



Hardwood Plantation Weed Control Plan (Aerial/UAV)

Job Description					
State Forest	Cpts	Pre/Post Plant	Description of Operation	Total (ha)	Costing
Beaury (Reids)	BEA009_010_011	Post	Helicopter	104.91	31007 sub 210
Barcoongere (Stage 1)	BCG_007	Post	Helicopter	92.08	31007 sub 210
Barcoongere (Stage 2)	BCG007_015	Pre	Helicopter	178.41	31007 sub 205
WCC (Battery Rd)	WCC012_013_016_017	Pre	Helicopter	71.53	31007 sub 205
WCC (Measuring Hut, Stage 1)	WCC034	Post	Helicopter	57.89	31007 sub 210
WCC (Measuring Hut, Stage 2)	WCC035	Pre	Helicopter	99.46	31007 sub 205
Ballengarra (Stage 1)	BAL010_011	Post	Helicopter	93.02	31007 sub 210
Ballengarra (Stage 2)	BAL010	Pre	Helicopter	18.24	31007 sub 205
Burrawan	BUR010_011	Pre	Helicopter	33.22	31007 sub 205
Johns River	JRV002	Pre	Helicopter	45.60	31007 sub 205
Lansdowne	LAN020_022	Pre	Helicopter	25.05	31007 sub 205
Lansdowne	LAN009_010_011_012	Post	Helicopter	17.48	31007 sub 210
Myall River	MYL008	Pre	Helicopter	28.76	31007 sub 205
Total				865.65	

Work Order	
Order of Work:	To be determined by FCNSW Supervisor in consultation with Contractor on commencement of operation

Relevant Standard Operating Procedures & Documents	
<ul style="list-style-type: none"> - Manual for the use of Chemicals - Weed Control using UAV's in Eucalypt Plantations SOP - Aerial Application of Sprays and Solids SOP 	<ul style="list-style-type: none"> - FCNSW Pesticide Use Notification Plan - Medical Emergency Evacuation Plan (MEEP) - Site Safety Plan (SSP)

Water Sampling <i>(sampling points to be determined prior to operation)</i>	
Water Sample Point	Description
482615 E 6544775 N	Main drainage line, eastern boundary of Ballengarra
481296 E 6544292 N	Main drainage line, west of plantation area.

Documentation Attached <i>(List all supporting documentation)</i>
<ul style="list-style-type: none"> - Site Specific Specifications - Operational Maps - Pesticide Application Records - Weather Records - Induction Checklists - Supervisor Notes

Plan Approval					
Prepared By:		Signature:		Date:	
Approved By:	Graeme Sonter	Signature:	Signature on file	Date:	12/11/2020

Contractor Induction Checklist

Pre & Post Weed Control Contractor Induction Checklist		Yes/No
General		
Introductions of key FCNSW and contractor staff		
Communications: UHF channel, out-of-hours contact numbers		
Contract and Insurance details complete		
Invoicing procedures		
Water sampling plan in place		
Operational Plan and Map read and signed by Contractor		
Processes used to monitor work quality discussed		
Site rules		
Environmental		
All sensitive sites identified on plan		
Roads closed (locations marked on map)		
Procedure explained if non-authorised visitors observed on treatment area		
Weather equipment in place and operational		
Safety		
Personal safety equipment available and worn by the operators		
On-site hazards identified to contractor or crew		
Site safety plan/emergency response explained		
Process if safety issue identified during operation explained		
Operational		
Access: routes to be used		
Specified rate, swath, VMD discussed		
Meteorological constraints discussed		
Site inspection with Contractor & FCNSW supervisor identifying spray areas, non-target areas, sensitive areas and buffers		

Signed by					
Prepared By:		Signature:		Date:	

Supervisor Notes

[illegible]

Aerial Spraying – Post-Plant Weed Control Beaury SF, BEA009_010_011 (Reids)**Contact Details**

FCNSW Supervisor:	David Olive	Phone Number:	0427 070 802
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed

Grasses, Wattle, and other susceptible broadleaf weeds.

Chemical Specification

Treatment Area:	104.91 ha		
Product / Active Ingredient		Rates	Quantity Required
Archer 300 (<i>Clopyralid 300 g/L</i>)		5.0 L/ha	525 L
Verdict 520 (<i>Haloxypop 520 g/L</i>)		0.8 L/ha	84 L
Uptake Oil (<i>Paraffinic Oil 582g/L, Alkoxylated alcohol Non-ionic Surfactants</i>)		500 ml/100L water	52 L
APVMA Registered Use or Permit Number: N/A			

Special Instructions

- BEWARE: Powerlines bound the block to the east
- Spraying is to cease if rain is expected within 2 hrs
- Ensure positive wind flow away from sensitive boundaries when spraying within 100m.
- No spraying within 150m of neighbouring Dwellings, buffers have been marked on operational map.

Calibration

Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications

Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map

Location (Lat / Long)	Description
-28.4143 Lat 152.5280 Long	Track intersection, Reids section

Water Supply (Location / Auxiliary Water Required) – Refer to attached map

Supply Point	Description
453265 E 6854948 N	Oaky Creek, off Beaury Loop Road. Check water level before spraying commences.

Notifications

NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Mr & Mrs JG & TM Want	0418 762 433	12/11/2020	Message left
Mr Ian Mulcahy	6634 1422	12/11/2020	Message left
Mr & Mrs BD Outerbridge	20 Cedar St, Goonellabah. 6624 1629	12/11/2020	Called on phone, happy for us to proceed.



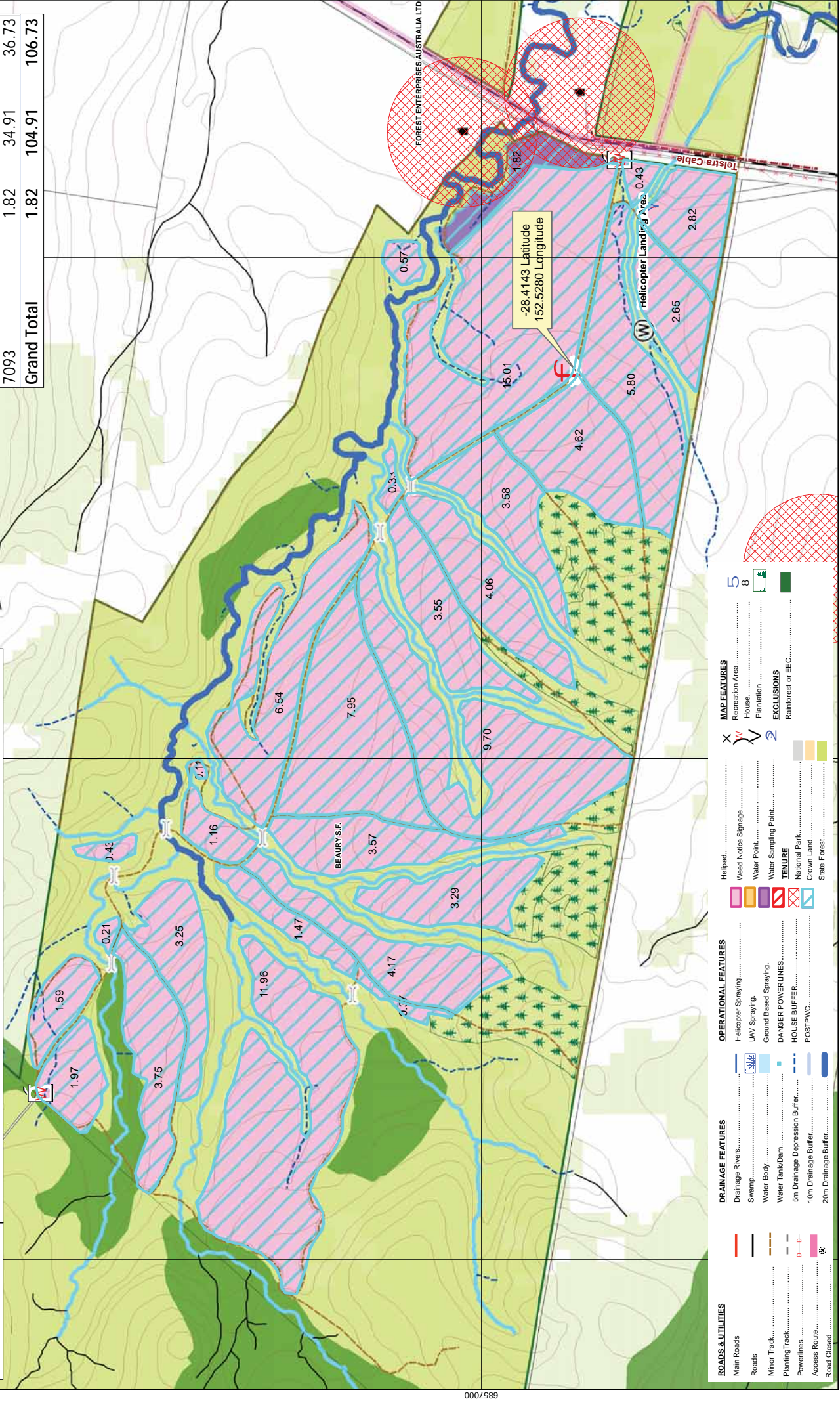
FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION
POSTPLANT WEED CONTROL #1 MAP - HELICOPTER

State Forest Name: BEAURY SF
State Forest No: 2
Section: BEA009_010_011 (Reids)

Ageclass: 2020

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GDA 1994 MGA Zone 56

CPT	Operation	Ground_Based	Helicopter	Grand Total
7090		0.57	0.57	0.57
7091		30.44	30.44	30.44
7092		38.99	38.99	38.99
7093		1.82	34.91	36.73
Grand Total		1.82	104.91	106.73



ROADS & UTILITIES

Main Roads
Roads
Minor Track
Planting Track
Powerlines
Access Route
Road Closed

DRAINAGE FEATURES

Drainage Rivers
Swamp
Water Body
Water Tank/Dam
5m Drainage Depression Buffer
10m Drainage Buffer
20m Drainage Buffer

OPERATIONAL FEATURES

Helicopter Spraying
UAV Spraying
Ground Based Spraying
DANGER POWERLINES
HOUSE BUFFER
POSTPWC

MAP FEATURES

Recreation Area
House
Plantation
Rainforest or EEC

TENURE

National Park
Crown Land
State Forest

EXCLUSIONS

Aerial Spraying – Post-Plant WC#1 Barcoongere SF, BCG006_007_014 (Stage1)

Contact Details			
FCNSW Supervisor:	David Olive	Phone Number:	0427 070 802
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Grasses, Wattle, and other susceptible broadleaf weeds.

Chemical Specification			
Treatment Area:	92.08 ha		
Product / Active Ingredient		Rates	Quantity Required
Archer 300 (<i>Clopyralid</i> 300 g/L)		5.0 L/ha	460 L
Verdict 520 (<i>Haloxypop</i> 520 g/L)		0.8 L/ha	74 L
Uptake Oil (<i>Paraffinic Oil</i> 582g/L, <i>Alkoxylated alcohol Non-ionic Surfactants</i>)		500 ml/100L water	46 L
APVMA Registered Use or Permit Number: N/A			

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 100m.

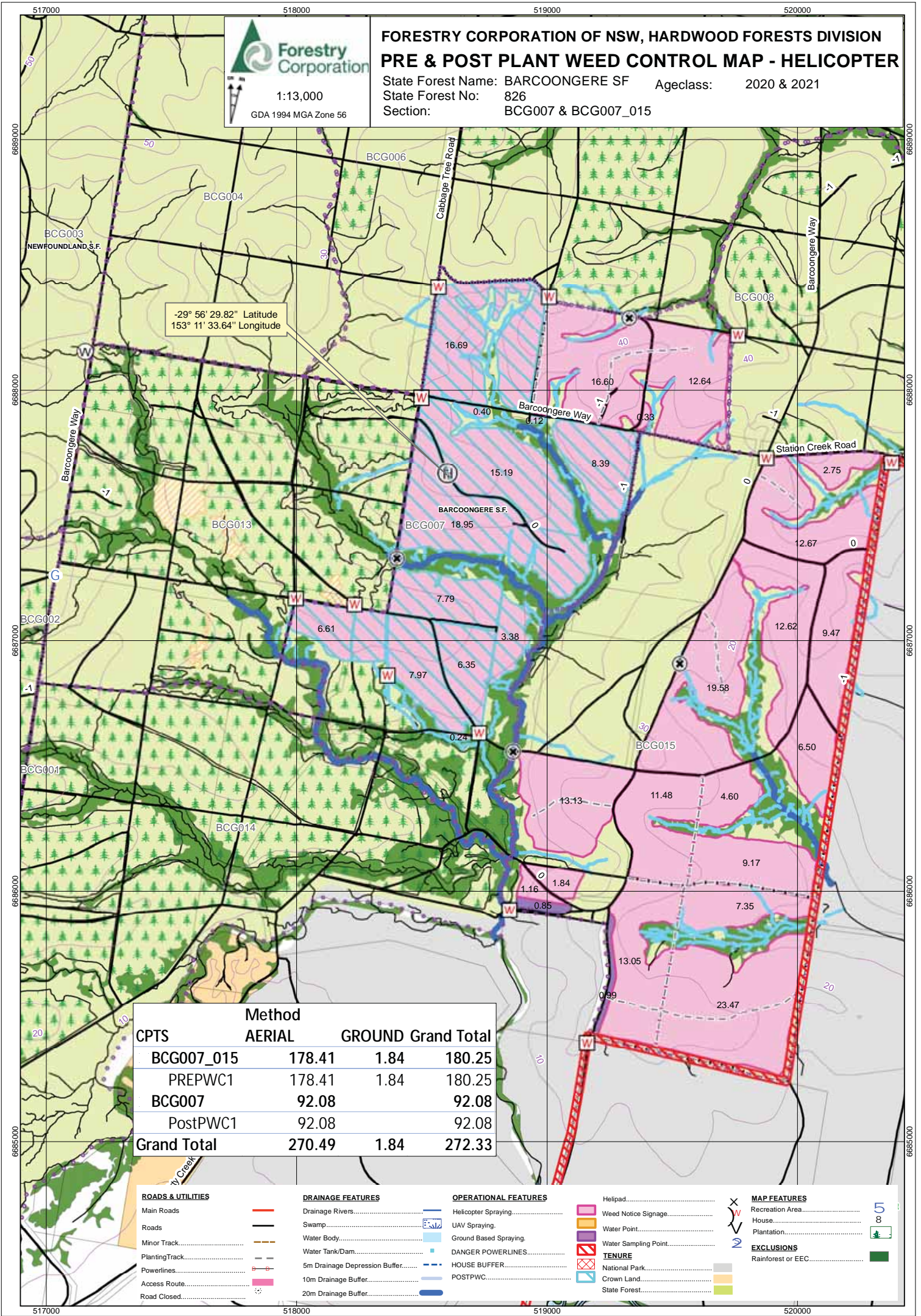
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
-29° 56'29.90" Lat 153° 11'33.99"Long	Barcoongere SF – Cpt 235
-29° 56'48.90" Lat 153° 11'31.12"Long	Barcoongere SF – Cpt 236-7

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
517156 E 6688155N	Dam on Barcoongere Way, ~930m north of intersection with Newfoundland Rd

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS



CPTS	Method			
	AERIAL	GROUND	Grand Total	
BCG007_015	178.41	1.84	180.25	
PREPWC1	178.41	1.84	180.25	
BCG007	92.08		92.08	
PostPWC1	92.08		92.08	
Grand Total	270.49	1.84	272.33	

Aerial Spraying – Pre-Plant Weed Control Barcoongere SF, BCG006_015 (Stage2)

Contact Details			
FCNSW Supervisor:	David Olive	Phone Number:	0427 070 802
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification			
Treatment Area:	178.41 ha		
Product / Active Ingredient		Rates	Quantity Required
Crucial (Glyphosate 600 g/L)		4.8 L/ha	856 L
Associate (Metsulfuron Methyl 600 g/kg)		60 g/ha	10.7 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)		1.8 L/ha	321 L
Simanex 900 WG (Simazine 900 g/kg)		6.0 kg/ha	1070 kg
Liase (Ammonium Sulphate 417 g/L)		2 L/100 L spray solution	357 L
Pulse (1000 g/L Modified Polydimethylsiloxane)		500 ml/100 L spray solution	89 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025			

Special Instructions
<ul style="list-style-type: none"> - BEWARE: Powerlines on the boundary of the block in the South and East - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 100m. - BUFFER WIDTHS adjacent to Yuryagir National Park (refer Operational Map). <ul style="list-style-type: none"> o Powerline Easement plus 15m where powerline easement lies between land tenures o Otherwise 50m buffers apply.

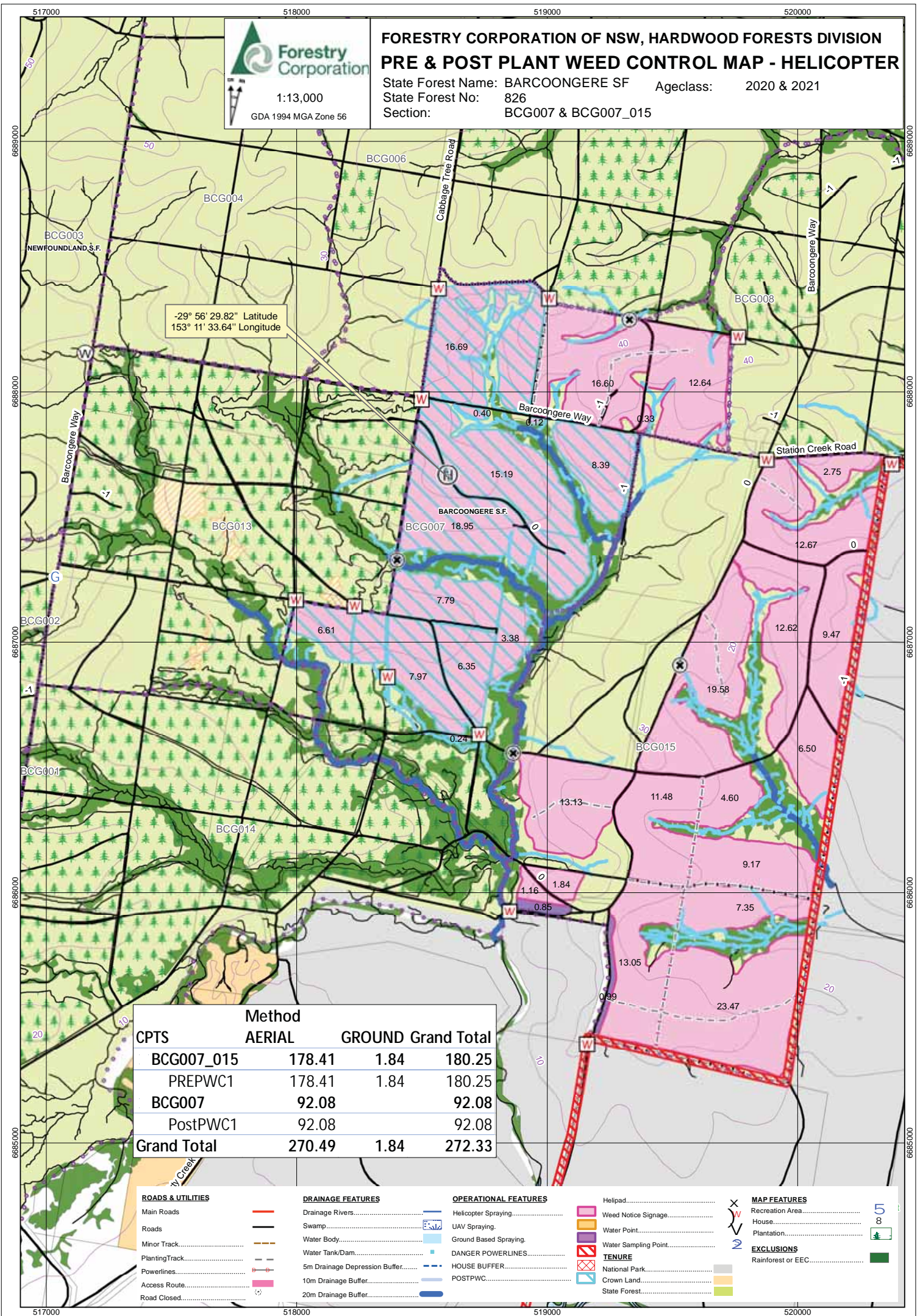
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
-29° 57' 8.74"S 153° 12' 6.91"E	Clearing on internal track, between Cpts 247 & 248

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
517156 E 6688155N	Dam on Barcoongere Way, ~930m north of intersection with Newfoundland Rd

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Gin Hart, NPWS	Gina.hart@environment.nsw.gov.au M 0459 845 387	26/10/2020	Written permission to modify buffer widths.



Aerial Spraying – Pre-PlantWC#1 Wild Cattle Creek SF, WCC012_013_016_017 (Battery)**Contact Details**

FCNSW Supervisor:	Graeme Sonter	Phone Number:	0427 254 386
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed

Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification

Treatment Area:	71.53 ha		
Product / Active Ingredient		Rates	Quantity Required
Crucial (Glyphosate 600 g/L)		4.8 L/ha	343 L
Associate (Metsulfuron Methyl 600 g/kg)		60 g/ha	4 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)		1.8 L/ha	130 L
Simanex 900 WG (Simazine 900 g/kg)		6.0 kg/ha	430 kg
Liase (Ammonium Sulphate 417 g/L)		2 L/100 L spray solution	143 L
Pulse (1000 g/L Modified Polydimethylsiloxane)		500 ml/100 L spray solution	36 L
APVMA Registered Use or Permit Number:			
APVMA Off Label Permit Number PER80154 effective to 31 March 2025			

Special Instructions

- Spraying is to cease if rain is expected within 2 hrs
- Ensure positive wind flow away from sensitive boundaries when spraying within 100m.

Calibration

Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

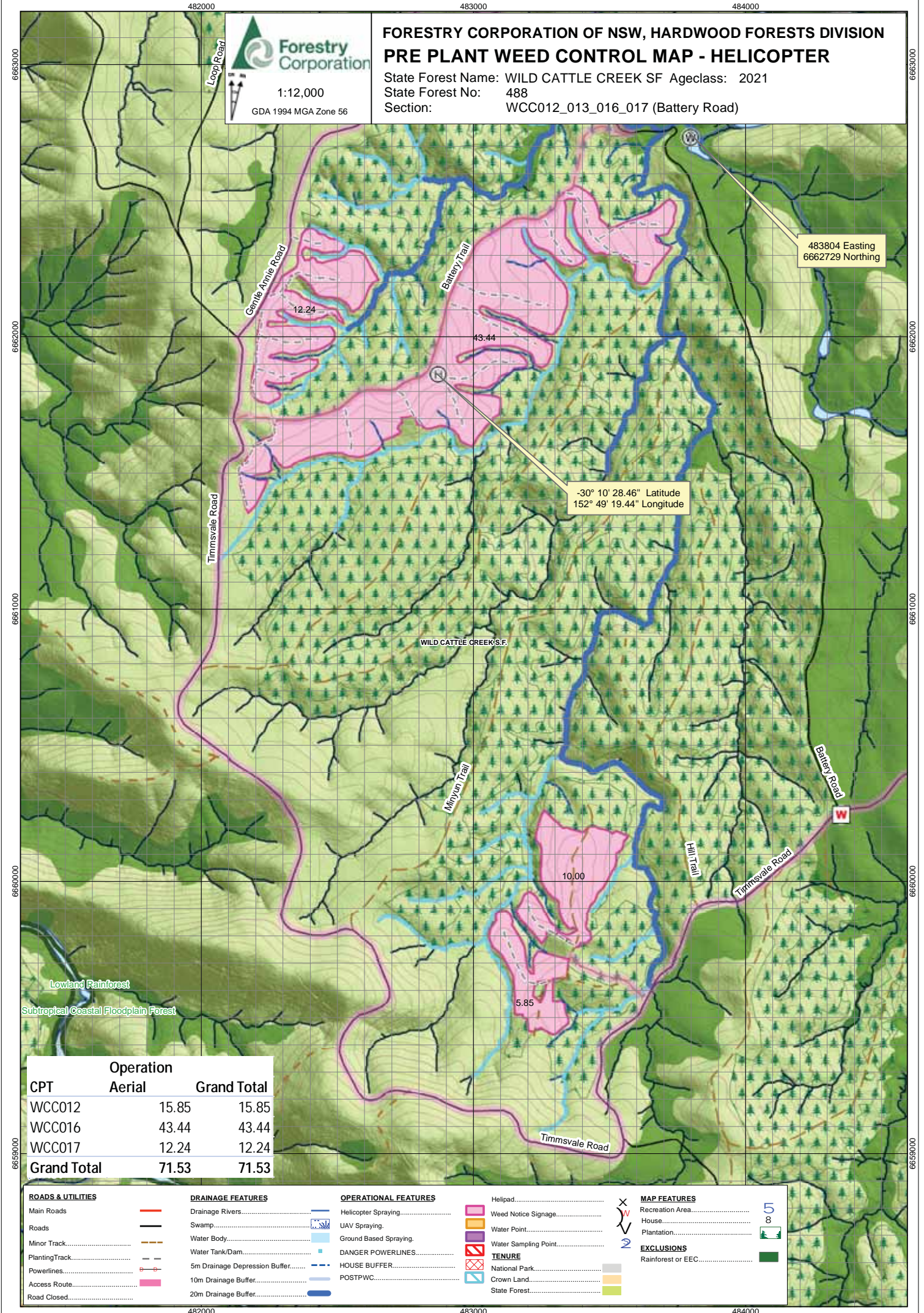
Weather Specifications

Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
- 30.174561 Lat 152.821775 Long	Clearing on high point on Battery Trail

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
483783 E 6662697 N	Little Nymboida River

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
FCNSW, Dist. Coord Betsy Hoy	0407 482 518	19/11/20	





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FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION

PRE PLANT WEED CONTROL MAP - HELICOPTER

State Forest Name: WILD CATTLE CREEK SF Ageclass: 2021

State Forest No: 488

Section: WCC012_013_016_017 (Battery Road)

CPT	Operation Aerial	Grand Total
WCC012	15.85	15.85
WCC016	43.44	43.44
WCC017	12.24	12.24
Grand Total	71.53	71.53

ROADS & UTILITIES

Main Roads

Roads

Minor Track

Planting Track

Powerlines

Access Route

Road Closed

DRAINAGE FEATURES

Drainage Rivers

Swamp

Water Body

Water Tank/Dam

5m Drainage Depression Buffer

10m Drainage Buffer

20m Drainage Buffer

OPERATIONAL FEATURES

Helicopter Spraying

UAV Spraying

Ground Based Spraying

DANGER POWERLINES

HOUSE BUFFER

POSTPWC

TENURE

National Park

Crown Land

State Forest

MAP FEATURES

Recreation Area

House

Plantation

EXCLUSIONS

Rainforest or EEC

Aerial Spraying – Post-PlantWC#1 Wild Cattle Creek SF, WCC034 (Measuring Hut, Stg1)**Contact Details**

FCNSW Supervisor:	Graeme Sonter	Phone Number:	0427 254 386
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed

Grasses, Wattle, and other susceptible broadleaf weeds.

Chemical Specification

Treatment Area:	57.89 ha	
Product / Active Ingredient	Rates	Quantity Required
Archer 300 (<i>Clopyralid</i> 300 g/L)	5.0 L/ha	290 L
Verdict 520 (<i>Haloxypop</i> 520 g/L)	0.8 L/ha	46 L
Uptake Oil (<i>Paraffinic</i> Oil 582g/L, <i>Alkoxylated alcohol Non-ionic Surfactants</i>)	500 ml/100L water	29 L
APVMA Registered Use or Permit Number: N/A		

Special Instructions

- Spraying is to cease if rain is expected within 2 hrs
- Ensure positive wind flow away from sensitive boundaries when spraying within 100m.

Calibration

Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications

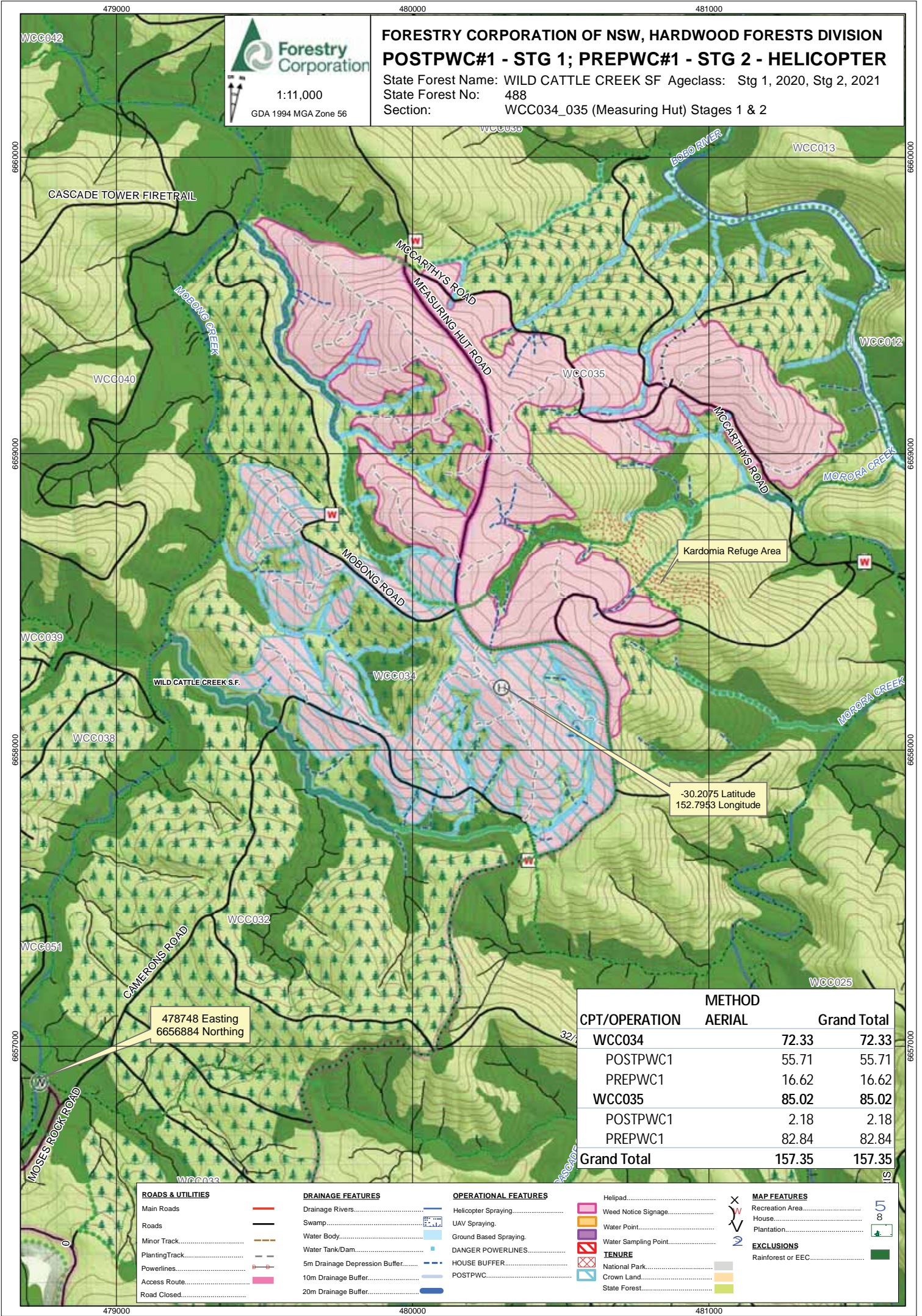
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map

Location (Lat / Long)	Description
-30.2074 Lat 152.7953 Long	Knoll, Cpt 551 off Measuring Hut Road

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
478748 E 6656884 N	Mobong Creek – Picnic Area on Moses Rock Road

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS



HEP_WP_AERIAL_1_2020

Wild Cattle Creek – Measuring Hut Operational Map

Aerial Spraying – Pre-PlantWC#1 Wild Cattle Creek SF, WCC035 (Measuring Hut, Stg2)

Contact Details			
FCNSW Supervisor:	Graeme Sonter	Phone Number:	0427 254 386
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification		
Treatment Area:	99.46 ha	
Product / Active Ingredient	Rates	Quantity Required
Crucial (Glyphosphate 600 g/L)	4.8 L/ha	478 L
Associate (Metsulfuron Methyl 600 g/kg)	60 g/ha	6 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)	1.8 L/ha	179 L
Simanex 900 WG (Simazine 900 g/kg)	6.0 kg/ha	597 kg
Liase (Ammonium Sulphate 417 g/L)	2 L/100 L spray solution	199 L
Pulse (1000 g/L Modified Polydimethylsiloxane)	500 ml/100 L spray solution	50 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025		

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 100m.

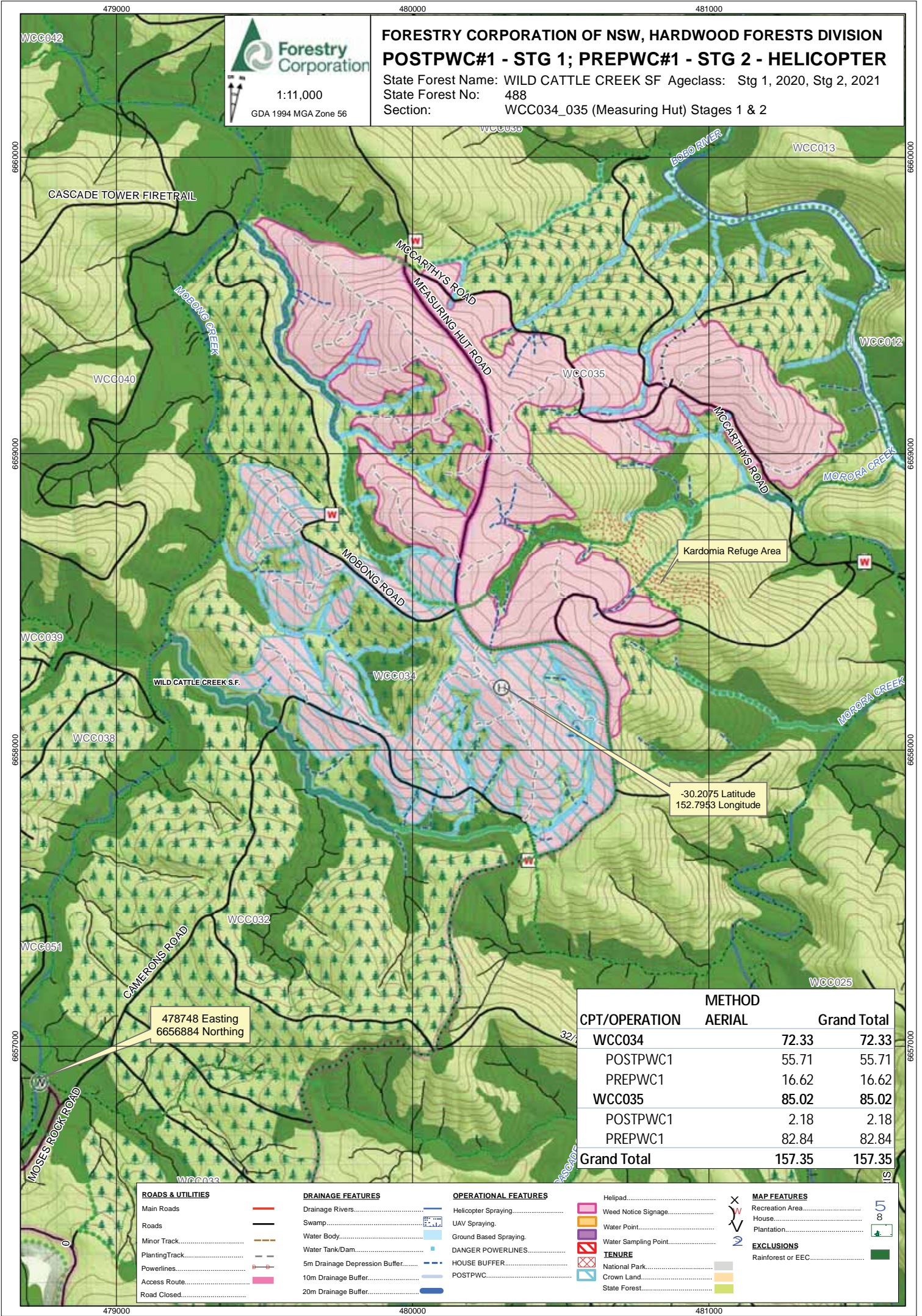
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28 ⁰ C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
-30.2074 Lat 152.7953 Long	Knoll, Cpt 551 off Measuring Hut Road

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
478748 E 6656884 N	Mobong Creek – Picnic Area on Moses Rock Road

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS



Aerial Spraying – Post-Plant Weed Control Ballengarra SF, BAL010_011 (Stage1)

Contact Details			
FCNSW Supervisor:	Graeme Sonter	Phone Number:	0427 254 386
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Grasses, Wattle, and other susceptible broadleaf weeds.

Chemical Specification			
Treatment Area:	93.02 ha		
Product / Active Ingredient		Rates	Quantity Required
Archer 300 (<i>Clopyralid</i> 300 g/L)		5.0 L/ha	465 L
Verdict 520 (<i>Haloxypop</i> 520 g/L)		0.8 L/ha	75 L
Uptake Oil (<i>Paraffinic Oil</i> 582g/L, <i>Alkoxylated alcohol Non-ionic Surfactants</i>)		500 ml/100L water	47 L
APVMA Registered Use or Permit Number: N/A			

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 100m. Sensitive areas occur to the north and east of the treatment area - Do not spray within 150m of dwelling (refer buffers on operational maps).

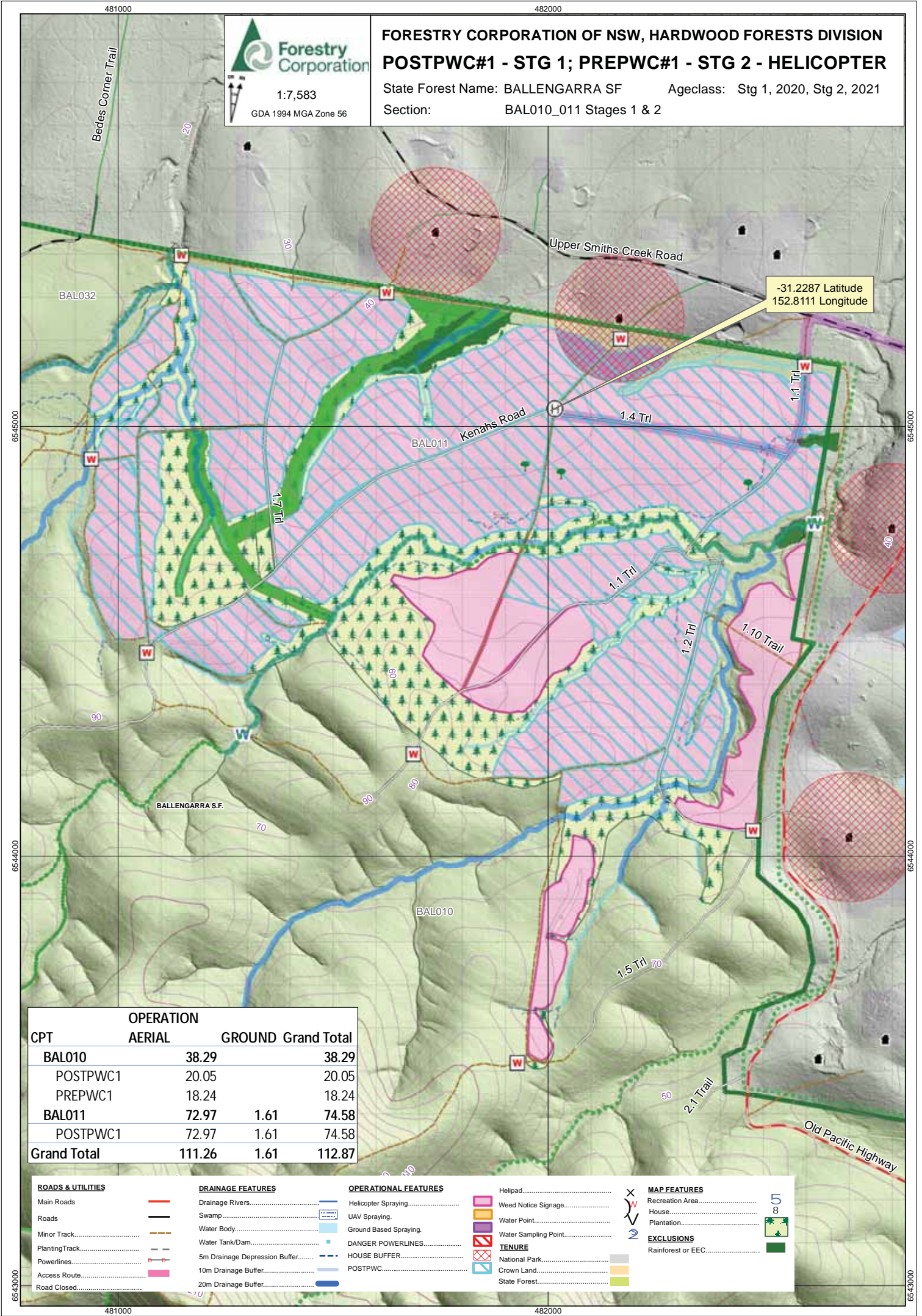
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
-31.2287 Lat 152.8111 Long	Track intersection on Kenahs Road

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
Water Tanker	
Alternate Supply 476694 E 6545134N	Greg's Road bridge at SF boundary. Where Smiths Creek Rd becomes Greg's Road

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Martin Aitken	211 Upper Smiths Creek Rd, Kundabung		Letter posted 12/11/2020
Christine Szymanski	91 Upper Smiths Creek Rd, Kundabung		Letter posted 12/11/2020
Johanne Davies	147 Upper Smiths Creek Rd, Kundabung		Letter posted 12/11/2020
Adam Meica	36 Old Pacific Highway, Kundabung		Letter posted 12/11/2020
Michael Childs	113 Old Pacific Highway, Kundabung		Letter posted 12/11/2020





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FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION

POSTPWC#1 - STG 1; PREPWC#1 - STG 2 - HELICOPTER

State Forest Name: BALLENGARRA SF Ageclass: Stg 1, 2020, Stg 2, 2021

Section: BAL010_011 Stages 1 & 2

-31.2287 Latitude

152.8111 Longitude

CPT	OPERATION	
	AERIAL	GROUND
BAL010	38.29	38.29
POSTPWC1	20.05	20.05
PREPWC1	18.24	18.24
BAL011	72.97	1.61
POSTPWC1	72.97	1.61
Grand Total	111.26	1.61

Grand Total	
111.26	1.61

ROADS & UTILITIES

Main Roads

Roads

Minor Track

Planting Track

Powerlines

Access Route

Road Closed

DRAINAGE FEATURES

Drainage Rivers

Swamp

Water Body

Water Tank/Dam

5m Drainage Depression Buffer

10m Drainage Buffer

20m Drainage Buffer

OPERATIONAL FEATURES

Helicopter Spraying

UAV Spraying

Ground Based Spraying

HAZARD POWERLINES

HOUSE BUFFER

POSTPWC

TENURE

National Park

Crown Land

State Forest

MAP FEATURES

Recreation Area

House

Plantation

EXCLUSIONS

Rainforest or EEC

Aerial Spraying – Pre-Plant Weed Control Ballengarra SF, BAL010 (Stage2)

Contact Details			
FCNSW Supervisor:	Graeme Sonter	Phone Number:	0427 254 386
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Eucalypt Coppice, other Woody Weeds and grasses

Chemical Specification		
Treatment Area:	18.24 ha	
Product / Active Ingredient	Rates	Quantity Required
Crucial (Glyphosate 600 g/L)	4.8 L/ha	88 L
Associate (Metsulfuron Methyl 600 g/kg)	60 g/ha	1.1 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)	1.8 L/ha	33 L
Simanex 900 WG (Simazine 900 g/kg)	6.0 kg/ha	103.5 kg
Liase (Ammonium Sulphate 417 g/L)	2 L/100 L spray solution	36 L
Pulse (1000 g/L Modified Polydimethylsiloxane)	500 ml/100 L spray solution	9 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025		

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 100m.

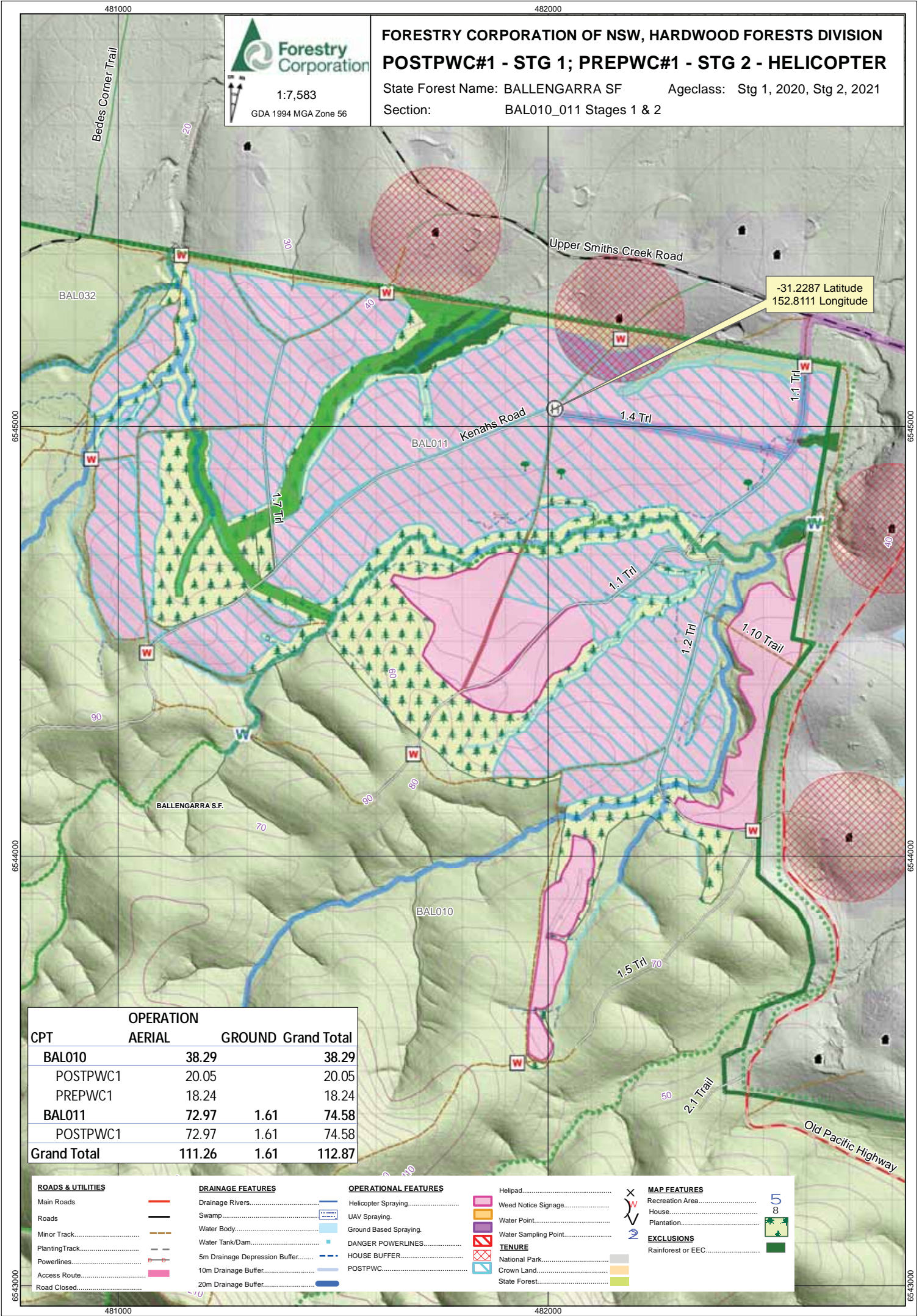
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
-31.2287 Lat 152.8111 Long	Track intersection on Kenahs Road

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
Water Tanker	
Alternate Supply 476694 E 6545134N	Greg's Road bridge at SF boundary. Where Smiths Creek Rd becomes Greg's Road

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Martin Aitken	211 Upper Smiths Creek Rd, Kundabung		Letter posted 12/11/2020
Christine Szymanski	91 Upper Smiths Creek Rd, Kundabung		Letter posted 12/11/2020
Johanne Davies	147 Upper Smiths Creek Rd, Kundabung		Letter posted 12/11/2020
Adam Meica	36 Old Pacific Highway, Kundabung		Letter posted 12/11/2020
Michael Childs	113 Old Pacific Highway, Kundabung		Letter posted 12/11/2020



Aerial Spraying – Pre-Plant Weed Control Burrawan SF, BUR010_011

Contact Details			
FCNSW Supervisor:	Pat Fitzgerald	Phone Number:	0427 904 120
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Eucalypt Coppice, other Woody Weeds and grasses

Chemical Specification		
Treatment Area:	33.23 ha	
Product / Active Ingredient	Rates	Quantity Required
Crucial (Glyphosate 600 g/L)	4.8 L/ha	160 L
Associate (Metsulfuron Methyl 600 g/kg)	60 g/ha	2 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)	1.8 L/ha	60 L
Simanex 900 WG (Simazine 900 g/kg)	6.0 kg/ha	200 kg
Liase (Ammonium Sulphate 417 g/L)	2 L/100 L spray solution	66 L
Pulse (1000 g/L Modified Polydimethylsiloxane)	500 ml/100 L spray solution	17 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025		

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 100m. - DO NOT SPRAY WITHIN 150M OF DWELLINGS (refer buffers on Operational Maps).

Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
-31.5731 Lat 152.7385 Long	Located on Cpt 27/4 Trail

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
	Water Tanker of FCNSW Cat 1 Tanker

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Ian and Anne Twomey	Blundell Road Bobs Creek 2443 (02) 6585 7133	12/11/2020	Message left
Bob and Peggy Cox	75 Blundell Road Bobs Creek 2443 (02) 6585 7194	12/11/2020	Advised of planned spray, Bob OK with proposal, would like an update when have firmer date.

Aerial Spraying – Pre-Plant Weed Control Johns River SF, JRV002 (Fire Salvage)

Contact Details			
FCNSW Supervisor:	Pat Fitzgerald	Phone Number:	0427 904 120
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification			
Treatment Area:		45.6 ha	
Product / Active Ingredient		Rates	Quantity Required
Crucial (Glyphosphate 600 g/L)		4.8 L/ha	219 L
Associate (Metsulfuron Methyl 600 g/kg)		60 g/ha	2.7 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)		1.8 L/ha	82 L
Simanex 900 WG (Simazine 900 g/kg)		6.0 kg/ha	274 kg
Liase (Ammonium Sulphate 417 g/L)		2 L/100 L spray solution	91 L
Pulse (1000 g/L Modified Polydimethylsiloxane)		500 ml/100 L spray solution	23 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025			

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries when spraying within 150m of Crowdy Bay NP i.e. a South to South easterly wind direction (borders southern section of treatment area).

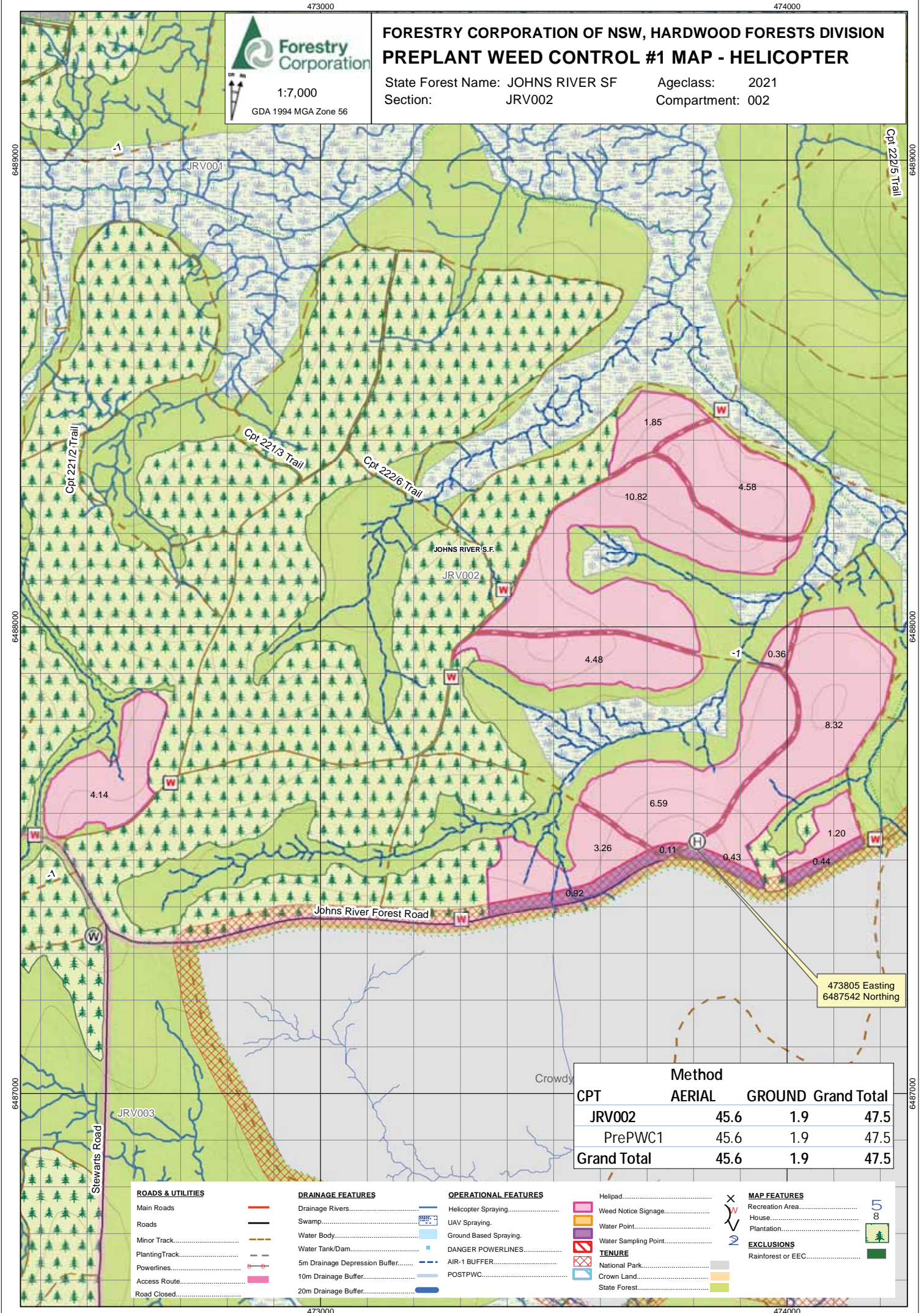
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
- 31.747403 Lat, 152.722801 Long	Clearing on Johns River Forest Road, 1250m east of intersection with Stewarts Road

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
473748 E 6487500 N	Watercart or FCNSW Cat 1 Tanker

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Geoffrey James, NPWS	Geoffrey.James@environment.nsw.gov.au M 0408 909 810	22/7/2020	Written permission to modify buffer widths.





Forestry
Corporation

1:7,000

GDA 1994 MGA Zone 56

FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION
PREPLANT WEED CONTROL #1 MAP - HELICOPTER

State Forest Name: JOHNS RIVER SF

Ageclass: 2021

Section: JRV002

Compartment: 002

CPT	Method	AERIAL	GROUND	Grand Total
JRV002		45.6	1.9	47.5
PrePWC1		45.6	1.9	47.5
Grand Total		45.6	1.9	47.5

ROADS & UTILITIES

Main Roads

Roads

Minor Track

Planting Track

Powerlines

Access Route

Road Closed

DRAINAGE FEATURES

Drainage Rivers

Swamp

Water Body

Water Tank/Dam

5m Drainage Depression Buffer

10m Drainage Buffer

20m Drainage Buffer

OPERATIONAL FEATURES

Helicopter Spraying

UAV Spraying

Ground Based Spraying

DANGER POWERLINES

AIR-1 BUFFER

POSTPWC

MAP FEATURES

Helipad

Weed Notice Signage

Water Point

Water Sampling Point

National Park

Crown Land

State Forest

Recreation Area

House

Plantation

EXCLUSIONS

Rainforest or EEC

Weather Record

[illegible]

Aerial Spraying – Pre-Plant Weed Control Lansdowne SF, LAN020_022

Contact Details			
FCNSW Supervisor:	Pat Fitzgerald	Phone Number:	0427 904 120
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification			
Treatment Area:	25.05 ha		
Product / Active Ingredient		Rates	Quantity Required
Crucial (Glyphosphate 600 g/L)		4.8 L/ha	120 L
Associate (Metsulfuron Methyl 600 g/kg)		60 g/ha	1.5 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)		1.8 L/ha	45 L
Simanex 900 WG (Simazine 900 g/kg)		6.0 kg/ha	150 kg
Liase (Ammonium Sulphate 417 g/L)		2 L/100 L spray solution	50 L
Pulse (1000 g/L Modified Polydimethylsiloxane)		500 ml/100 L spray solution	13 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025			

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries.

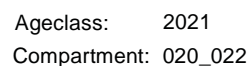
Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
- 31.7413 Lat 152.5761 Long	Cleared Log Dump area on Anderson's Trail, Cpt LAN020.

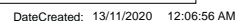
Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
Watercart or FCNSW Cat 1 Tanker	

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS



OPERATION			
CPT	AERIAL		Grand Total
LAN020		18.92	18.92
LAN022		6.13	6.13
Grand Total		25.05	25.05

-31.7413 Latitude
152.5761 Longitude



Aerial Spraying – Post-Plant Weed Control Lansdowne SF, LAN009_010_011_012

Contact Details			
FCNSW Supervisor:	Pat Fitzgerald	Phone Number:	0427 904 120
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification		
Treatment Area:	17.48 ha	
Product / Active Ingredient	Rates	Quantity Required
Archer 300 (<i>Clopyralid</i> 300 g/L)	5.0 L/ha	87 L
Verdict 520 (<i>Haloxypop</i> 520 g/L)	0.8 L/ha	14 L
Uptake Oil (<i>Paraffinic Oil</i> 582g/L, <i>Alkoxylated alcohol Non-ionic Surfactants</i>)	500 ml/100L water	9 L
APVMA Registered Use or Permit Number: N/A		

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries

Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
- 31.7413 Lat 152.5761 Long	Cleared Log Dump area on Anderson's Trail, Cpt LAN020.

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
Watercart or FCNSW Cat 1 Tanker	

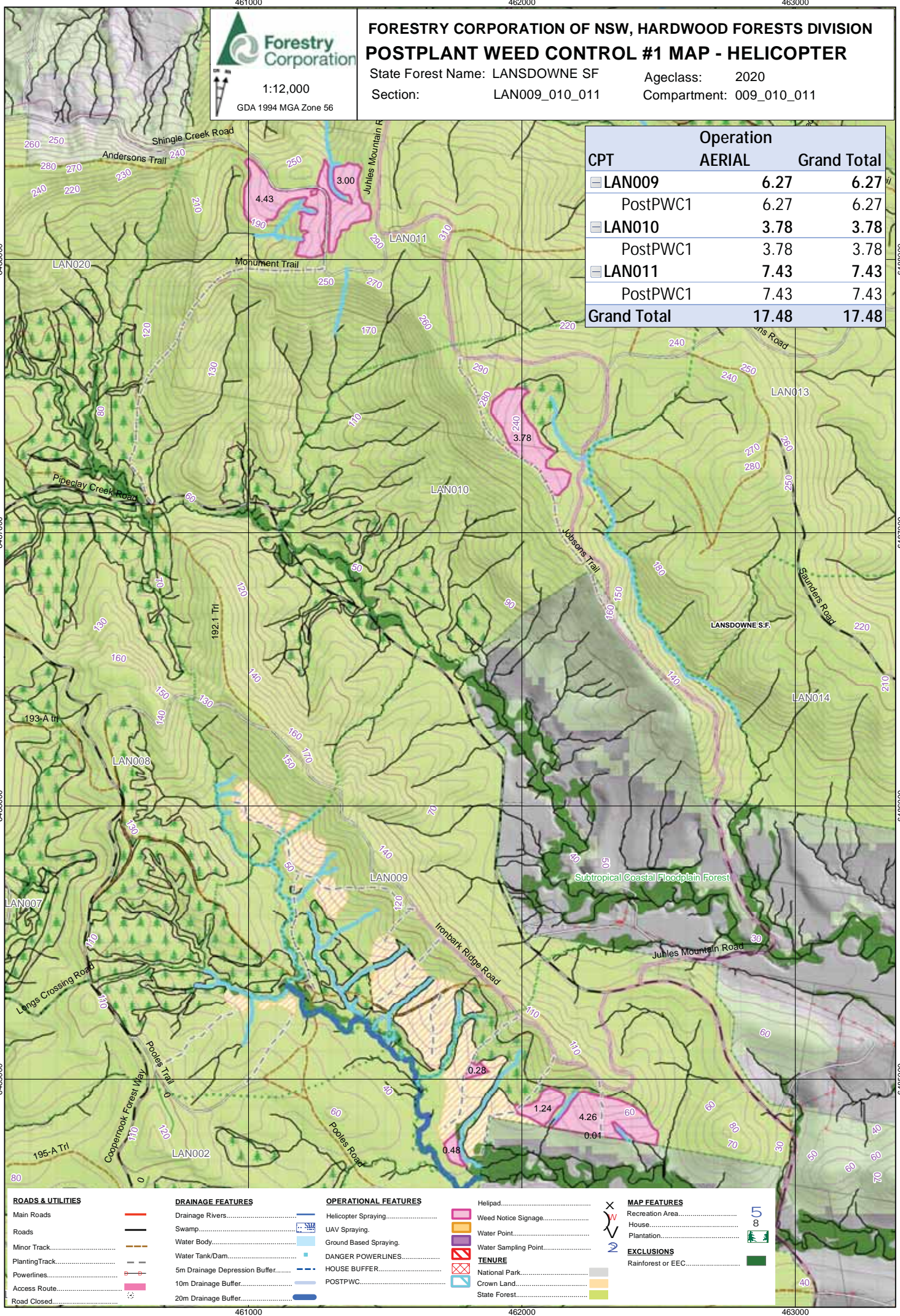
Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS
Glen Dealtry	1310 Juhles Mountain Rd, Mooreland NSW 2443. Geoff Dealtry Ph 02 6585 4581		

FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION POSTPLANT WEED CONTROL #1 MAP - HELICOPTER

State Forest Name: LANSLOWNE SF
Section: LAN009_010_011

Ageclass: 2020
Compartment: 009_010_011

CPT	Operation	AERIAL	Grand Total
■ LAN009		6.27	6.27
	PostPWC1	6.27	6.27
■ LAN010		3.78	3.78
	PostPWC1	3.78	3.78
■ LAN011		7.43	7.43
	PostPWC1	7.43	7.43
Grand Total		17.48	17.48



ROADS & UTILITIES

Main Roads
Roads
Minor Track
Planting Track
Powerlines
Access Route
Road Closed

DRAINAGE FEATURES

Drainage Rivers
Swamp
Water Body
Water Tank/Dam
5m Drainage Depression Buffer
10m Drainage Buffer
20m Drainage Buffer

OPERATIONAL FEATURES

Helicopter Spraying
UAV Spraying
Ground Based Spraying
DANGER POWERLINES
HOUSE BUFFER
POSTPWC

Helipad
Weed Notice Signage
Water Point
Water Sampling Point
TENURE
National Park
Crown Land
State Forest

MAP FEATURES

Recreation Area
House
Plantation
EXCLUSIONS
Rainforest or EEC

5
8

Aerial Spraying – Pre-Plant Weed Control Myall River SF, MYL008

Contact Details			
FCNSW Supervisor:	Pat Fitzgerald	Phone Number:	0427 904 120
Contractor:	PAYS Helicopters	Phone Number:	Shane Swanson 0474 435 402
Radio Channel:			

Target Crop or Weed
Blady Grass, Tobacco Bush, Lantana, Bracken Fern, Wattle, Pine wildings, other Woody Weeds and grasses

Chemical Specification			
Treatment Area:	28.76 ha		
Product / Active Ingredient		Rates	Quantity Required
Crucial (Glyphosphate 600 g/L)		4.8 L/ha	138 L
Associate (Metsulfuron Methyl 600 g/kg)		60 g/ha	1.7 kg
Starane Advanced (Fluroxypyr Methylheptyl 333g/L)		1.8 L/ha	52 L
Simanex 900 WG (Simazine 900 g/kg)		6.0 kg/ha	173 kg
Liase (Ammonium Sulphate 417 g/L)		2 L/100 L spray solution	58 L
Pulse (1000 g/L Modified Polydimethylsiloxane)		500 ml/100 L spray solution	14 L
APVMA Registered Use or Permit Number: APVMA Off Label Permit Number PER80154 effective to 31 March 2025			

Special Instructions
<ul style="list-style-type: none"> - Spraying is to cease if rain is expected within 2 hrs - Ensure positive wind flow away from sensitive boundaries

Calibration	
Total Application Rate (L/Ha):	100L/Ha for treatment area
Nozzle Type / No:	Accu Flow 0.020
Target VMD:	600 – 800 µm
Pressure:	
Application Height:	5m above obstructions on ground
Swath Width:	8 meters
Application Method:	Helicopter

Weather Specifications	
Wind Speed:	Between 3-15 km/hr
Air Temperature (Maximum):	28° C
ΔT:	Less than or equal to 10
Inversion:	Nil

Helipad – Refer to attached map	
Location (Lat / Long)	Description
- 32.3105 Lat, 152.1181 Long	Log Dump off Cabbage Tree Road, Cpt MYL008.

Water Supply (Location / Auxiliary Water Required) – Refer to attached map	
Supply Point	Description
420360E, 6417640N	Concrete Causeway on Cabbage Tree Road. Alternatively Bridge over Black Camp Creek.
Alternatively, FCNSW Fire Tanker	Contact Peter Tarjanyi

Notifications			
NAME	CONTACT DETAILS	DATE ADVISED	COMMENTS

Weather Record

[illegible]