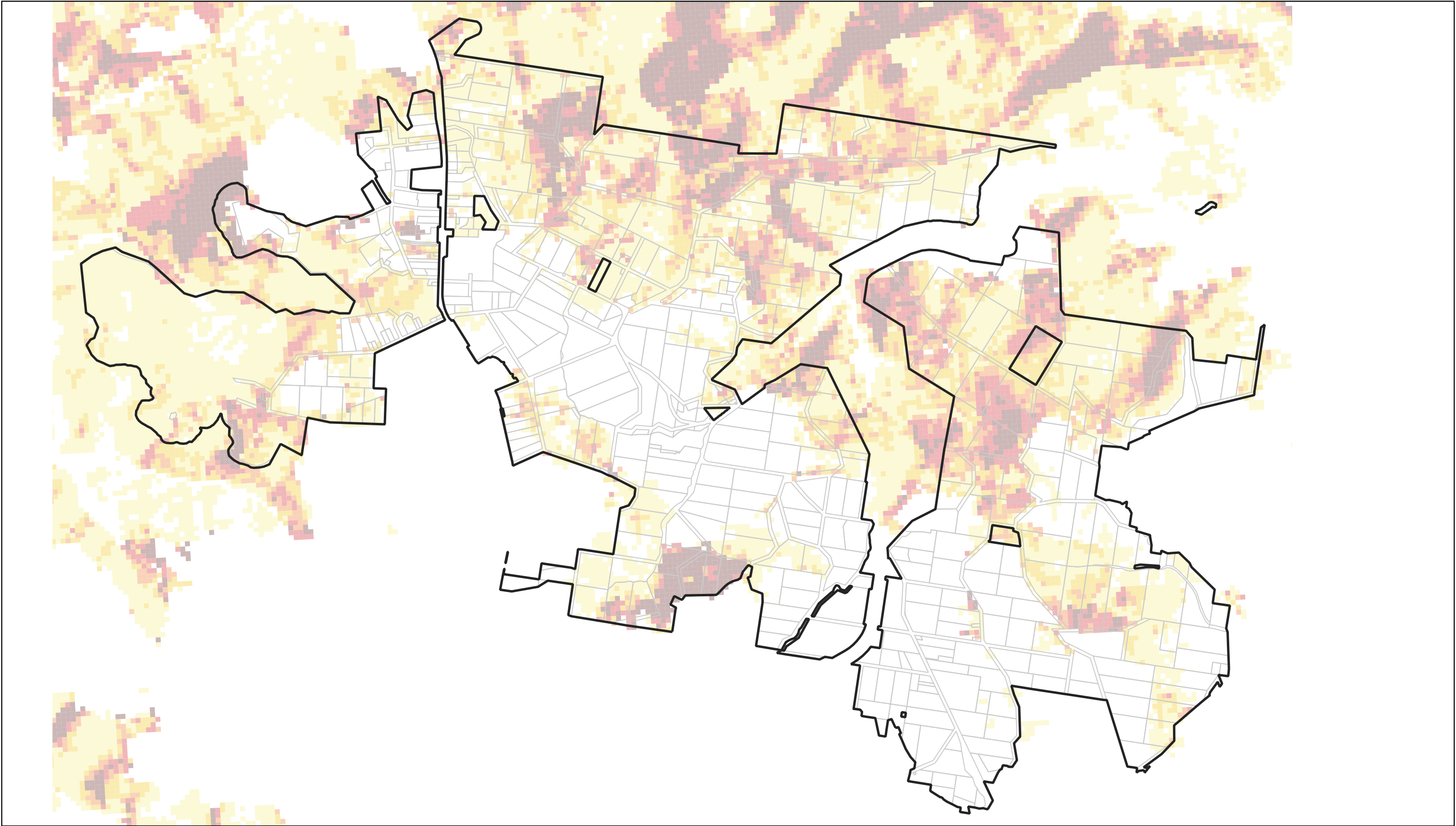


Appendix C Scenario-based fireline intensity mapping (Scenario 3 – zoning-based fuel reduction)



Legend

Deferred Lands*Subject Area

FFDI 62 (kW/m2)

4,000 - 20,000

20,000 - 30,000

30,000 - 40,000

40,000 - 60,000

>60,000

Cadastre

ORIGINAL SIZE A3

07501,500 m

Scale 1:22 - Lengths are in Kilometers



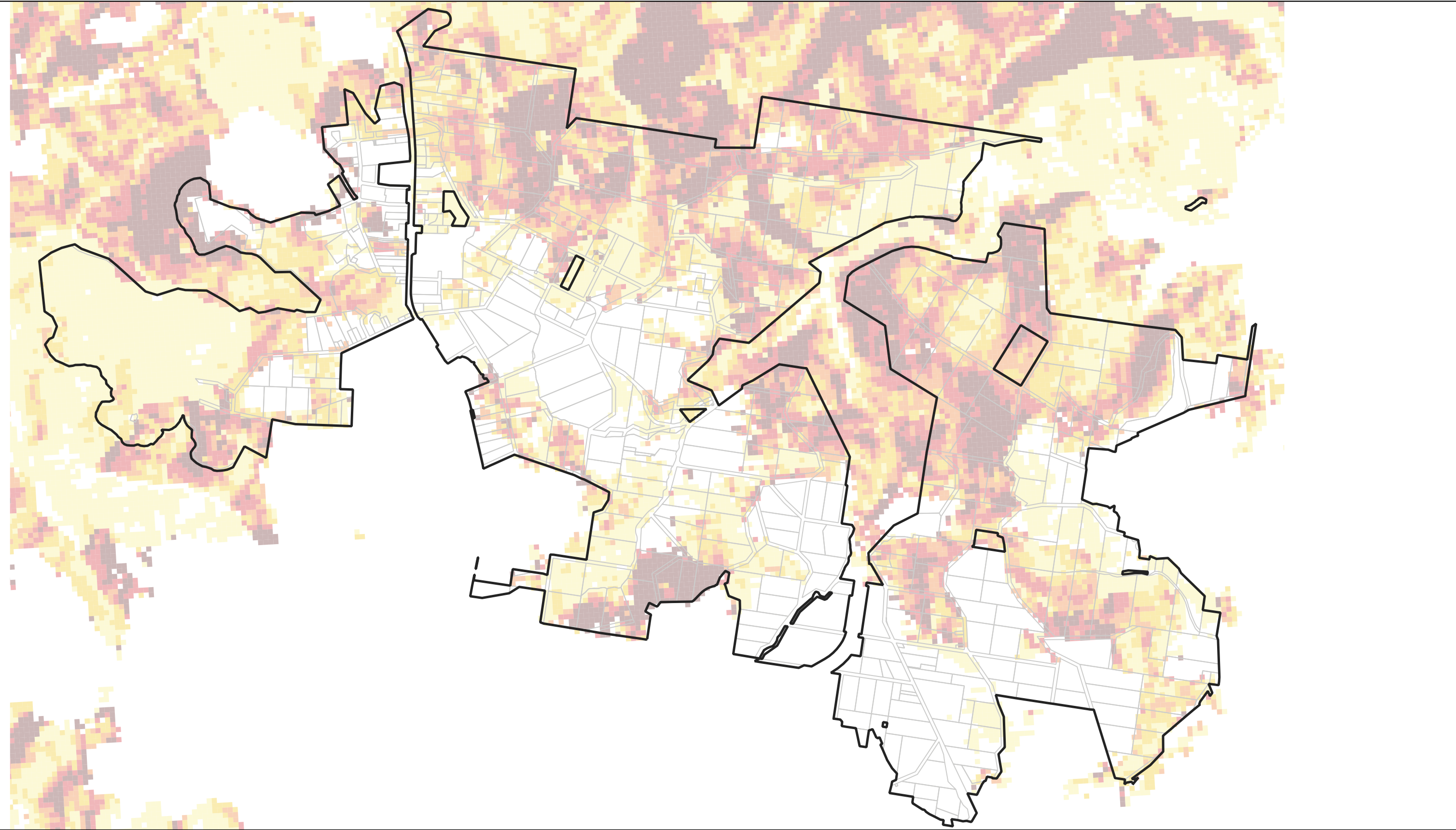
Rev	Description	Drawn	Checked	Date
A	FFDI 62	FR		11/12/2020

Forest Fire Danger Index 62 with Reduction	
PROJECT: NBC Deferred Lands Bush Fire Risk	
LOCATION: Northern Beaches Council	
CLIENT: Northern Beaches Council	
Local Authority: Northern Beaches Council	Drawn: FR



Scale: 1:22 @ A3

Drawing no: FFDI 62.1.3



Legend

Deferred Lands Subject Area

FFDI 100 (kW/m2)

4,000 - 20,000

20,000 - 30,000

30,000 - 40,000

40,000 - 60,000

>60,000

Cadastre

ORIGINAL SIZE A3

0 750 1,500 m

Scale 1:21.5 - Lengths are in Kilometers



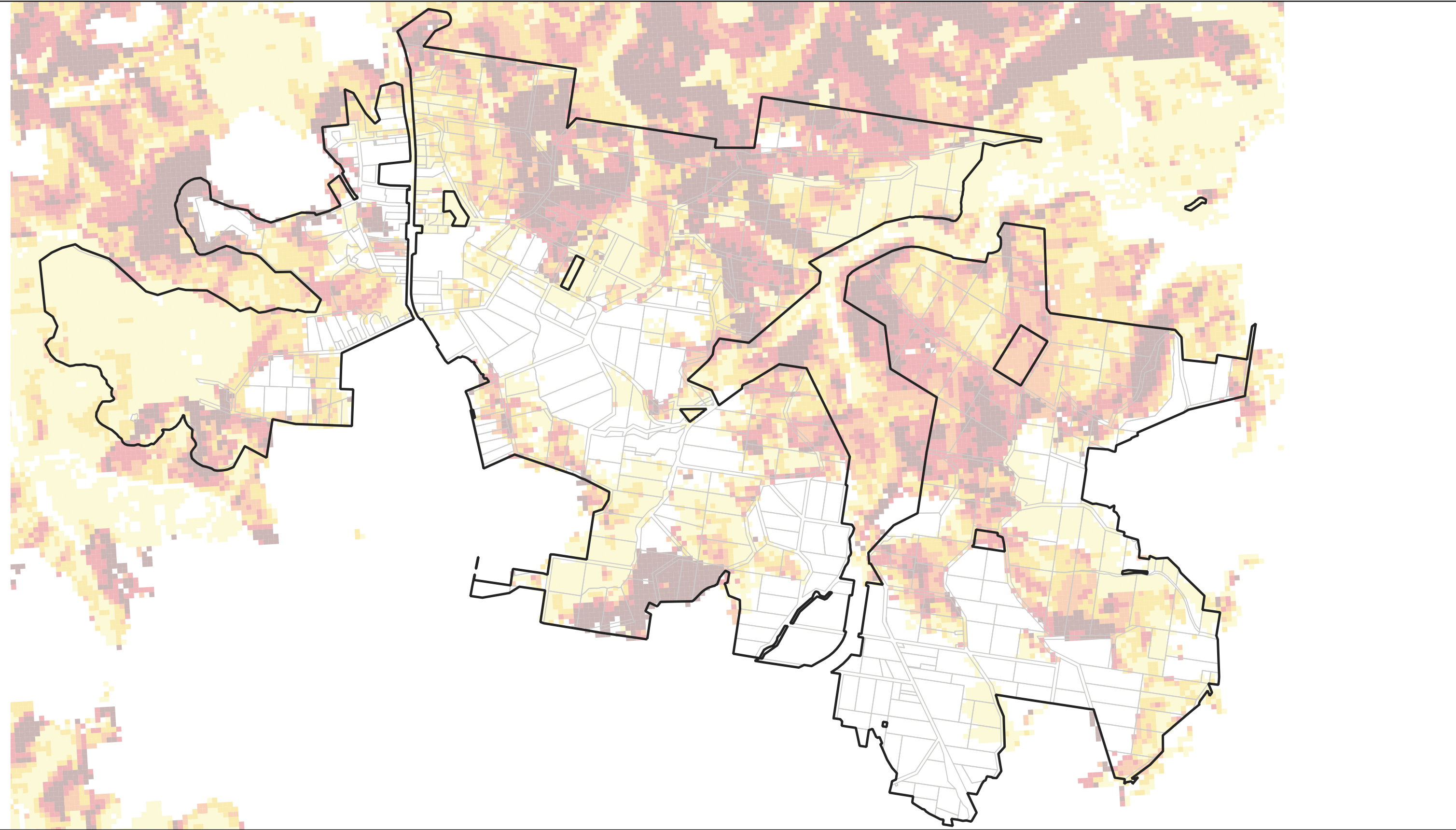
Rev	Description	Drawn	Checked	Date
A	FFDI 100 - with reduced fuel	FR		11/12/2020

Forest Fire Danger Index 100 - with fuel reduction	
PROJECT: NBC Deferred Lands Bush Fire Risk	
LOCATION: Northern Beaches Council	
CLIENT: Northern Beaches Council	
Local Authority: Northern Beaches Council	Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 100.1.2.2



Legend

Deferred Lands Subject Area

FFDI 134 (kW/m2)

4,000 - 20,000

20,000 - 30,000

30,000 - 40,000

40,000 - 60,000

>60,000

Cadastre

ORIGINAL SIZE A3

0 750 1,500 m
Scale 1:21.5 - Lengths are in Kilometers



Rev	Description	Drawn	Checked	Date
A	FFDI 134 - with reduced fuel	FR		14/12/2020

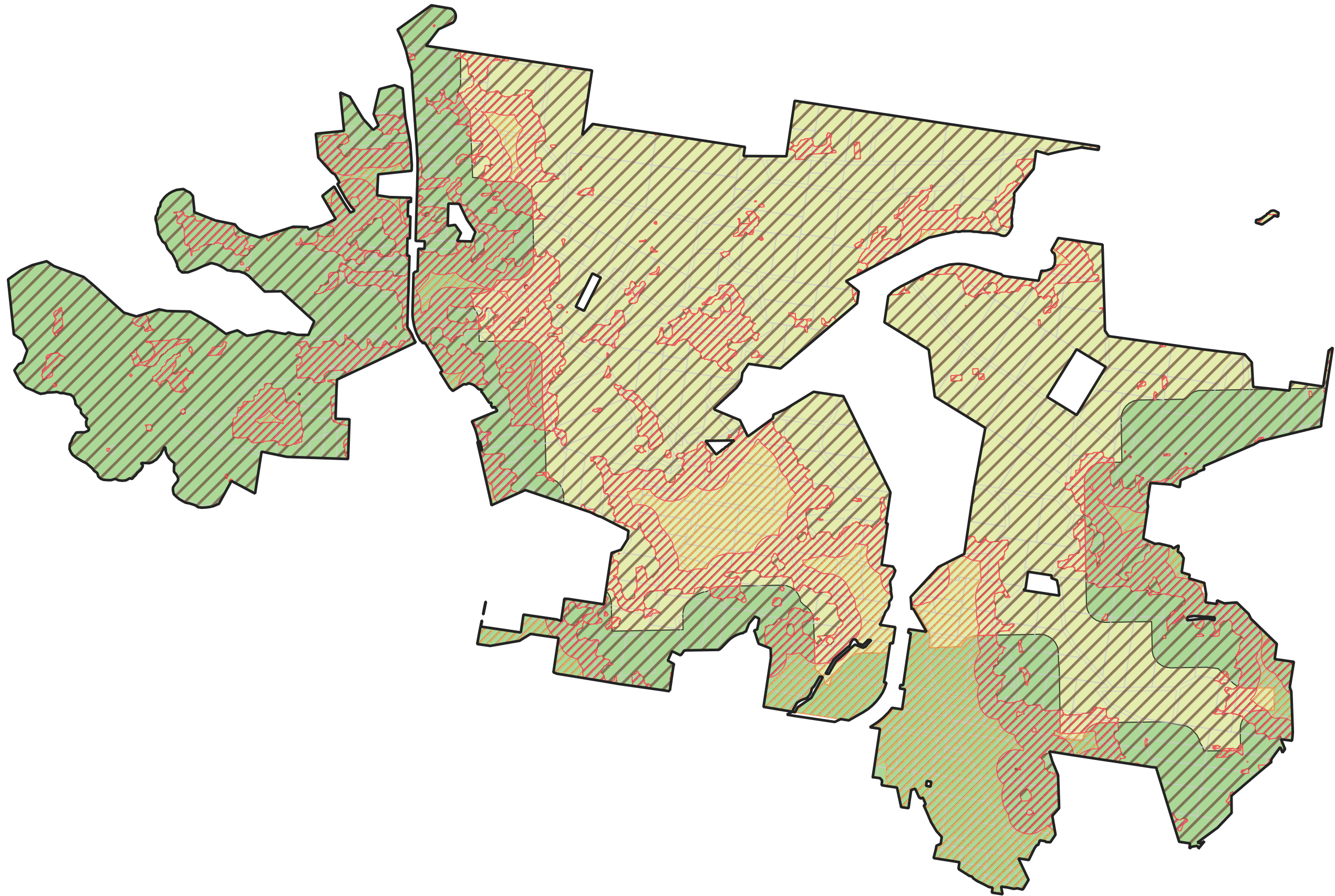
Forest Fire Danger Index 134 - with fuel reduction	
PROJECT: NBC Deferred Lands Bush Fire Risk	
LOCATION: Northern Beaches Council	
CLIENT: Northern Beaches Council	
Local Authority: Northern Beaches Council	Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 134.1.2.1

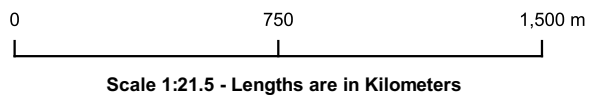
Appendix D Scenario-based risk exposure mapping



Legend

- Deferred Lands Subject Area
- Future Metropolitan Rural Area
- FFDI 62 Fire Line Intensity Area
- Metropolitan Rural Area
- 100m Buffer
- Cadastre
- 700m Buffer

ORIGINAL SIZE A3



Rev	Description	Drawn	Checked	Date
A	FFDI 62 - no reduced fuel	FR		23/08/2020

Forest Fire Danger Index 62 - no fuel reduction

PROJECT: NBC Deferred Lands Bush Fire Risk

LOCATION: Northern Beaches Council

CLIENT: Northern Beaches Council

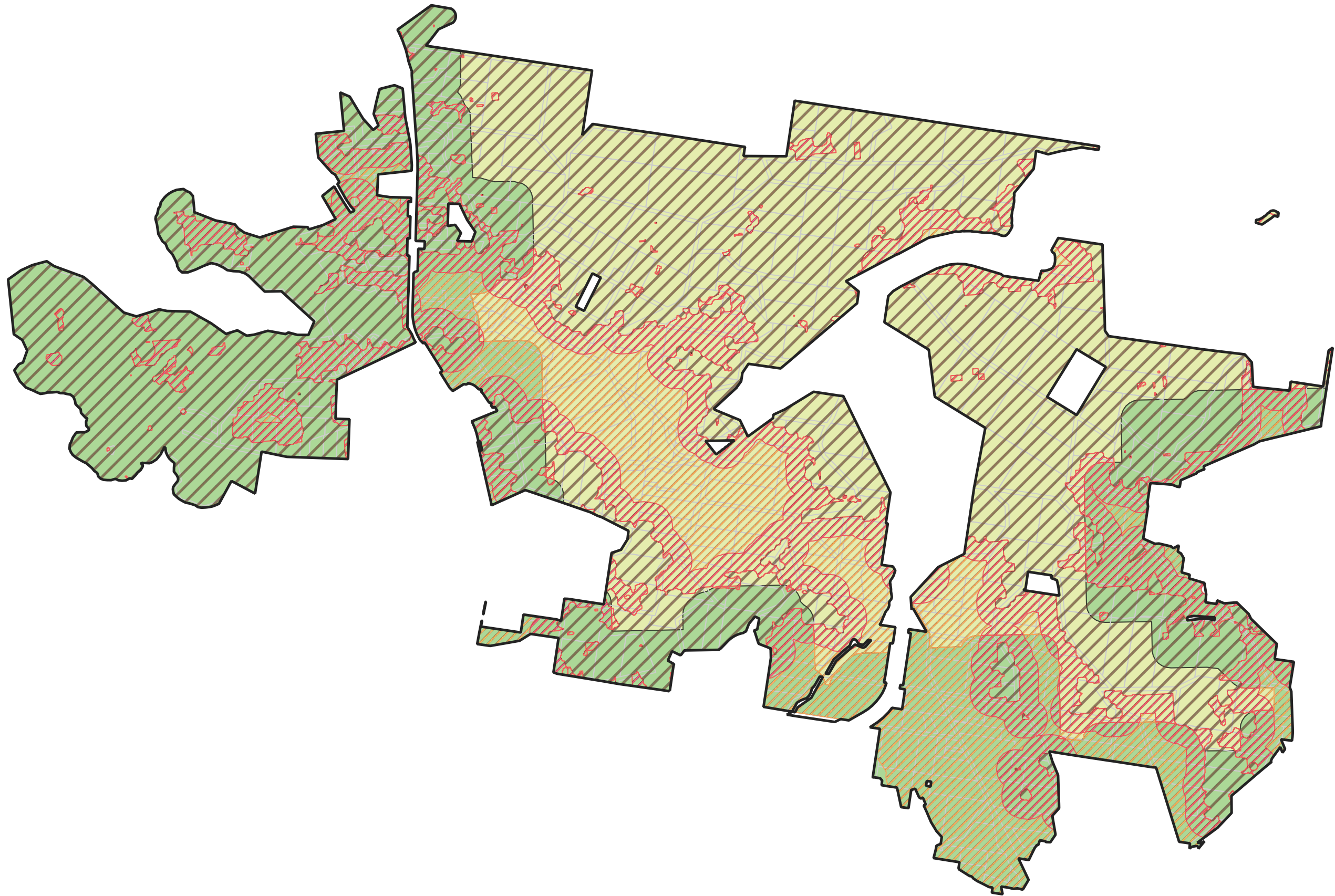
Local Authority: Northern Beaches Council

Drawn: FR





Scale: 1:21.5 @ A3


Drawing no: FFDI 62.5.1





Legend


Deferred Lands Subject Area


Metropolitan Rural Area

FFDI 62 Fire Line Intensity Area

Future Metropolitan Rural Area

100m Buffer

Cadastre

700m Buffer

ORIGINAL SIZE A3



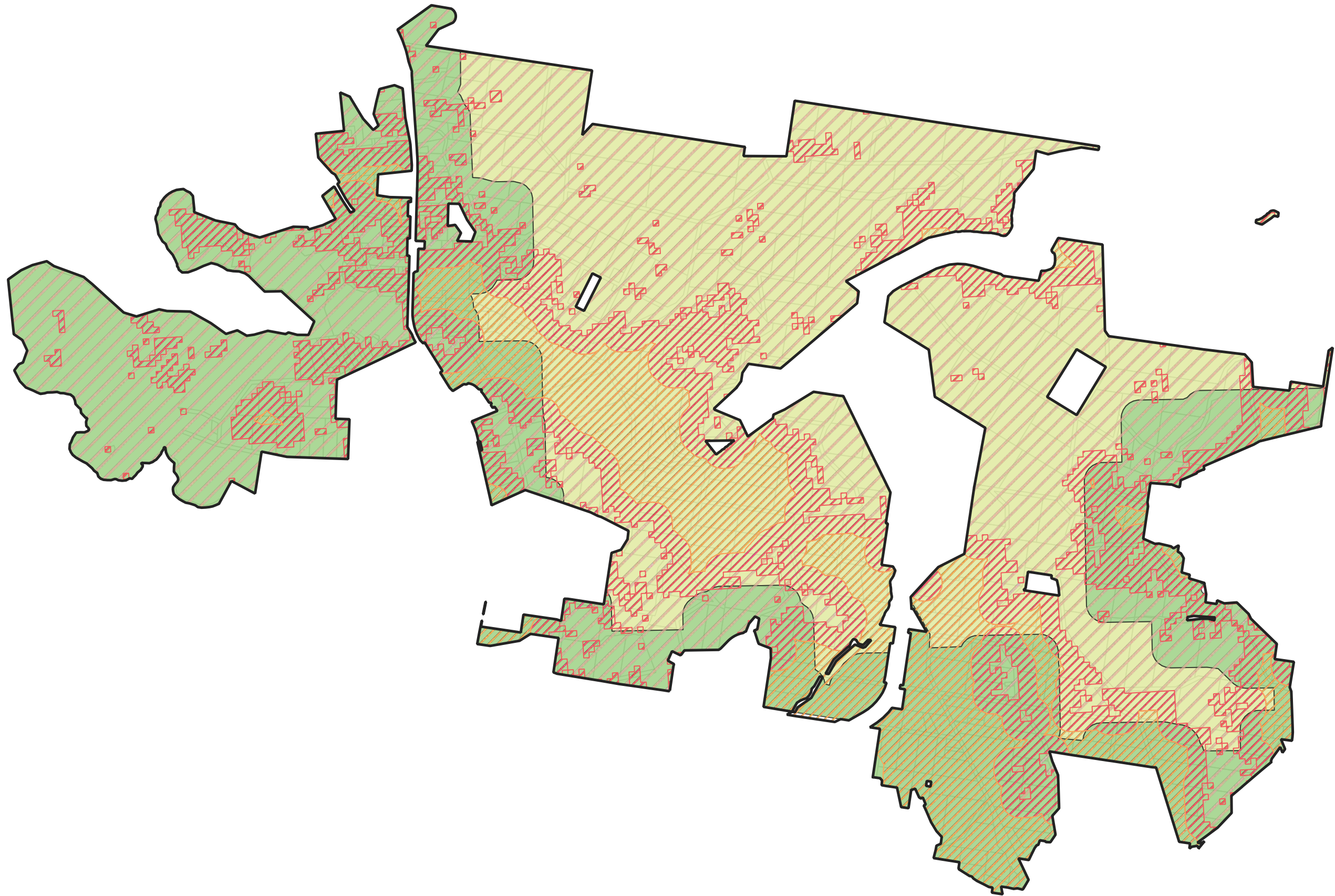
Rev	Description	Drawn	Checked	Date
A	FFDI 62 - with reduced fuel	FR		23/08/2020

Forest Fire Danger Index 62 - with fuel reduction	
PROJECT: NBC Deferred Lands Bush Fire Risk	
LOCATION: Northern Beaches Council	
CLIENT: Northern Beaches Council	
Local Authority: Northern Beaches Council	Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 62.5.2



Deferred Lands Subject Area

FFDI 62 (kW/m2) Fire Line Intensity Area

100m Buffer

700m Buffer

Future Metropolitan Rural Area

Metropolitan Rural Area

Cadastre

ORIGINAL SIZE A3

0 750 1,500 m
Scale 1:21.5 - Lengths are in Kilometers



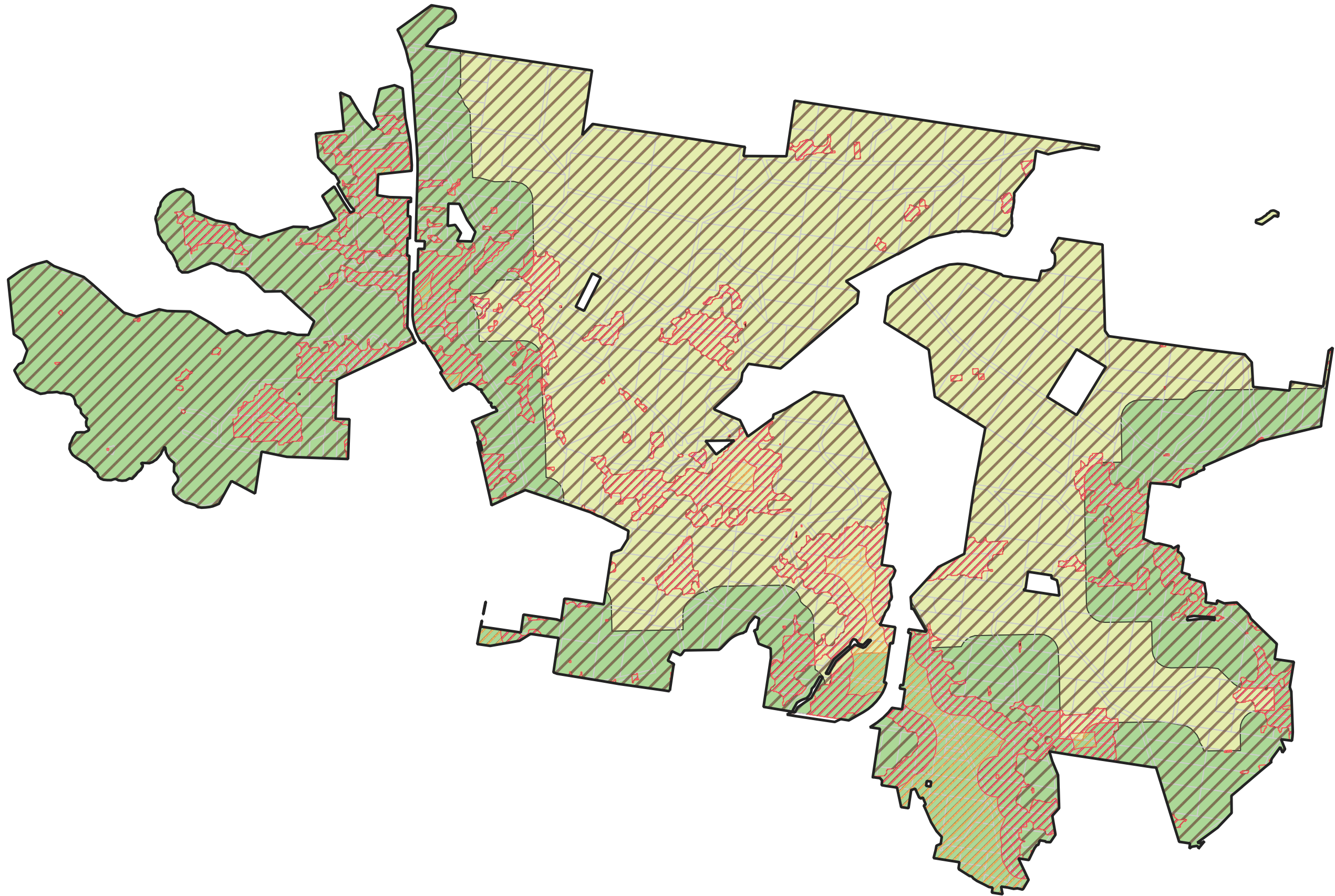
Rev	Description	Drawn	Checked	Date
A	FFDI 62 - with reduced fuel	FR		14/12/2020

Forest Fire Danger Index 62 - with fuel reduction	
PROJECT: NBC Deferred Lands Bush Fire Risk	
LOCATION: Northern Beaches Council	
CLIENT: Northern Beaches Council	
Local Authority: Northern Beaches Council	Drawn: FR

Meridian Urban

TENRIVERS

Scale: 1:21.5 @ A3
Drawing no: FFDI 62.5.2.1



Legend

	Deferred Lands Subject Area		Future Metropolitan Rural Area
	100m Buffer		FFDI 100 Fire Line Intensity Area
	700m Buffer		Cadastre
	Metropolitan Rural Area		

ORIGINAL SIZE A3

0 750 1,500 m

Scale 1:21.5 - Lengths are in Kilometers



Rev	Description	Drawn	Checked	Date
A	FFDI 100 - no reduced fuel	FR		23/08/2020

Forest Fire Danger Index 100 - no fuel reduction

PROJECT: NBC Deferred Lands Bush Fire Risk

LOCATION: Northern Beaches Council

CLIENT: Northern Beaches Council

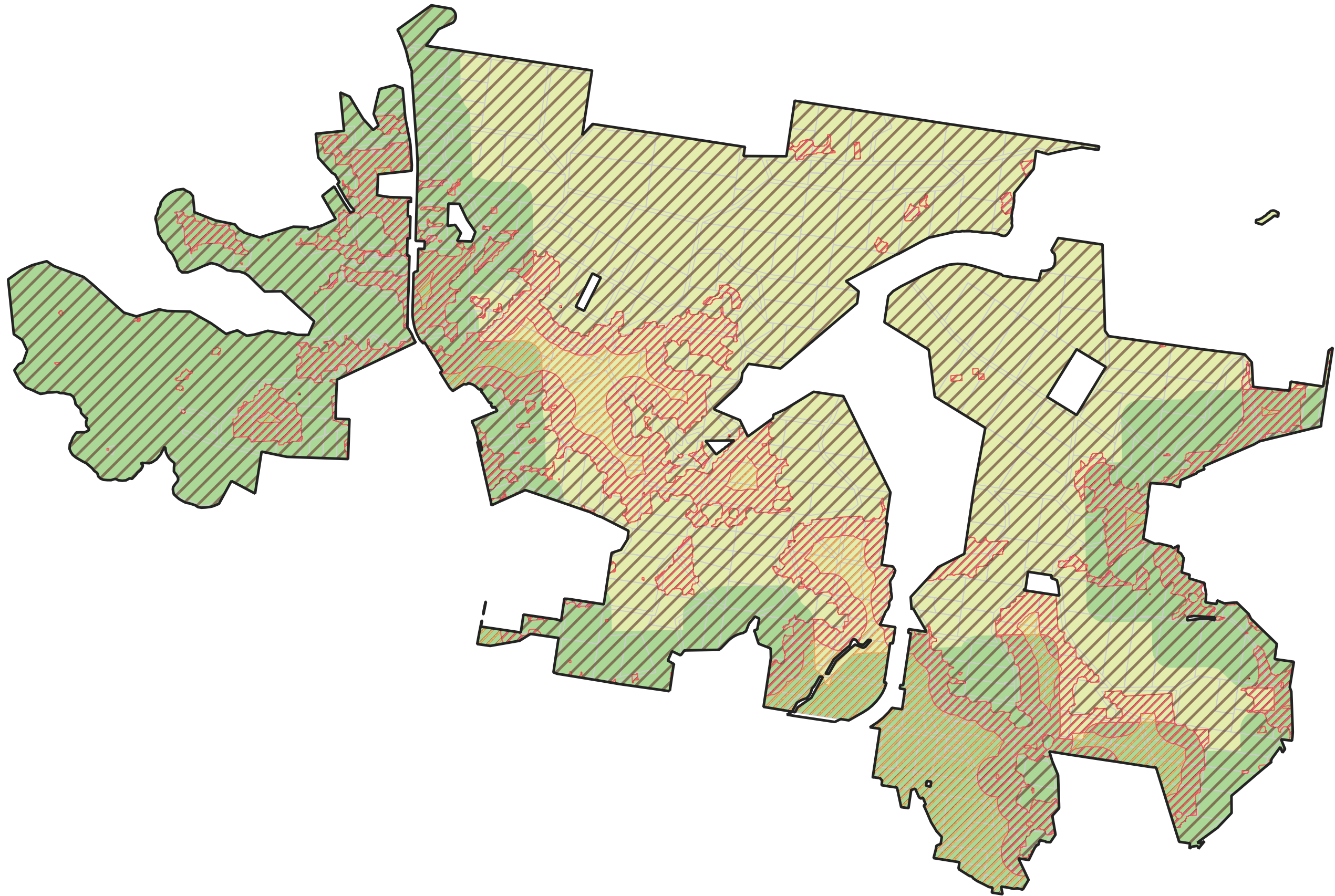
Local Authority: Northern Beaches Council

Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 100.5.1



Legend	
	Deferred Lands Subject Area
	Future Metropolitan Rural Area
	100m Buffer
	700m Buffer
	Metropolitan Rural Area
	FFDI 100 Fire Line Intensity Area
	Cadastre

ORIGINAL SIZE A3

0 750 1,500 m

Scale 1:21.5 - Lengths are in Kilometers



Rev	Description	Drawn	Checked	Date
A	FFDI 100 - with reduced fuel	FR		23/08/2020

Forest Fire Danger Index 100 - with fuel reduction

PROJECT: NBC Deferred Lands Bush Fire Risk

LOCATION: Northern Beaches Council

CLIENT: Northern Beaches Council

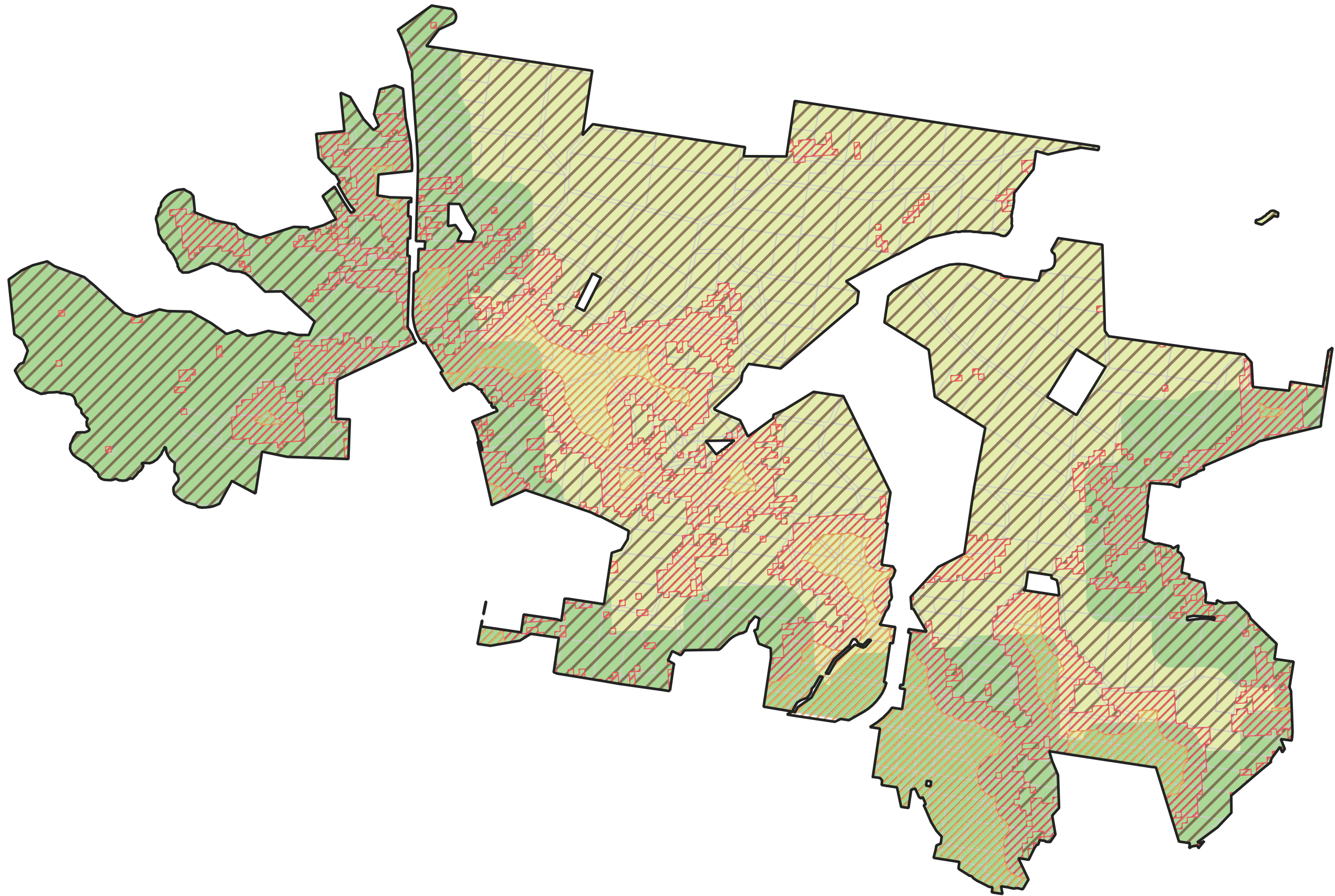
Local Authority: Northern Beaches Council

Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 100.5.2



Legend	
	Deferred Lands Subject Area
	Future Metropolitan Rural Area
	FFDI 100 (kW/m2) Fire Line Intensity Area
	Metropolitan Rural Area
	100m Buffer
	Cadastre
	700m Buffer

ORIGINAL SIZE A3

0 750 1,500 m

Scale 1:21.5 - Lengths are in Kilometers



Rev	Description	Drawn	Checked	Date
A	FFDI 100 - with reduced fuel	FR		14/12/2020

Forest Fire Danger Index 100 - with fuel reduction

PROJECT: NBC Deferred Lands Bush Fire Risk

LOCATION: Northern Beaches Council

CLIENT: Northern Beaches Council

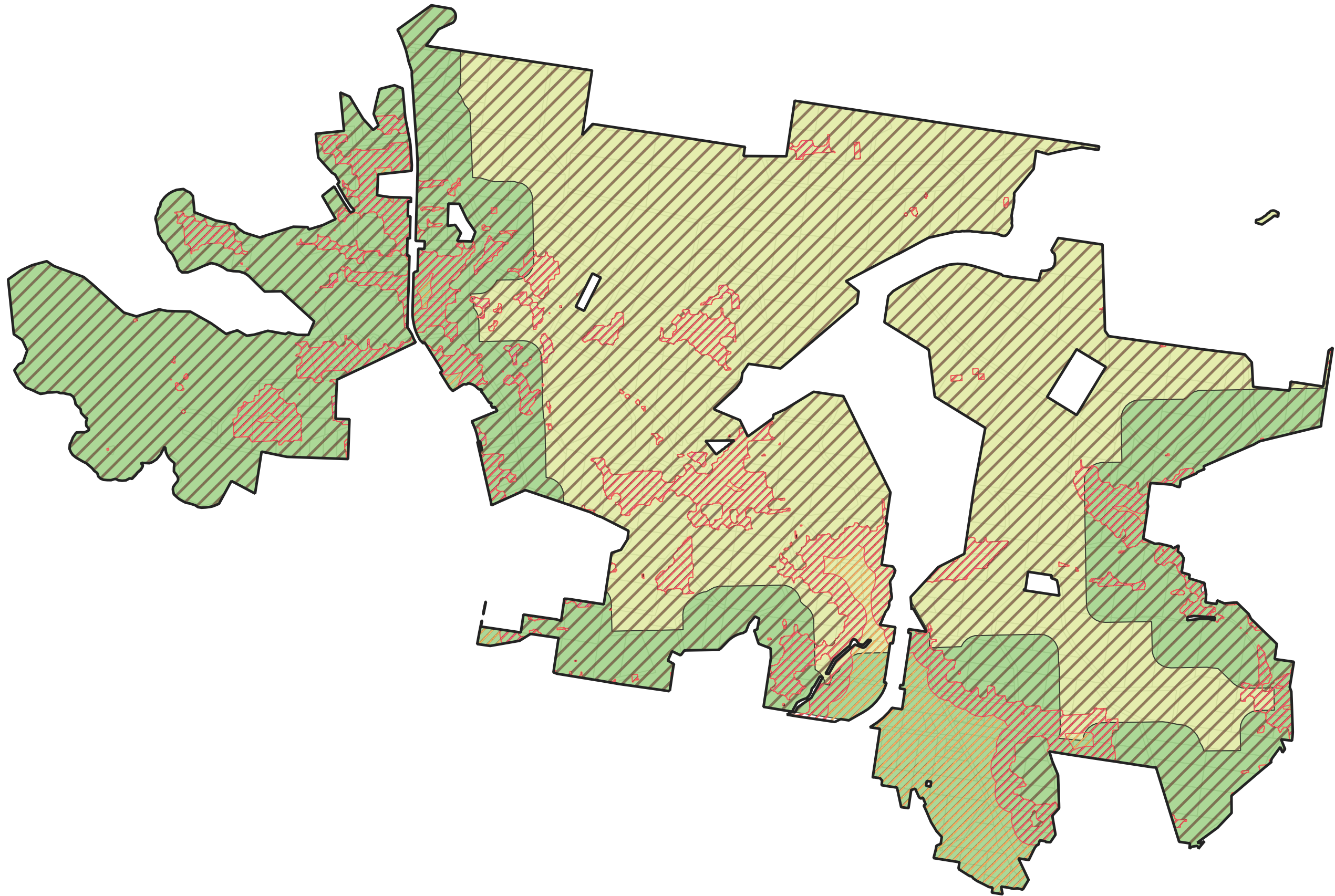
Local Authority: Northern Beaches Council

Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 100.5.2.1



Deferred Lands Subject Area

FFDI 134 Fire Line Intensity Area

100m Buffer

700m Buffer

Metropolitan Rural Area

Future Metropolitan Rural Area

Cadastre

07501,500 m

Scale 1:21.5 - Lengths are in Kilometers

Rev	Description	Drawn	Checked	Date
A	FFDI 134 - no reduced fuel	FR		23/08/2020

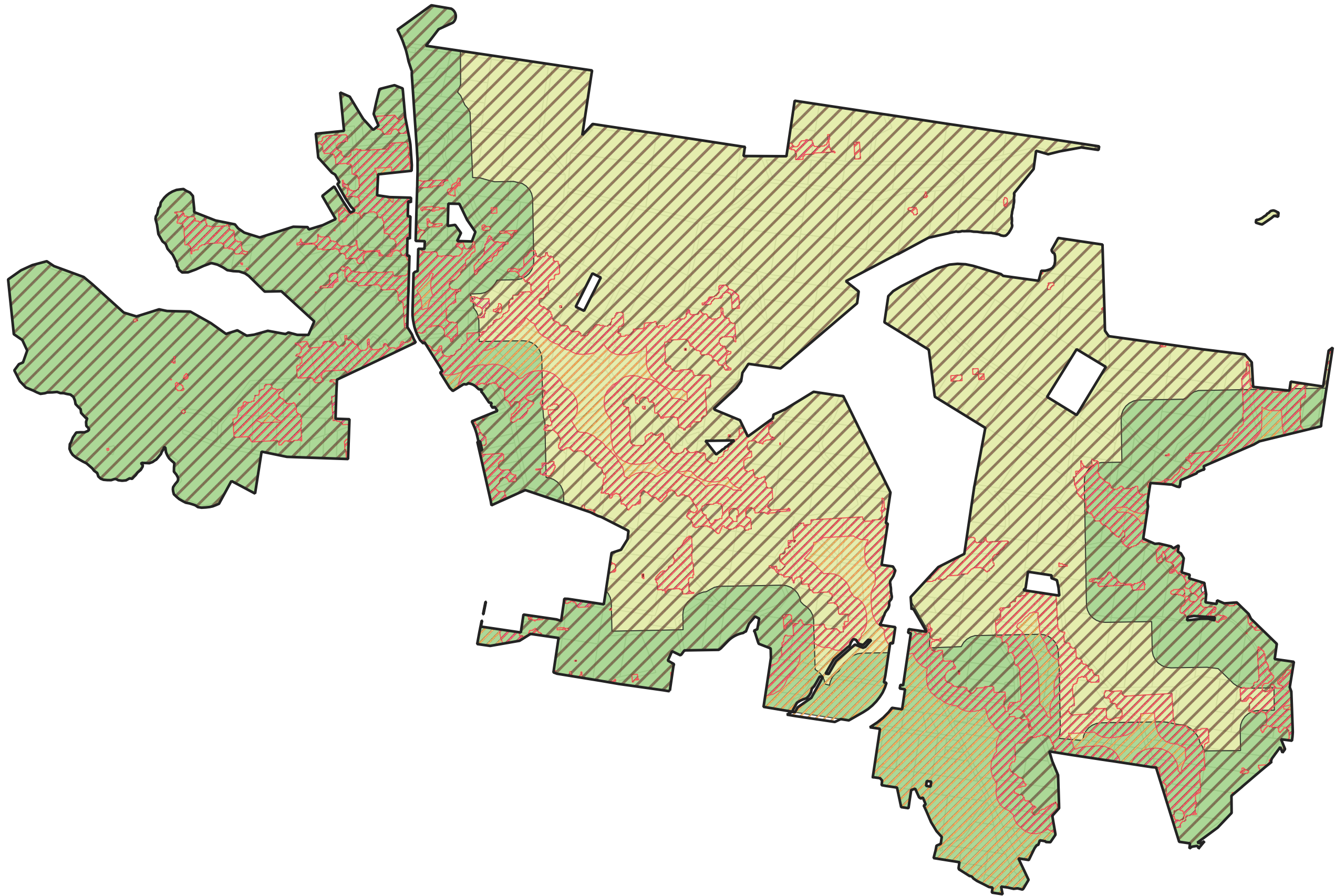
Forest Fire Danger Index 134 - no fuel reduction	
PROJECT:	NBC Deferred Lands Bush Fire Risk
LOCATION:	Northern Beaches Council
CLIENT:	Northern Beaches Council
Local Authority: Northern Beaches Council	Drawn: FR

Meridian Urban

TENRIVERS

Scale: 1:21.5 @ A3

Drawing no: FFDI 134.5.1



Legend

	Deferred Lands Subject Area		Metropolitan Rural Area
	FFDI 134 Fire Line Intensity Area		Future Metropolitan Rural Area
	100m Buffer		Cadastre
	700m Buffer		

ORIGINAL SIZE A3

0 750 1,500 m

Scale 1:21.5 - Lengths are in Kilometers



Rev	Description	Drawn	Checked	Date
A	FFDI 134 - with reduced fuel	FR		23/08/2020

Forest Fire Danger Index 134 - with fuel reduction

PROJECT: NBC Deferred Lands Bush Fire Risk

LOCATION: Northern Beaches Council

CLIENT: Northern Beaches Council

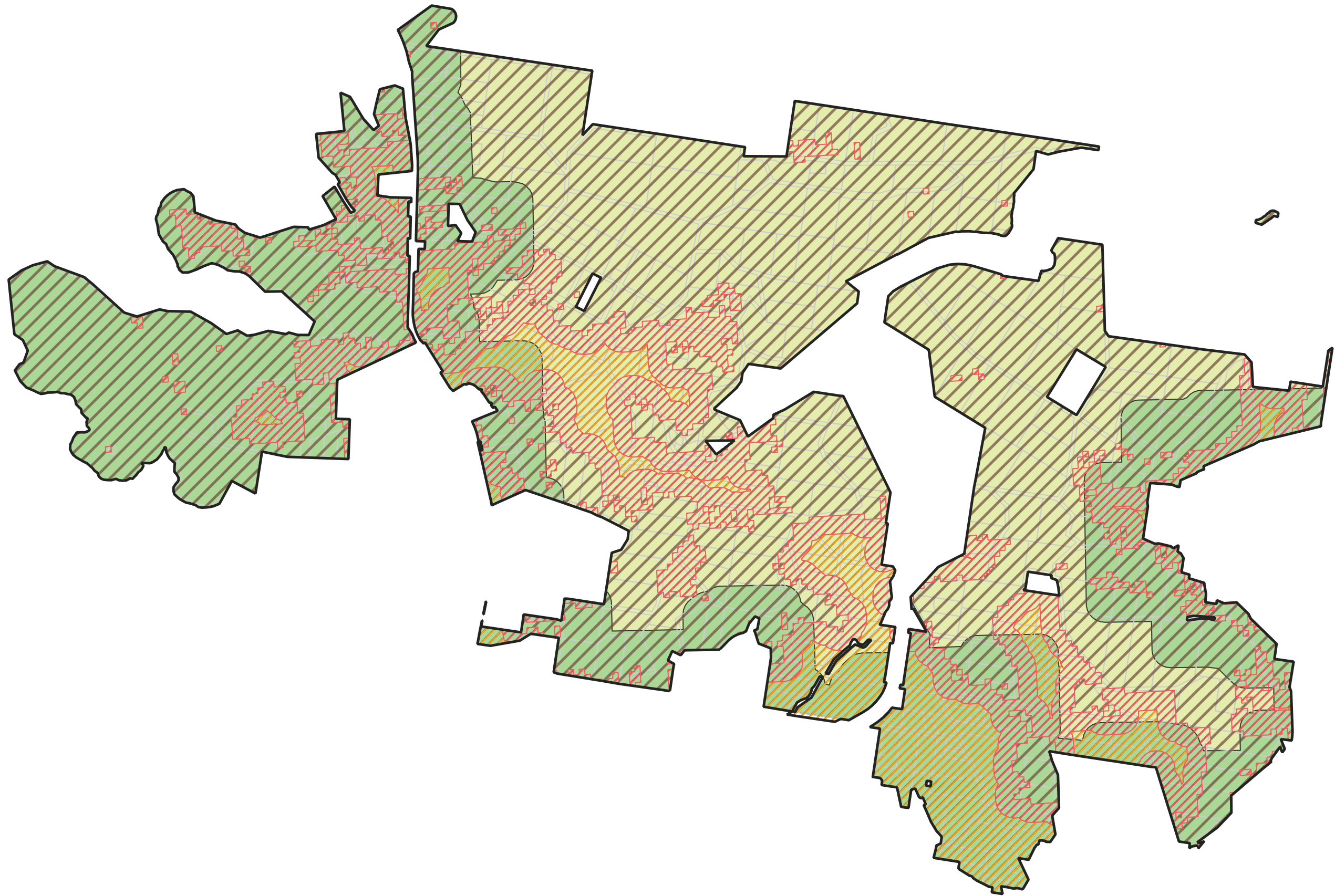
Local Authority: Northern Beaches Council

Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 134.5.2



Legend	
	Deferred Lands Subject Area
	Future Metropolitan Rural Area
	100m Buffer
	Metropolitan Rural Area G
	700m Buffer
	Cadastre
	FFDI 134 (kW/m2) Fire Line Intensity Area

ORIGINAL SIZE A3

0 750 1,500 m

Scale 1:21.5 - Lengths are in Kilometers



Rev	Description	Drawn	Checked	Date
A	FFDI 134 - with reduced fuel	FR		14/12/2020

Forest Fire Danger Index 134 - with fuel reduction

PROJECT: NBC Deferred Lands Bush Fire Risk

LOCATION: Northern Beaches Council

CLIENT: Northern Beaches Council

Local Authority: Northern Beaches Council

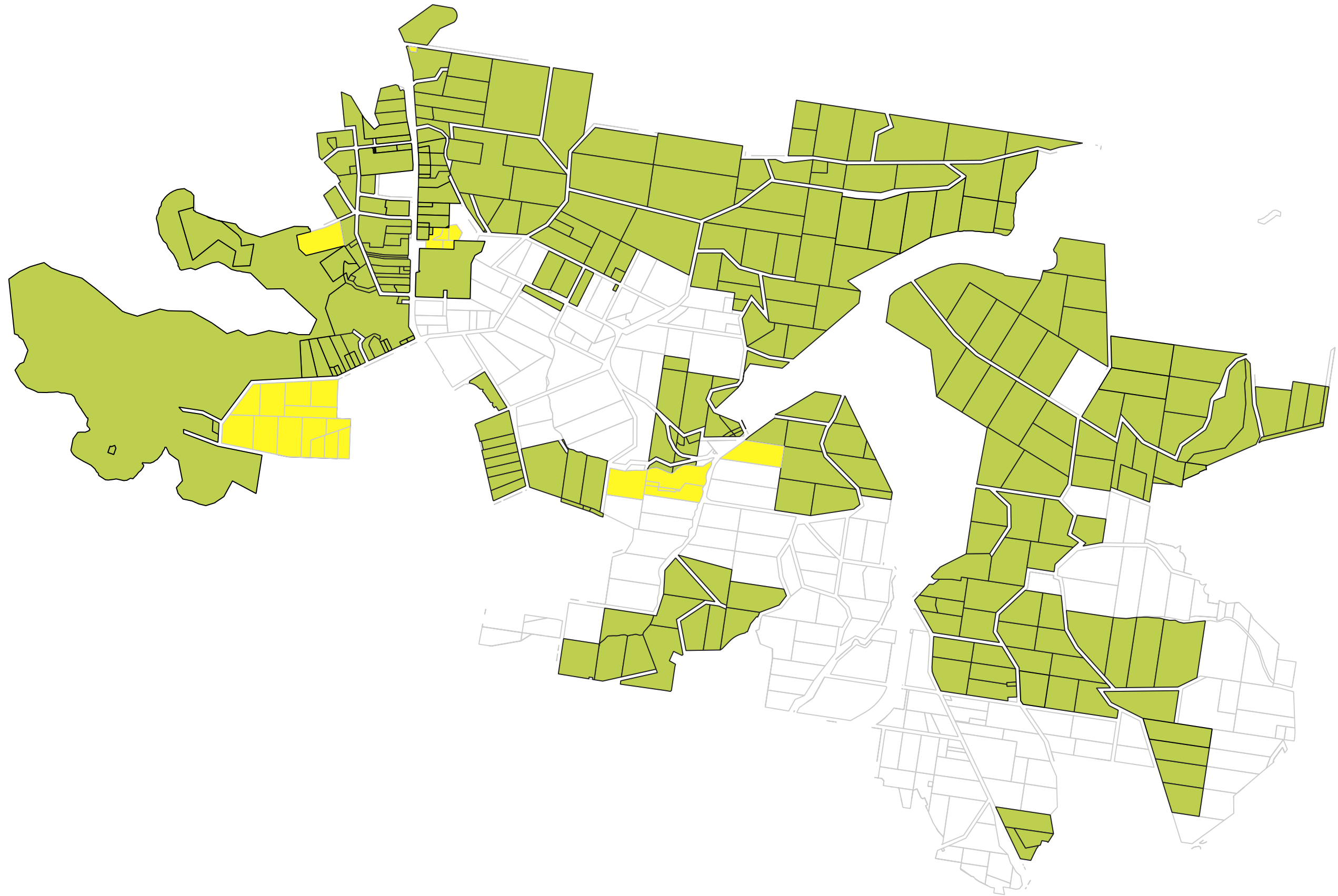
Drawn: FR



Scale: 1:21.5 @ A3

Drawing no: FFDI 134.5.2.1

Appendix E Option 3 zoning rationale map



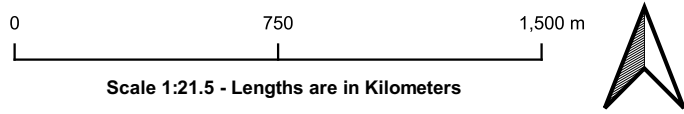
Deferred Lands

Existing SP2 Infrastructure

Limited Land Use Area

Cadastre

ORIGINAL SIZE A3



Rev	Description	Drawn	Checked	Date
A	FFDI 100 - Option 3	FR		24/11/2020

Option 3 - Zoning Rationale	
PROJECT: NBC Deferred Lands Bush Fire Risk	
LOCATION: Northern Beaches Council	
CLIENT: Northern Beaches Council	
Local Authority: Northern Beaches Council	Drawn: FR

Scale: 1:21.5 @ A3

Drawing no: C.1

Appendix F Risk exposure analysis datasets

Total Deferred Lands

1. Spatial / geographic extent of fire (percentage of total Deferred Lands area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	64.9%	80.9%	79.5%	81.5%
Potential flame contact exposure	15.8%	11.3%	10.3%	9.9%
Radiant heat exposure	3.6%	2.0%	1.9%	1.8%
Primary ember attack exposure	4.0%	1.9%	2.0%	1.6%
Total affected land	88.3%	96.1%	93.7%	94.8%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	59.0%	71.7%	70.6%	72.5%
Potential flame contact exposure	14.9%	13.2%	12.7%	12.2%
Radiant heat exposure	3.9%	3.0%	3.0%	3.0%
Primary ember attack exposure	4.6%	3.4%	3.5%	3.5%
Total affected land	82.4%	91.3%	89.8%	91.2%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	55.9%	68.2%	67.5%	68.6%
Potential flame contact exposure	17.3%	15.7%	14.9%	14.5%
Radiant heat exposure	3.9%	3.2%	3.2%	3.1%
Primary ember attack exposure	4.7%	3.6%	3.7%	3.8%
Total affected land	81.8%	90.7%	89.3%	90.1%

2. Intensity of fire extent (percentage of total Deferred Lands area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	29.4%	17.0%	20.3%	17.5%
Fireline intensity 4,000-20,000 kW/m	37.5%	32.3%	26.7%	30.6%
Fireline intensity 20,000-30,000 kW/m	10.4%	16.3%	14.3%	16.1%
Fireline intensity 30,000-40,000 kW/m	6.4%	11.1%	9.7%	10.9%

Fireline intensity 40,000-60,000 kW/m	6.5%	11.2%	12.1%	13.0%
Fireline intensity >60,000 kW/m	4.2%	10.0%	16.7%	11.0%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	41.0%	23.3%	26.6%	24.4%
Fireline intensity 4,000-20,000 kW/m	30.8%	27.2%	22.9%	26.7%
Fireline intensity 20,000-30,000 kW/m	10.8%	13.8%	12.5%	13.7%
Fireline intensity 30,000-40,000 kW/m	6.2%	9.8%	8.4%	9.9%
Fireline intensity 40,000-60,000 kW/m	6.2%	10.8%	10.9%	12.0%
Fireline intensity >60,000 kW/m	5.0%	10.0%	15.8%	10.2%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	44.1%	31.8%	32.5%	31.4%
Fireline intensity 4,000-20,000 kW/m	28.2%	23.2%	19.4%	22.5%
Fireline intensity 20,000-30,000 kW/m	10.0%	12.1%	11.1%	12.9%
Fireline intensity 30,000-40,000 kW/m	6.2%	9.9%	8.2%	9.7%
Fireline intensity 40,000-60,000 kW/m	6.2%	11.5%	11.4%	11.7%
Fireline intensity >60,000 kW/m	5.3%	11.5%	17.3%	11.9%

Metropolitan Rural Area

1. Spatial / geographic extent of fire (percentage of MRA area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	71.9%	88.3%	87.0%	89.7%
Potential flame contact exposure	14.0%	8.1%	8.1%	7.2%
Radiant heat exposure	3.1%	1.2%	1.5%	1.1%
Primary ember attack exposure	3.3%	1.1%	1.6%	1.0%
Total affected land	92.3%	98.7%	98.2%	99.0%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
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Hazard area	65.4%	78.5%	76.7%	79.5%
Potential flame contact exposure	12.8%	11.3%	11.1%	10.5%
Radiant heat exposure	3.4%	2.6%	2.9%	2.6%
Primary ember attack exposure	4.0%	3.0%	3.5%	3.1%
Total affected land	85.6%	95.4%	94.2%	95.7%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	62.8%	75.8%	74.8%	76.8%
Potential flame contact exposure	14.7%	13.0%	12.8%	12.1%
Radiant heat exposure	3.4%	2.8%	2.9%	2.8%
Primary ember attack exposure	4.1%	3.3%	3.5%	3.4%
Total affected land	85.0%	94.9%	94.1%	95.0%

2. Intensity of fire extent (percentage of MRA area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	27.9%	11.5%	12.9%	10.2%
Fireline intensity 4,000-20,000 kW/m	36.6%	28.6%	23.2%	26.6%
Fireline intensity 20,000-30,000 kW/m	12.5%	17.3%	14.7%	17.1%
Fireline intensity 30,000-40,000 kW/m	8.7%	13.6%	10.7%	13.7%
Fireline intensity 40,000-60,000 kW/m	9.3%	15.5%	15.2%	17.7%
Fireline intensity >60,000 kW/m	4.9%	13.3%	23.1%	14.6%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	34.7%	18.5%	20.2%	17.4%
Fireline intensity 4,000-20,000 kW/m	28.4%	23.1%	18.3%	22.0%
Fireline intensity 20,000-30,000 kW/m	13.4%	14.9%	13.3%	14.7%
Fireline intensity 30,000-40,000 kW/m	8.4%	12.3%	9.5%	12.7%
Fireline intensity 40,000-60,000 kW/m	9.0%	14.9%	13.9%	16.7%

Fireline intensity >60,000 kW/m	6.1%	13.4%	21.8%	13.4%
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SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	37.2%	24.2%	25.5%	23.2%
Fireline intensity 4,000-20,000 kW/m	26.6%	20.3%	16.1%	19.1%
Fireline intensity 20,000-30,000 kW/m	12.2%	12.5%	11.4%	13.6%
Fireline intensity 30,000-40,000 kW/m	8.5%	12.2%	9.3%	12.1%
Fireline intensity 40,000-60,000 kW/m	8.9%	15.4%	14.3%	16.1%
Fireline intensity >60,000 kW/m	6.5%	15.5%	23.7%	15.8%

Future Metropolitan Rural Area (MRA) Investigation Area

1. Spatial / geographic extent of fire (percentage of future MRA investigation area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	56.7%	72.1%	70.7%	71.7%
Potential flame contact exposure	18.0%	15.1%	13.0%	13.1%
Radiant heat exposure	4.3%	2.8%	2.3%	2.6%
Primary ember attack exposure	4.8%	2.9%	2.4%	2.4%
Total affected land	83.8%	92.9%	88.4%	89.8%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	51.5%	63.7%	63.5%	64.2%
Potential flame contact exposure	17.4%	15.6%	14.6%	14.3%
Radiant heat exposure	4.5%	3.4%	3.2%	3.4%
Primary ember attack exposure	5.3%	3.9%	3.6%	4.0%
Total affected land	78.7%	86.6%	84.9%	85.9%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	47.9%	59.2%	58.8%	59.0%
Potential flame contact exposure	20.3%	18.9%	17.5%	17.5%

Radiant heat exposure	4.5%	3.6%	3.5%	3.6%
Primary ember attack exposure	5.4%	4.0%	3.5%	4.4%
Total affected land	78.1%	85.7%	83.3%	84.4%

2. Intensity of fire extent (percentage of future MRA investigation area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	31.2%	23.5%	29.1%	26.1%
Fireline intensity 4,000-20,000 kW/m	38.6%	36.8%	31.0%	35.2%
Fireline intensity 20,000-30,000 kW/m	8.1%	15.0%	13.8%	14.8%
Fireline intensity 30,000-40,000 kW/m	3.6%	8.1%	8.5%	7.7%
Fireline intensity 40,000-60,000 kW/m	3.2%	6.2%	8.3%	7.3%
Fireline intensity >60,000 kW/m	3.2%	6.1%	9.1%	6.7%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	48.5%	29.0%	34.1%	32.7%
Fireline intensity 4,000-20,000 kW/m	33.6%	32.1%	28.5%	32.2%
Fireline intensity 20,000-30,000 kW/m	7.8%	12.6%	11.7%	12.6%
Fireline intensity 30,000-40,000 kW/m	3.6%	6.9%	7.1%	6.5%
Fireline intensity 40,000-60,000 kW/m	2.9%	6.1%	7.4%	6.4%
Fireline intensity >60,000 kW/m	3.6%	6.0%	8.8%	6.5%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	52.1%	40.8%	41.2%	41.0%
Fireline intensity 4,000-20,000 kW/m	30.1%	26.7%	23.3%	26.5%
Fireline intensity 20,000-30,000 kW/m	7.4%	11.7%	10.8%	12.2%
Fireline intensity 30,000-40,000 kW/m	3.5%	7.2%	7.0%	6.8%
Fireline intensity 40,000-60,000 kW/m	3.0%	6.9%	8.0%	6.3%
Fireline intensity >60,000 kW/m	3.8%	6.7%	9.7%	7.2%

Western Precinct

1. Spatial / geographic extent of fire (percentage of Western Precinct area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	75.9%	82.4%	82.7%	82.9%
Potential flame contact exposure	17.0%	13.9%	13.7%	13.2%
Radiant heat exposure	3.0%	1.9%	1.9%	2.1%
Primary ember attack exposure	2.7%	1.4%	1.4%	1.4%
Total affected land	98.6%	99.6%	99.7%	99.6%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	76.7%	82.5%	82.7%	82.9%
Potential flame contact exposure	16.5%	13.9%	13.7%	13.2%
Radiant heat exposure	2.9%	1.9%	1.9%	2.2%
Primary ember attack exposure	2.5%	1.4%	1.4%	1.4%
Total affected land	98.6%	99.7%	99.7%	99.7%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	71.9%	77.0%	76.9%	77.1%
Potential flame contact exposure	20.1%	18.0%	17.0%	17.3%
Radiant heat exposure	3.1%	2.5%	2.7%	2.6%
Primary ember attack exposure	2.8%	1.9%	2.3%	2.2%
Total affected land	97.9%	99.4%	98.9%	99.2%

2. Intensity of fire extent (percentage of Western Precinct area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	23.9%	17.4%	17.1%	17.0%
Fireline intensity 4,000-20,000 kW/m	51.3%	44.8%	39.8%	43.2%

Fireline intensity 20,000-30,000 kW/m	11.4%	15.1%	15.3%	14.8%
Fireline intensity 30,000-40,000 kW/m	5.5%	9.1%	9.4%	8.7%
Fireline intensity 40,000-60,000 kW/m	4.6%	7.7%	9.1%	9.2%
Fireline intensity >60,000 kW/m	3.1%	5.8%	9.0%	7.1%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	23.3%	17.4%	17.1%	16.9%
Fireline intensity 4,000-20,000 kW/m	51.3%	44.8%	39.8%	43.2%
Fireline intensity 20,000-30,000 kW/m	12.3%	15.1%	15.4%	14.8%
Fireline intensity 30,000-40,000 kW/m	5.7%	9.1%	9.5%	8.7%
Fireline intensity 40,000-60,000 kW/m	4.2%	7.7%	9.1%	9.1%
Fireline intensity >60,000 kW/m	3.2%	5.8%	9.0%	7.1%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	28.1%	23.1%	23.1%	22.9%
Fireline intensity 4,000-20,000 kW/m	46.8%	38.5%	33.9%	37.4%
Fireline intensity 20,000-30,000 kW/m	11.3%	14.7%	14.2%	14.8%
Fireline intensity 30,000-40,000 kW/m	5.3%	8.2%	8.6%	7.9%
Fireline intensity 40,000-60,000 kW/m	4.8%	8.1%	9.8%	8.4%
Fireline intensity >60,000 kW/m	3.7%	7.4%	10.3%	8.5%

Central Precinct

1. Spatial / geographic extent of fire (percentage of Central Precinct area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	63.3%	82.9%	81.6%	84.2%
Potential flame contact exposure	18.0%	11.3%	10.8%	10.1%
Radiant heat exposure	4.0%	1.8%	2.0%	1.6%
Primary ember attack exposure	4.4%	1.7%	2.1%	1.5%

Total affected land	89.7%	97.7%	96.5%	97.4%
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SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	59.5%	72.4%	70.5%	73.5%
Potential flame contact exposure	13.6%	12.5%	12.5%	11.8%
Radiant heat exposure	3.5%	3.0%	3.2%	3.0%
Primary ember attack exposure	4.4%	3.7%	4.1%	3.8%
Total affected land	81.0%	91.6%	90.3%	92.1%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	56.5%	69.1%	67.9%	70.0%
Potential flame contact exposure	16.0%	14.8%	14.8%	13.8%
Radiant heat exposure	3.4%	3.2%	3.3%	3.2%
Primary ember attack exposure	4.3%	3.9%	4.2%	4.1%
Total affected land	80.3%	90.9%	90.3%	91.1%

2. Intensity of fire extent (percentage of Central Precinct area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	34.7%	17.0%	18.3%	15.6%
Fireline intensity 4,000-20,000 kW/m	38.2%	34.4%	28.7%	32.6%
Fireline intensity 20,000-30,000 kW/m	8.9%	16.0%	15.5%	15.7%
Fireline intensity 30,000-40,000 kW/m	5.9%	10.4%	9.1%	9.5%
Fireline intensity 40,000-60,000 kW/m	5.6%	11.1%	11.0%	12.7%
Fireline intensity >60,000 kW/m	4.8%	11.0%	17.3%	13.7%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	40.5%	23.5%	25.4%	22.4%
Fireline intensity 4,000-20,000 kW/m	30.8%	27.1%	22.3%	25.9%

Fireline intensity 20,000-30,000 kW/m	10.3%	14.0%	13.6%	13.2%
Fireline intensity 30,000-40,000 kW/m	6.2%	9.7%	7.9%	8.8%
Fireline intensity 40,000-60,000 kW/m	5.8%	10.8%	10.0%	12.2%
Fireline intensity >60,000 kW/m	6.5%	10.9%	16.6%	13.3%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	43.5%	30.9%	32.1%	30.0%
Fireline intensity 4,000-20,000 kW/m	28.4%	23.4%	19.3%	22.4%
Fireline intensity 20,000-30,000 kW/m	9.5%	11.5%	11.6%	12.2%
Fireline intensity 30,000-40,000 kW/m	6.3%	9.8%	8.0%	8.0%
Fireline intensity 40,000-60,000 kW/m	5.8%	12.0%	10.2%	12.0%
Fireline intensity >60,000 kW/m	6.6%	12.4%	18.7%	15.2%

Eastern Precinct

1. Spatial / geographic extent of fire (percentage of Eastern Precinct area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	61.9%	77.2%	74.9%	76.7%
Potential flame contact exposure	12.0%	10.2%	8.0%	7.9%
Radiant heat exposure	3.5%	2.2%	1.7%	1.8%
Primary ember attack exposure	4.1%	2.5%	2.0%	2.0%
Total affected land	81.5%	92.1%	86.6%	88.4%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	49.7%	65.4%	74.9%	65.9%
Potential flame contact exposure	16.1%	13.9%	12.4%	12.4%
Radiant heat exposure	4.9%	3.5%	3.2%	3.3%
Primary ember attack exposure	5.9%	4.0%	3.8%	4.0%
Total affected land	76.6%	86.8%	94.3%	85.6%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Hazard area	47.4%	62.7%	62.3%	62.5%
Potential flame contact exposure	17.7%	16.0%	14.1%	14.2%
Radiant heat exposure	4.8%	3.5%	3.2%	3.4%
Primary ember attack exposure	5.9%	3.9%	3.8%	4.2%
Total affected land	75.8%	86.1%	83.5%	84.3%

2. Intensity of fire extent (percentage of Eastern Precinct area)

SCENARIO 1 – EXISTING	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	24.2%	16.9%	24.8%	20.3%
Fireline intensity 4,000-20,000 kW/m	29.7%	23.3%	17.6%	21.6%
Fireline intensity 20,000-30,000 kW/m	12.3%	17.2%	11.9%	17.2%
Fireline intensity 30,000-40,000 kW/m	7.5%	13.0%	10.7%	14.1%
Fireline intensity 40,000-60,000 kW/m	8.7%	13.1%	15.1%	15.1%
Fireline intensity >60,000 kW/m	3.8%	10.6%	19.7%	8.8%

SCENARIO 2 – LOW FUEL PAC SITES	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	50.3%	26.0%	32.9%	31.0%
Fireline intensity 4,000-20,000 kW/m	20.9%	18.9%	15.8%	19.8%
Fireline intensity 20,000-30,000 kW/m	10.8%	13.0%	9.6%	14.0%
Fireline intensity 30,000-40,000 kW/m	6.6%	10.3%	8.6%	12.0%
Fireline intensity 40,000-60,000 kW/m	7.8%	12.4%	13.1%	12.9%
Fireline intensity >60,000 kW/m	3.6%	10.8%	17.9%	7.3%

SCENARIO 3 – PLANNING OPTION 3	FFDI 62	FFDI 100	FFDI 114	FFDI 134
Fireline intensity 0-4,000 kW/m	52.6%	37.3%	37.7%	37.5%
Fireline intensity 4,000-20,000 kW/m	18.9%	15.6%	12.5%	15.3%
Fireline intensity 20,000-30,000 kW/m	10.2%	11.7%	8.8%	13.0%

Fireline intensity 30,000-40,000 kW/m	6.6%	10.9%	8.4%	12.8%
Fireline intensity 40,000-60,000 kW/m	7.5%	12.4%	13.9%	12.6%
Fireline intensity >60,000 kW/m	4.2%	12.2%	18.7%	8.7%

