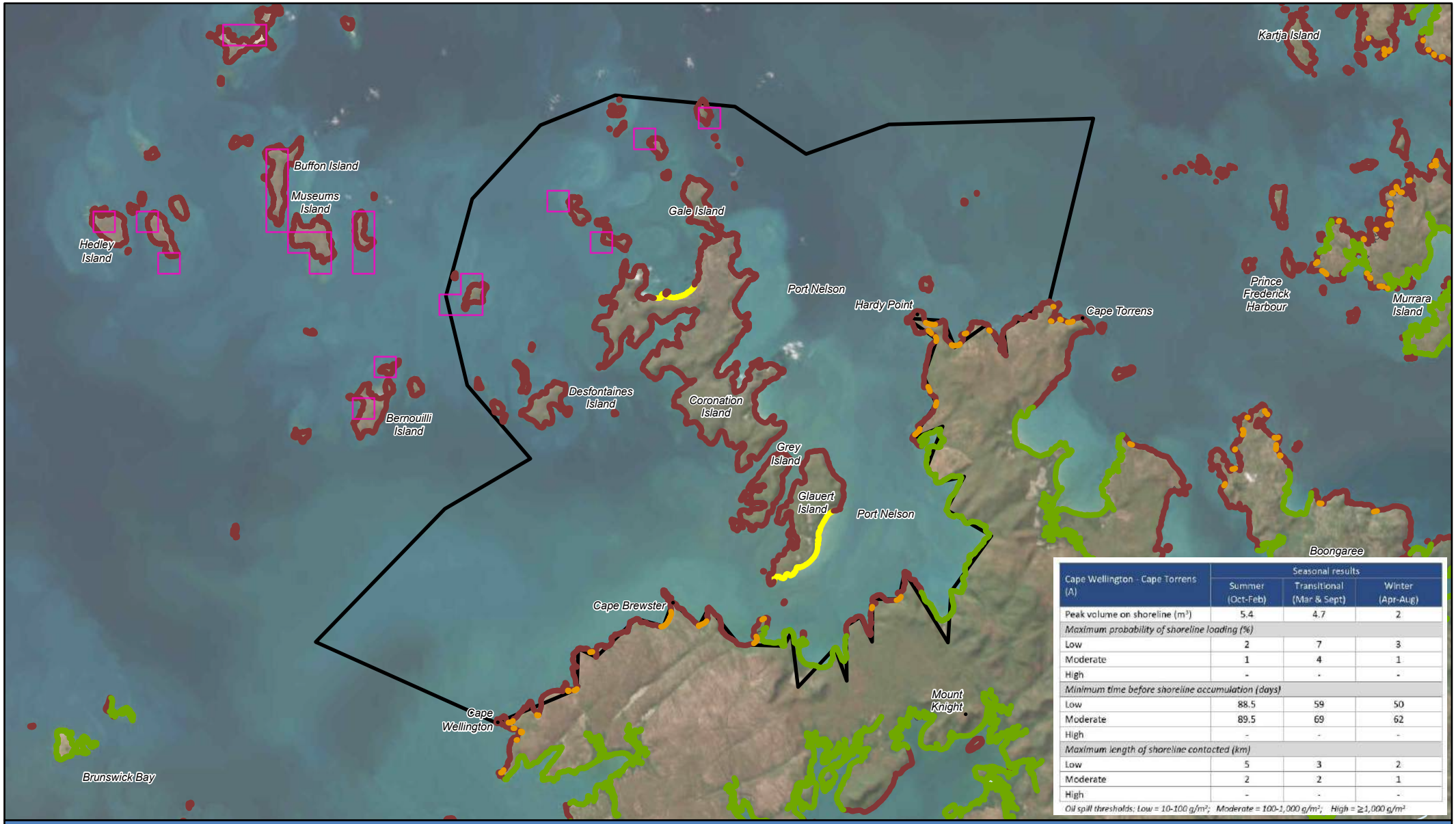
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

eog

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PROJECT		
Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:205,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 15 of 64	REV: E

0 5 10 km



Cape Wellington - Cape Torrens (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	5.4	4.7	2
Maximum probability of shoreline loading (%)			
Low	2	7	3
Moderate	1	4	1
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	88.5	59	50
Moderate	89.5	69	62
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	5	3	2
Moderate	2	2	1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE WELLINGTON - CAPE TORRENS (A) (WAMOPRA DOT CELL 34)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:250,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 16 of 64	REV E

0 5 10 km



Cape Wellington - Cape Torrens (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	27.7	6.7	4.8
Maximum probability of shoreline loading (%)			
Low	9	15	5
Moderate	4	7	2
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	71.5	61	46
Moderate	89	70.5	59.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	7	8	5
Moderate	4	3	1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE WELLINGTON - CAPE TORRENS (C) (WAMOPRA DOT CELL 288)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

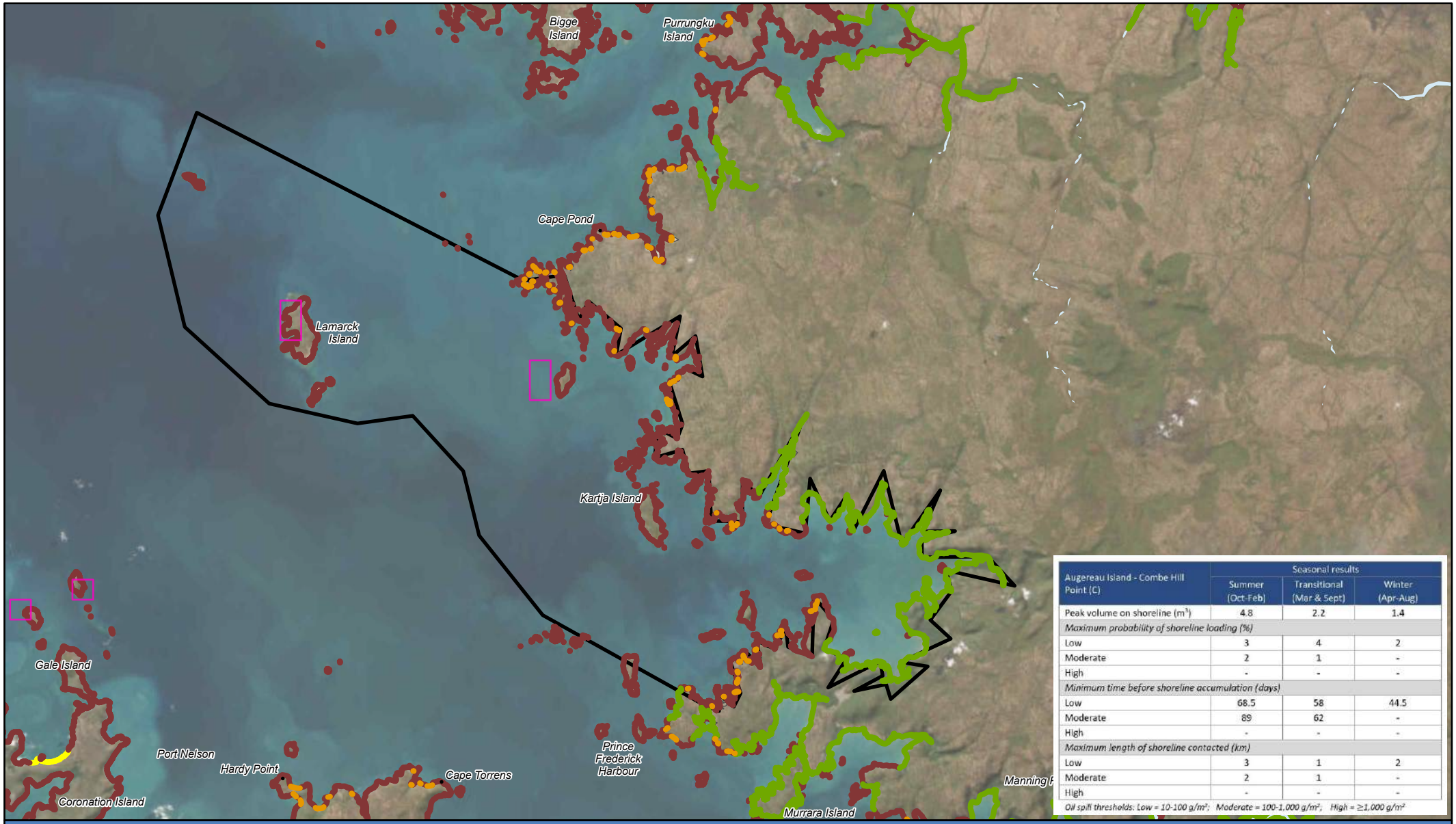
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:200,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 17 of 64	REV E

0 5 10 km



Augereau Island - Combe Hill Point (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	4.8	2.2	1.4
Maximum probability of shoreline loading (%)			
Low	3	4	2
Moderate	2	1	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	68.5	58	44.5
Moderate	89	62	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	3	1	2
Moderate	2	1	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUGEREAU ISLAND - COMBE HILL POINT (C) (WAMOPRA DOT CELL 32)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

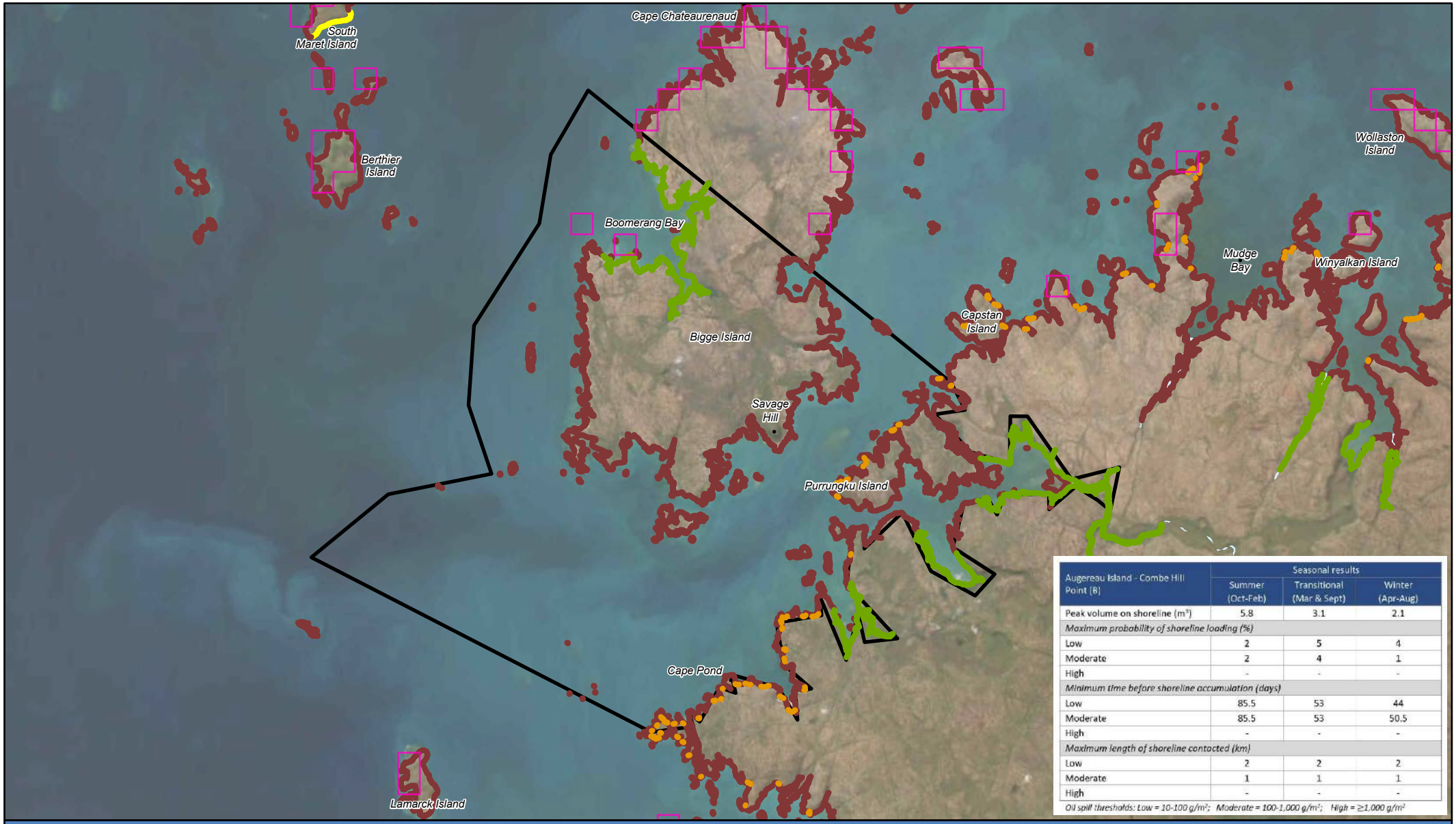
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:260,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 18 of 64	REV E

0 5 10 km



Augereau Island - Combe Hill Point (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	5.8	3.1	2.1
Maximum probability of shoreline loading (%)			
Low	2	5	4
Moderate	2	4	1
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	85.5	53	44
Moderate	85.5	53	50.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	2	2	2
Moderate	1	1	1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUGEREAU ISLAND - COMBE HILL POINT (B) (WAMOPRA DOT CELL 31)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

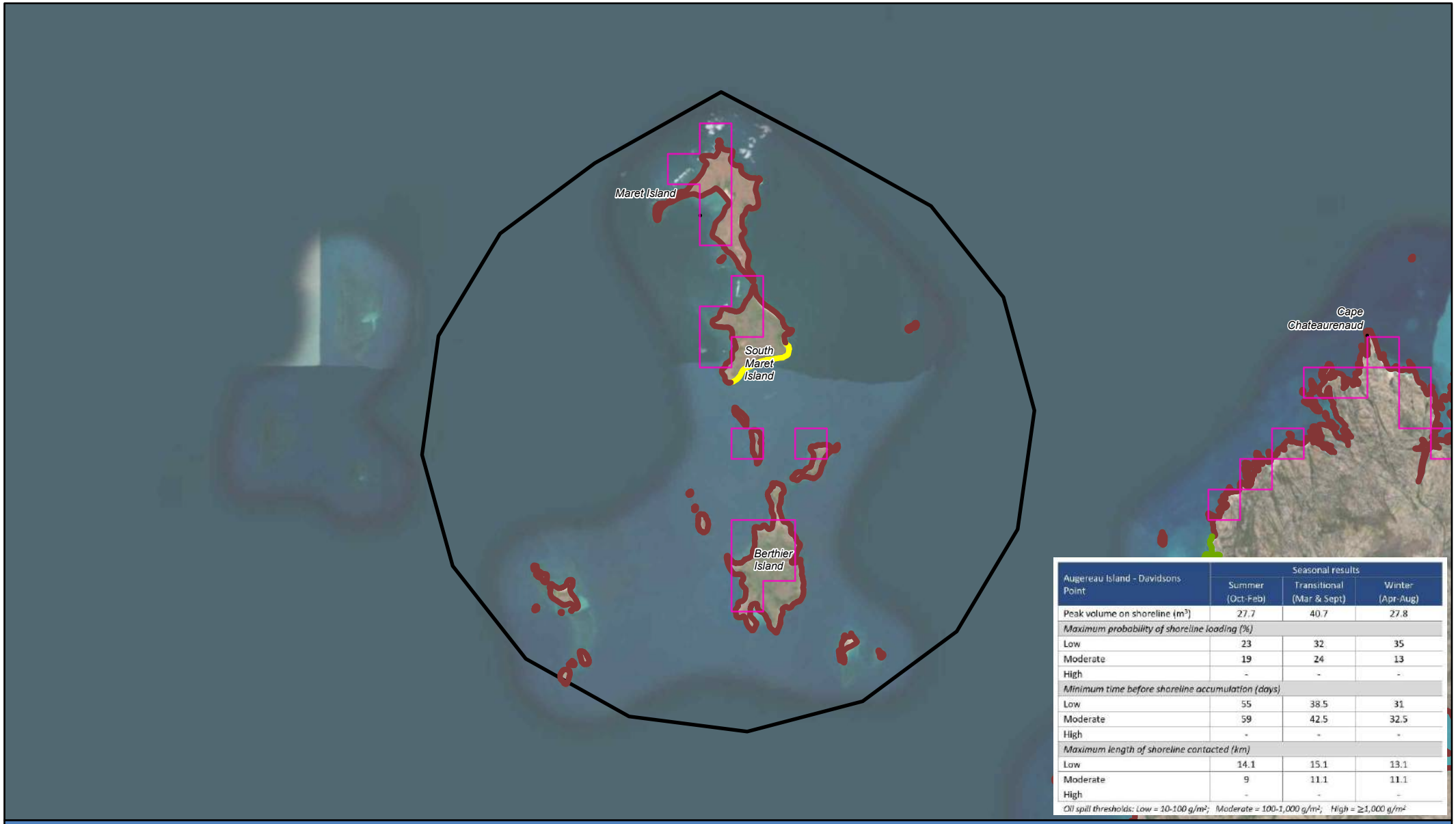
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT		
Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:250,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 19 of 64	REV: E

0 5 10 km



Augereau Island - Davidsons Point	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	27.7	40.7	27.8
Maximum probability of shoreline loading (%)			
Low	23	32	35
Moderate	19	24	13
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	55	38.5	31
Moderate	59	42.5	32.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	14.1	15.1	13.1
Moderate	9	11.1	11.1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUGEREAU ISLAND - DAVIDSONS POINT (WAMOPRA DOT CELL 287)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

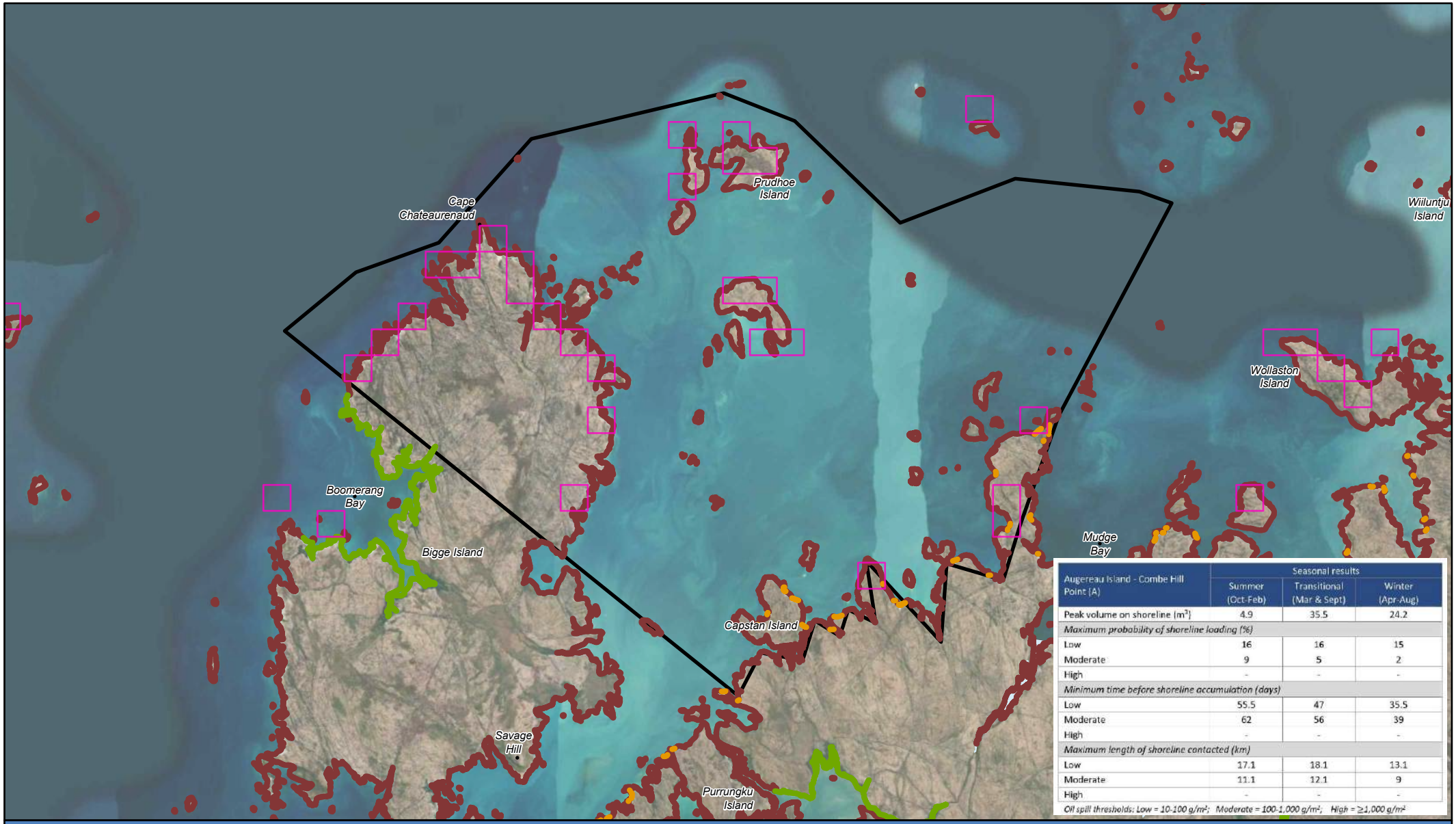
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT: Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:170,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 20 of 64	REV: E

0 5 km



Augereau Island - Combe Hill Point (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	4.9	35.5	24.2
Maximum probability of shoreline loading (%)			
Low	16	16	15
Moderate	9	5	2
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	55.5	47	35.5
Moderate	62	56	39
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	17.1	18.1	13.1
Moderate	11.1	12.1	9
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUGEREAU ISLAND - COMBE HILL POINT (A) (WAMOPRA DOT CELL 30)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

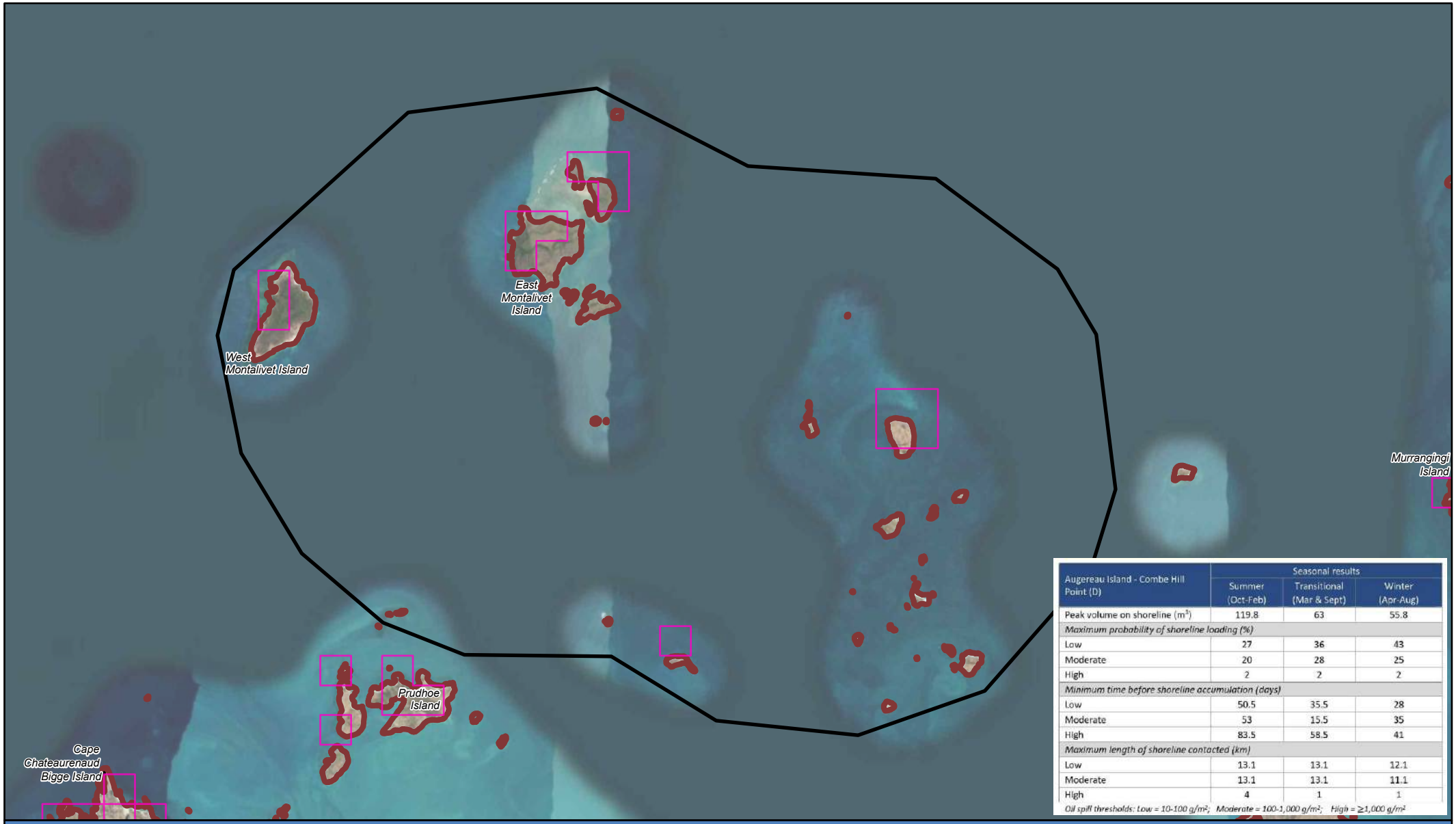
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:200,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 21 of 64	REV E

0 5 10 km



Augereau Island - Combe Hill Point (D)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	119.8	63	55.8
Maximum probability of shoreline loading (%)			
Low	27	36	43
Moderate	20	28	25
High	2	2	2
Minimum time before shoreline accumulation (days)			
Low	50.5	35.5	28
Moderate	53	15.5	35
High	83.5	58.5	41
Maximum length of shoreline contacted (km)			
Low	13.1	13.1	12.1
Moderate	13.1	13.1	11.1
High	4	1	1

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUGEREAU ISLAND - COMBE HILL POINT (D) (WAMOPRA DOT CELL 286)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

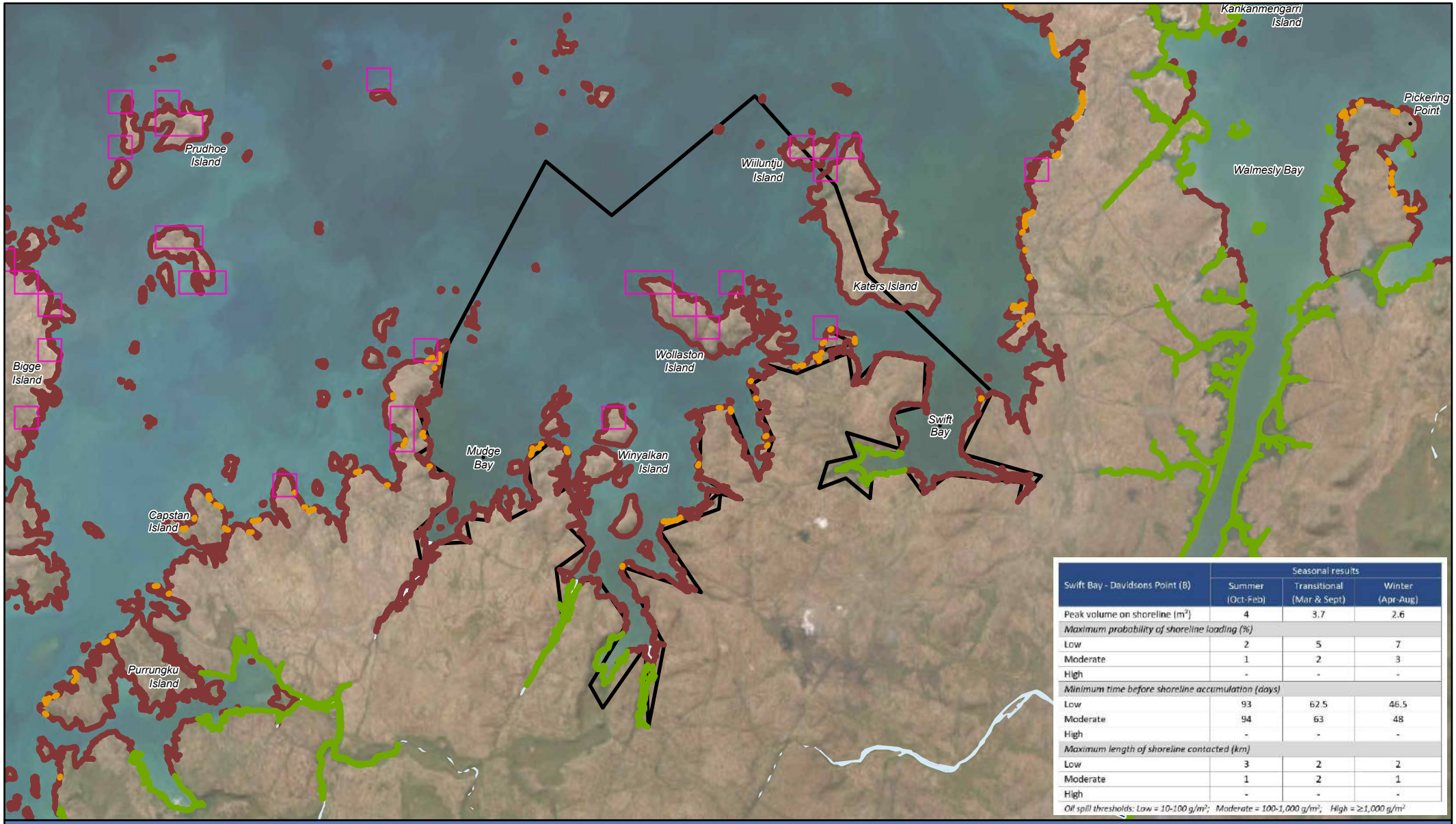
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:175,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 22 of 64	REV E

0 5 km



Swift Bay - Davidsons Point (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	4	3.7	2.6
Maximum probability of shoreline loading (%)			
Low	2	5	7
Moderate	1	2	3
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	93	62.5	46.5
Moderate	94	63	48
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	3	2	2
Moderate	1	2	1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - SWIFT BAY - DAVIDSONS POINT (B) (WAMOPRA DOT CELL 29)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

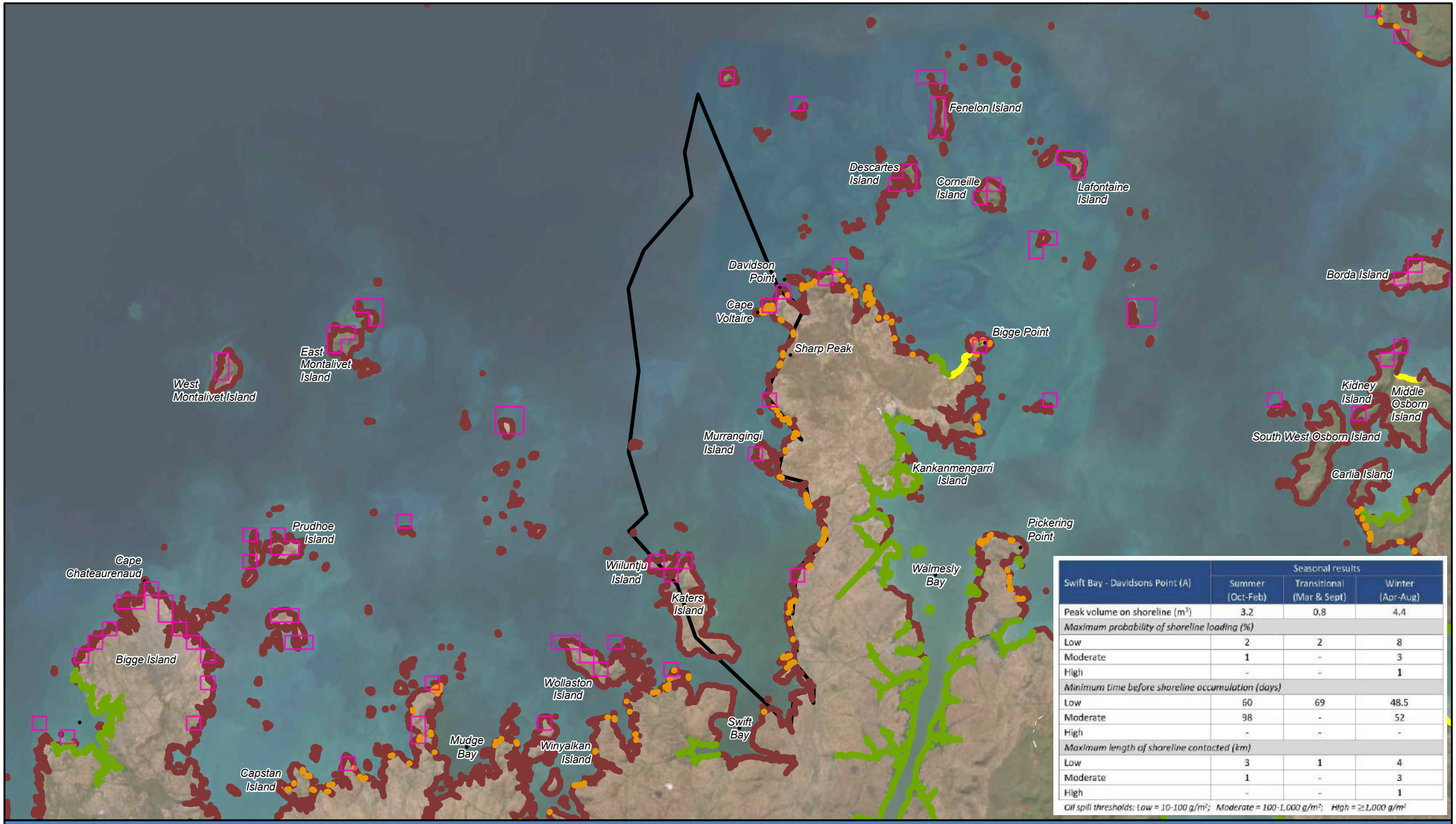
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:230,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 23 of 64	REV E

0 5 10 km



Swift Bay - Davidsons Point (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	3.2	0.8	4.4
Maximum probability of shoreline loading (%)			
Low	2	2	8
Moderate	1	-	3
High	-	-	1
Minimum time before shoreline accumulation (days)			
Low	60	69	48.5
Moderate	98	-	52
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	3	1	4
Moderate	1	-	3
High	-	-	1

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - SWIFT BAY - DAVIDSONS POINT (A) (WAMOPRA DOT CELL 28)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

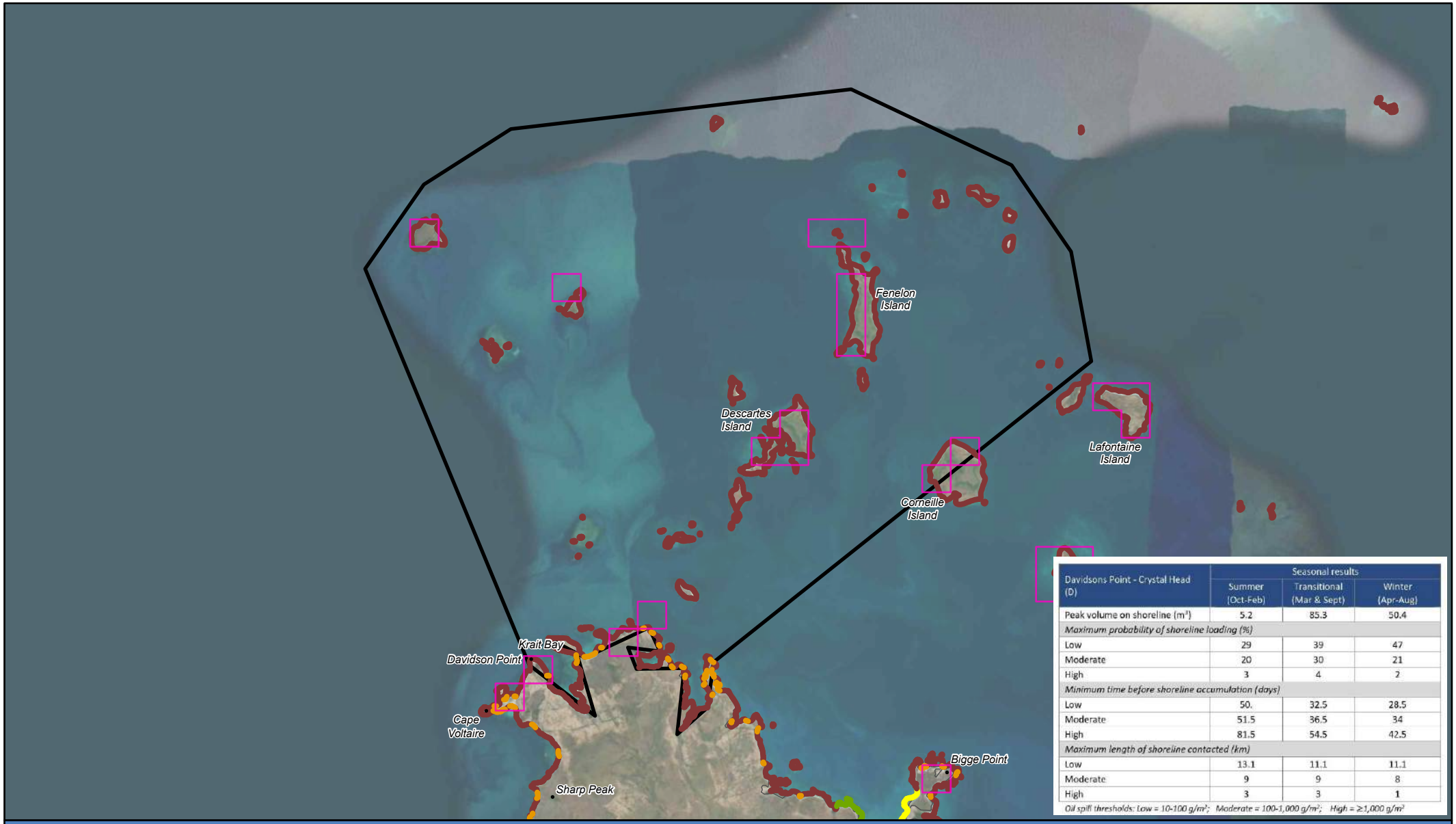
- *Beach sediment \ ridges*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:385,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 24 of 64	REV E

0 5 10 15 20 km



Davidsons Point - Crystal Head (D)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	5.2	85.3	50.4
Maximum probability of shoreline loading (%)			
Low	29	39	47
Moderate	20	30	21
High	3	4	2
Minimum time before shoreline accumulation (days)			
Low	50.	32.5	28.5
Moderate	51.5	36.5	34
High	81.5	54.5	42.5
Maximum length of shoreline contacted (km)			
Low	13.1	11.1	11.1
Moderate	9	9	8
High	3	3	1

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DAVIDSONS POINT - CRYSTAL HEAD (D) (WAMOPRA DOT CELL 27)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

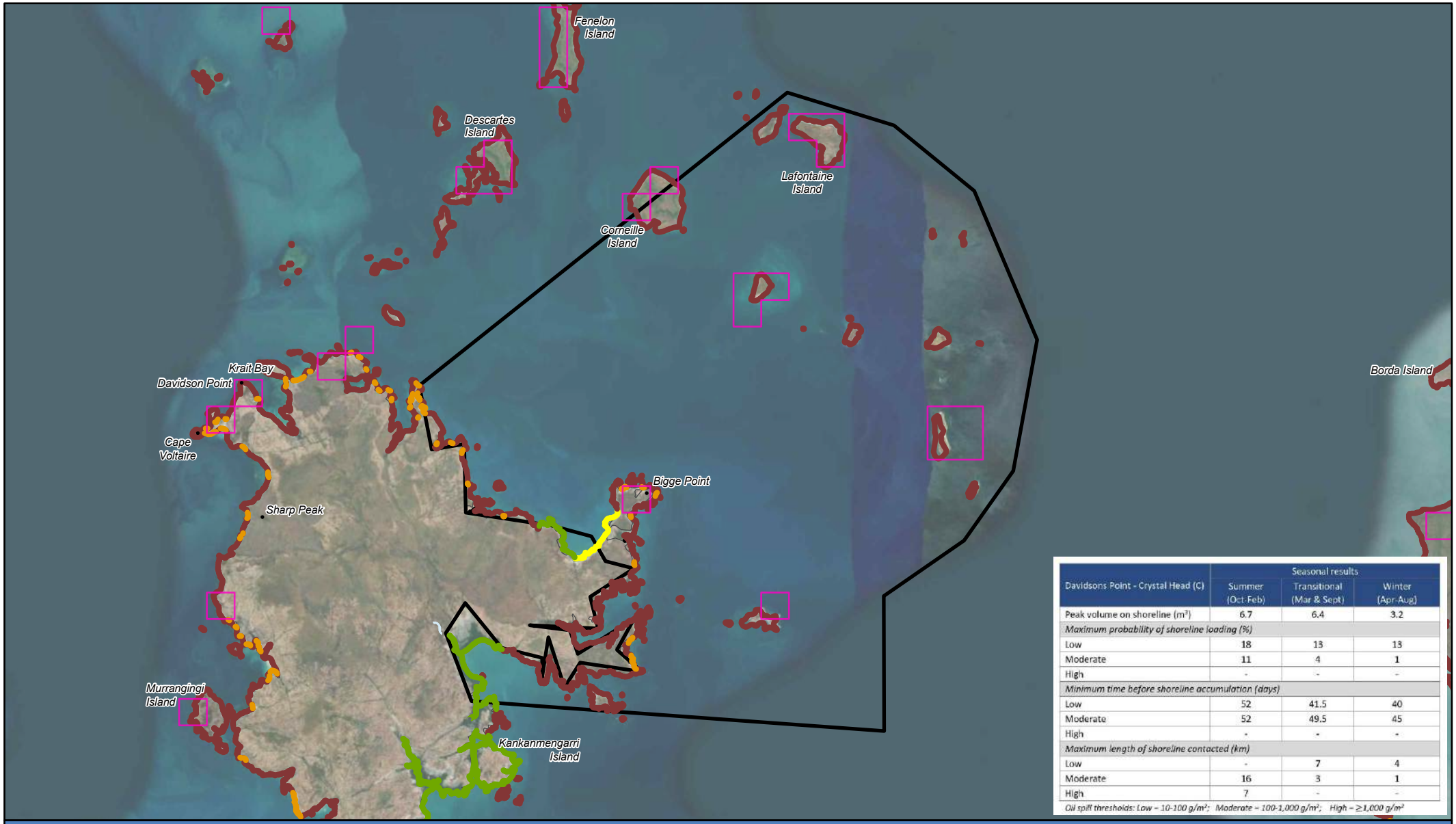
- *Beach sediment \ ridges*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:190,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 25 of 64	REV E

0 5 10 km



Davidsons Point - Crystal Head (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	6.7	6.4	3.2
Maximum probability of shoreline loading (%)			
Low	18	13	13
Moderate	11	4	1
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	52	41.5	40
Moderate	52	49.5	45
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	7	4
Moderate	16	3	1
High	7	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DAVIDSONS POINT - CRYSTAL HEAD (C) (WAMOPRA DOT CELL 26)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

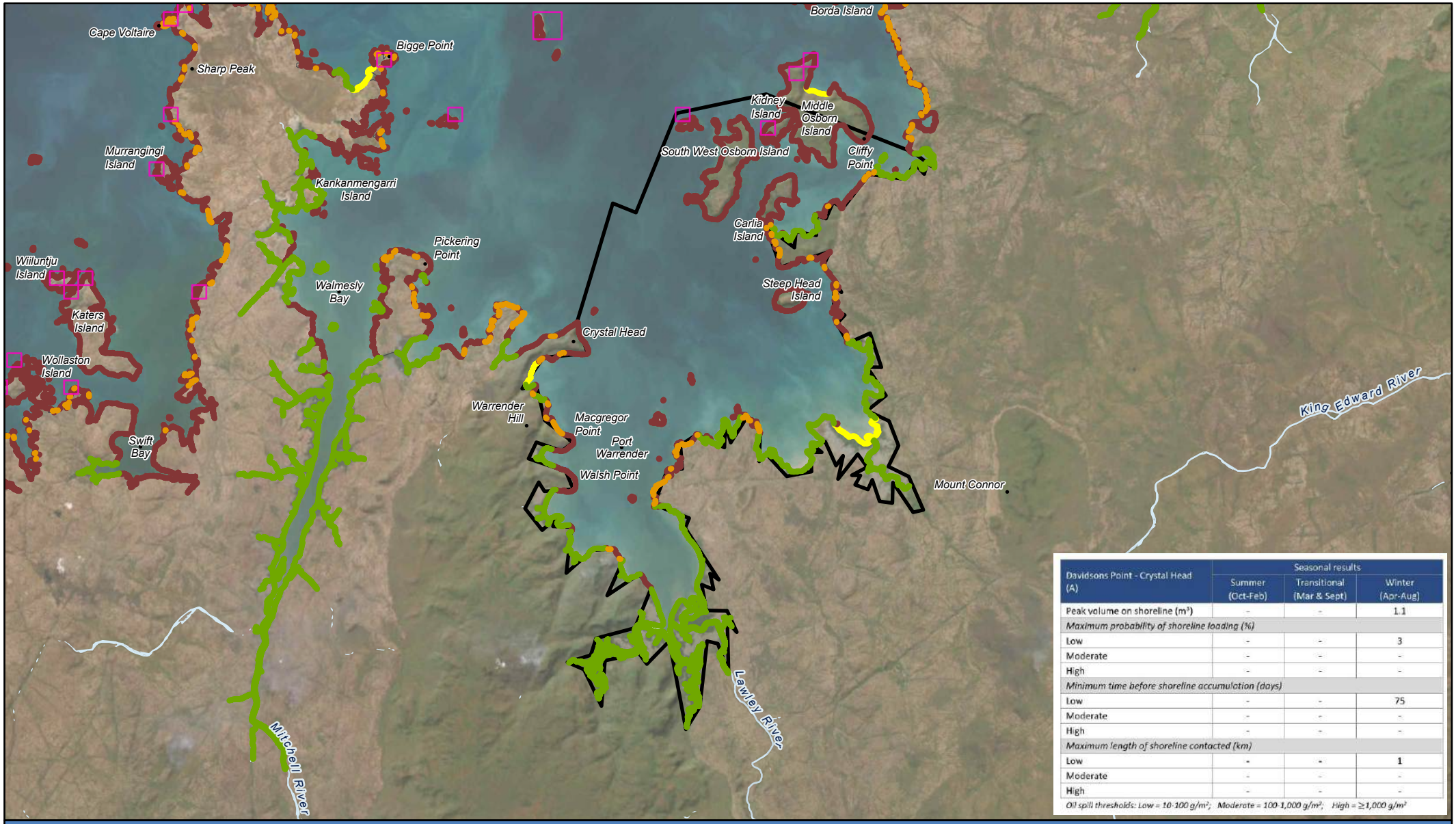
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:195,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 26 of 64	REV E

0 5 10 km



Davidsons Point - Crystal Head (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	-	-	1.1
Maximum probability of shoreline loading (%)			
Low	-	-	3
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	-	-	75
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	-	1
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DAVIDSONS POINT - CRYSTAL HEAD (A) (WAMOPRA DOT CELL 24)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

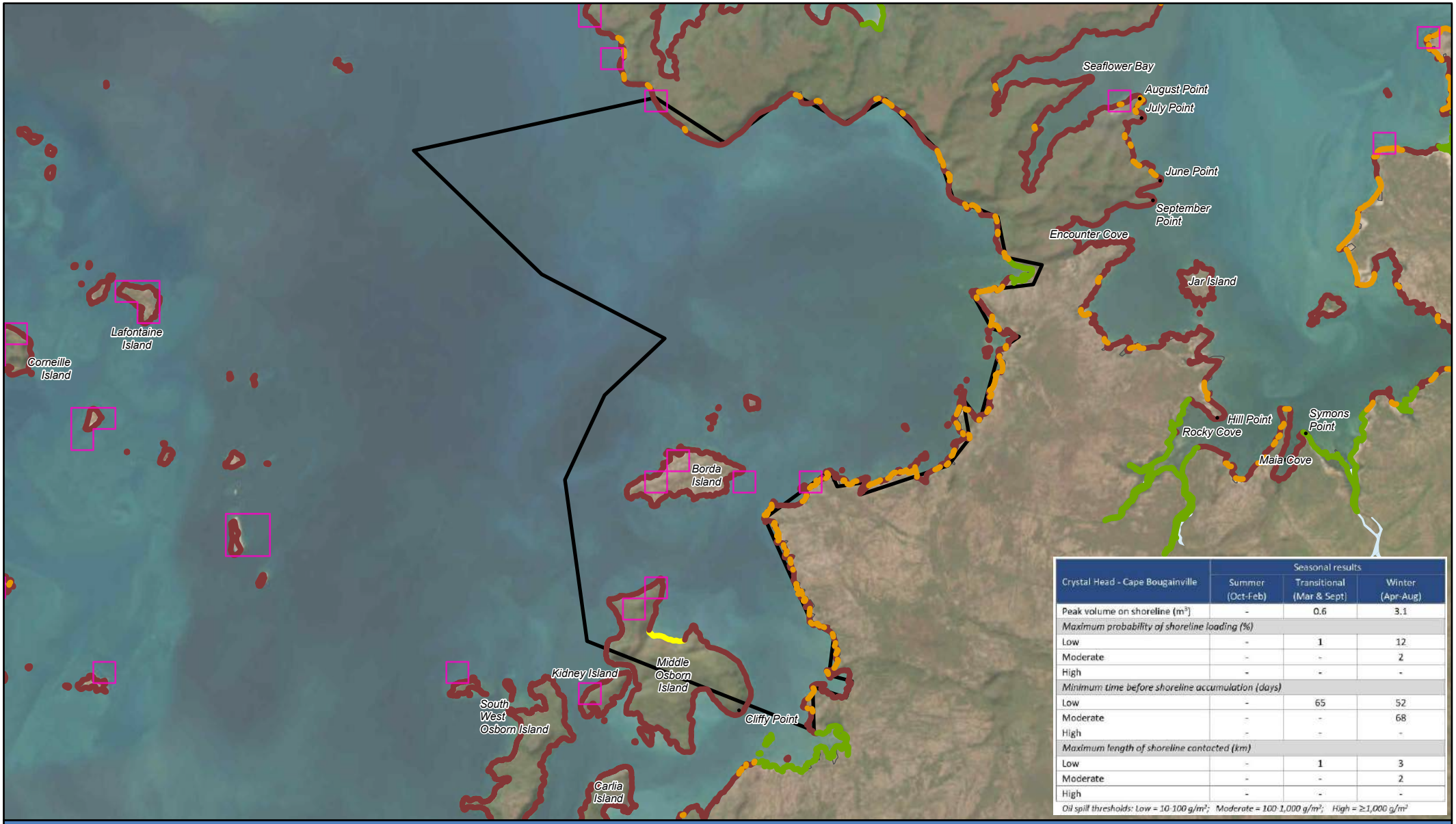
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:380,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 28 of 64	REV E

0 5 10 15 20 km



Crystal Head - Cape Bougainville	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	-	0.6	3.1
Maximum probability of shoreline loading (%)			
Low	-	1	12
Moderate	-	-	2
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	-	65	52
Moderate	-	-	68
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	1	3
Moderate	-	-	2
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CRYSTAL HEAD - CAPE BOUGAINVILLE (WAMOPRA DOT CELL 23)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

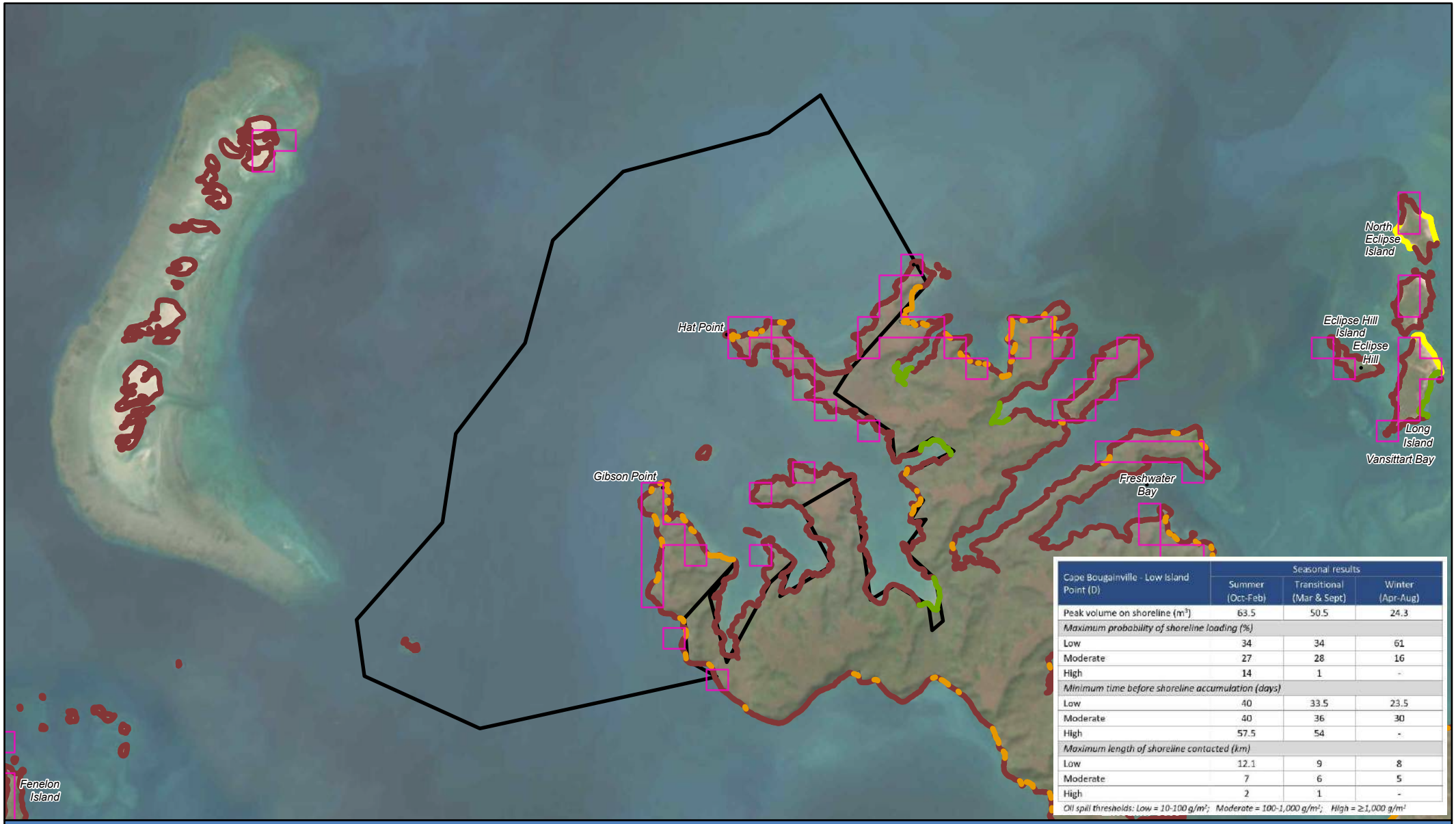
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:245,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 29 of 64	REV E

0 5 10 km



Cape Bougainville - Low Island Point (D)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	63.5	50.5	24.3
Maximum probability of shoreline loading (%)			
Low	34	34	61
Moderate	27	28	16
High	14	1	-
Minimum time before shoreline accumulation (days)			
Low	40	33.5	23.5
Moderate	40	36	30
High	57.5	54	-
Maximum length of shoreline contacted (km)			
Low	12.1	9	8
Moderate	7	6	5
High	2	1	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE BOUGAINVILLE - LOW ISLAND POINT (D) (WAMOPRA DOT CELL 22)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

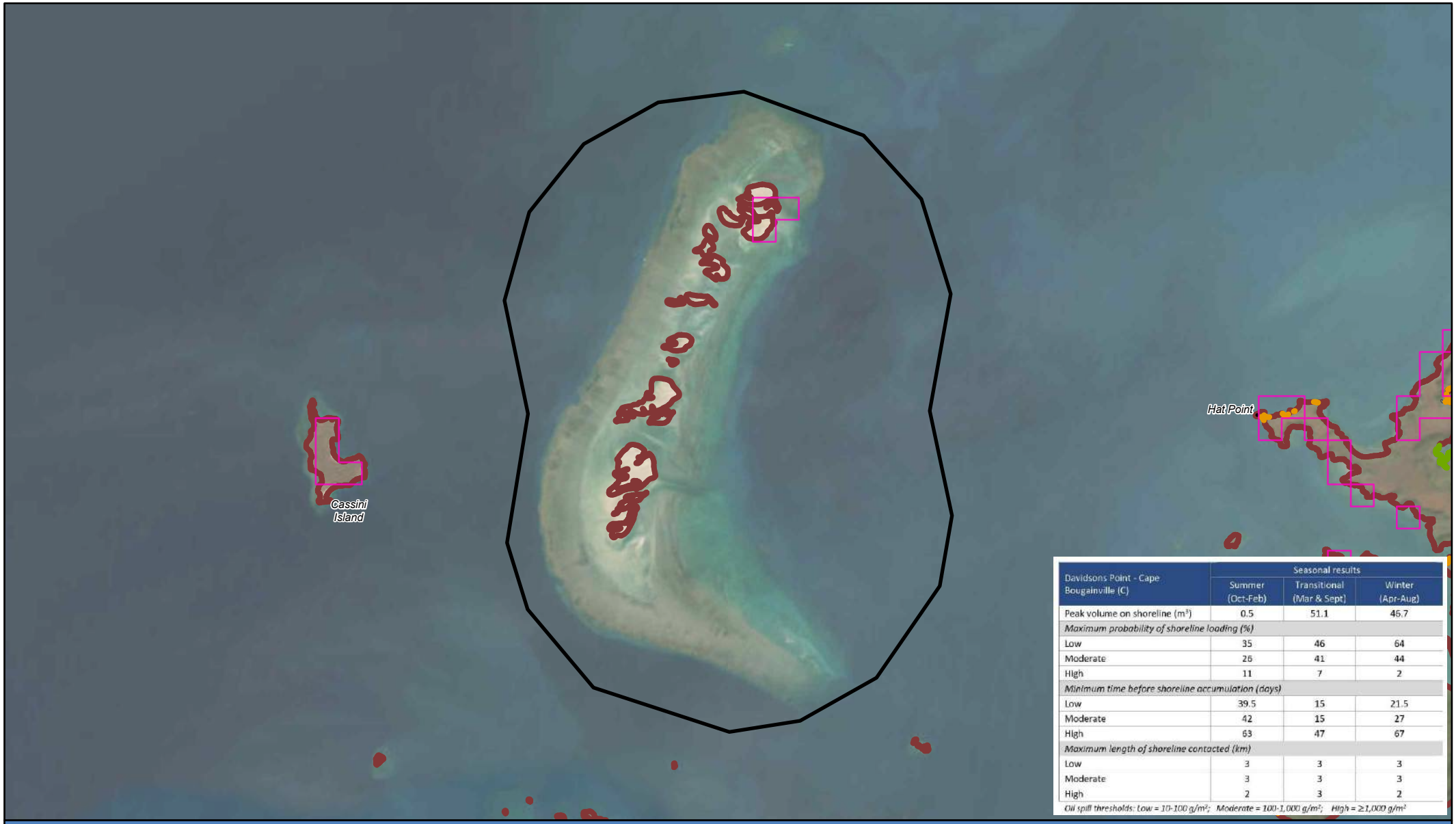
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:250,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 30 of 64	REV E

0 5 10 km



Davidsons Point - Cape Bougainville (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	0.5	51.1	46.7
Maximum probability of shoreline loading (%)			
Low	35	46	64
Moderate	26	41	44
High	11	7	2
Minimum time before shoreline accumulation (days)			
Low	39.5	15	21.5
Moderate	42	15	27
High	63	47	67
Maximum length of shoreline contacted (km)			
Low	3	3	3
Moderate	3	3	3
High	2	3	2

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DAVIDSONS POINT - CAPE BOUGAINVILLE (C) (WAMOPRA DOT CELL 284)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

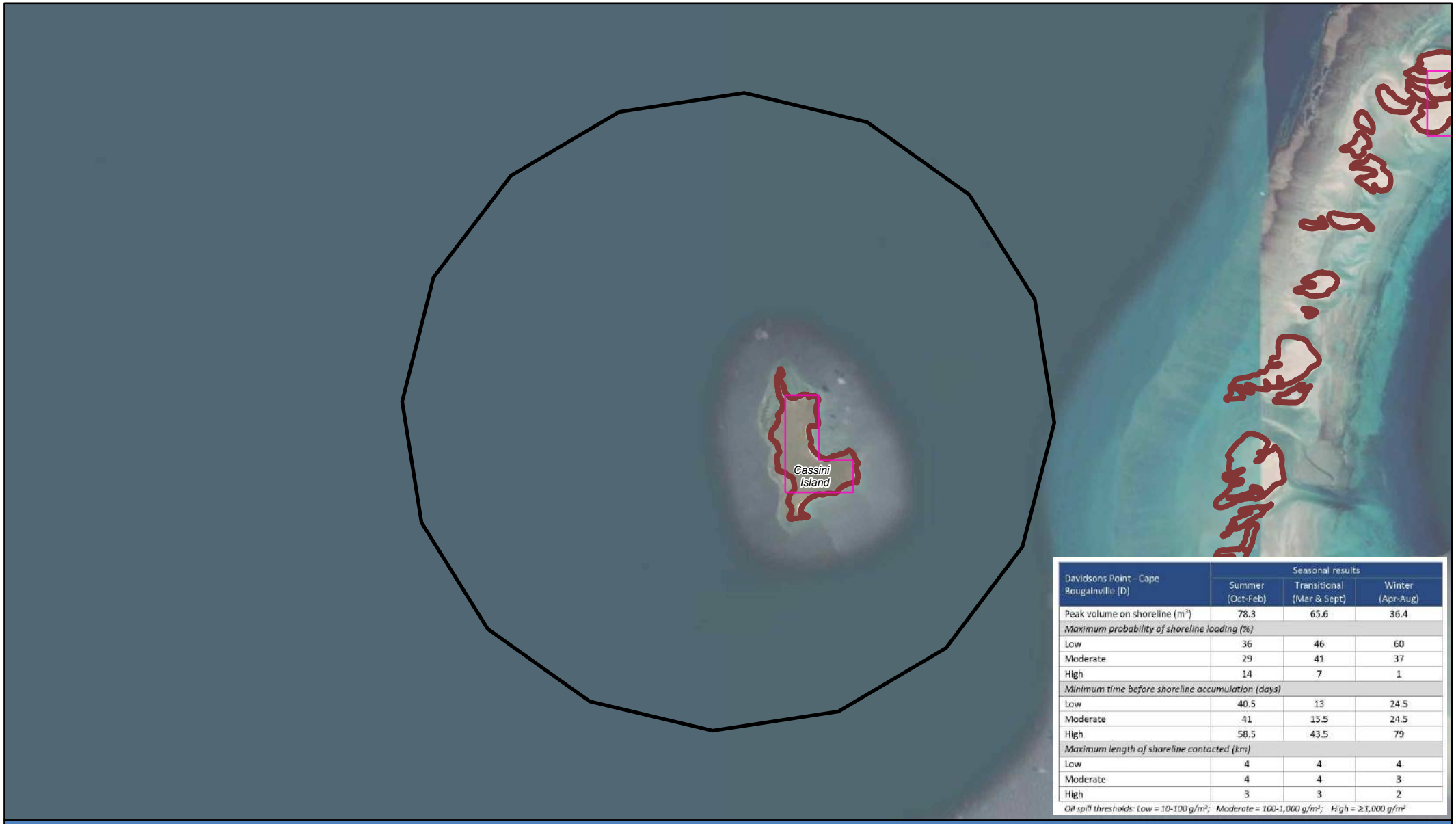
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:235,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 31 of 64	REV E

0 5 10 km



Davidsons Point - Cape Bougainville (D)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	78.3	65.6	36.4
Maximum probability of shoreline loading (%)			
Low	36	46	60
Moderate	29	41	37
High	14	7	1
Minimum time before shoreline accumulation (days)			
Low	40.5	13	24.5
Moderate	41	15.5	24.5
High	58.5	43.5	79
Maximum length of shoreline contacted (km)			
Low	4	4	4
Moderate	4	4	3
High	3	3	2

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DAVIDSONS POINT - CAPE BOUGAINVILLE (D) (WAMOPRA DOT CELL 285)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

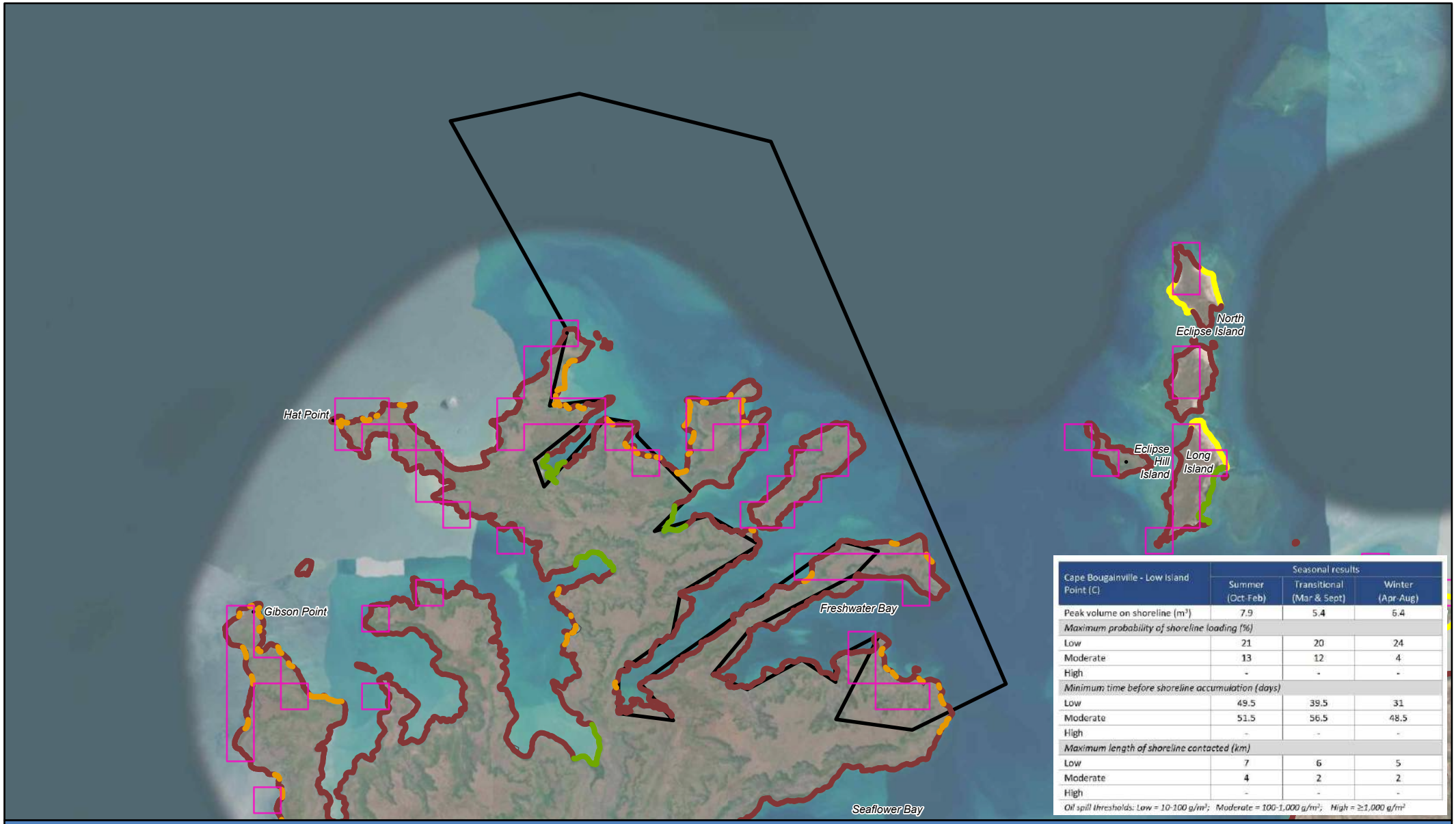
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:160,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 32 of 64	REV: E

0 5 km



Cape Bougainville - Low Island Point (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	7.9	5.4	6.4
Maximum probability of shoreline loading (%)			
Low	21	20	24
Moderate	13	12	4
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	49.5	39.5	31
Moderate	51.5	56.5	48.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	7	6	5
Moderate	4	2	2
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE BOUGAINVILLE - LOW ISLAND POINT (C) (WAMOPRA DOT CELL 21)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

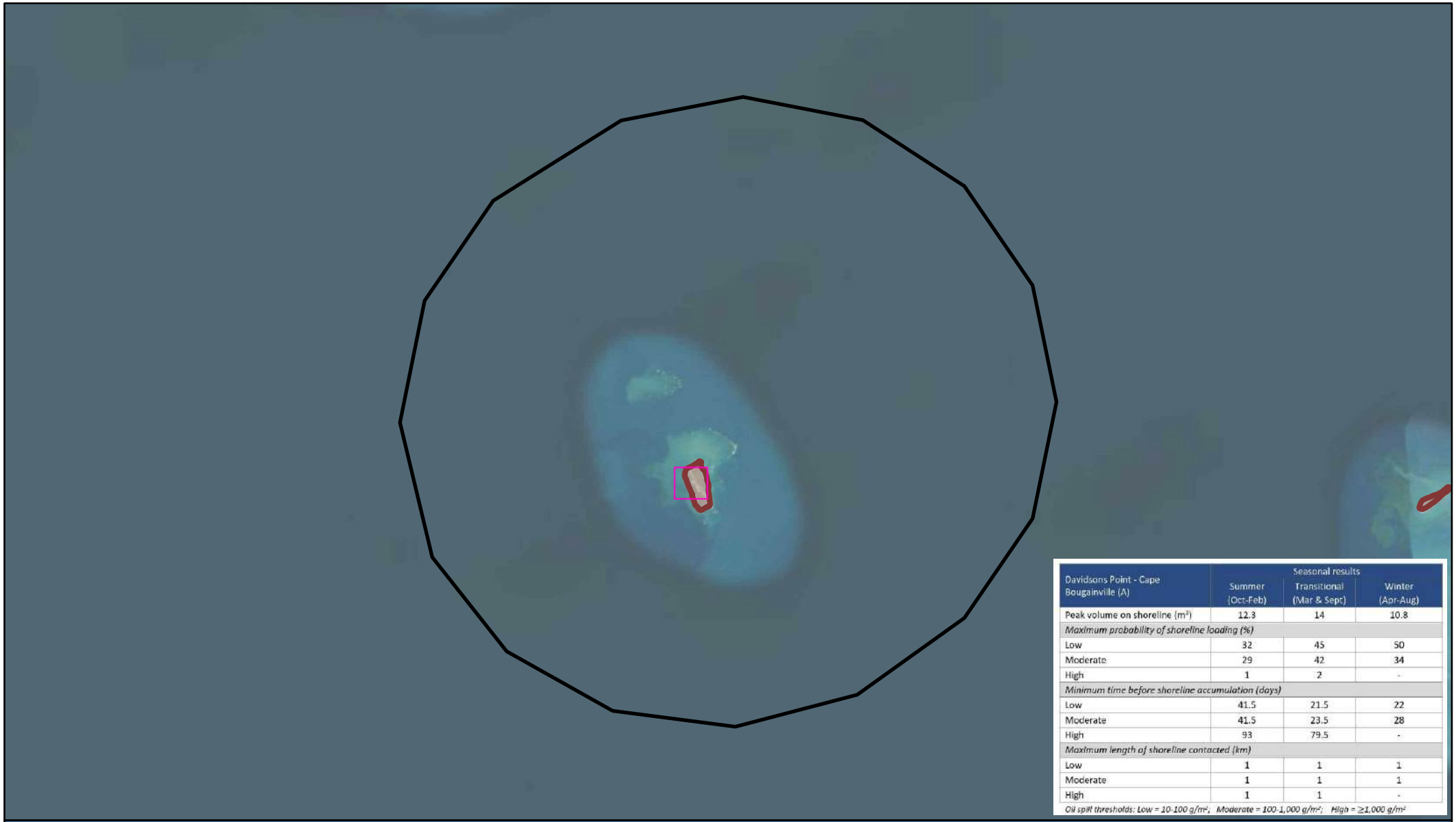
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:200,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 33 of 64	REV E

0 5 10 km



Davidsons Point - Cape Bougainville (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	12.3	14	10.8
Maximum probability of shoreline loading (%)			
Low	32	45	50
Moderate	29	42	34
High	1	2	-
Minimum time before shoreline accumulation (days)			
Low	41.5	21.5	22
Moderate	41.5	23.5	28
High	93	79.5	-
Maximum length of shoreline contacted (km)			
Low	1	1	1
Moderate	1	1	1
High	1	1	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DAVIDSONS POINT - CAPE BOUGAINVILLE (A) (WAMOPRA DOT CELL 282)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

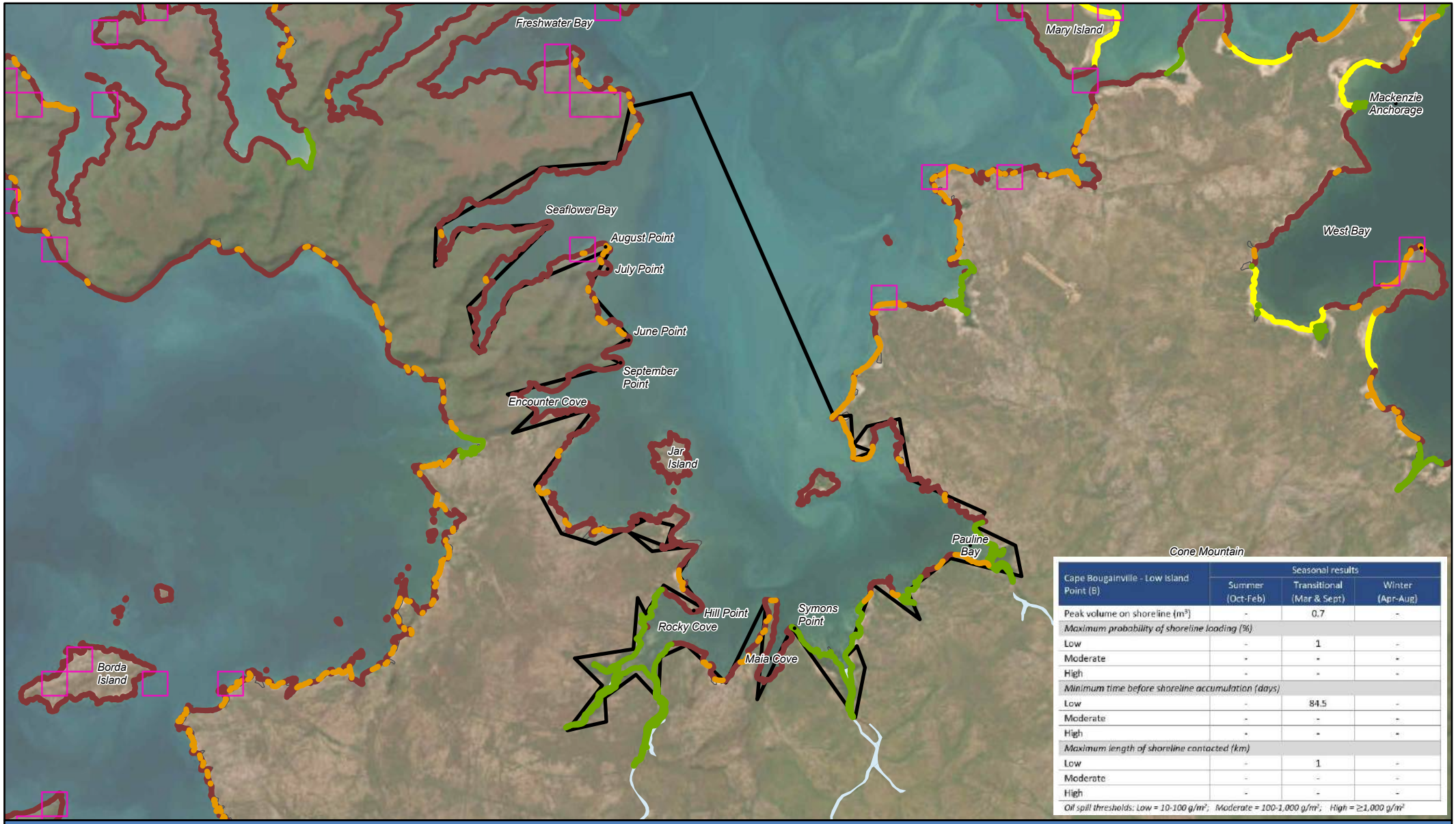
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:165,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 34 of 64	REV E

0 5 km



Cape Bougainville - Low Island Point (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	-	0.7	-
Maximum probability of shoreline loading (%)			
Low	-	1	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	-	84.5	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	-	1	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE BOUGAINVILLE - LOW ISLAND POINT (B) (WAMOPRA DOT CELL 20)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

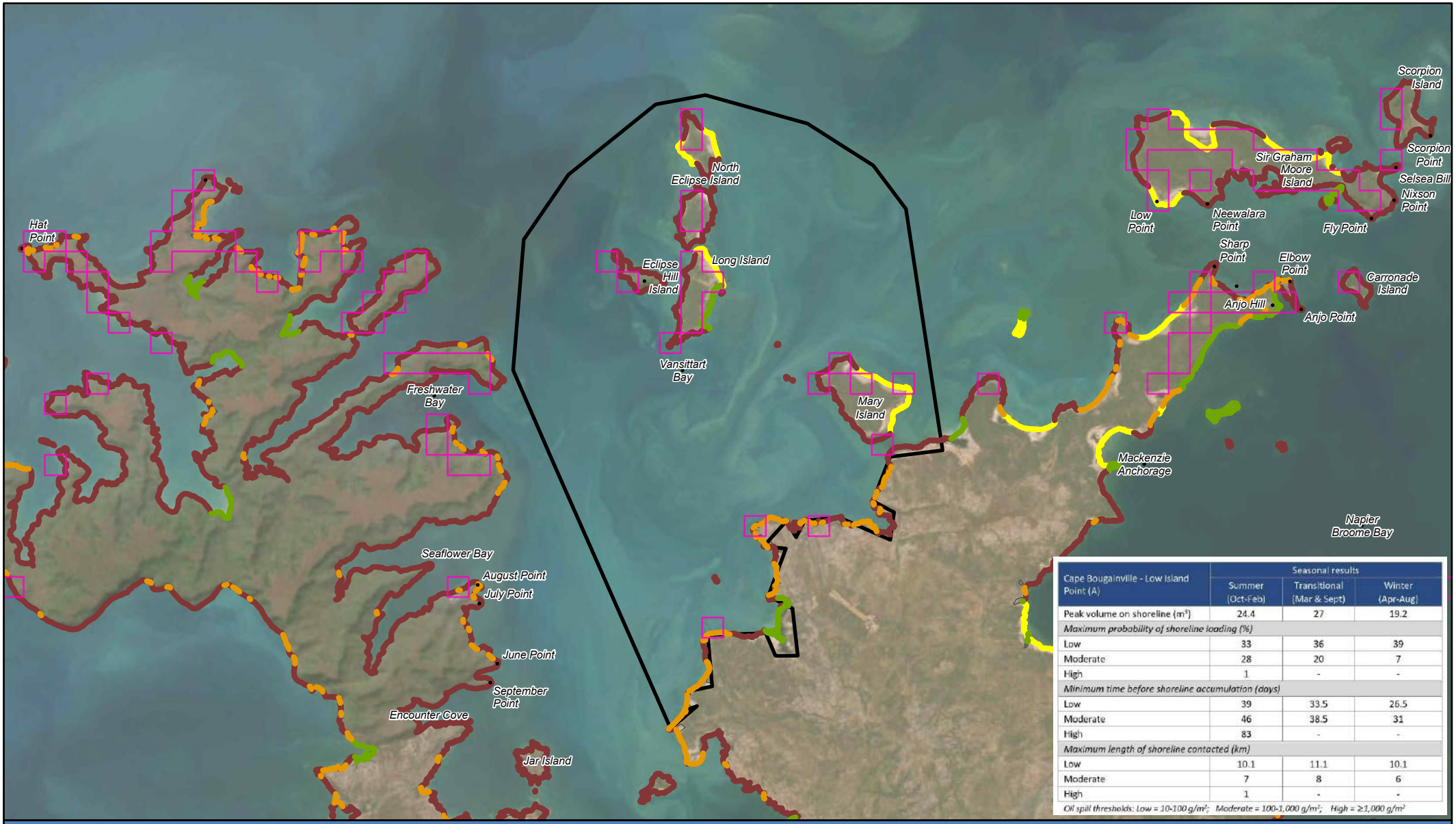
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:215,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 35 of 64	REV E

0 5 10 km



Cape Bougainville - Low Island Point (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	24.4	27	19.2
Maximum probability of shoreline loading (%)			
Low	33	36	39
Moderate	28	20	7
High	1	-	-
Minimum time before shoreline accumulation (days)			
Low	39	33.5	26.5
Moderate	46	38.5	31
High	83	-	-
Maximum length of shoreline contacted (km)			
Low	10.1	11.1	10.1
Moderate	7	8	6
High	1	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE BOUGAINVILLE - LOW ISLAND POINT (A) (WAMOPRA DOT CELL 19)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

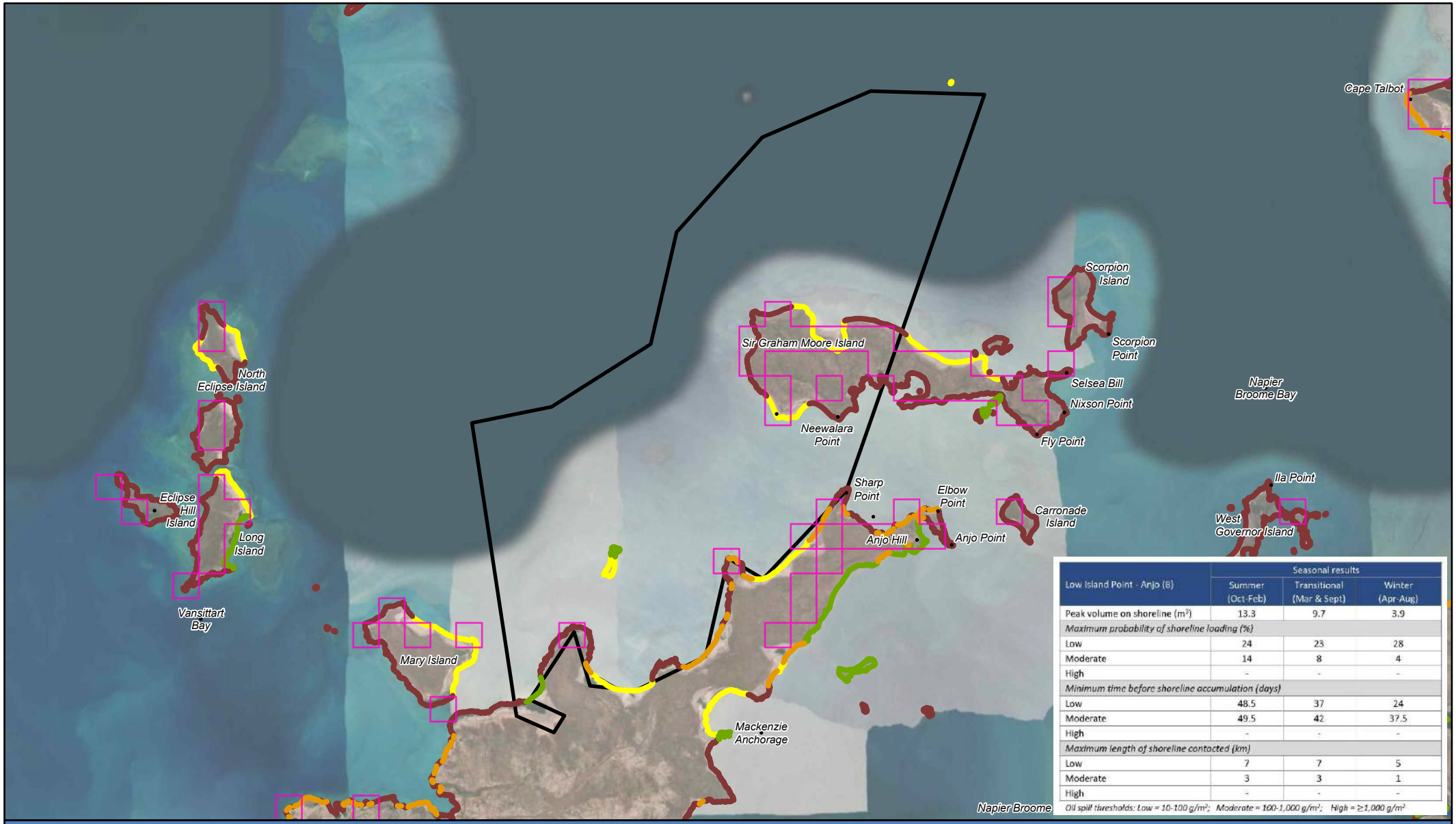
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:255,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 36 of 64	REV E

0 5 10 km



Low Island Point - Anjo (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	13.3	9.7	3.9
Maximum probability of shoreline loading (%)			
Low	24	23	28
Moderate	14	8	4
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	48.5	37	24
Moderate	49.5	42	37.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	7	7	5
Moderate	3	3	1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - LOW ISLAND POINT - ANJO (B) (WAMOPRA DOT CELL 18)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

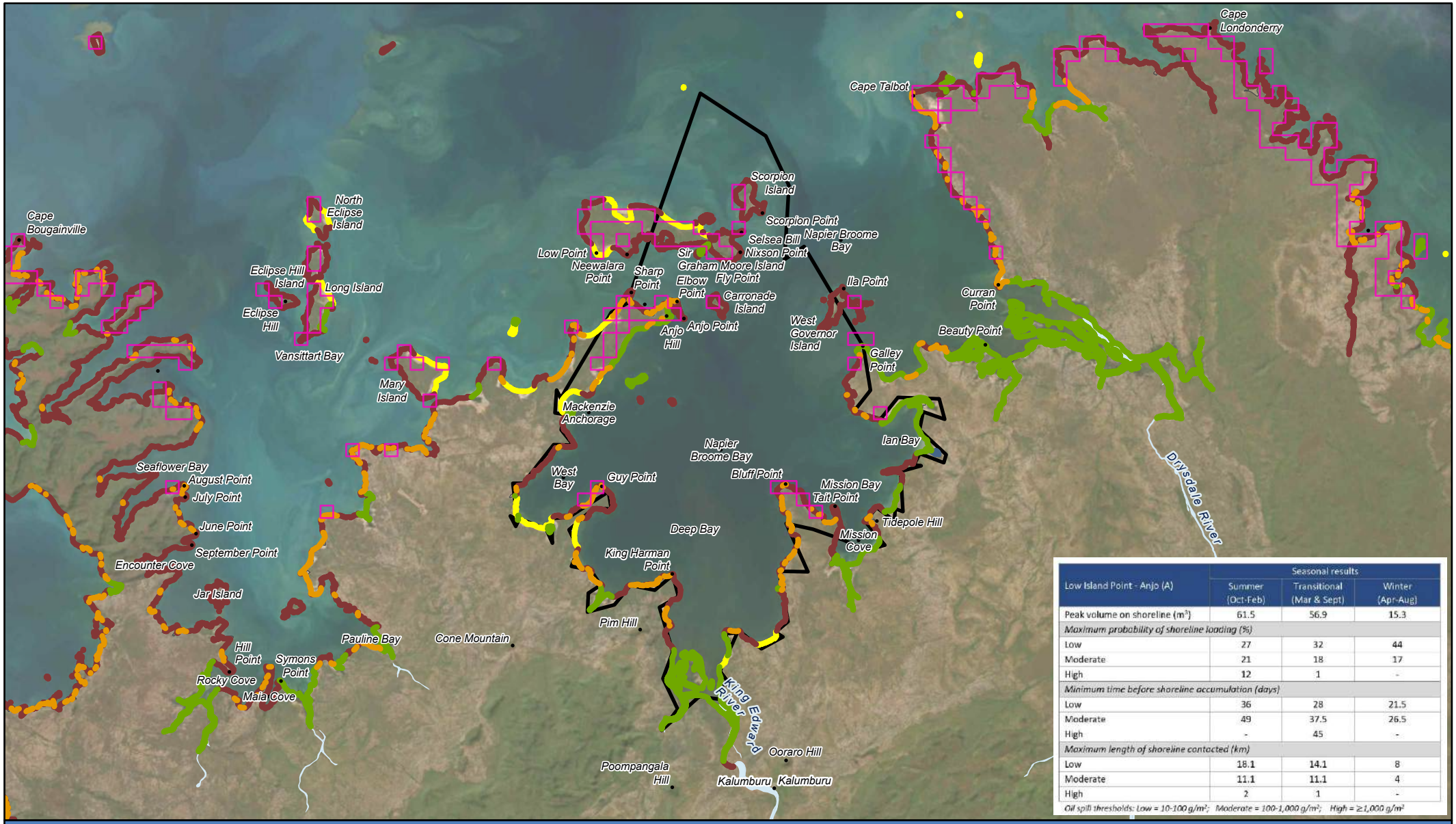
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:210,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 37 of 64	REV E

0 5 10 km



Low Island Point - Anjo (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	61.5	56.9	15.3
Maximum probability of shoreline loading (%)			
Low	27	32	44
Moderate	21	18	17
High	12	1	-
Minimum time before shoreline accumulation (days)			
Low	36	28	21.5
Moderate	49	37.5	26.5
High	-	45	-
Maximum length of shoreline contacted (km)			
Low	18.1	14.1	8
Moderate	11.1	11.1	4
High	2	1	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - LOW ISLAND POINT - ANJO (A) (WAMOPRA DOT CELL 17)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

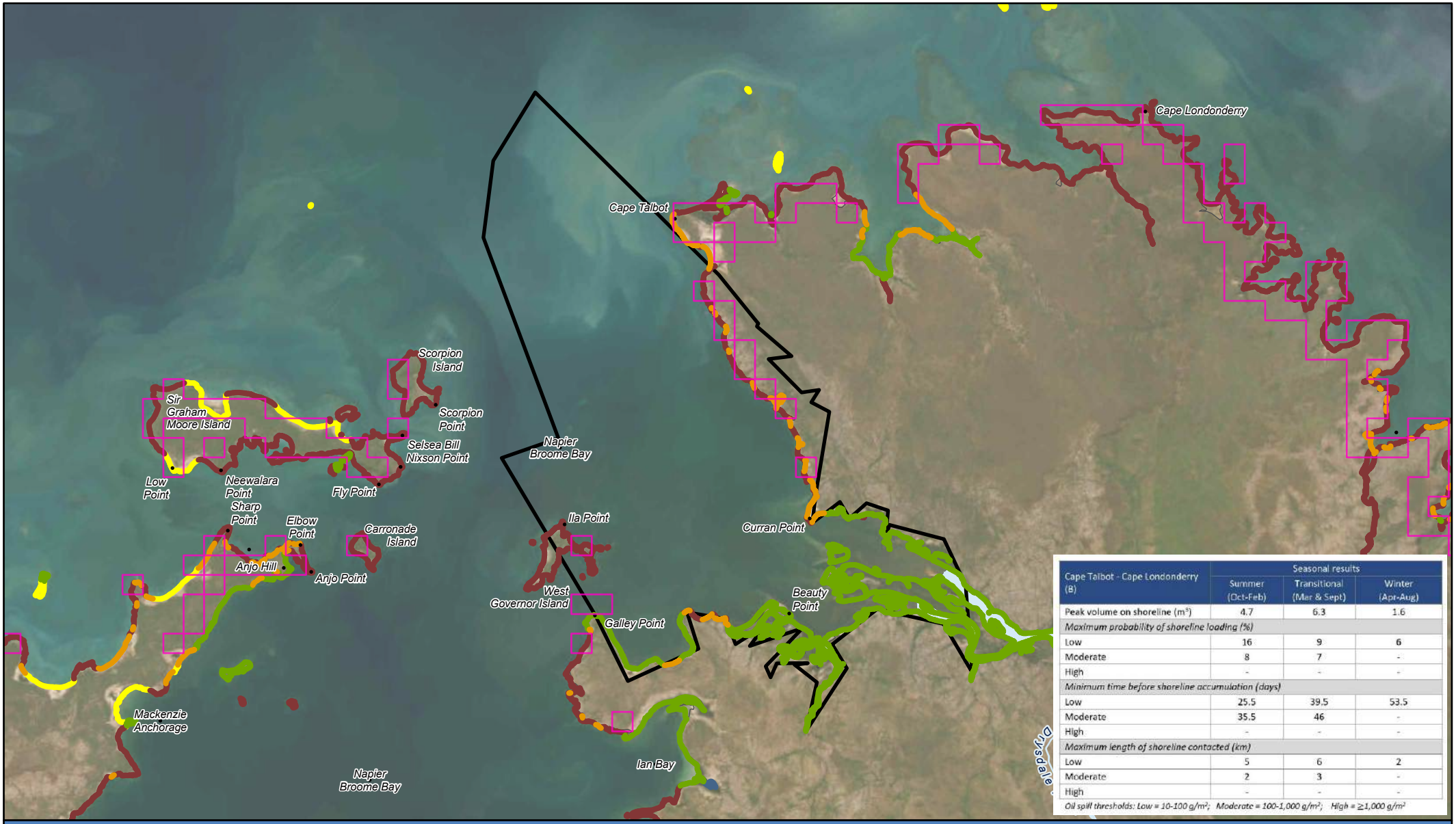
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:420,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 38 of 64	REV E

0 5 10 15 20 km



Cape Talbot - Cape Londonderry (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	4.7	6.3	1.6
Maximum probability of shoreline loading (%)			
Low	16	9	6
Moderate	8	7	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	25.5	39.5	53.5
Moderate	35.5	46	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	5	6	2
Moderate	2	3	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE TALBOT - CAPE LONDONDERRY (B) (WAMOPRA DOT CELL 16)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

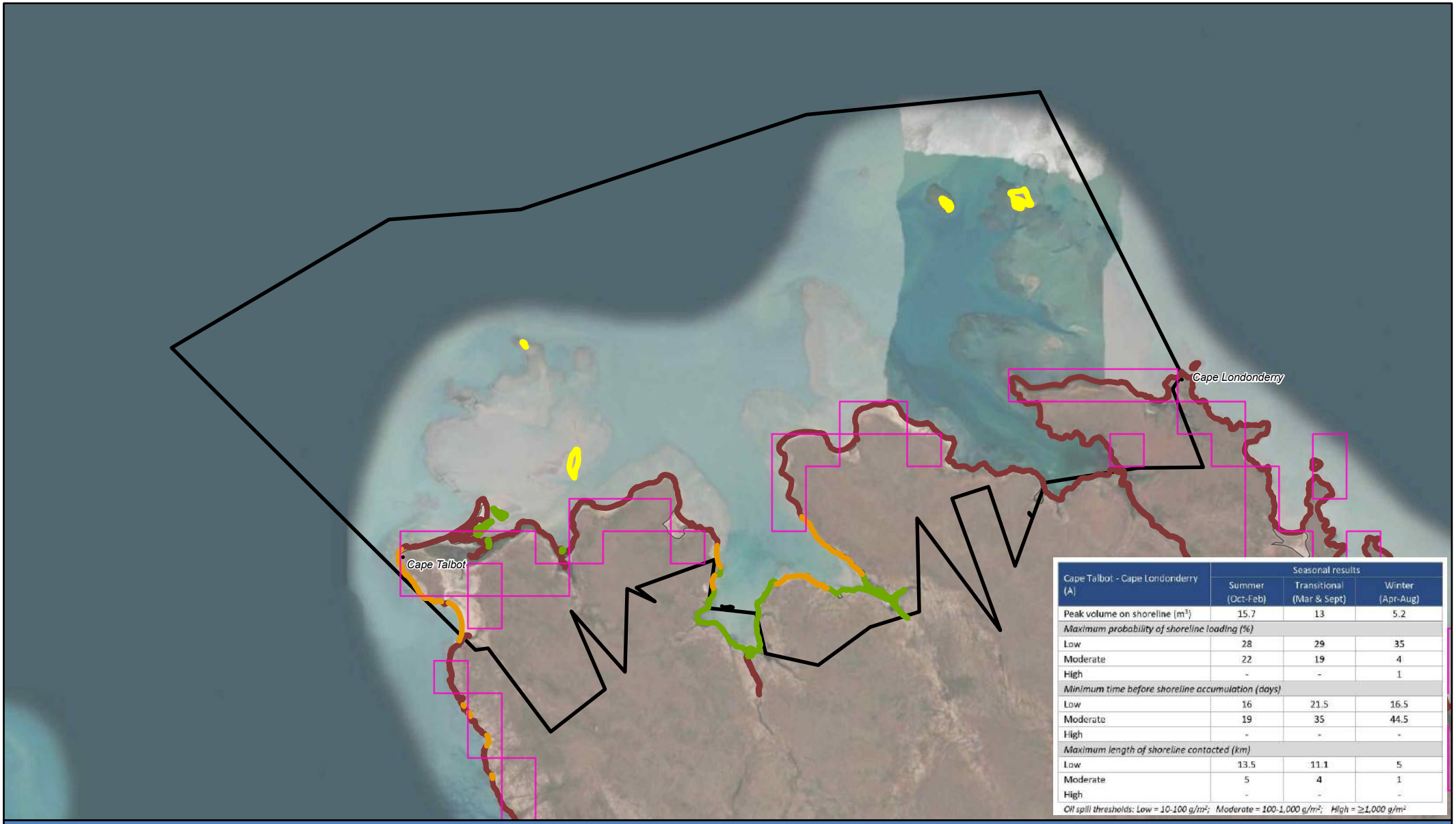
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:265,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 39 of 64	REV: E

0 5 10 km



Cape Talbot - Cape Londonderry (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	15.7	13	5.2
Maximum probability of shoreline loading (%)			
Low	28	29	35
Moderate	22	19	4
High	-	-	1
Minimum time before shoreline accumulation (days)			
Low	16	21.5	16.5
Moderate	19	35	44.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	13.5	11.1	5
Moderate	5	4	1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE TALBOT - CAPE LONDONDERRY (A) (WAMOPRA DOT CELL 15)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

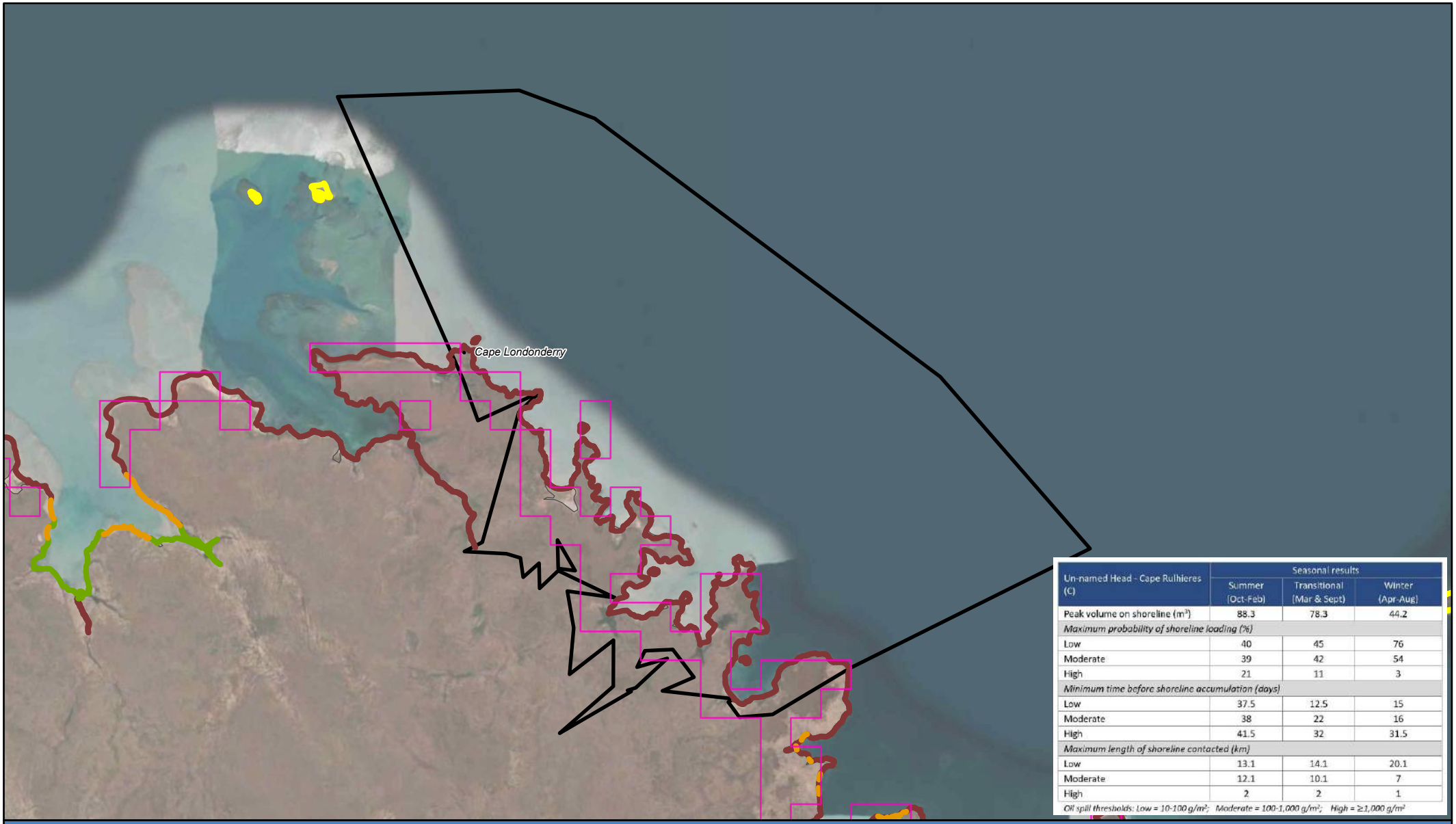
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:160,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 40 of 64	REV E

0 5 km



Un-named Head - Cape Rulhieres (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	88.3	78.3	44.2
Maximum probability of shoreline loading (%)			
Low	40	45	76
Moderate	39	42	54
High	21	11	3
Minimum time before shoreline accumulation (days)			
Low	37.5	12.5	15
Moderate	38	22	16
High	41.5	32	31.5
Maximum length of shoreline contacted (km)			
Low	13.1	14.1	20.1
Moderate	12.1	10.1	7
High	2	2	1

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - UN-NAMED HEAD - CAPE RULHIERES (C) (WAMOPRA DOT CELL 14)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

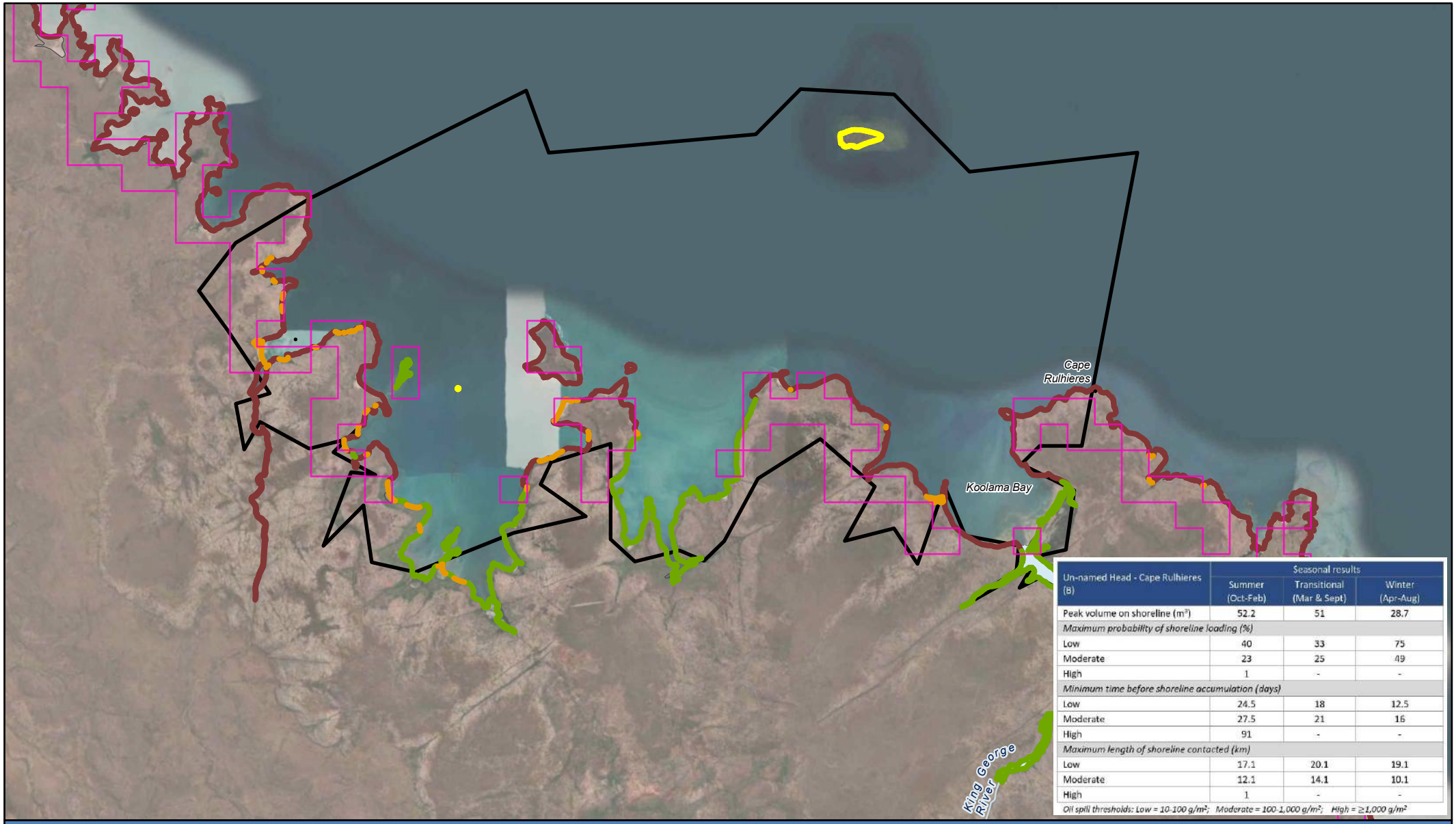
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:180,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 41 of 64	REV: E

0 5 km



Un-named Head - Cape Rulhieres (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	52.2	51	28.7
Maximum probability of shoreline loading (%)			
Low	40	33	75
Moderate	23	25	49
High	1	-	-
Minimum time before shoreline accumulation (days)			
Low	24.5	18	12.5
Moderate	27.5	21	16
High	91	-	-
Maximum length of shoreline contacted (km)			
Low	17.1	20.1	19.1
Moderate	12.1	14.1	10.1
High	1	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - UN-NAMED HEAD - CAPE RULHIERES (B) (WAMOPRA DOT CELL 13)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

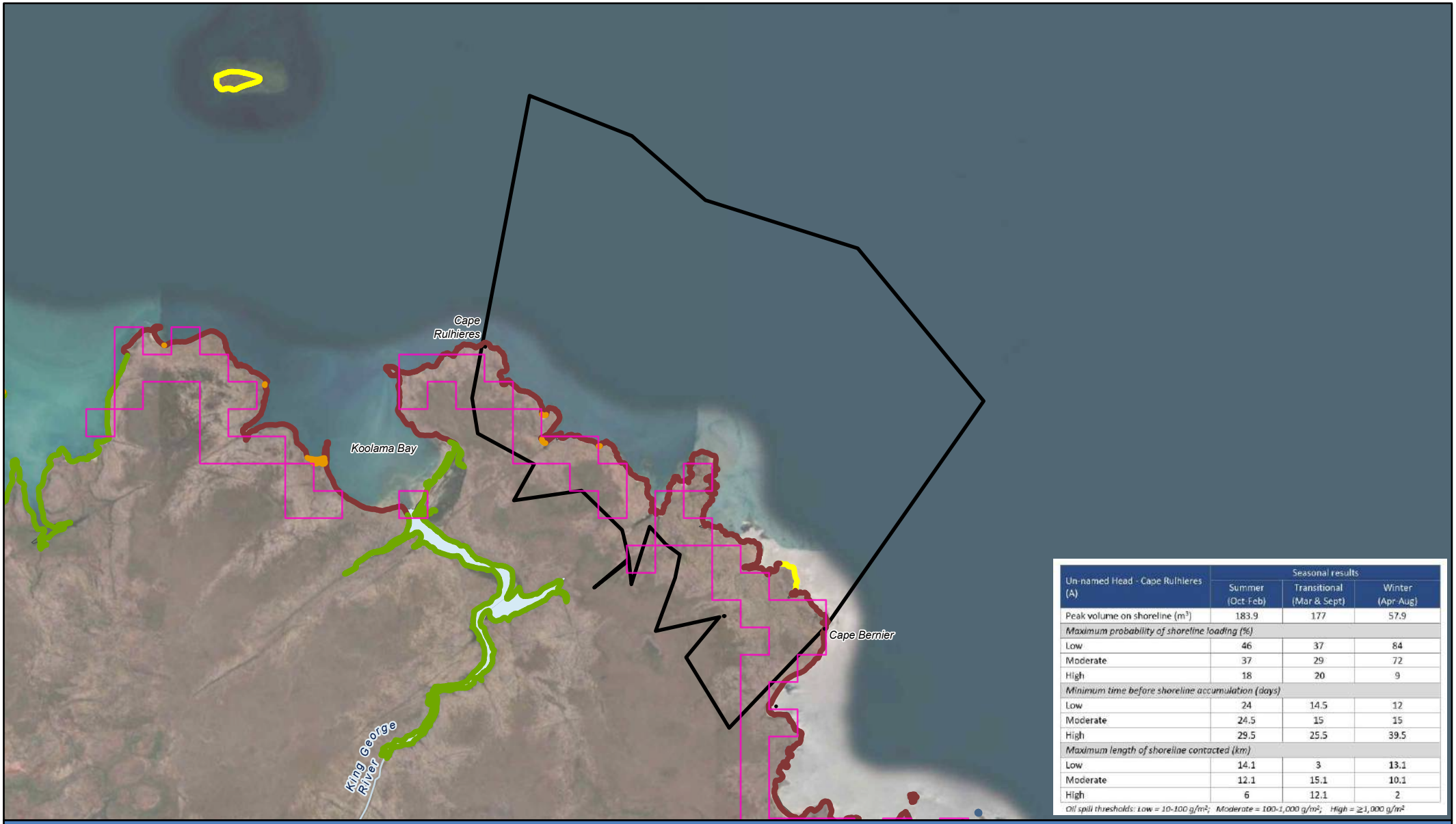
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:200,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 42 of 64	REV E

0 5 10 km



Un-named Head - Cape Rulhieres (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	183.9	177	57.9
Maximum probability of shoreline loading (%)			
Low	46	37	84
Moderate	37	29	72
High	18	20	9
Minimum time before shoreline accumulation (days)			
Low	24	14.5	12
Moderate	24.5	15	15
High	29.5	25.5	39.5
Maximum length of shoreline contacted (km)			
Low	14.1	3	13.1
Moderate	12.1	15.1	10.1
High	6	12.1	2

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - UN-NAMED HEAD - CAPE RULHIERES (A) (WAMOPRA DOT CELL 12)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

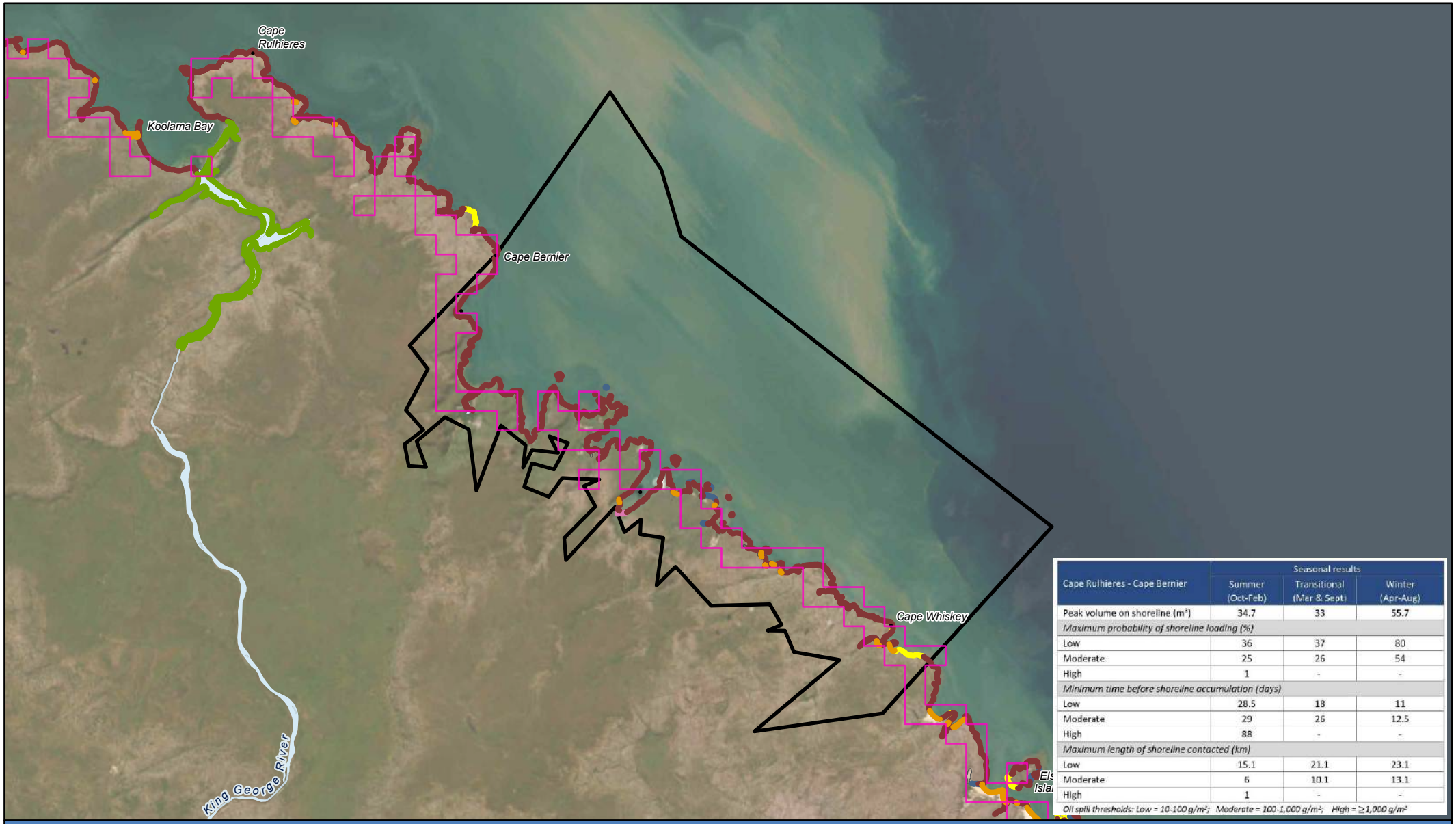
- *Beach sediment \ ridges*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:190,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 43 of 64	REV E

0 5 10 km



Cape Rulhieres - Cape Bernier	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	34.7	33	55.7
Maximum probability of shoreline loading (%)			
Low	36	37	80
Moderate	25	26	54
High	1	-	-
Minimum time before shoreline accumulation (days)			
Low	28.5	18	11
Moderate	29	26	12.5
High	88	-	-
Maximum length of shoreline contacted (km)			
Low	15.1	21.1	23.1
Moderate	6	10.1	13.1
High	1	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE RULHIERES - CAPE BERNIER (WAMOPRA DOT CELL 11)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

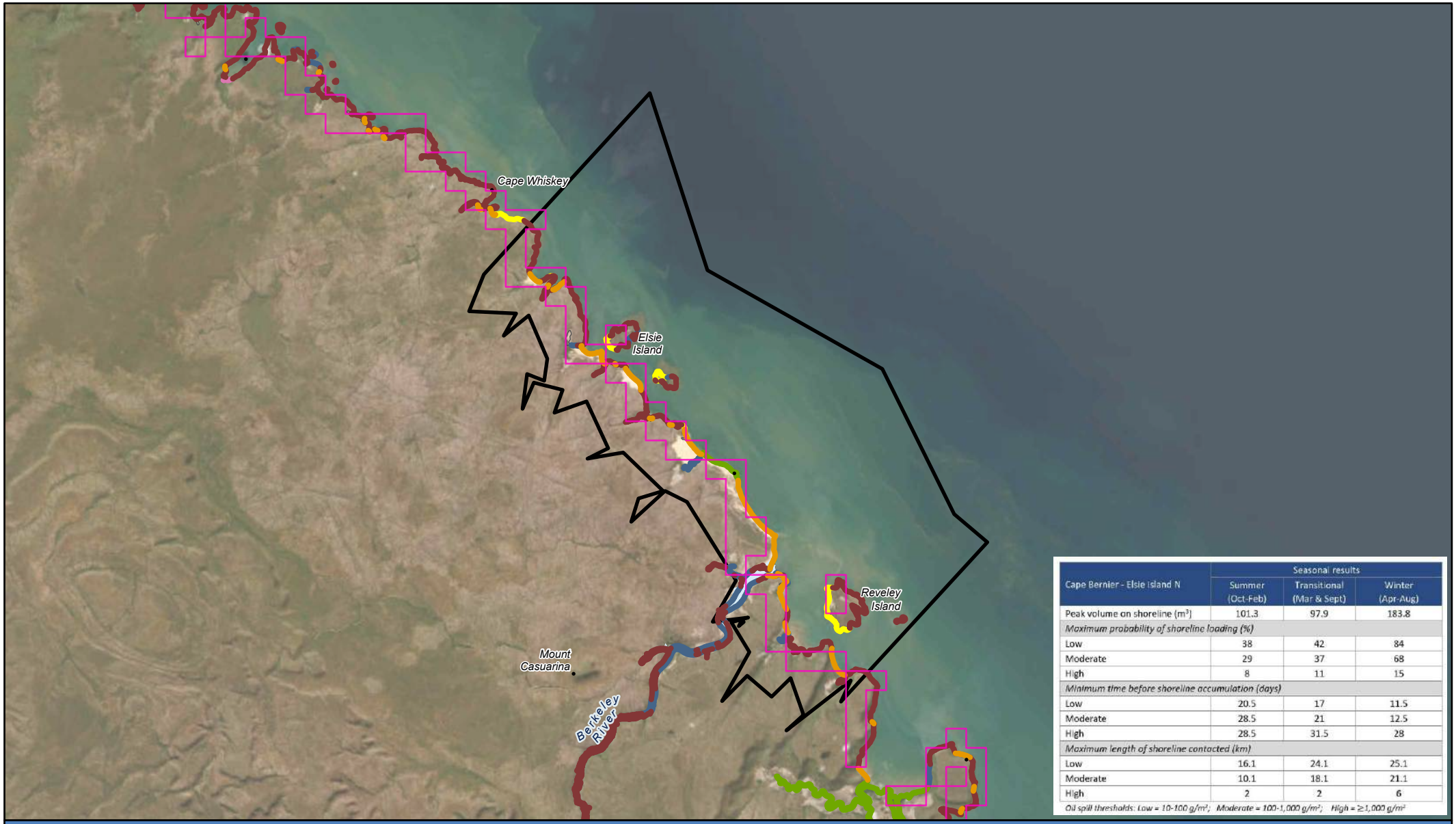
- *Beach sediment \ ridges*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Soft bedrock*

eog

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:265,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 44 of 64	REV E

0 5 10 km



Cape Bernier - Elsie Island N	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	101.3	97.9	183.8
Maximum probability of shoreline loading (%)			
Low	38	42	84
Moderate	29	37	68
High	8	11	15
Minimum time before shoreline accumulation (days)			
Low	20.5	17	11.5
Moderate	28.5	21	12.5
High	28.5	31.5	28
Maximum length of shoreline contacted (km)			
Low	16.1	24.1	25.1
Moderate	10.1	18.1	21.1
High	2	2	6

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE BERNIER - ELSIE ISLAND N (WAMOPRA DOT CELL 10)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

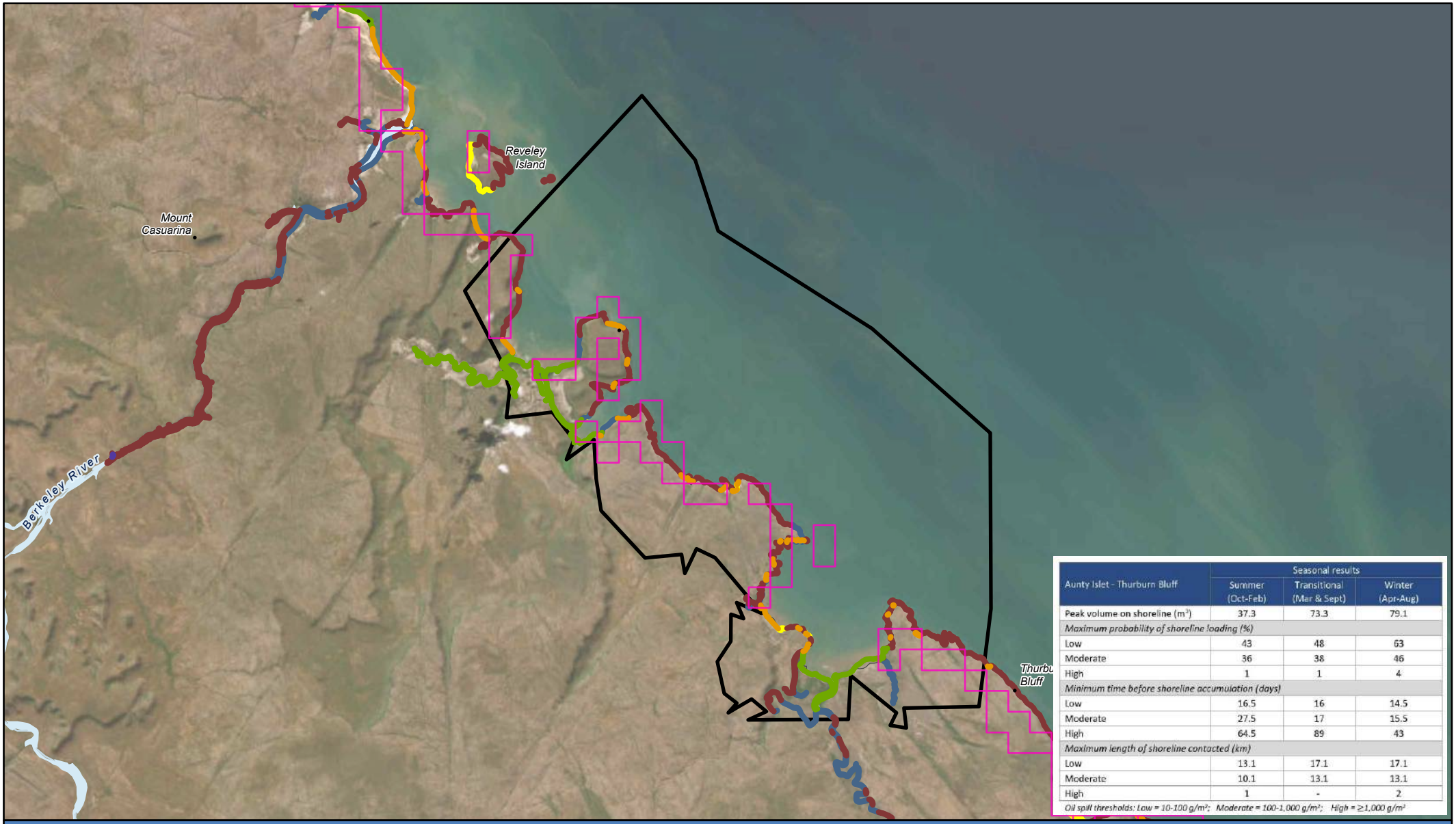
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:270,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 45 of 64	REV E

0 5 10 km



Aunty Islet - Thurburn Bluff	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	37.3	73.3	79.1
Maximum probability of shoreline loading (%)			
Low	43	48	63
Moderate	36	38	46
High	1	1	4
Minimum time before shoreline accumulation (days)			
Low	16.5	16	14.5
Moderate	27.5	17	15.5
High	64.5	89	43
Maximum length of shoreline contacted (km)			
Low	13.1	17.1	17.1
Moderate	10.1	13.1	13.1
High	1	-	2

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - AUNTY ISLET - THURBURN BLUFF (WAMOPRA DOT CELL 9)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

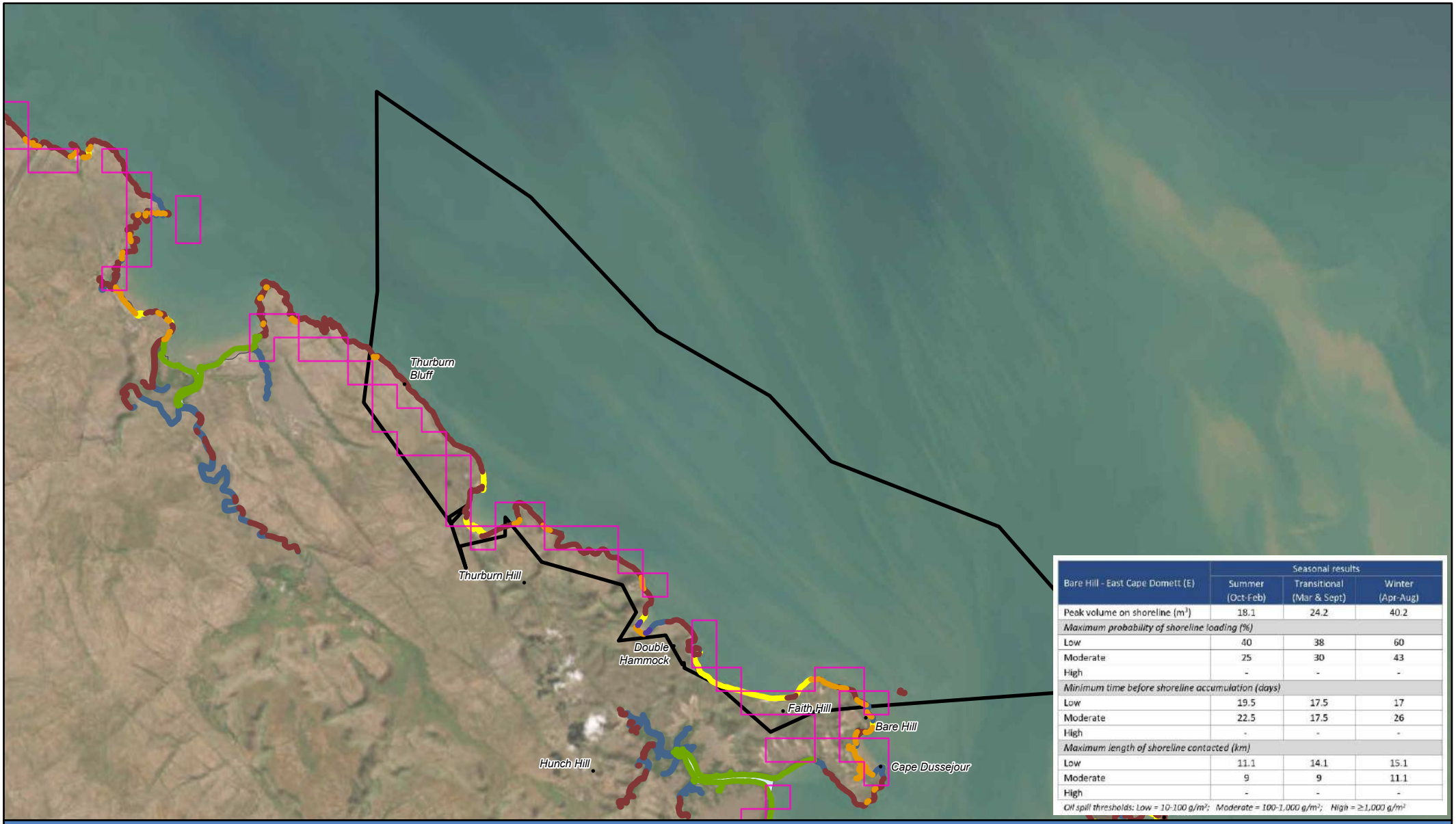
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:250,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 46 of 64	REV E

0 5 10 km



Bare Hill - East Cape Domett (E)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	18.1	24.2	40.2
Maximum probability of shoreline loading (%)			
Low	40	38	60
Moderate	25	30	43
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	19.5	17.5	17
Moderate	22.5	17.5	26
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	11.1	14.1	15.1
Moderate	9	9	11.1
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - BARE HILL - EAST CAPE DOMETT (E) (WAMOPRA DOT CELL 8)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

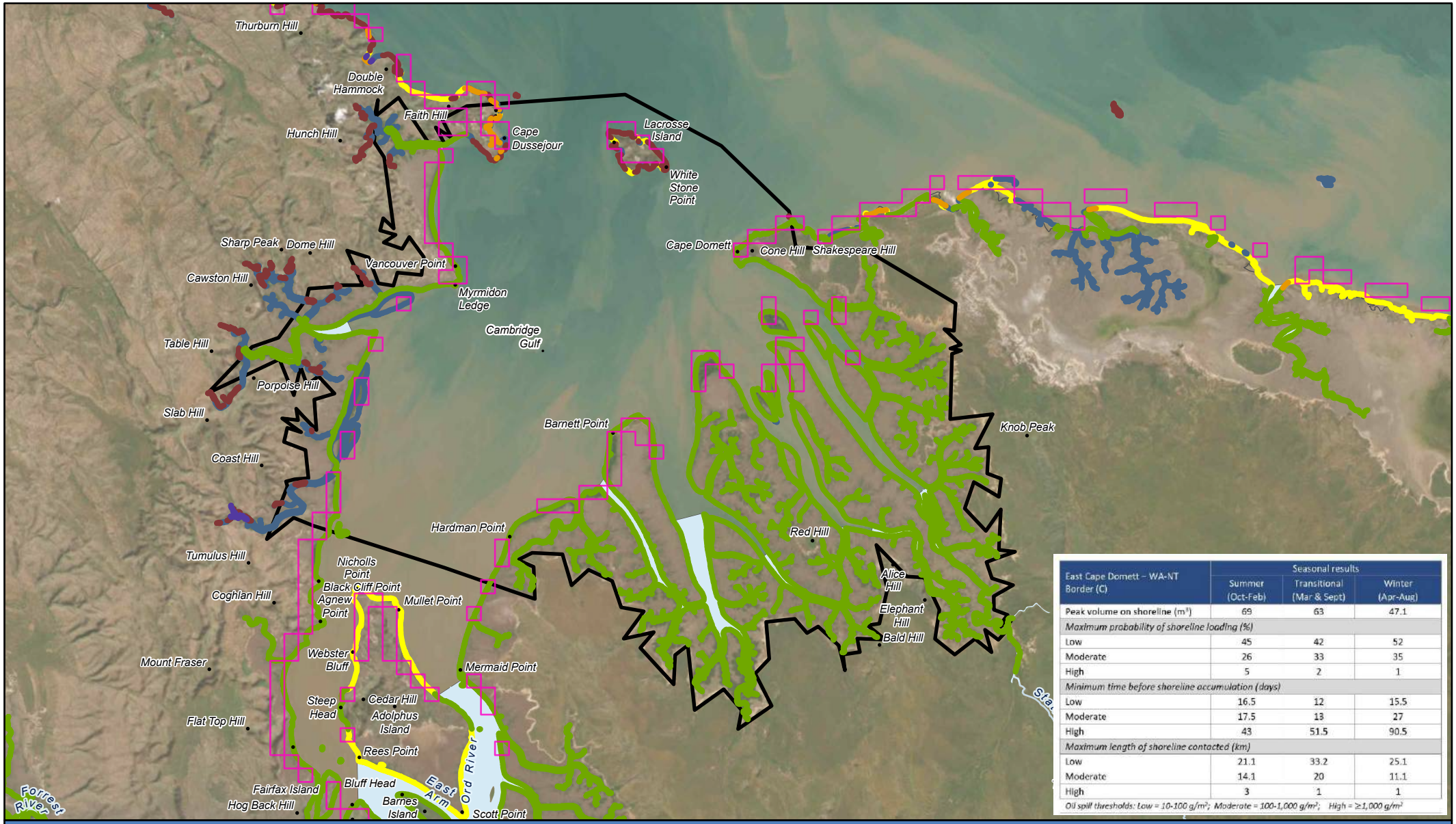
- *Alluvial sediment \ plain*
- *Beach sediment \ ridges*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:220,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 47 of 64	REV E

0 5 10 km



East Cape Domett – WA-NT Border (C)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	69	63	47.1
Maximum probability of shoreline loading (%)			
Low	45	42	52
Moderate	26	33	35
High	5	2	1
Minimum time before shoreline accumulation (days)			
Low	16.5	12	15.5
Moderate	17.5	13	27
High	43	51.5	90.5
Maximum length of shoreline contacted (km)			
Low	21.1	33.2	25.1
Moderate	14.1	20	11.1
High	3	1	1

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - EAST CAPE DOMETT - WA-NT BORDER (C) (WAMOPRA DOT CELL 3)

LEGEND

Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

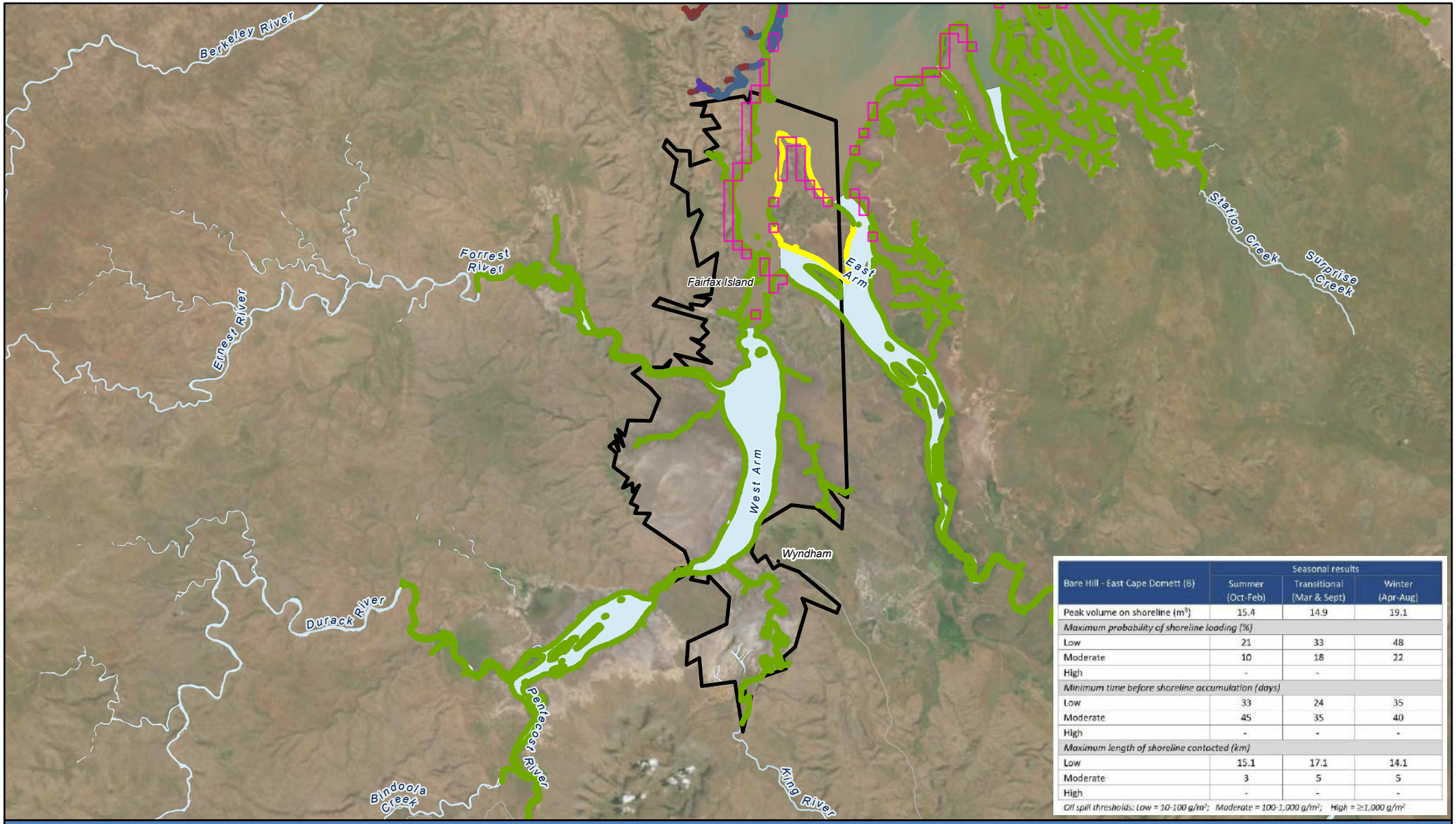
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:385,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 48 of 64	REV E

0 5 10 15 20 km



Bare Hill - East Cape Domett (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	15.4	14.9	19.1
Maximum probability of shoreline loading (%)			
Low	21	33	48
Moderate	10	18	22
High	-	-	
Minimum time before shoreline accumulation (days)			
Low	33	24	35
Moderate	45	35	40
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	15.1	17.1	14.1
Moderate	3	5	5
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - BARE HILL - EAST CAPE DOMETT (B) (WAMOPRA DOT CELL 5)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

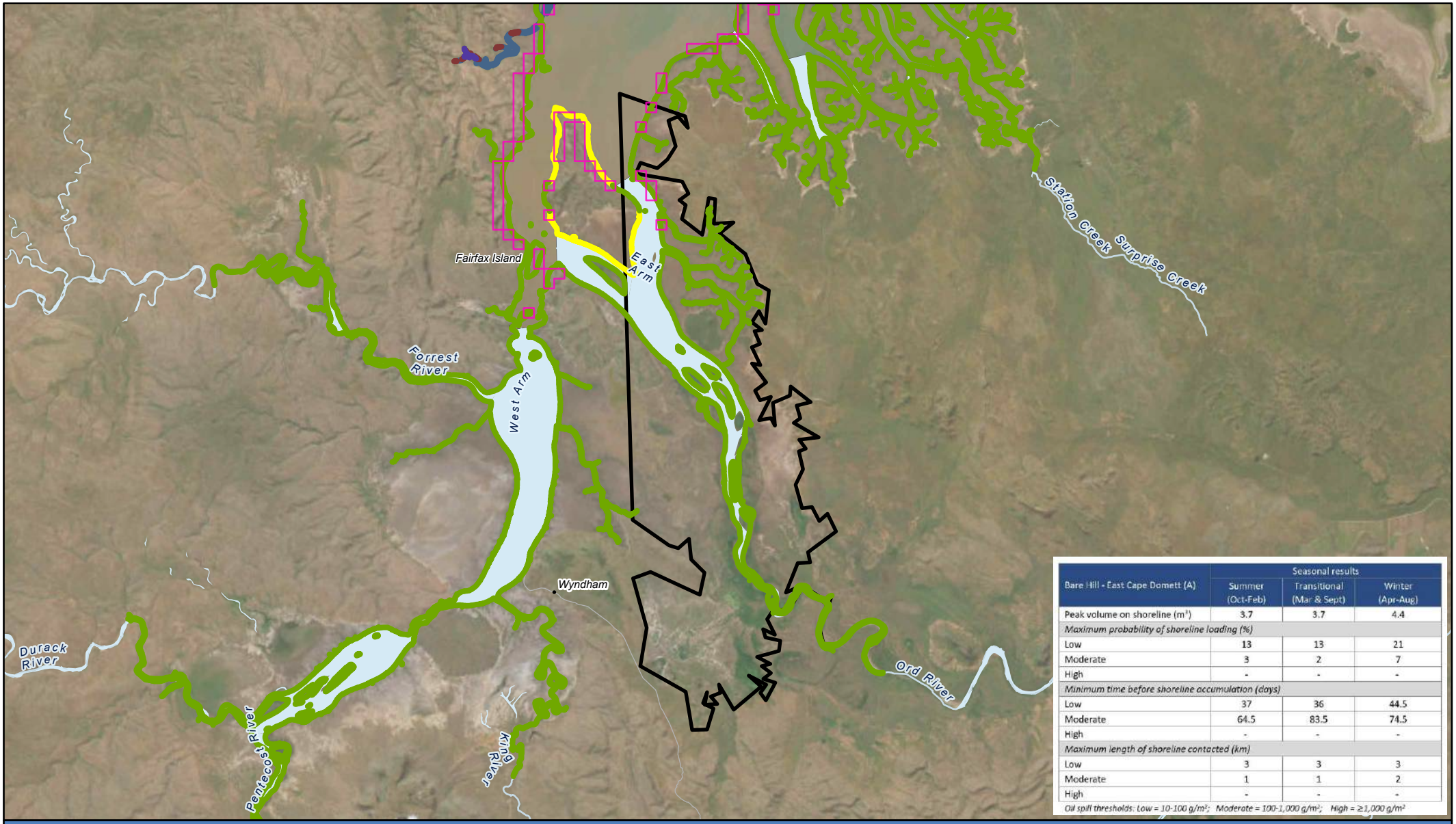
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:600,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 49 of 64	REV E

0 5 10 15 20 25 30 km



Bare Hill - East Cape Domett (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	3.7	3.7	4.4
Maximum probability of shoreline loading (%)			
Low	13	13	21
Moderate	3	2	7
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	37	36	44.5
Moderate	64.5	83.5	74.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	3	3	3
Moderate	1	1	2
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - BARE HILL - EAST CAPE DOMETT (A) (WAMOPRA DOT CELL 4)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

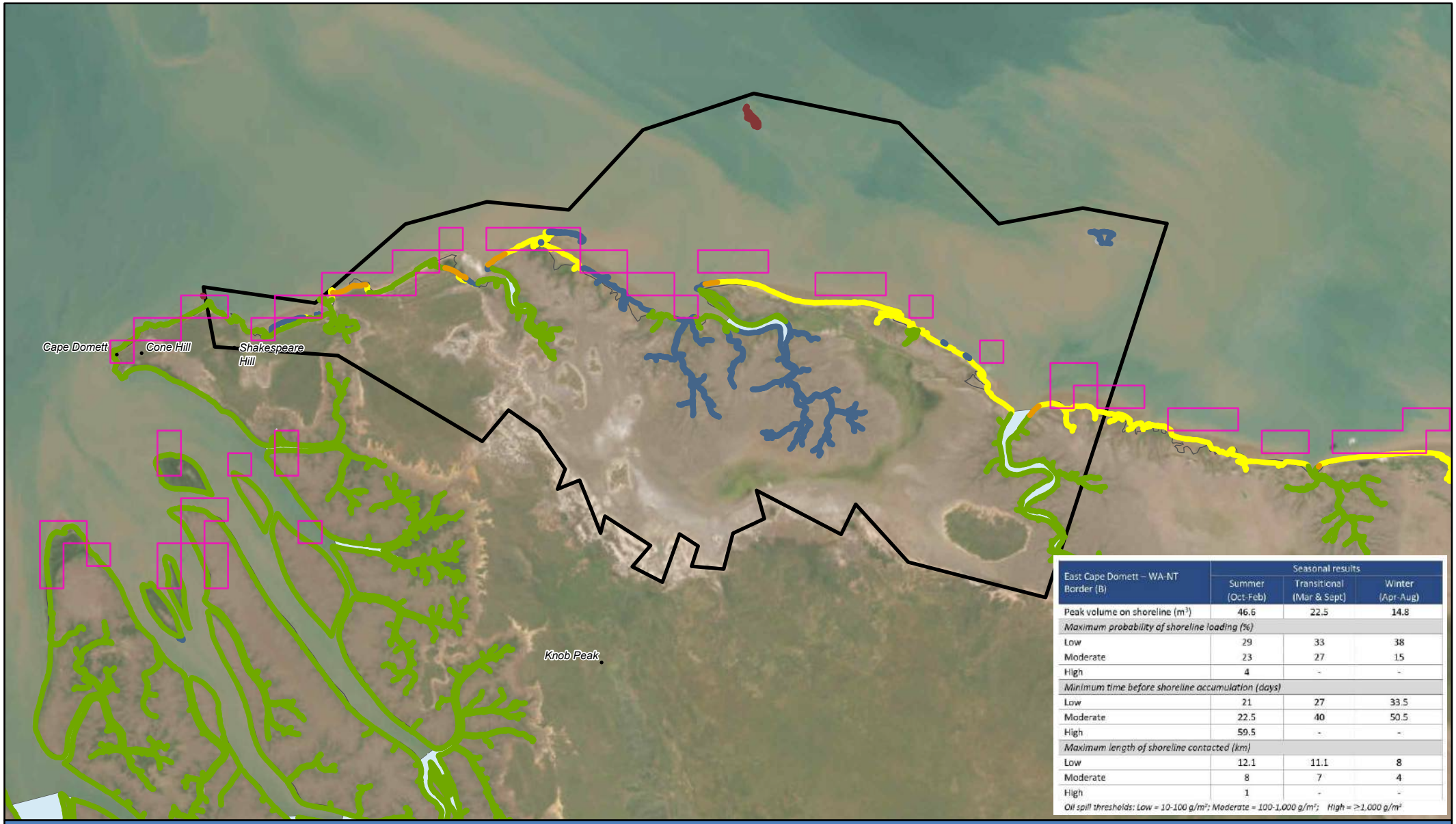
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:530,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 50 of 64	REV E

0 5 10 15 20 25 km



East Cape Domett – WA-NT Border (B)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	46.6	22.5	14.8
Maximum probability of shoreline loading (%)			
Low	29	33	38
Moderate	23	27	15
High	4	-	-
Minimum time before shoreline accumulation (days)			
Low	21	27	33.5
Moderate	22.5	40	50.5
High	59.5	-	-
Maximum length of shoreline contacted (km)			
Low	12.1	11.1	8
Moderate	8	7	4
High	1	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = >1,000 g/m²

SHORELINE RECEPTORS - EAST CAPE DOMETT - WA-NT BORDER (B) (WAMOPRA DOT CELL 2)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

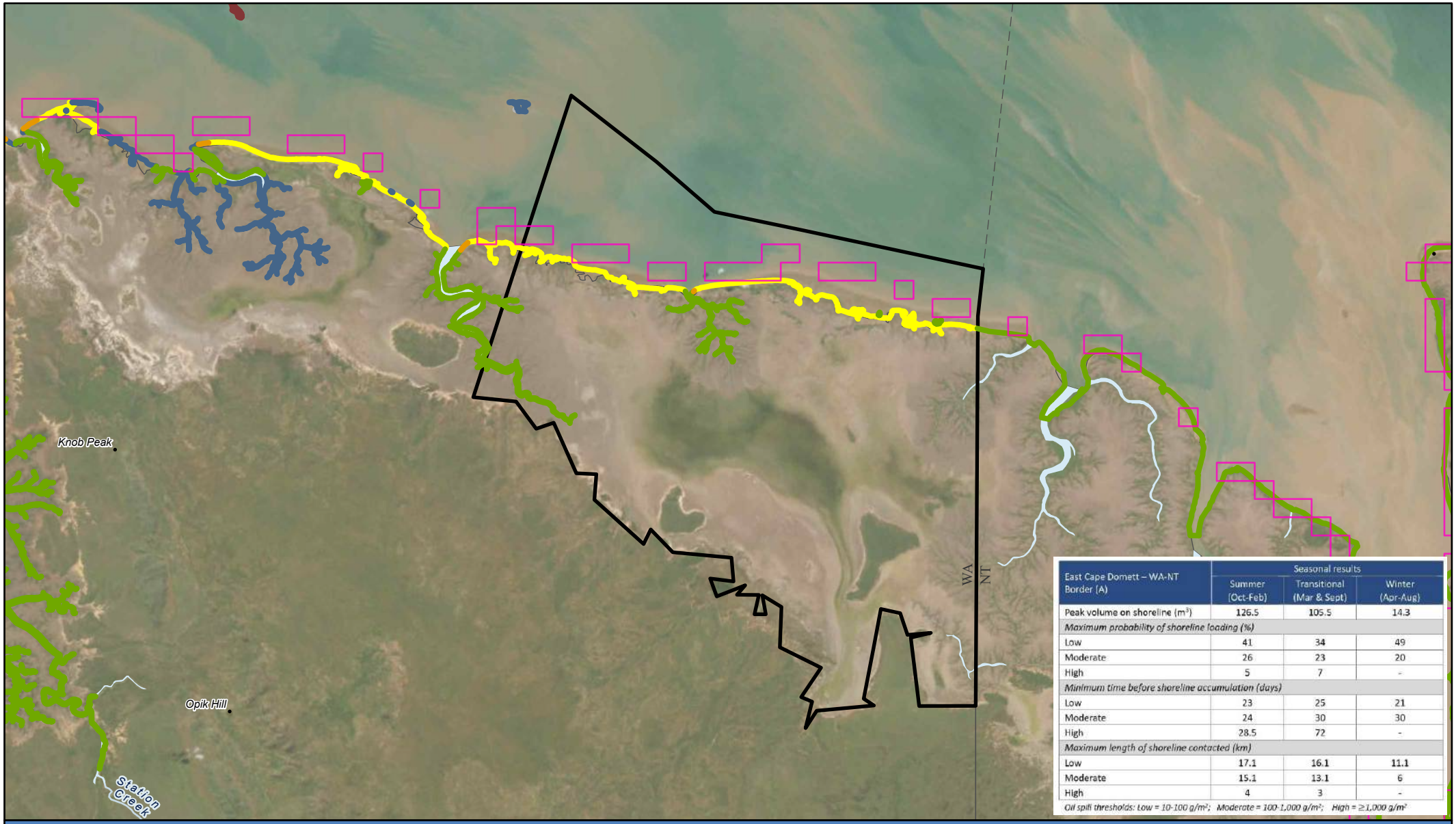
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Unclassified*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:230,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 51 of 64	REV E

0 5 10 km



East Cape Domett – WA-NT Border (A)	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	126.5	105.5	14.3
Maximum probability of shoreline loading (%)			
Low	41	34	49
Moderate	26	23	20
High	5	7	-
Minimum time before shoreline accumulation (days)			
Low	23	25	21
Moderate	24	30	30
High	28.5	72	-
Maximum length of shoreline contacted (km)			
Low	17.1	16.1	11.1
Moderate	15.1	13.1	6
High	4	3	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - EAST CAPE DOMETT - WA-NT BORDER (A) (WAMOPRA DOT CELL 1)

LEGEND

- WAMOPRA DoT Cell
- Shoreline oil accumulation (10-1,000 g/m²)
- Offshore State Boundaries

Shoreline

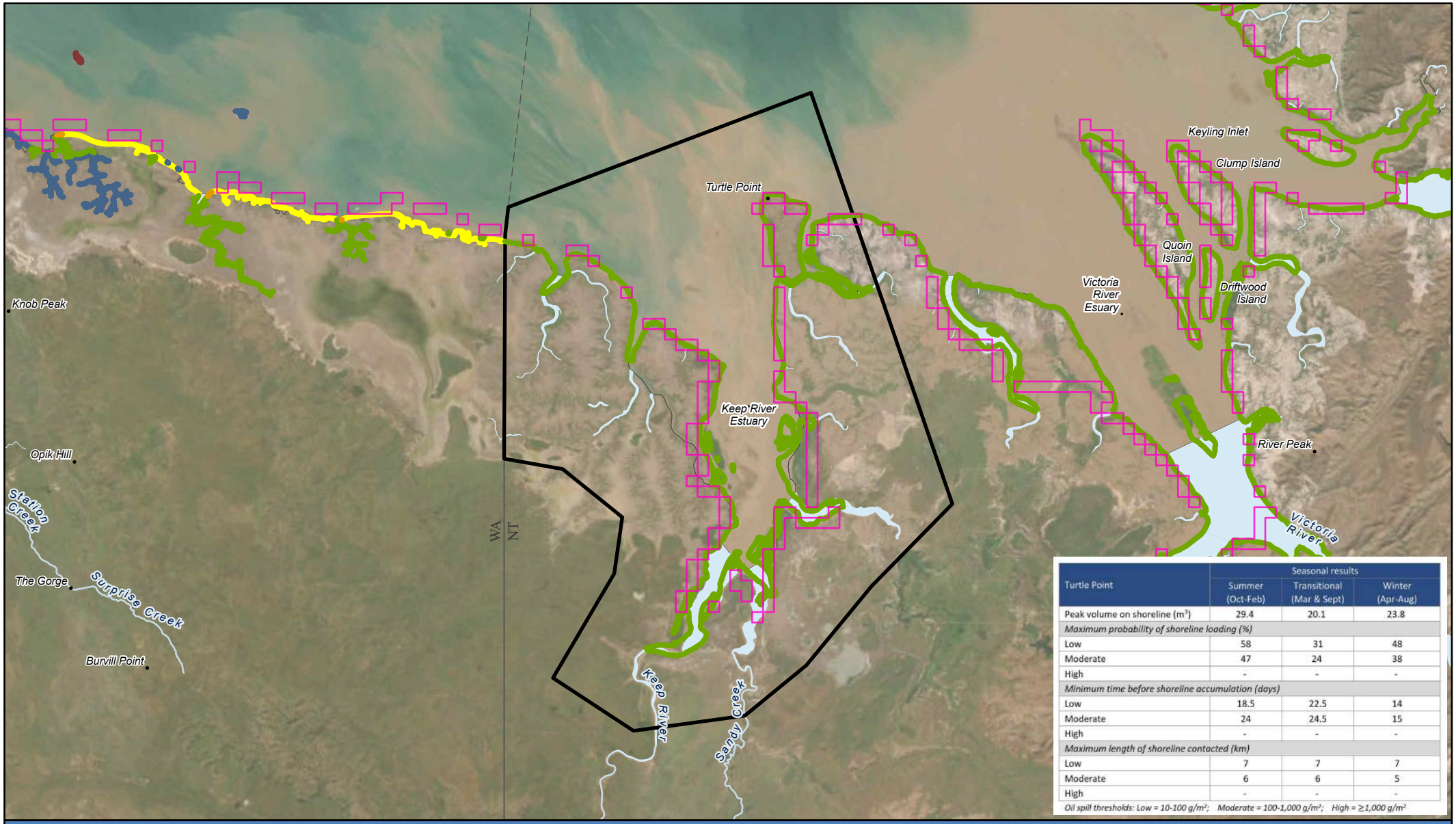
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:285,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 52 of 64	REV E

0 5 10 15 km



Turtle Point	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	29.4	20.1	23.8
Maximum probability of shoreline loading (%)			
Low	58	31	48
Moderate	47	24	38
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	18.5	22.5	14
Moderate	24	24.5	15
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	7	7	7
Moderate	6	6	5
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - KEEP RIVER ESTUARY (NT CELL 1)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

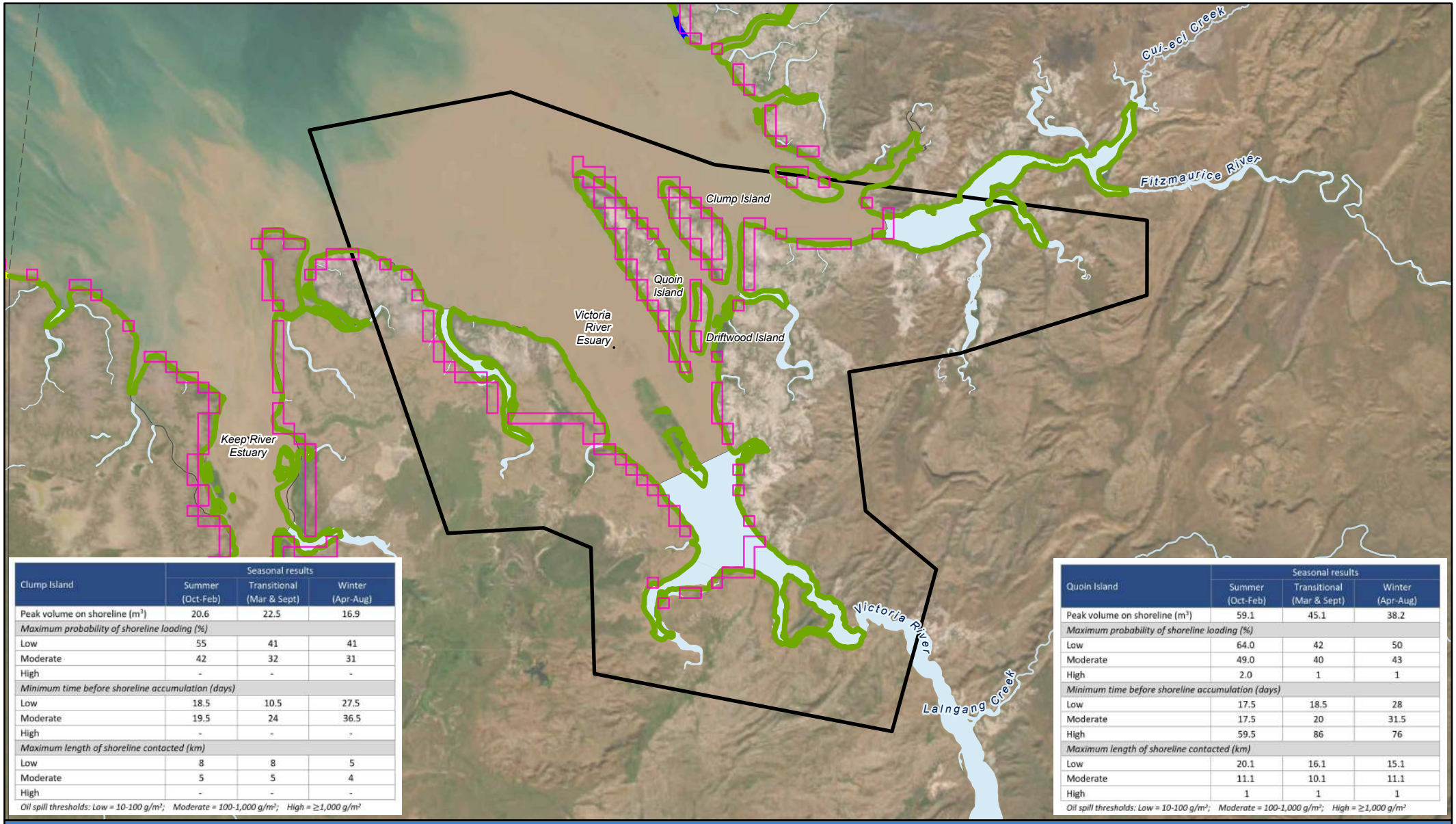
- *Tidal flats (sand, mud, sediment) \ Mangroves*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:495,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 53 of 64	REV: E

0 5 10 15 20 25 km



Clump Island	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	20.6	22.5	16.9
Maximum probability of shoreline loading (%)			
Low	55	41	41
Moderate	42	32	31
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	18.5	10.5	27.5
Moderate	19.5	24	36.5
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	8	8	5
Moderate	5	5	4
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

Quoin Island	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	59.1	45.1	38.2
Maximum probability of shoreline loading (%)			
Low	64.0	42	50
Moderate	49.0	40	43
High	2.0	1	1
Minimum time before shoreline accumulation (days)			
Low	17.5	18.5	28
Moderate	17.5	20	31.5
High	59.5	86	76
Maximum length of shoreline contacted (km)			
Low	20.1	16.1	15.1
Moderate	11.1	10.1	11.1
High	1	1	1

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - VICTORIA RIVER ESTUARY (NT CELL 2)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

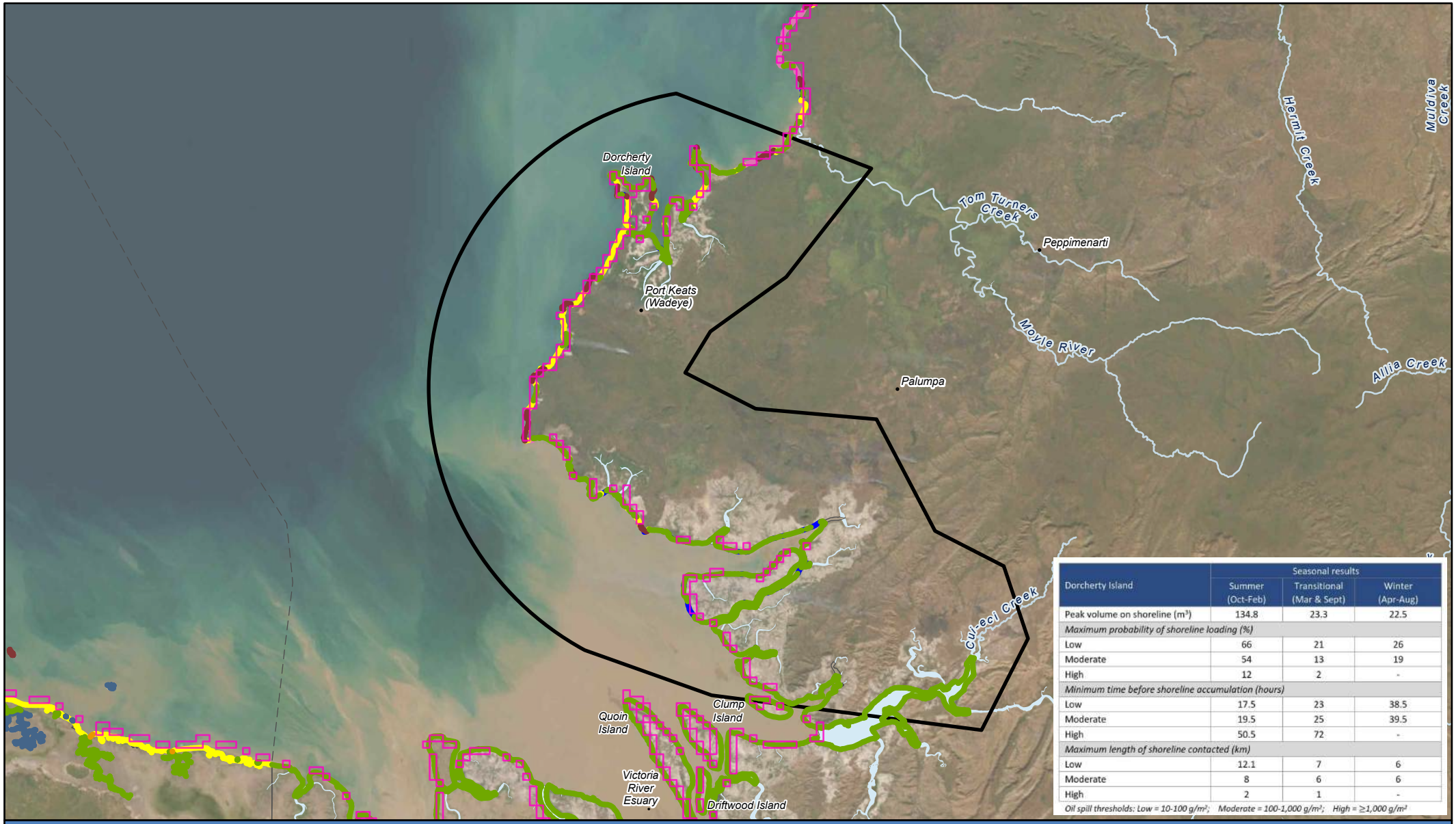
- *Tidal flats (sand, mud, sediment) \ Mangroves*

eog

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PROJECT: Beehive EOG		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:505,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 54 of 64	REV: E

0 5 10 15 20 25 km



Dorcherty Island	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	134.8	23.3	22.5
Maximum probability of shoreline loading (%)			
Low	66	21	26
Moderate	54	13	19
High	12	2	-
Minimum time before shoreline accumulation (hours)			
Low	17.5	23	38.5
Moderate	19.5	25	39.5
High	50.5	72	-
Maximum length of shoreline contacted (km)			
Low	12.1	7	6
Moderate	8	6	6
High	2	1	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - MOYLE RIVER TO FITZMAURICE RIVER (NT CELL 3)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

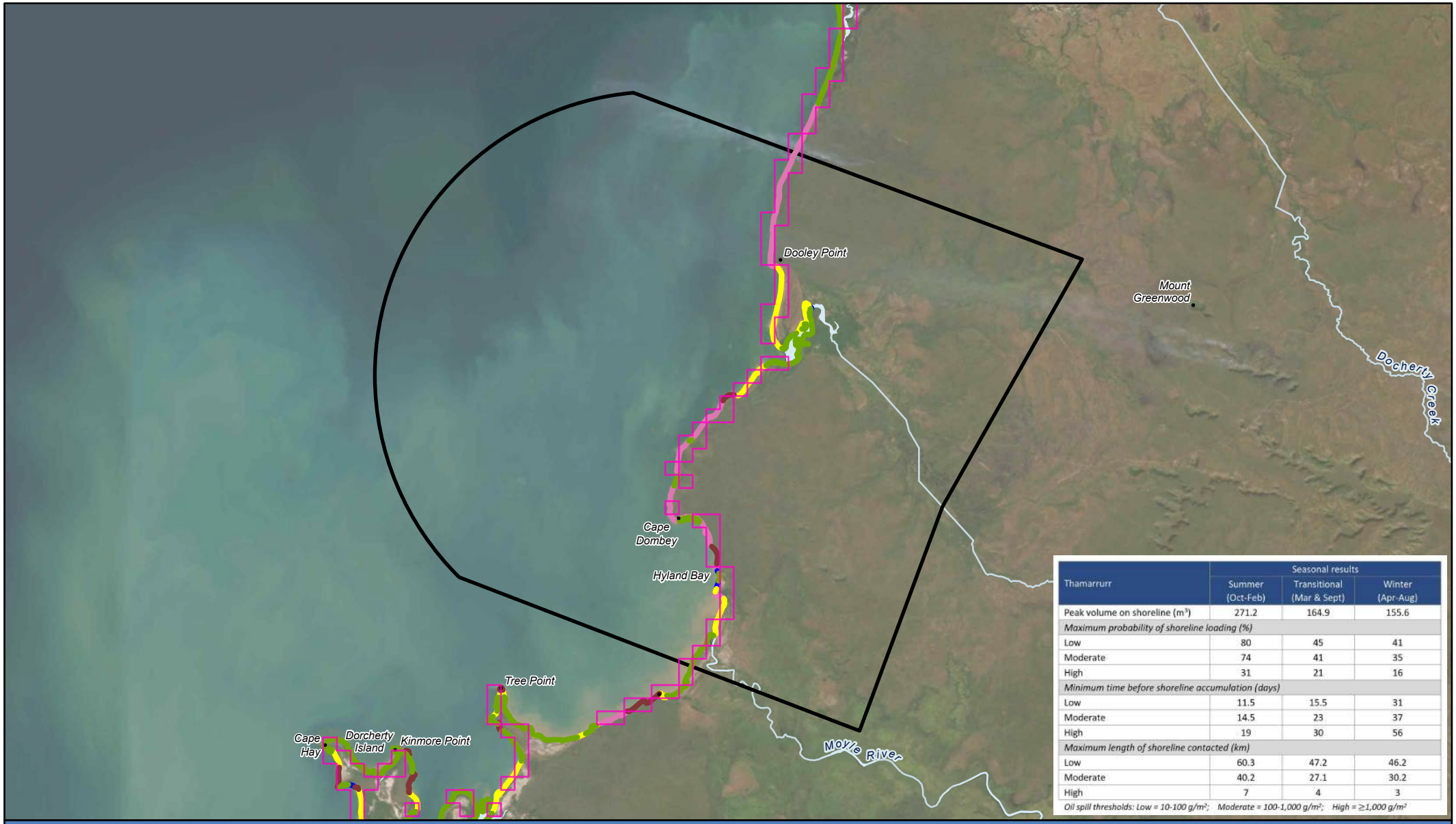
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Sediment plain \ sediment deposits*
- *Soft bedrock*

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SCALE: 1:810,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 55 of 64	REV: E

0 5 10 15 20 25 30 35 40 km



Thamarrurr	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	271.2	164.9	155.6
Maximum probability of shoreline loading (%)			
Low	80	45	41
Moderate	74	41	35
High	31	21	16
Minimum time before shoreline accumulation (days)			
Low	11.5	15.5	31
Moderate	14.5	23	37
High	19	30	56
Maximum length of shoreline contacted (km)			
Low	60.3	47.2	46.2
Moderate	40.2	27.1	30.2
High	7	4	3

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - CAPE FORD TO MOYLE RIVER (NT CELL 4)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

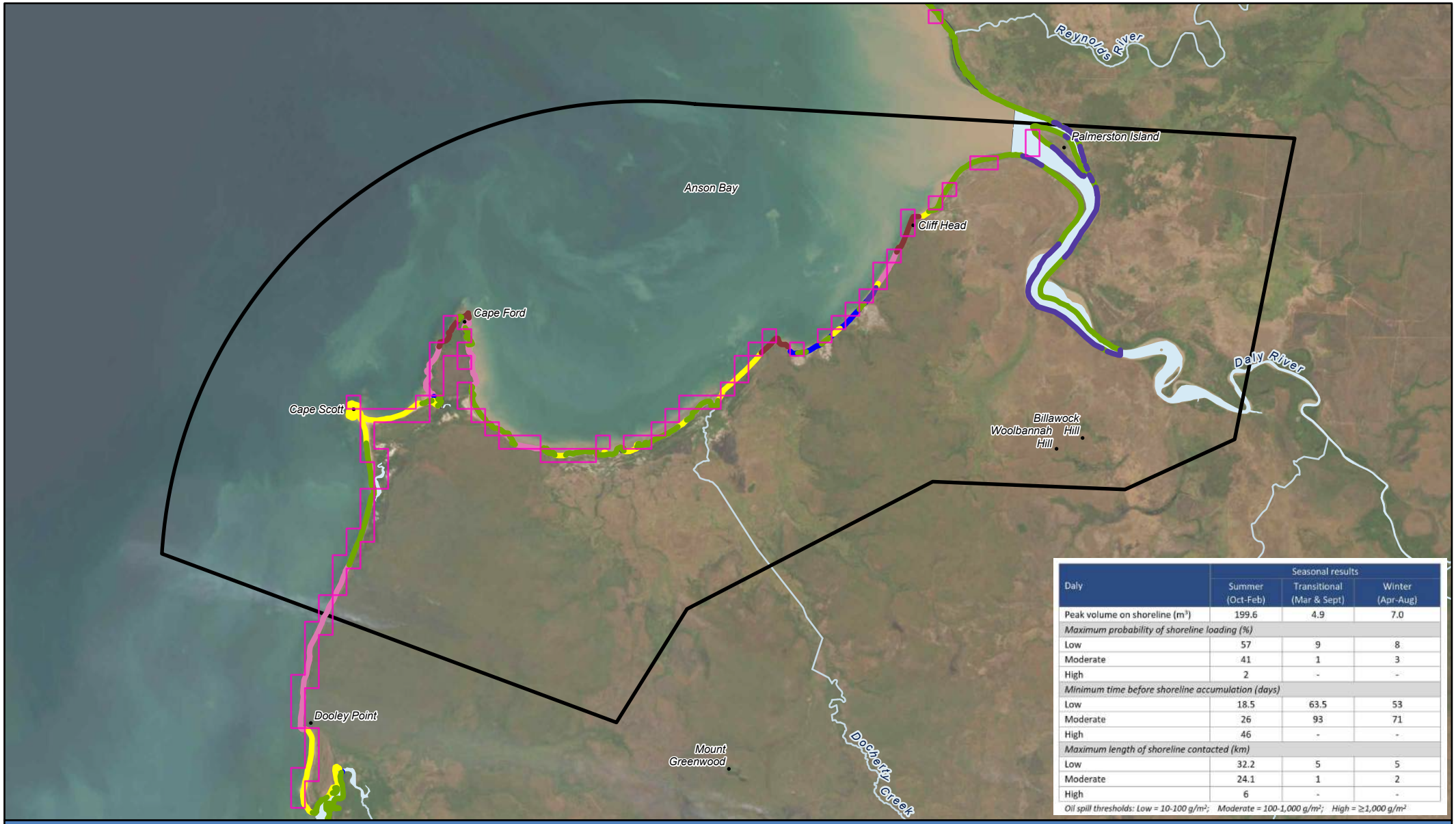
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Sediment plain \ sediment deposits*
- *Soft bedrock*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:395,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 56 of 64	REV E

0 5 10 15 20 km



Daly	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	199.6	4.9	7.0
Maximum probability of shoreline loading (%)			
Low	57	9	8
Moderate	41	1	3
High	2	-	-
Minimum time before shoreline accumulation (days)			
Low	18.5	63.5	53
Moderate	26	93	71
High	46	-	-
Maximum length of shoreline contacted (km)			
Low	32.2	5	5
Moderate	24.1	1	2
High	6	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - DALY (NT CELL 5)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

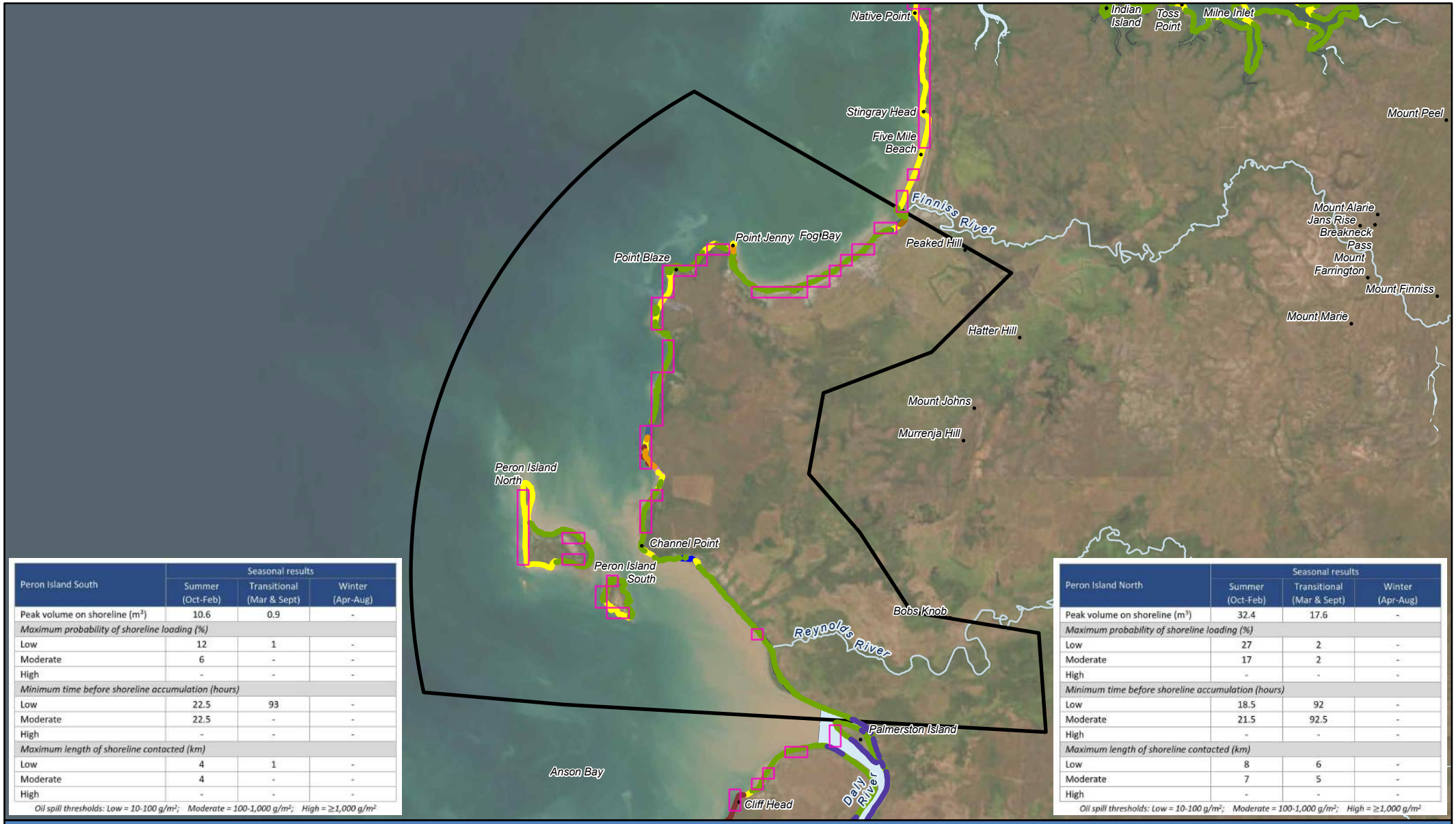
- *Alluvial sediment \ plain*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Sediment plain \ sediment deposits*
- *Soft bedrock*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:390,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 57 of 64	REV E

0 5 10 15 20 km



Peron Island South	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	10.6	0.9	-
Maximum probability of shoreline loading (%)			
Low	12	1	-
Moderate	6	-	-
High	-	-	-
Minimum time before shoreline accumulation (hours)			
Low	22.5	93	-
Moderate	22.5	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	4	1	-
Moderate	4	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

Peron Island North	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	32.4	17.6	-
Maximum probability of shoreline loading (%)			
Low	27	2	-
Moderate	17	2	-
High	-	-	-
Minimum time before shoreline accumulation (hours)			
Low	18.5	92	-
Moderate	21.5	92.5	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	8	6	-
Moderate	7	5	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - FINNIS RIVER TO DALY RIVER (NT CELL 6)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

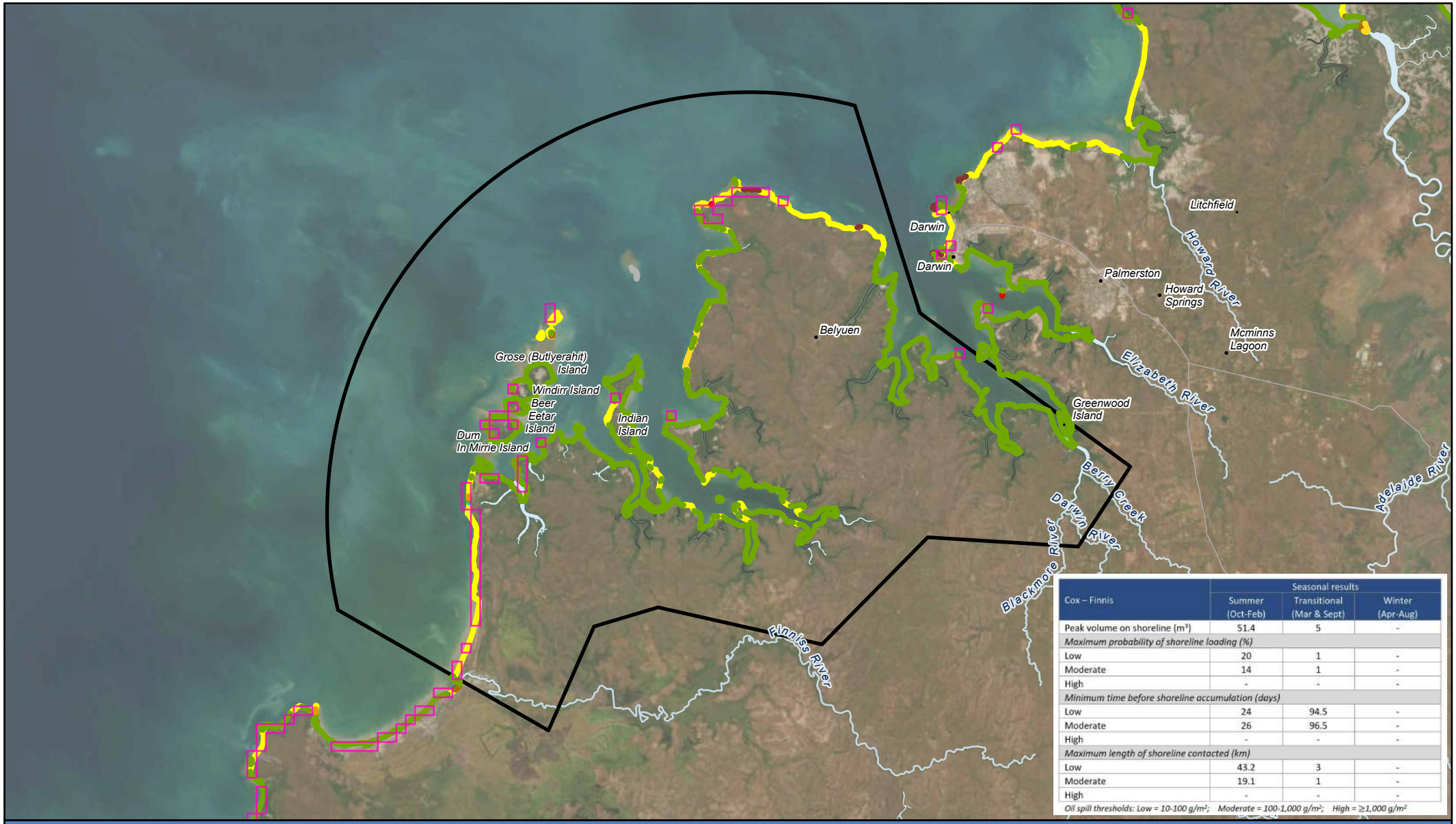
- *Alluvial sediment \ plain*
- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Muddy sediments \ alluvium \ sediment flats*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Sediment plain \ sediment deposits*
- *Soft bedrock*

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DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:485,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 58 of 64	REV: E

0 5 10 15 20 25 km



Cox – Finnis	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	51.4	5	-
Maximum probability of shoreline loading (%)			
Low	20	1	-
Moderate	14	1	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	24	94.5	-
Moderate	26	96.5	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	43.2	3	-
Moderate	19.1	1	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - GREENWOOD BAY TO FINNIS RIVER (NT CELL 7)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

- *Beach sediment \ ridges*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Marshy sediment flats \ Marshy saline sediment flats*
- *Mixed sandy shore \ Mixed sandy sediments on bedrock*
- *Muddy sediments \ alluvium \ sediment flats*
- *Rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Soft bedrock*
- *Unclassified*

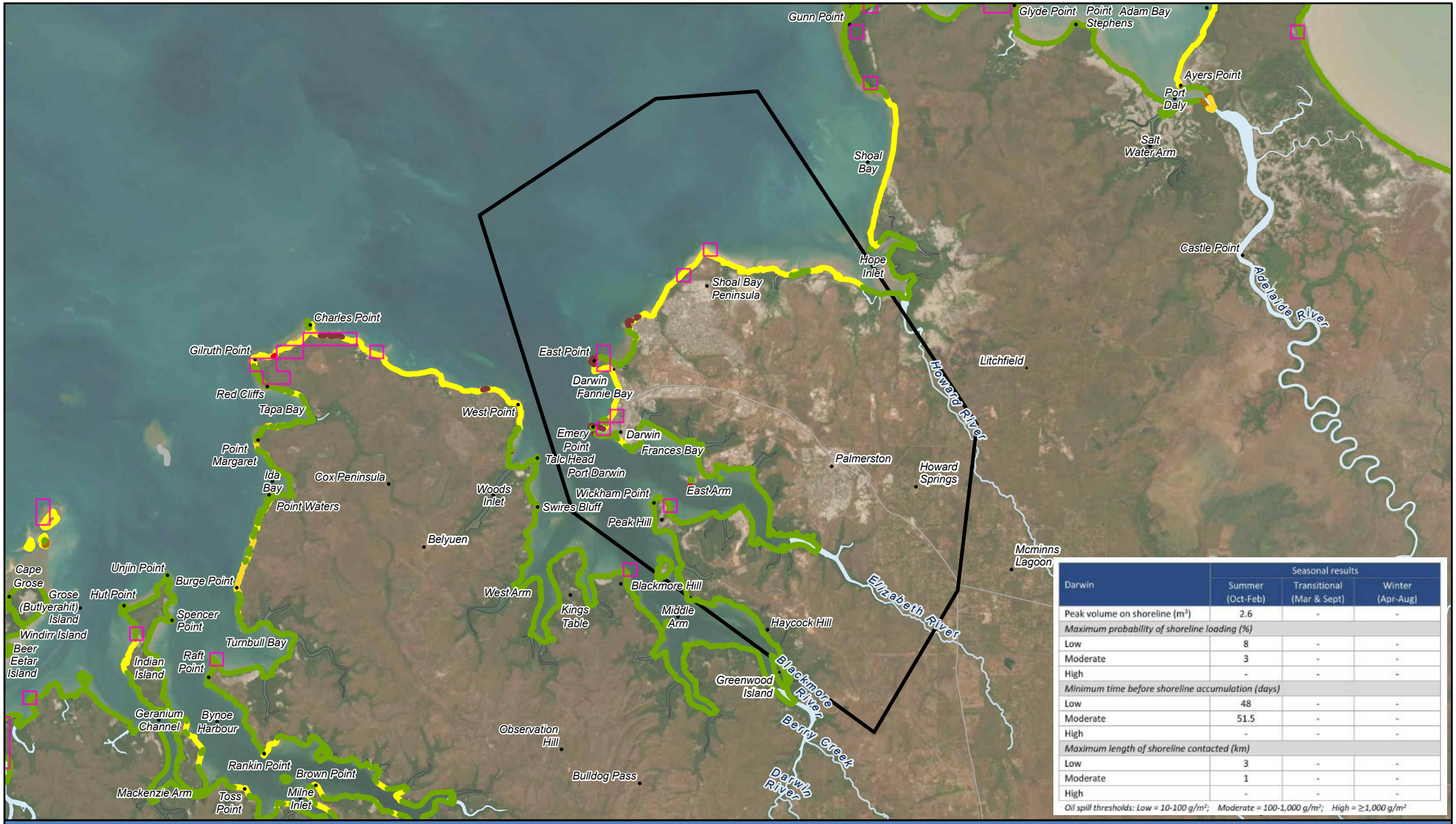
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PROJECT: **Beehive EOG**

DATE	STATUS	PRODUCED
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SCALE: 1:580,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 59 of 64	REV: E

0 5 10 15 20 25 30 km



Darwin	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	2.6	-	-
Maximum probability of shoreline loading (%)			
Low	8	-	-
Moderate	3	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	48	-	-
Moderate	51.5	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	3	-	-
Moderate	1	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - SHOAL BAY COASTAL RESERVE TO GREENWOOD ISLAND (NT CELL 8)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

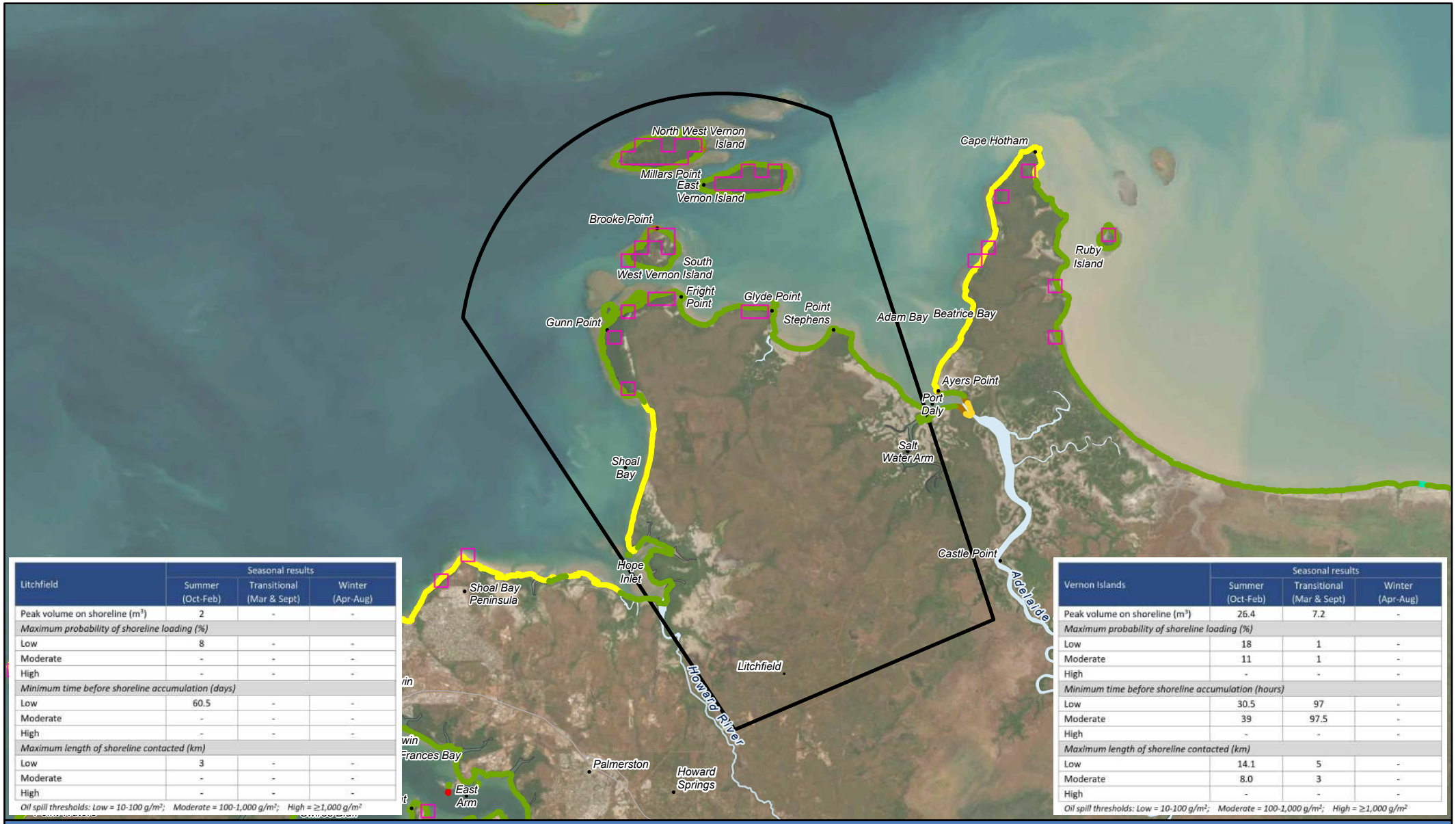
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Rocky shore*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Soft bedrock*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:405,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 60 of 64	REV E

0 5 10 15 20 km



Litchfield	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	2	-	-
Maximum probability of shoreline loading (%)			
Low	8	-	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	60.5	-	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	3	-	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

Vernon Islands	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m³)	26.4	7.2	-
Maximum probability of shoreline loading (%)			
Low	18	1	-
Moderate	11	1	-
High	-	-	-
Minimum time before shoreline accumulation (hours)			
Low	30.5	97	-
Moderate	39	97.5	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	14.1	5	-
Moderate	8.0	3	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - ADELAIDE RIVER TO SHOAL BAY COASTAL RESERVE (NT CELL 9)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

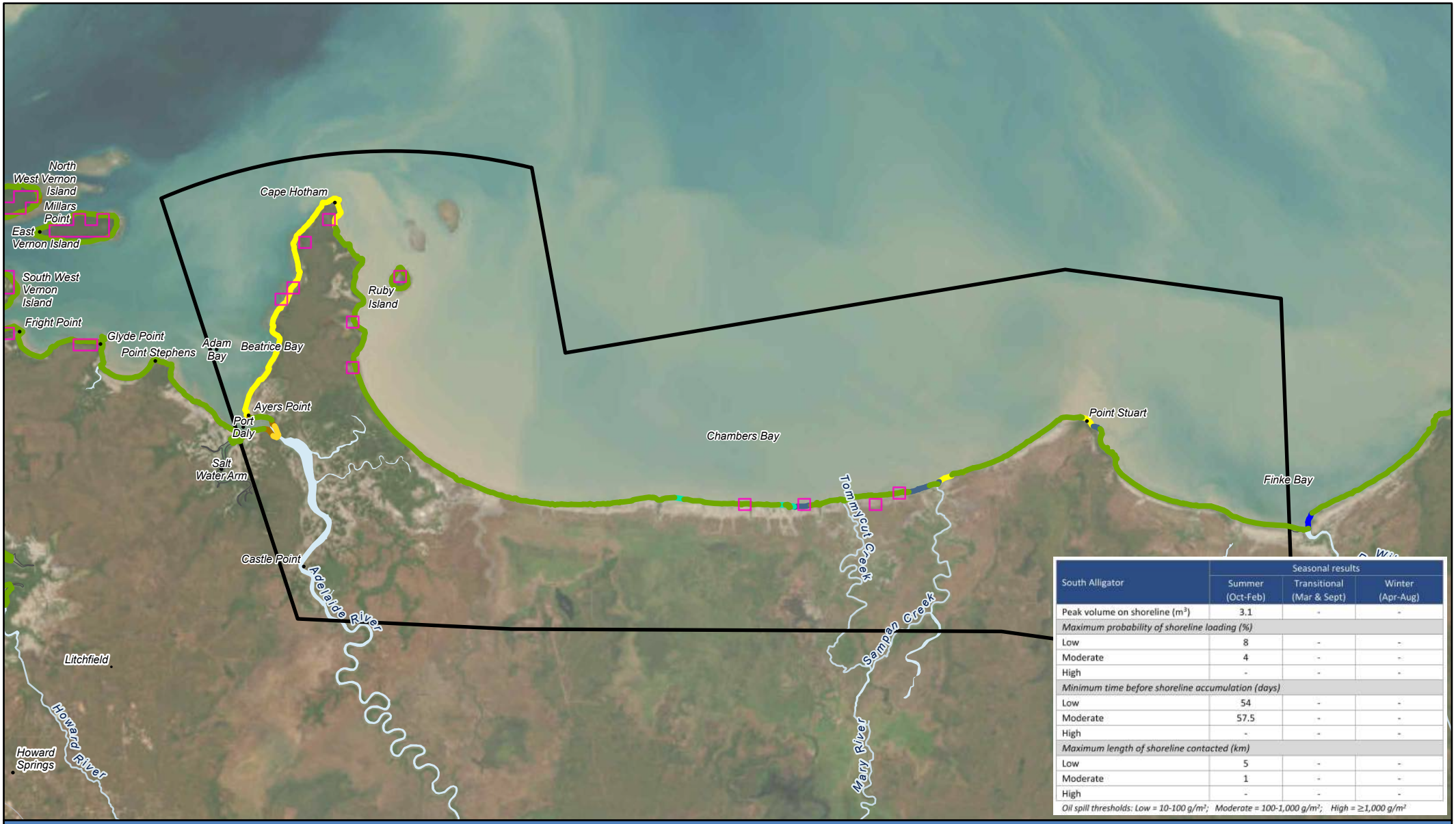
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Muddy sediments \ alluvium \ sediment flats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*

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SCALE: 1:405,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 61 of 64	REV: E

0 5 10 15 20 km



South Alligator	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	3.1	-	-
Maximum probability of shoreline loading (%)			
Low	8	-	-
Moderate	4	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	54	-	-
Moderate	57.5	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	5	-	-
Moderate	1	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - SOUTH ALLIGATOR (NT CELL 10)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

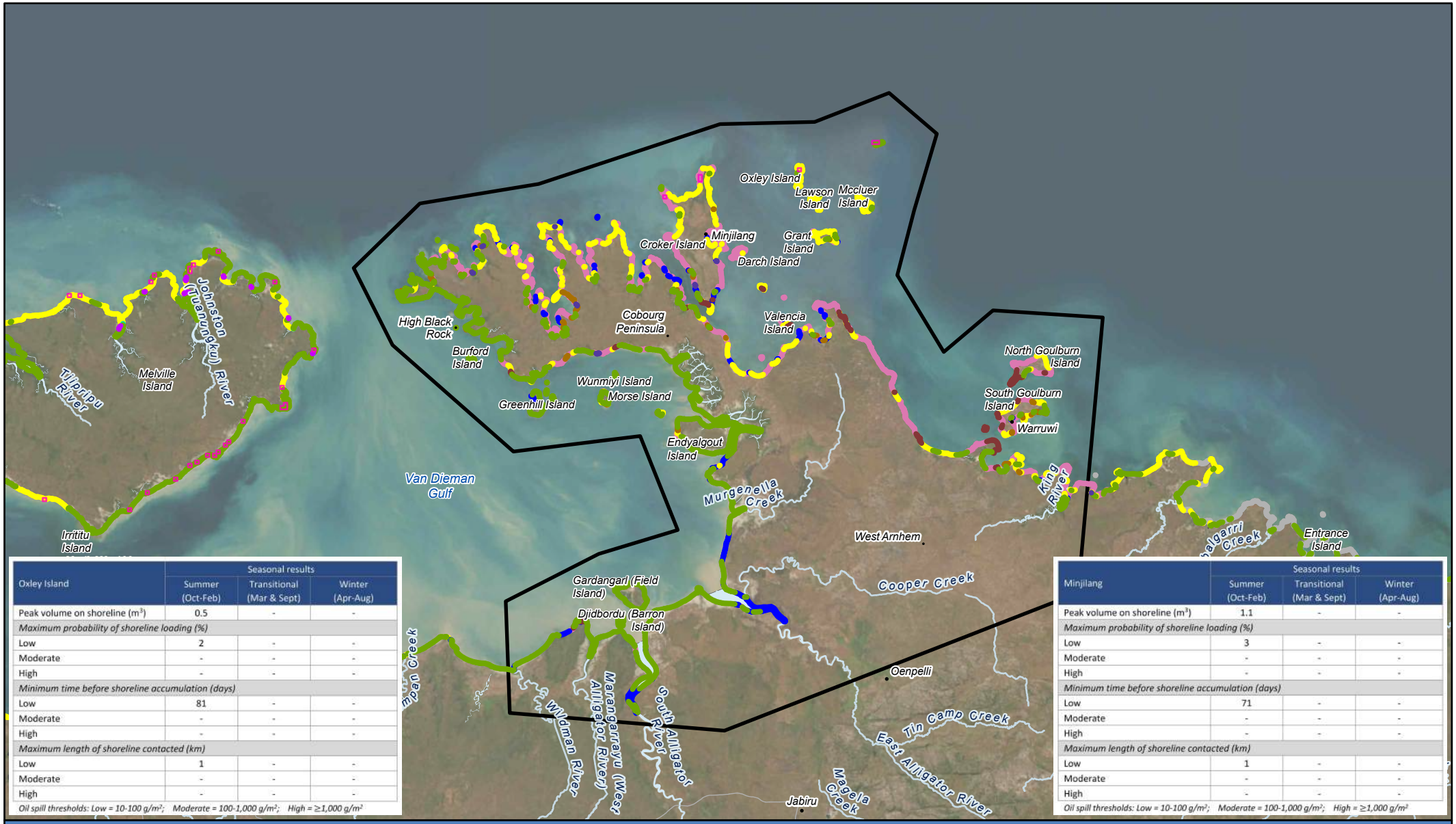
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Marshy sediment flats \ Marshy saline sediment flats*
- *Mixed sandy shore \ Mixed sandy sediments on bedrock*
- *Muddy sediments \ alluvium \ sediment flats*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Soft bedrock*

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SCALE: 1:455,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 62 of 64	REV: E

0 5 10 15 20 km



Oxley Island	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	0.5	-	-
Maximum probability of shoreline loading (%)			
Low	2	-	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	81	-	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	-	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

Minjilang	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	1.1	-	-
Maximum probability of shoreline loading (%)			
Low	3	-	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	71	-	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	1	-	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - WEST ARNHEM (NT CELL 11)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

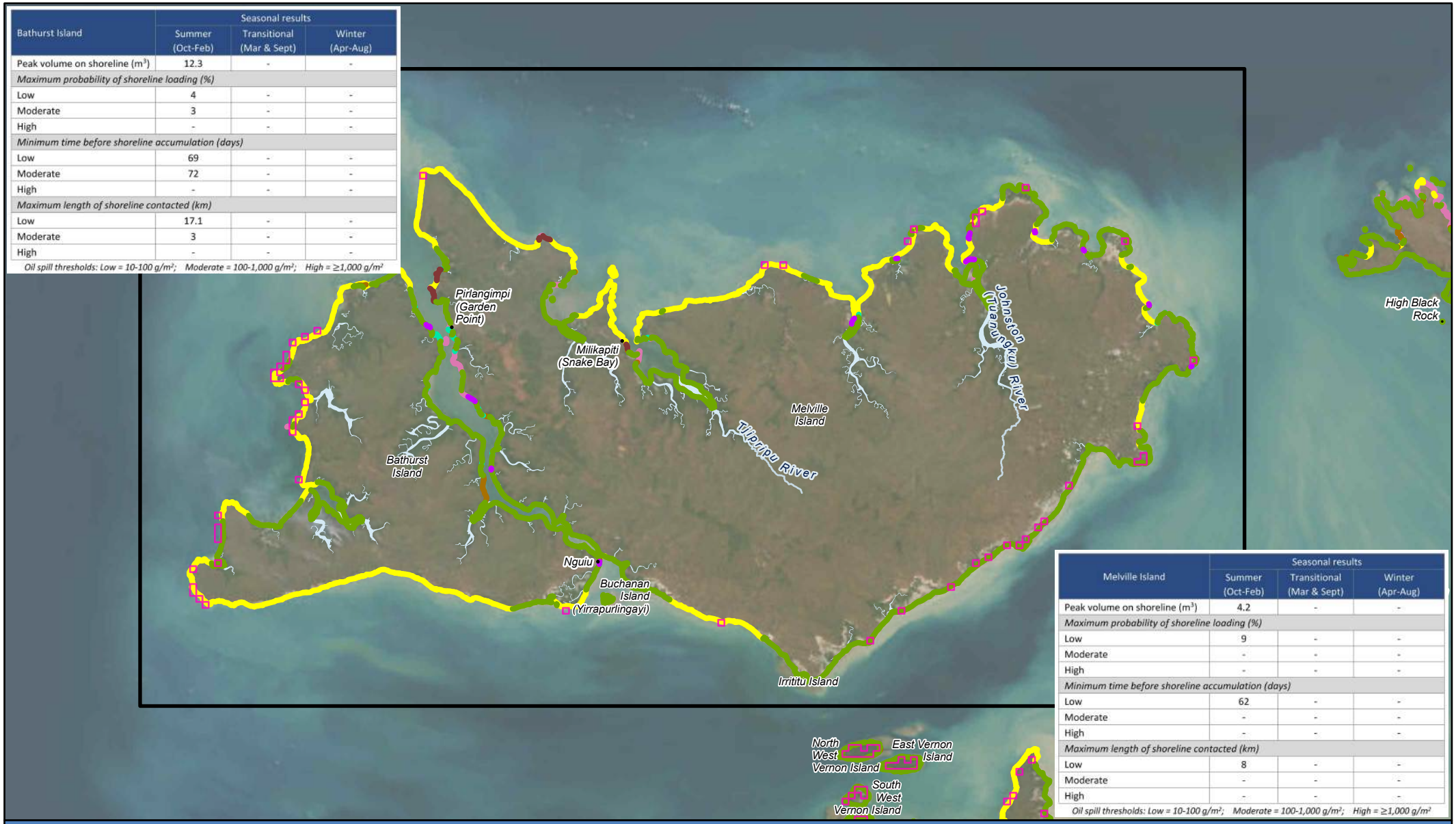
- *Alluvial sediment \ plain*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Muddy sediments \ alluvium \ sediment flats*
- *Saltpans \ Saline mudflats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Sediment plain \ sediment deposits*
- *Soft bedrock*

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PROJECT: **Beehive EOG**		
DATE: 13/12/2022	STATUS: DRAFT	PRODUCED: MVC Services
SCALE: 1:1,525,000 at A4	DATUM: GDA2020	APPROVED: Aventus
FILE: BH_0006_E Drilling - Shoreline Series	SHEET: 63 of 64	REV: E

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 km



Bathurst Island	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	12.3	-	-
Maximum probability of shoreline loading (%)			
Low	4	-	-
Moderate	3	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	69	-	-
Moderate	72	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	17.1	-	-
Moderate	3	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

Melville Island	Seasonal results		
	Summer (Oct-Feb)	Transitional (Mar & Sept)	Winter (Apr-Aug)
Peak volume on shoreline (m^3)	4.2	-	-
Maximum probability of shoreline loading (%)			
Low	9	-	-
Moderate	-	-	-
High	-	-	-
Minimum time before shoreline accumulation (days)			
Low	62	-	-
Moderate	-	-	-
High	-	-	-
Maximum length of shoreline contacted (km)			
Low	8	-	-
Moderate	-	-	-
High	-	-	-

Oil spill thresholds: Low = 10-100 g/m²; Moderate = 100-1,000 g/m²; High = ≥1,000 g/m²

SHORELINE RECEPTORS - BATHURST AND MELVILLE ISLANDS (NT CELL 12)

LEGEND

- NT Cell
- Shoreline oil accumulation (10-1,000 g/m²)

Shoreline

- *Colluvium*
- *Tidal flats (sand, mud, sediment) \ Mangroves*
- *Hard bedrock \ Cliff (>5m) \ Hard rocky shore*
- *Marshy sediment flats \ Marshy saline sediment flats*
- *Muddy sediments \ alluvium \ sediment flats*
- *Sandy beach \ alluvium \ shore \ dune \ foredune*
- *Soft bedrock*

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PROJECT	Beehive EOG	
DATE 13/12/2022	STATUS DRAFT	PRODUCED MVC Services
SCALE 1:870,000 at A4	DATUM GDA2020	APPROVED Aventus
FILE BH_0006_E Drilling - Shoreline Series	SHEET 64 of 64	REV E

0 5 10 15 20 25 30 35 40 45 km