



Kangaroo Island Council Weed Spraying Guide

Road Reserves, Cemeteries and Camp Grounds



Contents

WHS General Information.....	5
Weed list	6
Sprays To Be Used.....	7
Resources.....	7
Weed Spraying Schedules.....	8
Township Schedule	8
Weed Spraying Resources.....	9
Townships (within 50km/hour zone).....	9
Outside townships (outside 50km/hour zone).....	9
Weed Spraying Requirements	10
Township, kerb and gutter, no footpath (grass area).....	10
Townships, kerb and gutter, concrete footpath.....	11
Townships, kerb and gutter, gravel or dirt footpath	12
Townships, no kerb and gutter, no footpath.....	13
Townships, Side Entry Pits	14
Outside Townships, Open Verge.....	15
Within or Outside Townships, Cross Drains.....	16
Within or Outside Townships, Large Drains.....	17
Townships, Walking Trail	18
Campgrounds.....	19
Cemeteries	20

Maps 21

 Penneshaw (full township) 21

 Penneshaw (Area 1) 22

 Penneshaw (Area 2) 23

 Kingscote (Full Township) 24

 Kingscote (Area 1) 25

 Kingscote (Area 2) 26

 Kingscote (Area 3) 27

 American River (Full Township) 28

 American River (Area 1) 29

 American River (Area 2) 30

 Parndana (Full Township) 31

 Emu Bay (Full Township) 32

 Brownlow (Full Township) 33

 Baudin Beach (Full Township) 34

 Penneshaw (Cemetery) 35

 Kingscote (Cemetery) 36

 Penneshaw (Hog Bay Road) 37

 Penneshaw (Cape Willoughby Road) 38

 Kingscote (Cordes Rd, Governor Wallen Drive, Seaview Road) 39

 Kingscote (Walking Trail) 40

 Brownlow (Tiggemann’s Corner to Burden Drive to Playford Highway) 41

 American River (Cemetery) 42

Kangaroo Island Council Weed Spraying Guide

Vivonne Bay (Campground) 43
Western River (Campground) 44
Dover Farm 45
Duck Lagoon Campground..... 46

WHS General Information

When using any hazardous chemicals the user must consult the Safety Data Sheet for the product and use the product to the manufacturer's specifications. Prior to using any chemical ensure you understand the Personal Protective Equipment, First Aid, Emergency and Spill Response requirements.

Hazardous chemicals are substances, mixtures and articles that can pose a significant risk to health and safety if not managed correctly. They may have health hazards, physical hazards or both.

Personnel who use a Schedule 7 chemical must hold a Chemical Accreditation; e.g. ChemCert AQF3.

Personnel should consult with and review any relevant Australian Standards, Codes of Practice and the Workplace Health and Safety Regulation and KIC Work Procedures prior to handling, using, spraying any chemical product. (E.g. Workplace Health and Safety Regulation 2012, Code of Practice for Summer Weed Control Guide, KIC 1.6.11 Hazardous Chemicals Procedure, etc.)

When using any spray chemical consideration needs to be given to various factors including: specific /legal regulated requirements for the use of such product, location of works, weather conditions, and type of equipment to be used, spray timing, monitoring and record keeping.

Please refer to the below relevant information:

- ChemAlert Website: <https://chemalert.rmt.com.au/lga/index.jsf?policyBuld=56>
- ChemCert: <https://www.chemcert.com.au>
- KIC Policies and Procedures: [G:\WHS\WHS Policies & Procedures\Hazardous Chemical Procedure](#)
- KIC Hazard Management Procedure: [G:\WHS\WHS Policies & Procedures\Hazard Management Procedure](#)



Weed list

Common Name	Botanical Name
African Feathergrass	Cenchrus macrourus
Fountain Grass	Cenchrus setaceus
Wild Oats	Avena spp
Annual Veldt Grass	Ehrharta longiflora
Perrenial Ryegrass	Lolium perenne
Onion grass	Romulea spp
Cape Tulip	Moraea spp
Caltrop	Tribulus terrestris
Gazania	Gazania sp
Horehound	Marrubium vulgare
Lincoln weed	Diplotaxis tenuifolia
Nutgrass	Cyperus rotundus
Salvation Jane	Echium plantagineum
Silverleaf night-shade	Solanum elaeagnifolium
Apple of Sodom	Solanum linnaeanum
Skeleton Weed	Chondrilla juncea
Variegated Thistle	Silybum marianum
Wild Artichoke	Cynara cardunculus
Heliotrope	Heliotropium spp
Mallow	Malva verticillata

Black nightshade	Solanum nigrum
Bulbil Watsonia	Watsonia meriana
Sow Thistle	Sonchus oleraceus
Prickly Lettuce	Lactuca serriola
Flea Bane	Conyza bonariensis
Onion Weed	Asphodelua fistulosis
Spurges	Euphorbia spp
Stinging Nettles	Urtica urens
Soursob	Oxalis spp
Three Corner Jack	Emex australis
Wire Weed	Polygonum heterophyllum
Mustard Wewed	Sisymbrium officinale
Rhodes Grass	Chloris gayana
Fumitory	Fumaria spp
Plantain	Plantago spp
Fat Hen	Chenopodium spp
Dandelion	Taraxacum spp
Scotch Thistles	Onopordum spp
Wild Poppy	Papaver spp
Bidgee Widgee	Acaena spp
Clovers	Trifolium spp



Sprays To Be Used

- Roundup Ultra Max : Glyphosate 570 (or equivalent)
- Roundup Biactive (or equivalent) – use in waterways and wet areas
- Hammer 400 E C (or equivalent)
- Kamba M (or equivalent)

Resources

- Townships – vehicle (spray unit vehicle) and 2 FTEs
- Rural - - vehicle (spray unit vehicle) and 2 FTEs – note larger unit than in townships



Weed Spraying Schedules

Township Schedule

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Late Summer spray		Autumn Spray		Winter spray		First Spring spray		Second Spring spray		Early Summer spray

Spray details:

Spray Name	Approximate Timing	Exact Timing
Late Summer Spray	early February – late Feb (maybe March)	Based on first germination
Autumn Spray	April	Based on average of 6 weeks later but depends on growth
Winter spray	June/July	Based on average of 6 weeks later but depends on growth
First Spring Spray	Late August/Early September	Based on average of 6 weeks later but depends on growth
Second Spring Spray	October	Based on average of 6 weeks later but depends on growth
Early Summer Spray	early December	Needs to occur early December irrespective of size of weeds. Occurs prior to the tourist season and aims to hold off on need for spraying until February so no spraying occurs during the tourist season.

Factors to consider in determining the exact timing of sprays:

- The exact timing of all sprays depends on the season and weed growth.
- All sprays are weather dependent. If very windy or raining, hold off on spraying.
- Wait at least 4 weeks between sprays (and a maximum of 8 weeks) – except for the Summer period when spraying is not needed
- Depending on rainfall, it may be necessary to include a potential 2 additional sprays during the year. (ie if high rainfall, weeds will grow quicker and additional spraying may be needed).

Weed Spraying Resources

Townships (within 50km/hour zone)

Area	Details	Time estimate ¹	Priority
Penneshaw	Paths and roads, including carpark above Sealink terminal	2 days	High
Kingscote	Paths and roads	3 days	High
American River	Paths and roads in township including campground and walking trail	1.5 days	Medium
Parndana	Paths and roads, including unformed lanes	1 day	Medium
Emu Bay	Paths and roads, including campground and walking trail from playground to jetty (plus Duck Lagoon see below)	1 day	Medium
Brownlow	Paths and roads (plus Tiggemanns Corner and Berden Drive – see below)	1 day	Low
Baudin Beach	Few road edges	0.5 days	Low

Outside townships (outside 50km/hour zone)

Area	Details	Time estimate ¹	Priority
Penneshaw	Cemetery and boundary	1 day	High
Kingscote	Cemetery	1 day	High
Penneshaw	Hog Bay Road – drains on both sides of road from 50 km/hr sign to top of the hill, including Jacks Creek drain (right by 50km/hr signs)	1 day	Medium
Penneshaw	Cape Willoughby Road, drain and open verge from Hog Bay Road to Charing Cross Road	0.5 day	Medium
Kingscote	Cordes Road, Governor Wallen Drive & Seaview Road, including old cemetery, Reeves Point	1 – 1.5 days	Medium
Kingscote	Walking trail – both sides of the trail	1 day	Medium
Brownlow	Tiggemanns Cnr to Berden Drive to Playford Highway intersection– open road verges	Included with Brownlow	Medium
American River	Cemetery	0.25 days	Medium
Vivonne Bay	Campground	0.5 days	Medium
Western River	Campground	0.5 days	Medium
Dover Farm	Road verge, Summervista Boulevard, Shoal Bay Ridge (Summervista to Glen Barrett) – open verge and drains	0.5 days	Low
Duck Lagoon	Campground entry and camp area excluding turfed area	Included with Emu Bay	Low

¹ Weather dependent!

Weed Spraying Requirements

Township, kerb and gutter, no footpath (grass area)

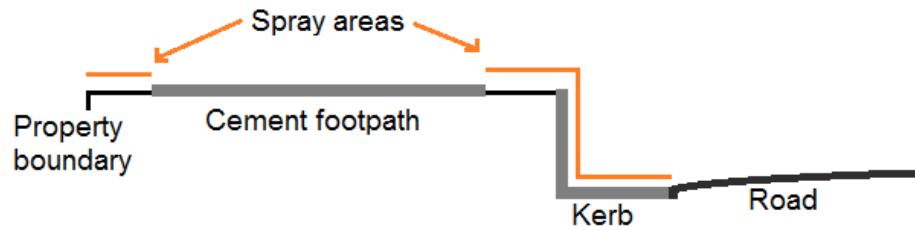


- Spray kerb and gutter and if needed, edge of grass

<u>Kerbs & Paths - Op Exp</u>	<u>District</u>
63117 - Kingscote Kerbs & Paths Mtce Exp	A
63119 - Penneshaw Kerbs & Paths Mtce Exp	B
63120 - Parndana Kerbs & Paths Mtce Exp	C
63123 - American River Kerbs & Paths Mtce Exp	F
63126 - Emu Bay Kerbs & Paths Mtce Exp	I

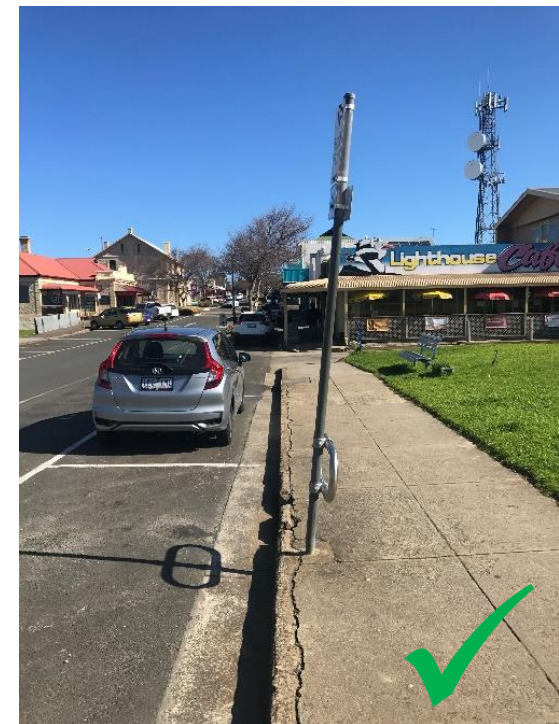


Townships, kerb and gutter, concrete footpath

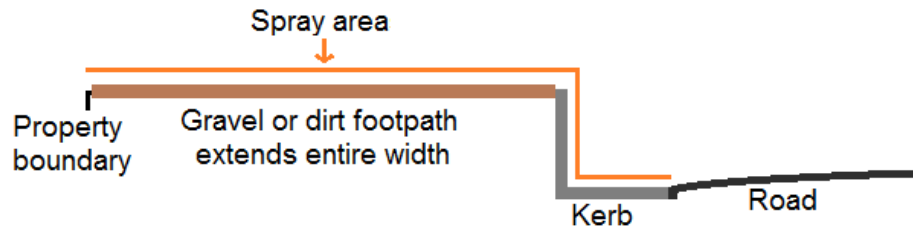


- Spray kerb and gutter and both sides of cement footpath

Kerbs & Paths - Op Exp	District
63117 - Kingscote Kerbs & Paths Mtce Exp	A
63119 - Penneshaw Kerbs & Paths Mtce Exp	B
63120 - Parndana Kerbs & Paths Mtce Exp	C
63123 - American River Kerbs & Paths Mtce Exp	F
63126 - Emu Bay Kerbs & Paths Mtce Exp	I



Townships, kerb and gutter, gravel or dirt footpath

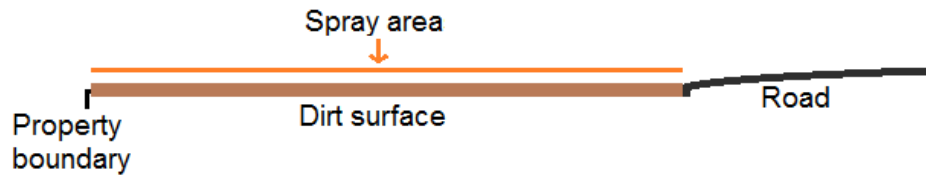


- Spray kerb and gutter and entire width of gravel or dirt

<u>Kerbs & Paths - Op Exp</u>	<u>District</u>
63117 - Kingscote Kerbs & Paths Mtce Exp	A
63119 - Penneshaw Kerbs & Paths Mtce Exp	B
63120 - Parndana Kerbs & Paths Mtce Exp	C
63123 - American River Kerbs & Paths Mtce Exp	F
63126 - Emu Bay Kerbs & Paths Mtce Exp	I



Townships, no kerb and gutter, no footpath

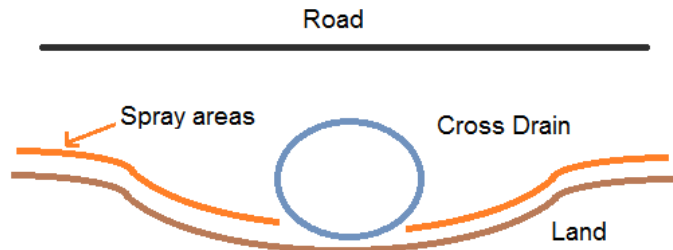


- Spray from road edge to property boundary

<u>Verge / Mowing & Slashing - Op Exp</u>	<u>District</u>
62900 - Western District Verge Mtce	1
62901 - Stokes District Verge Mtce	2
62902 - Newland District Verge Mtce	3
62903 - Wisanger Verge Mtce	4
62904 - MacGillivray Verge Mtce	5
62905 - Redbanks District Verge Mtce	6
62906 - Dudley Verge Mtce	7
62907 - Kingscote Verge Mtce	A
62908 - Brownlow Verge Mtce	A
62909 - Penneshaw Verge Mtce	B
62910 - Parndana Verge Mtce	C
62911 - Vivonne Bay Verge Mtce	D
62912 - Nepean Bay Verge Mtce	E
62913 - American River Verge Mtce	F
62914 - Island Beach Verge Mtce	G
62915 - Baudin Beach (incl American Beach) Verge Mtce	H
62916 - Emu Bay Verge Mtce	I



Townships, Side Entry Pits

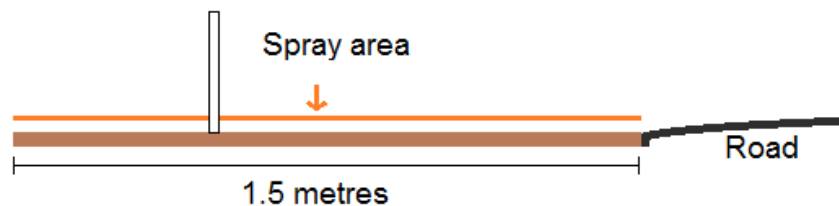


- Keep entry and exit point clear and free of weeds
- Approx 0.5m on either side of drain leading into side entry pit

<u>Drainage - Op Exp</u>	<u>Dis</u>
51099 - Western District Stormwater Drainage Infrastructure Mtce	
51100 - Stokes Stormwater Drainage Mtce & Op Exp	
51101 - Newland Stormwater Drainage Mtce & Op Exp	
51102 - Wisanger Stormwater Drainage Mtce & Op Exp	
51103 - MacGillivray Stormwater Drainage Mtce & Op Exp	
51104 - Redbanks Stormwater Drainage Mtce & Op Exp	
51105 - Dudley Stormwater Drainage Infrastructure Mtce	
51106 - Kingscote Stormwater Drainage Infrastructure Mtce	
51107 - Brownlow Stormwater Drainage Infrastructure Mtce	
51108 - Penneshaw Stormwater Drainage Infrastructure Mtce	
51109 - Parndana Stormwater Drainage Infrastructure Mtce	
51110 - Vivonne Bay Stormwater Drainage Infrastructure Mtce	
51111 - Nepean Bay Stormwater Drainage Infrastructure Mtce	
51112 - American River Stormwater Drainage Infrastructure Mtce	
51113 - Island Beach Stormwater Drainage Infrastructure Mtce	
51114 - Baudin Beach Stormwater Drainage Infrastructure Mtce	
51115 - Emu Bay Stormwater Drainage Infrastructure Mtce	



Outside Townships, Open Verge



- Spray from road edge to approximately 500mm past the white post.
- Average total width is 1.5 metres

<u>Verge / Mowing & Slashing - Op Exp</u>	<u>District</u>
62900 - Western District Verge Mtce	1
62901 - Stokes District Verge Mtce	2
62902 - Newland District Verge Mtce	3
62903 - Wisanger Verge Mtce	4
62904 - MacGillivray Verge Mtce	5
62905 - Redbanks District Verge Mtce	6
62906 - Dudley Verge Mtce	7
62907 - Kingscote Verge Mtce	A
62908 - Brownlow Verge Mtce	A
62909 - Penneshaw Verge Mtce	B
62910 - Parmdana Verge Mtce	C
62911 - Vivonne Bay Verge Mtce	D
62912 - Nepean Bay Verge Mtce	E
62913 - American River Verge Mtce	F
62914 - Island Beach Verge Mtce	G
62915 - Baudin Beach (incl American Beach) Verge Mtce	H
62916 - Emu Bay Verge Mtce	I



Within or Outside Townships, Cross Drains

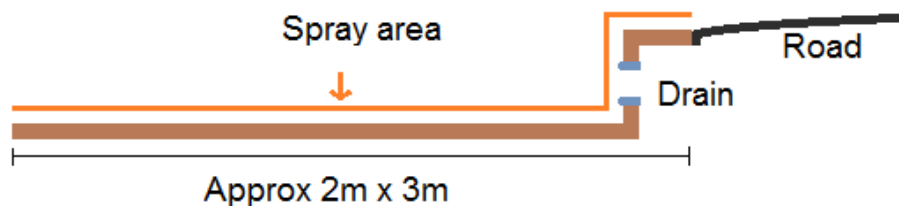


- Spraying standard 1.5 metres from road as per open verges should cover most cross drains.
- However need to check as working to determine if this is not sufficient and cross drains may require additional spraying.

<u>Drainage - Op Exp</u>	<u>Distric</u>
51099 - Western District Stormwater Drainage Infrastructure Mtce	1
51100 - Stokes Stormwater Drainage Mtce & Op Exp	2
51101 - Newland Stormwater Drainage Mtce & Op Exp	3
51102 - Wisanger Stormwater Drainage Mtce & Op Exp	4
51103 - MacGillivray Stormwater Drainage Mtce & Op Exp	5
51104 - Redbanks Stormwater Drainage Mtce & Op Exp	6
51105 - Dudley Stormwater Drainage Infrastructure Mtce	7
51106 - Kingscote Stormwater Drainage Infrastructure Mtce	A
51107 - Brownlow Stormwater Drainage Infrastructure Mtce	A
51108 - Penneshaw Stormwater Drainage Infrastructure Mtce	B
51109 - Parmdana Stormwater Drainage Infrastructure Mtce	C
51110 - Vivonne Bay Stormwater Drainage Infrastructure Mtce	D
51111 - Nepean Bay Stormwater Drainage Infrastructure Mtce	E
51112 - American River Stormwater Drainage Infrastructure Mtce	F
51113 - Island Beach Stormwater Drainage Infrastructure Mtce	G
51114 - Baudin Beach Stormwater Drainage Infrastructure Mtce	H
51115 - Emu Bay Stormwater Drainage Infrastructure Mtce	I



Within or Outside Townships, Large Drains

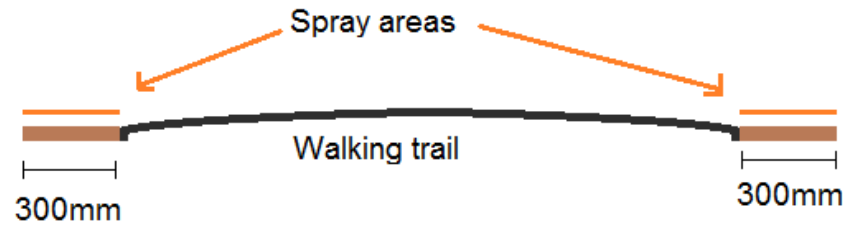


- Large drains (ie 2 near Frenchman’s Rock in Penneshaw) will require individual assessment
- Each will need to be inspected to determine if the area can be mowed or whipper snipped.
- If not, an area of approximately 2m x 3m will need to be sprayed around the drain

Drainage - Op Exp	District
51099 - Western District Stormwater Drainage Infrastructure Mtce	1
51100 - Stokes Stormwater Drainage Mtce & Op Exp	2
51101 - Newland Stormwater Drainage Mtce & Op Exp	3
51102 - Wisanger Stormwater Drainage Mtce & Op Exp	4
51103 - MacGillivray Stormwater Drainage Mtce & Op Exp	5
51104 - Redbanks Stormwater Drainage Mtce & Op Exp	6
51105 - Dudley Stormwater Drainage Infrastructure Mtce	7
51106 - Kingscote Stormwater Drainage Infrastructure Mtce	A
51107 - Brownlow Stormwater Drainage Infrastructure Mtce	A
51108 - Penneshaw Stormwater Drainage Infrastructure Mtce	B
51109 - Parndana Stormwater Drainage Infrastructure Mtce	C
51110 - Vivonne Bay Stormwater Drainage Infrastructure Mtce	D
51111 - Nepean Bay Stormwater Drainage Infrastructure Mtce	E
51112 - American River Stormwater Drainage Infrastructure Mtce	F
51113 - Island Beach Stormwater Drainage Infrastructure Mtce	G
51114 - Baudin Beach Stormwater Drainage Infrastructure Mtce	H
51115 - Emu Bay Stormwater Drainage Infrastructure Mtce	I



Townships, Walking Trail



- At this stage need to spray 300mm each side of the seal
- If the path is breaking up, may need to also spray path itself

Parks & Gardens Mtce - Op Exp	District
58283 - West District Parks & Gardens Mtce & Op Exp	1
5828400003 - Western River Parks & Gdns Mtce Op Exp	2
5828400001 - Stokes Bay Parks & Gdns Mtce Op Exp	2
5828400002 - Snelling Beach Parks & Gdns Mtce Op Exp	2
58285 - Newland Parks & Gdns Mtce & Op Exp	3
58286 - Wisanger Pks & Gdns Op Exp	4
58288 - Redbanks Parks & Gdns Mtce & Op Exp	6
58289 - Dudley Parks & Gdns Mtce & Op Exp	7
58290 - Kingscote Pks & Gdns Op Exp	A
58291 - Brownlow Pks & Gns Op Exp	A
58292 - Penneshaw Parks & Gdns Mtce & Op Exp	B
58293 - Parndana Pks & Gdns Mtce & Op Exp	C
58294 - Vivonne Bay Pks & Gdns Mtce & Op Exp	D
58296 - Nepean Bay Pks & Gdns Mtce & Op Exp	E
58297 - American River Pks & Gdns Mtce & Op Exp	F
58300 - Baudin Beach Pks & Gdns Mtce & Op Exp	H
58301 - Emu Bay Pks & Gdns Op Exp	I



Campgrounds

- Spray garden beds if needed
- Blanket spray across open areas

<u>Campgrounds - Op Exp</u>	<u>District</u>
30076 - Redbanks Camping Grounds Op Exp (Browns Beach)	6
30077 - Emu Bay Camping Grounds Op Exp	I
30078 - Vivonne Bay Camping Grounds Op Exp	D
30079 - American River Camping Grounds Op Exp	F
30084 - Western District Campgrounds Op Exp	1
30086 - Wisanger Campgrounds Op Exp	4
3008000001 - Stokes Bay Camping Grounds Op Exp	2
3008000002 - Snelling Beach Camping Grounds Op Exp	2
3008000003 - Western River Camping Grounds Op Exp	2



Cemeteries

Spray area varies for each cemetery

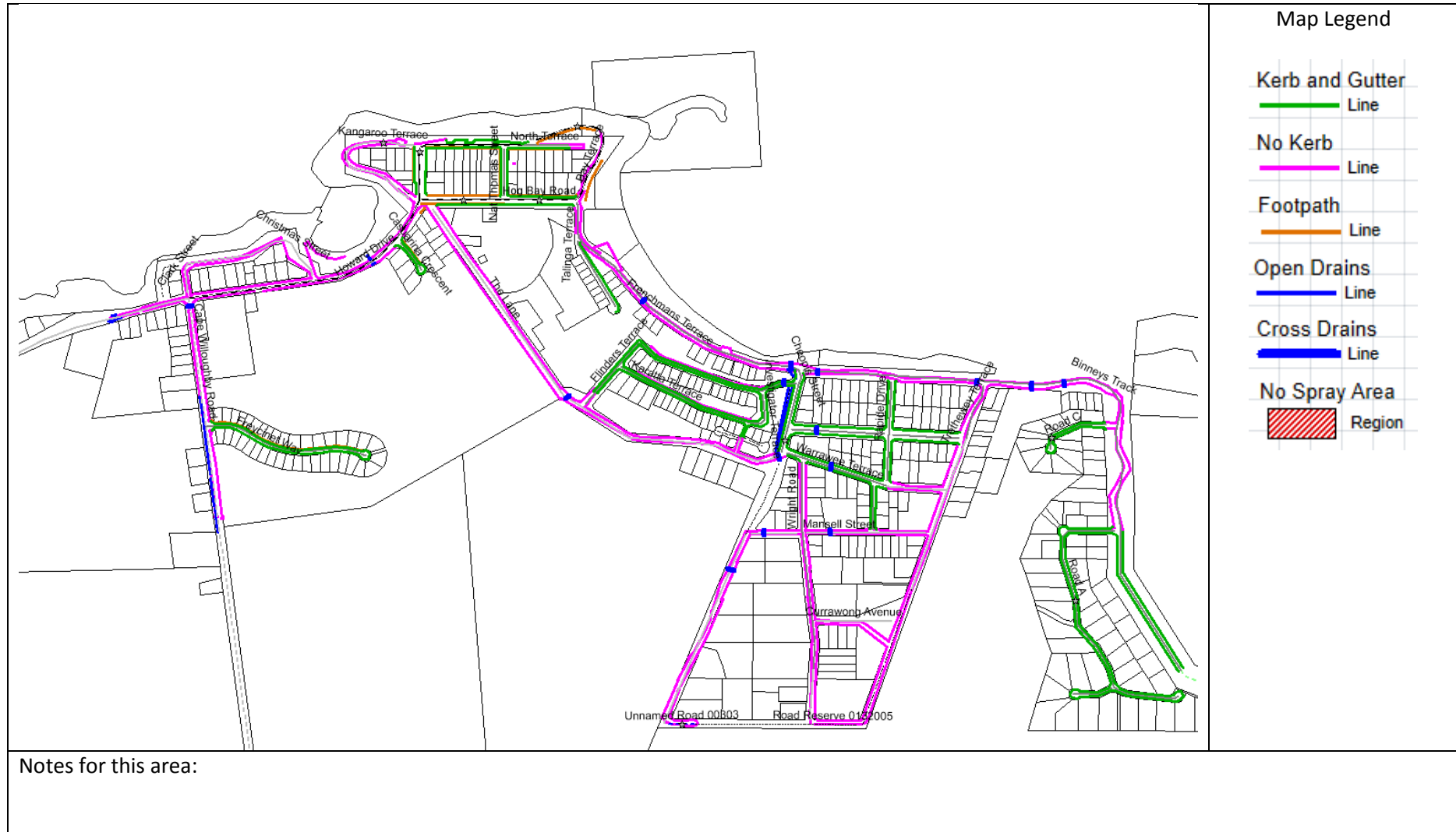
- Penneshaw and American River:
 - spray entire area inside fence line
- Kingscote:
 - spray all non-lawned areas and also the edges of the lawned areas

Cemeteries - Op Exp	District
35083 - Kingscote Cemetery	A
35084 - Penneshaw Cemetery	B
35085 - American River Cemetery	G

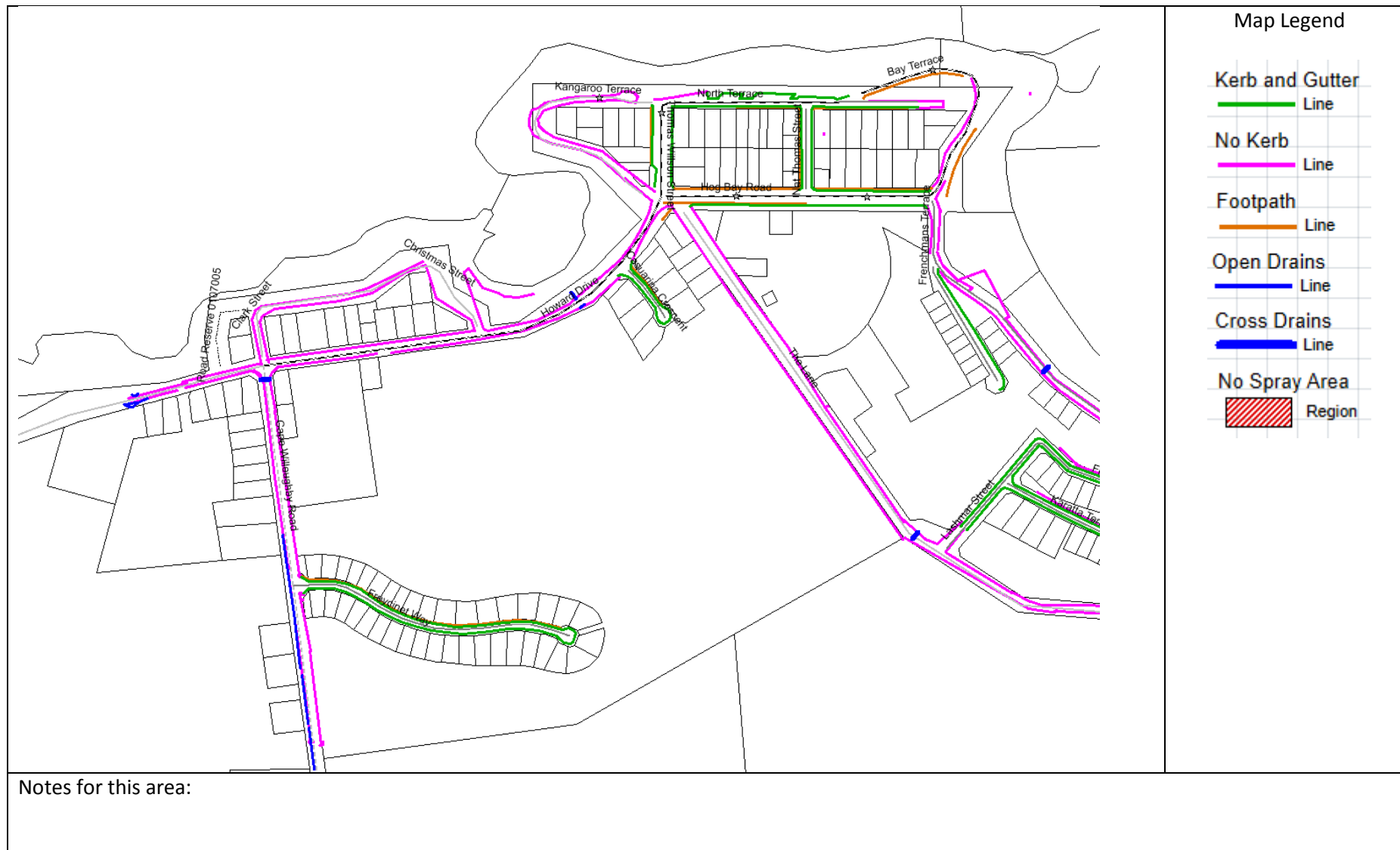


Maps

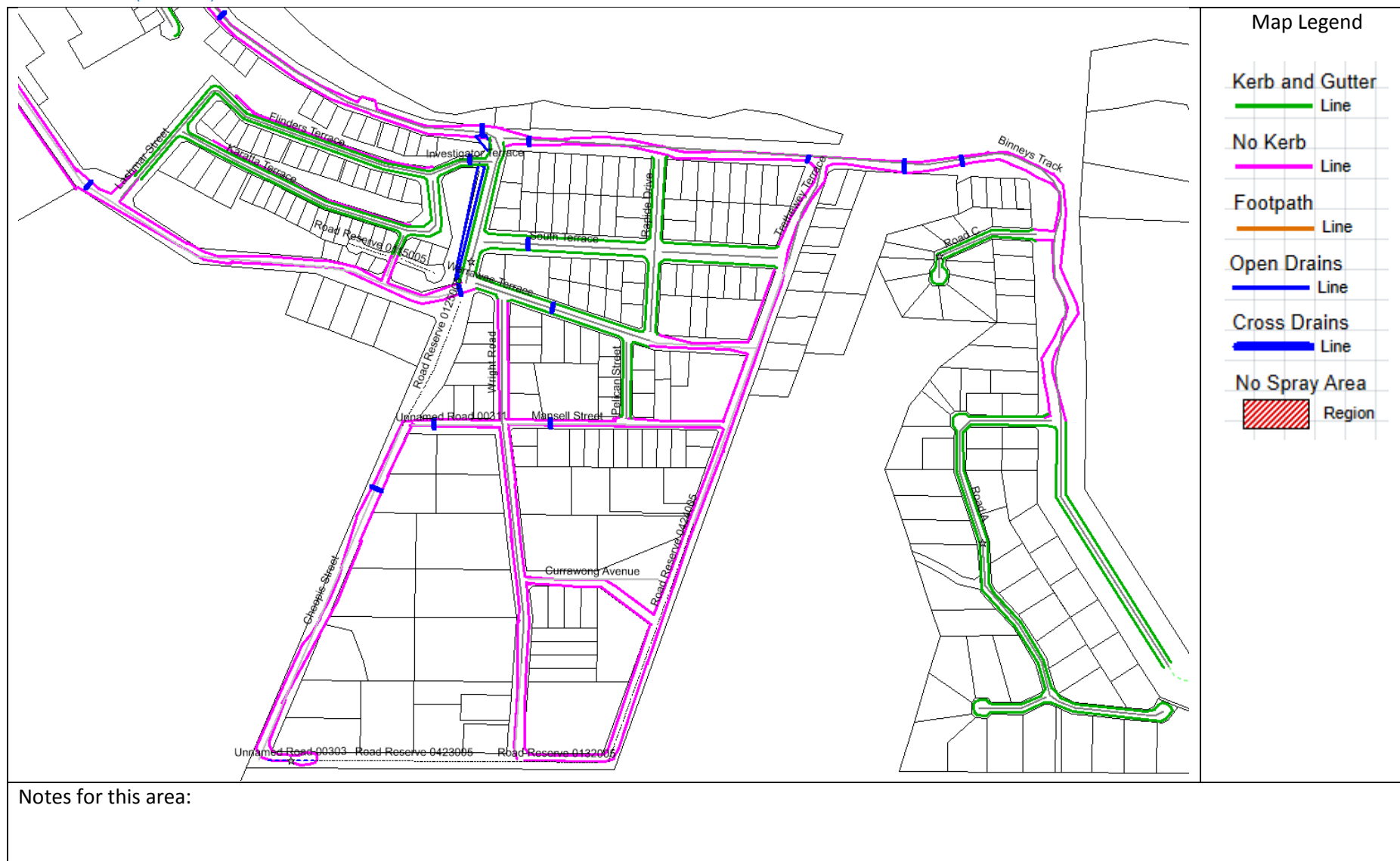
Penneshaw (full township)



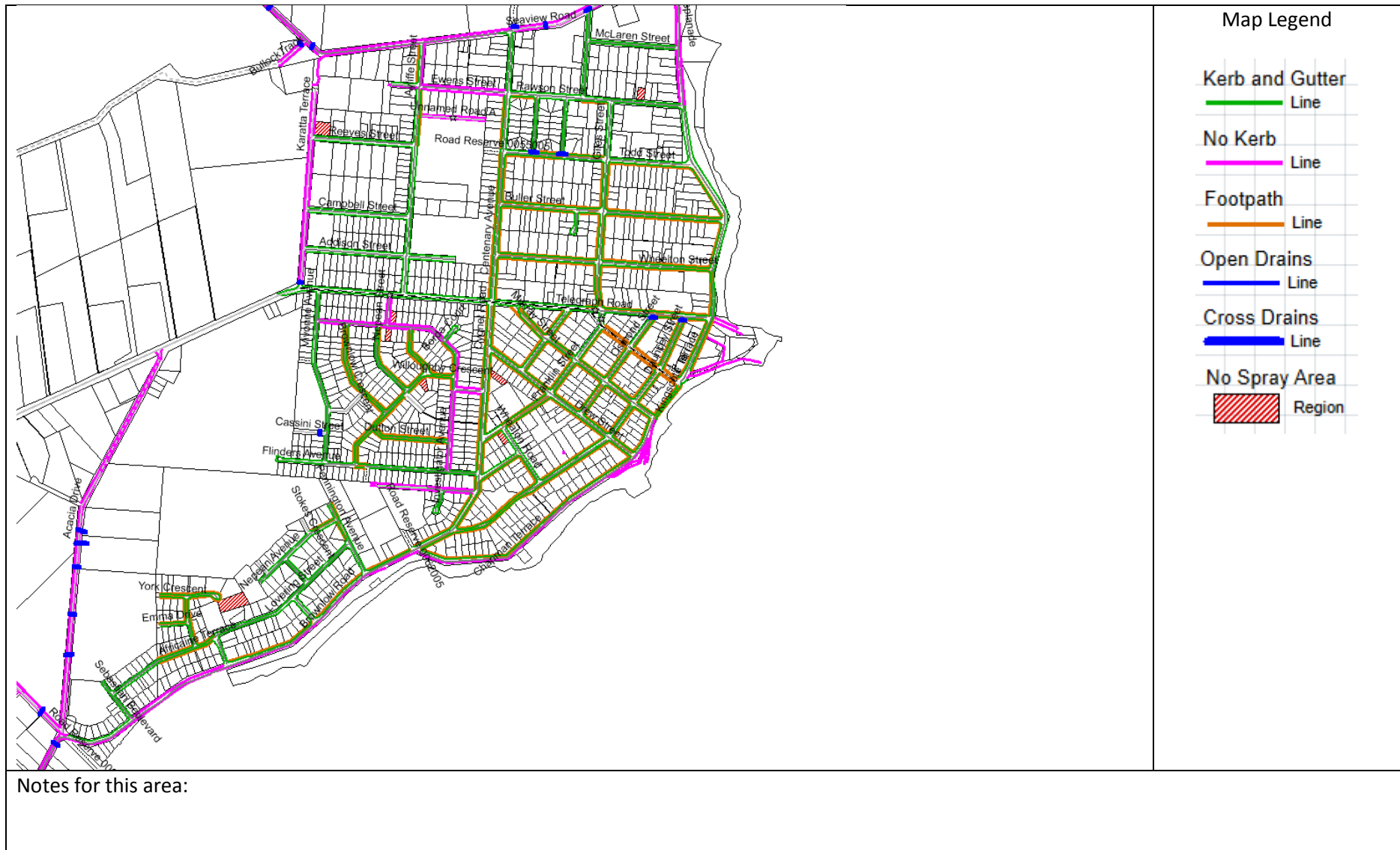
Penneshaw (Area 1)



Penneshaw (Area 2)



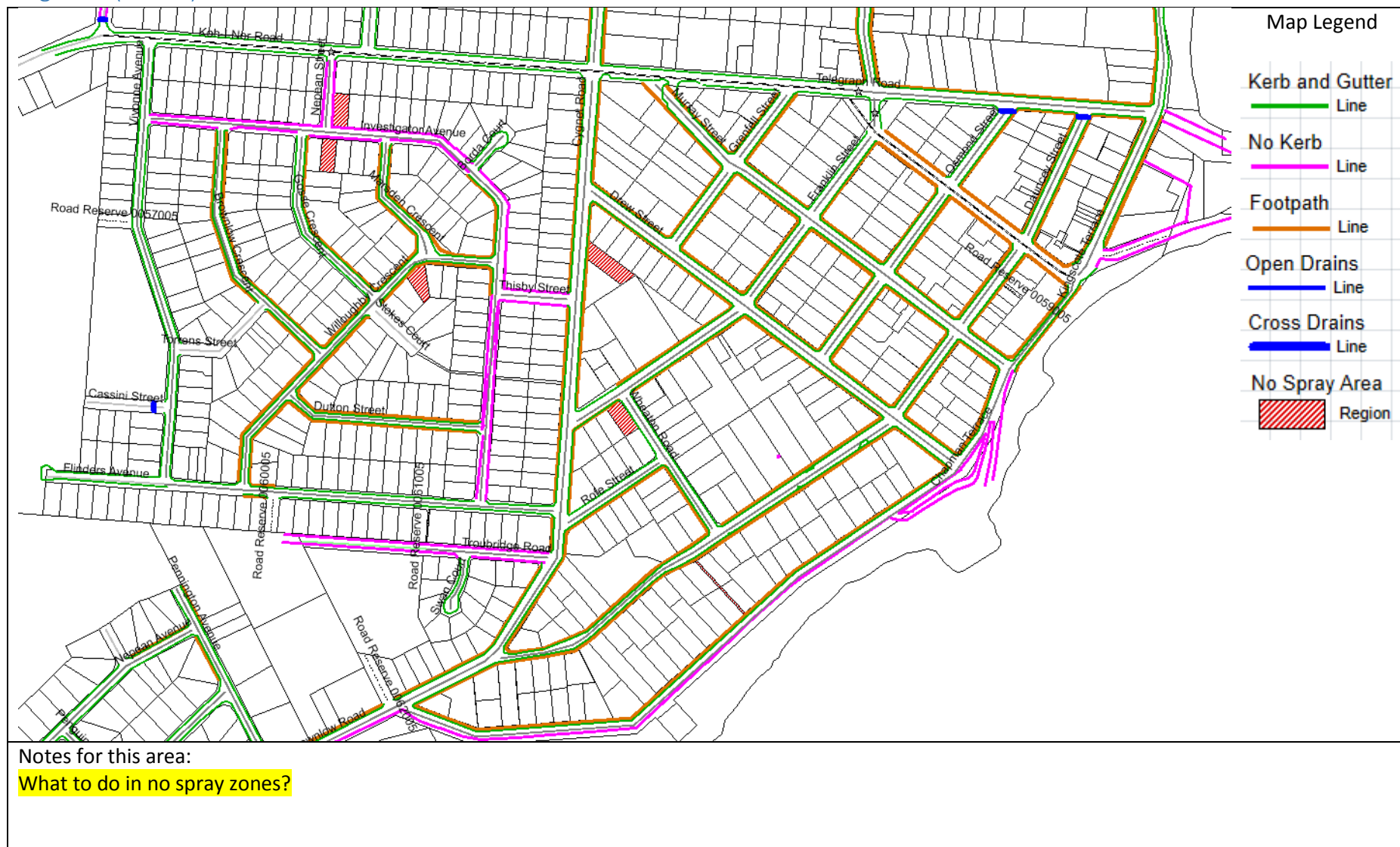
Kingscote (Full Township)



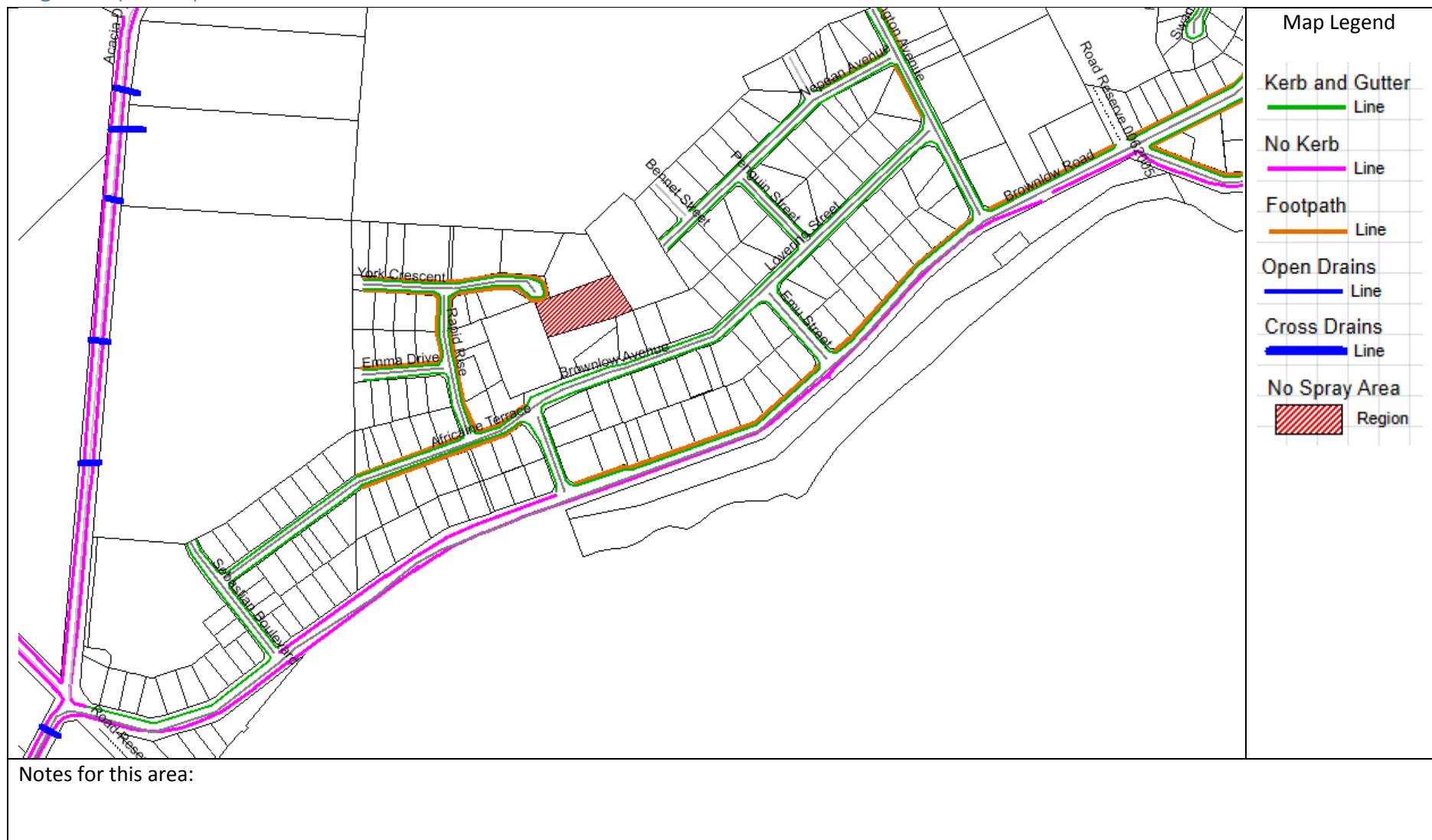
Kingscote (Area 1)



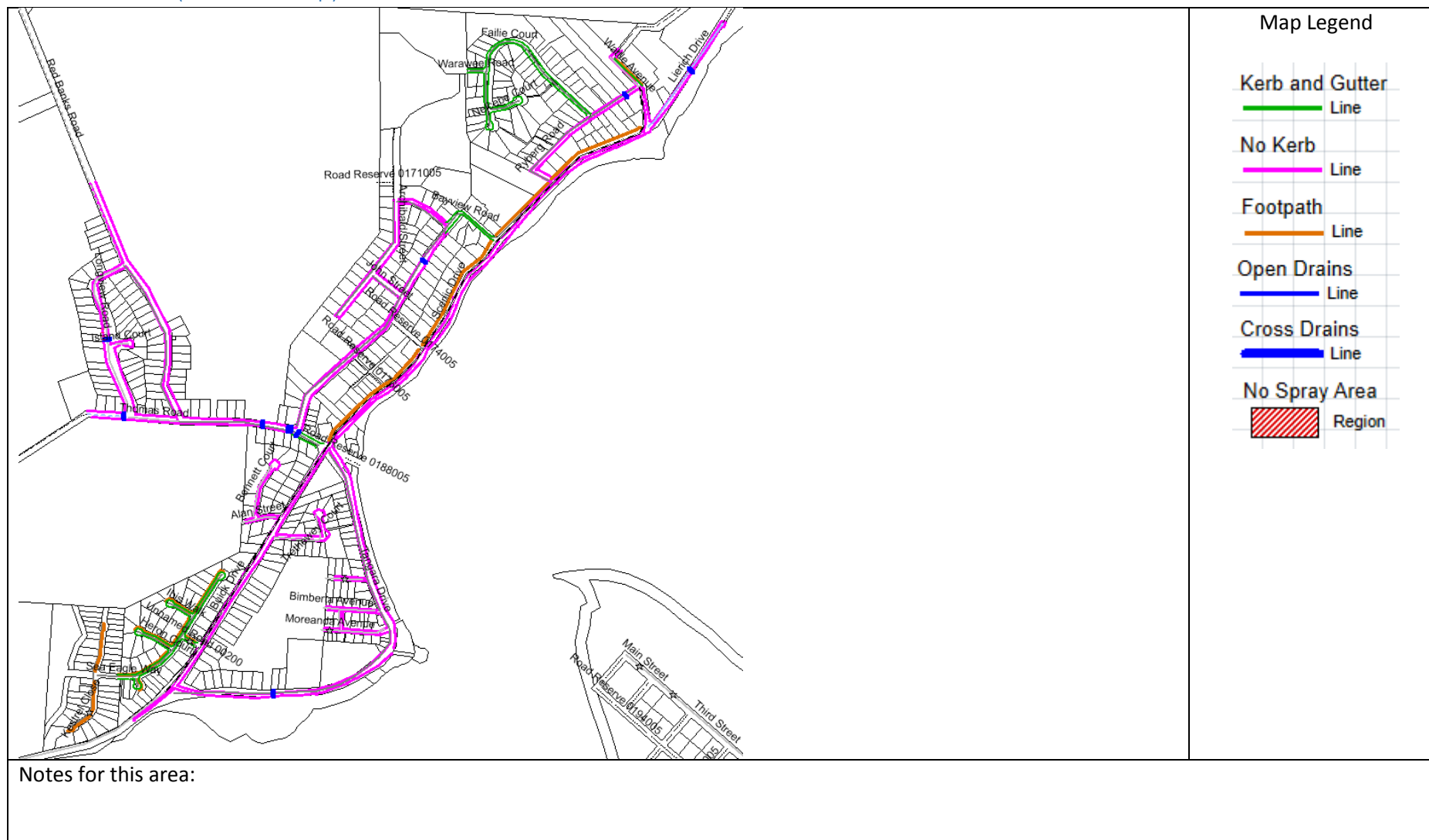
Kingscote (Area 2)



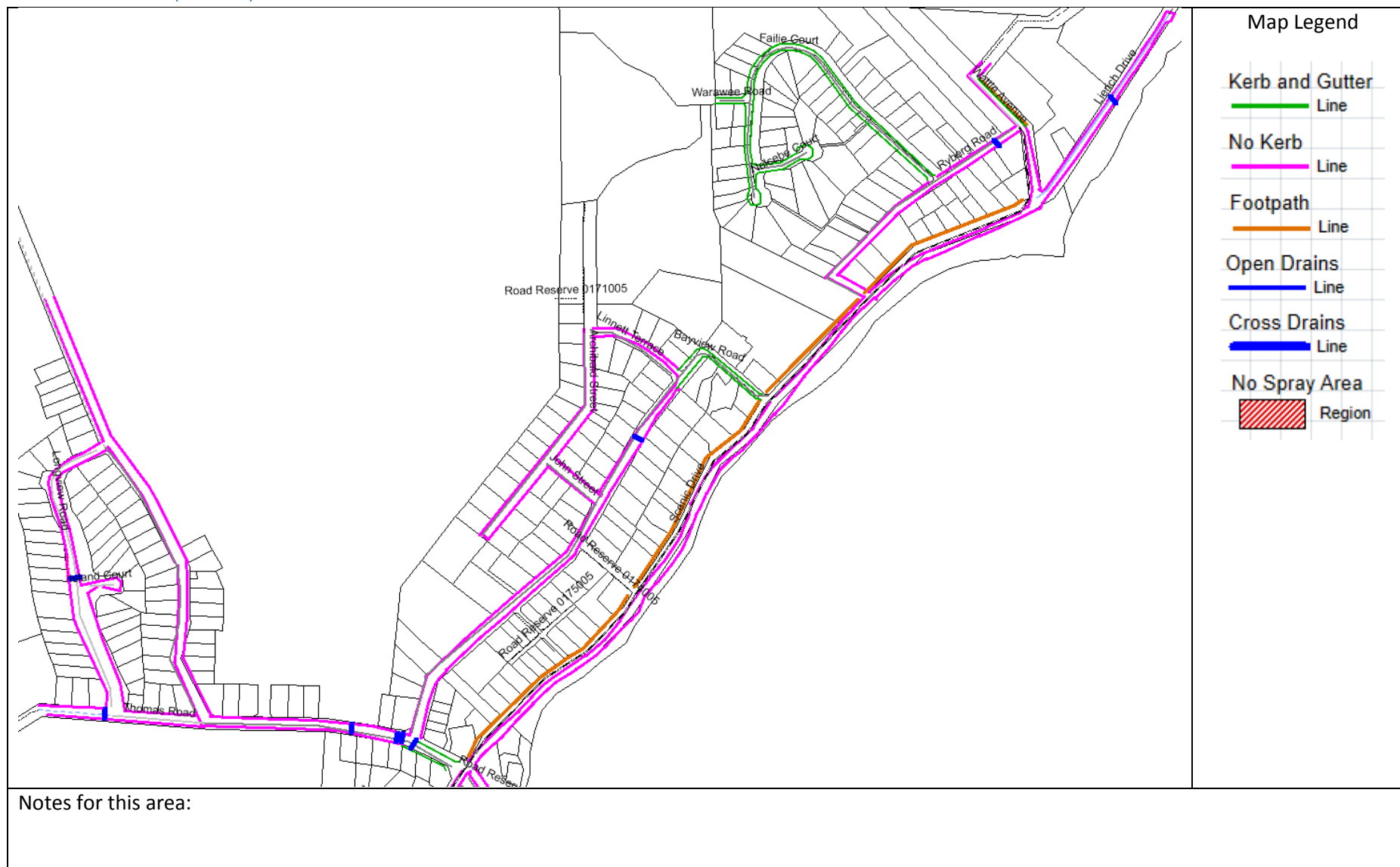
Kingscote (Area 3)



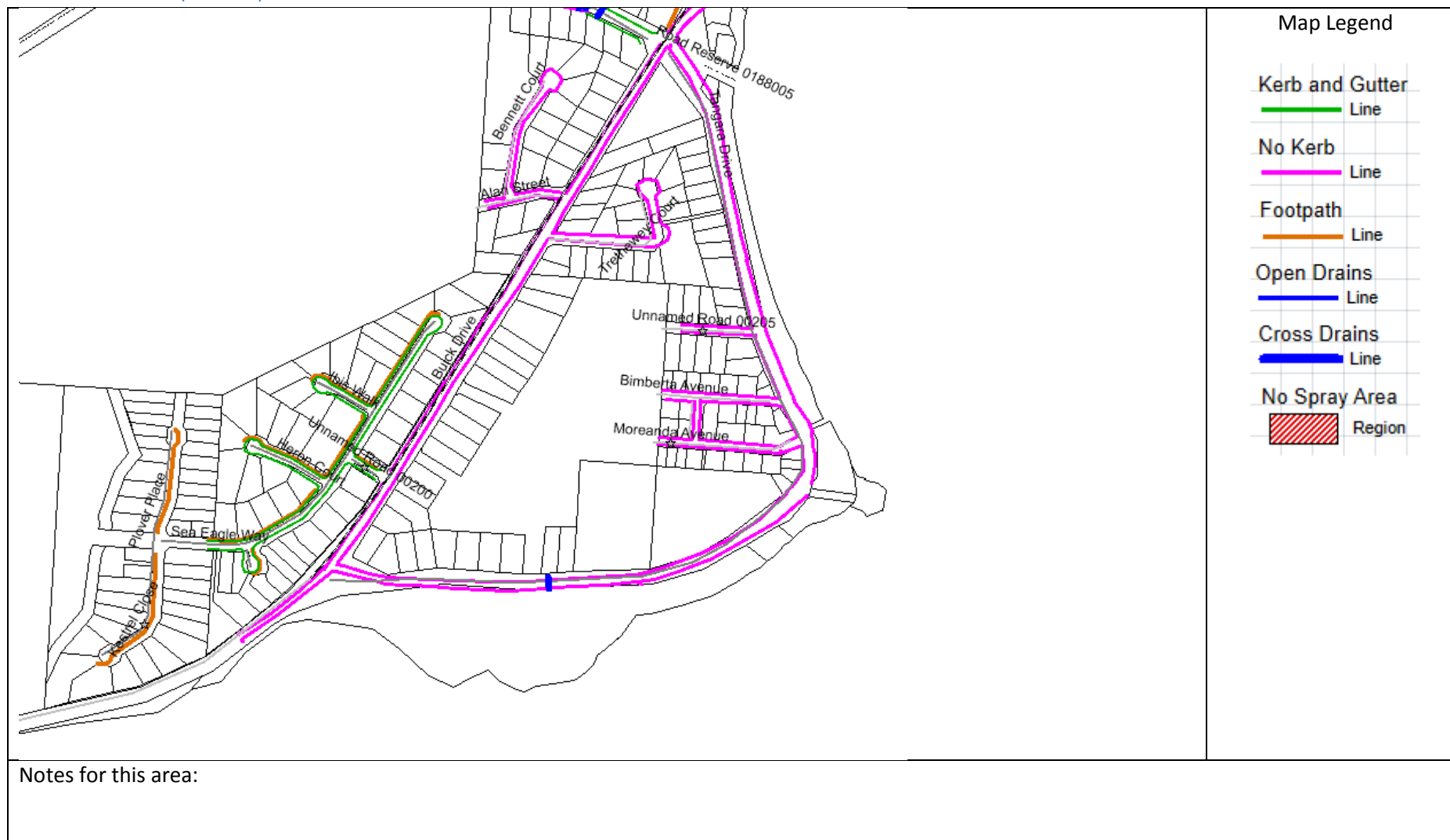
American River (Full Township)



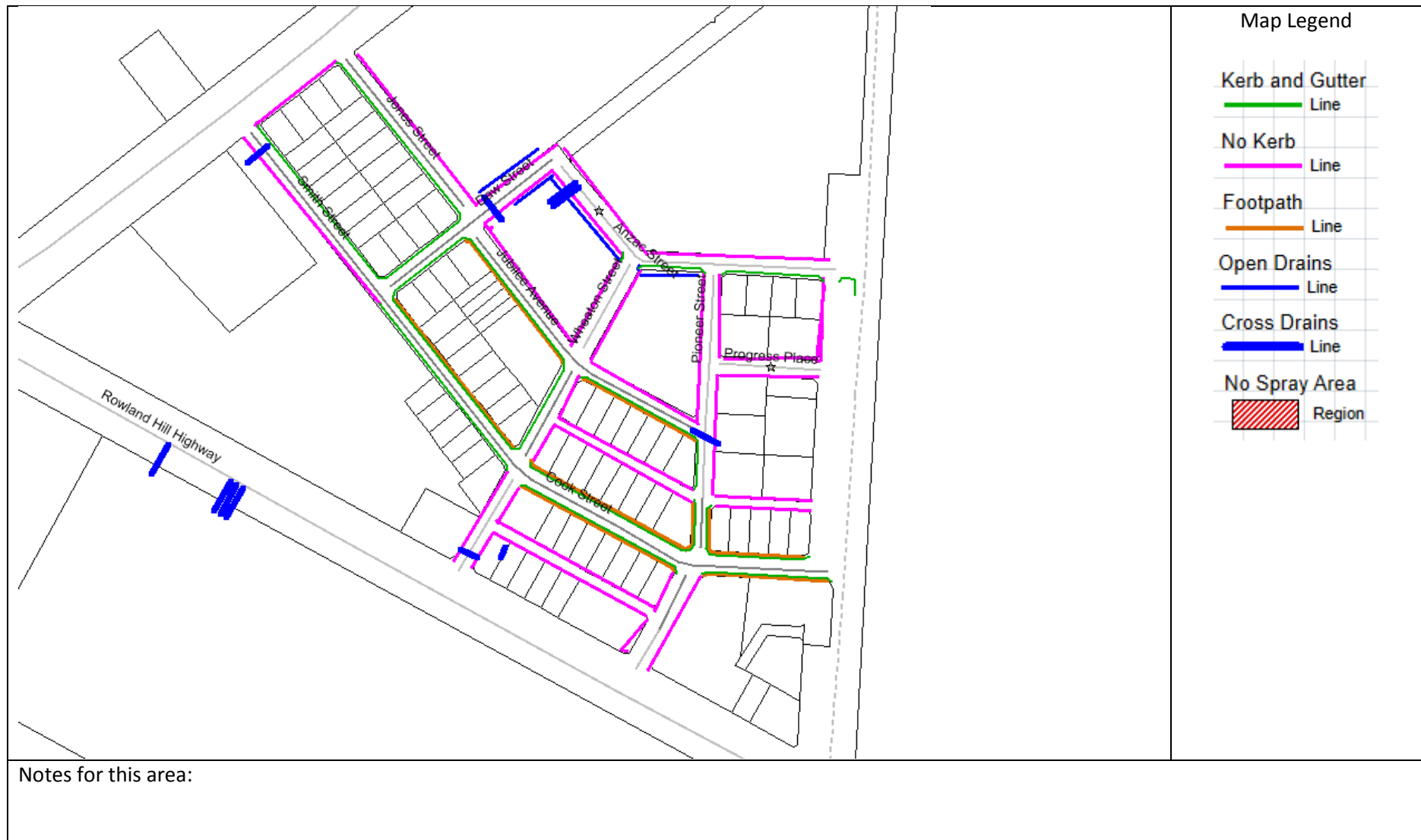
American River (Area 1)



American River (Area 2)



Parndana (Full Township)



Emu Bay (Full Township)



Brownlow (Full Township)



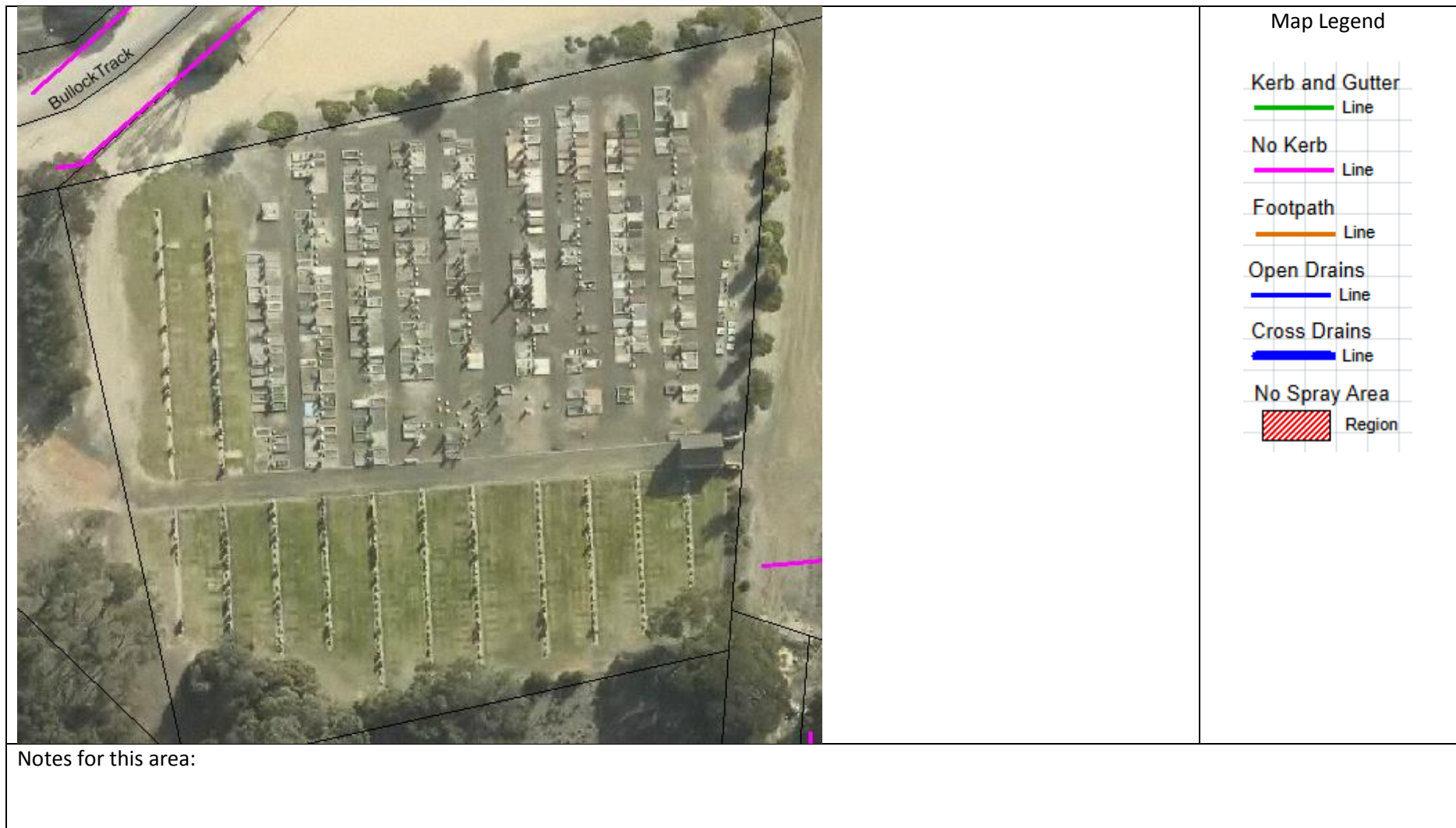
Baudin Beach (Full Township)



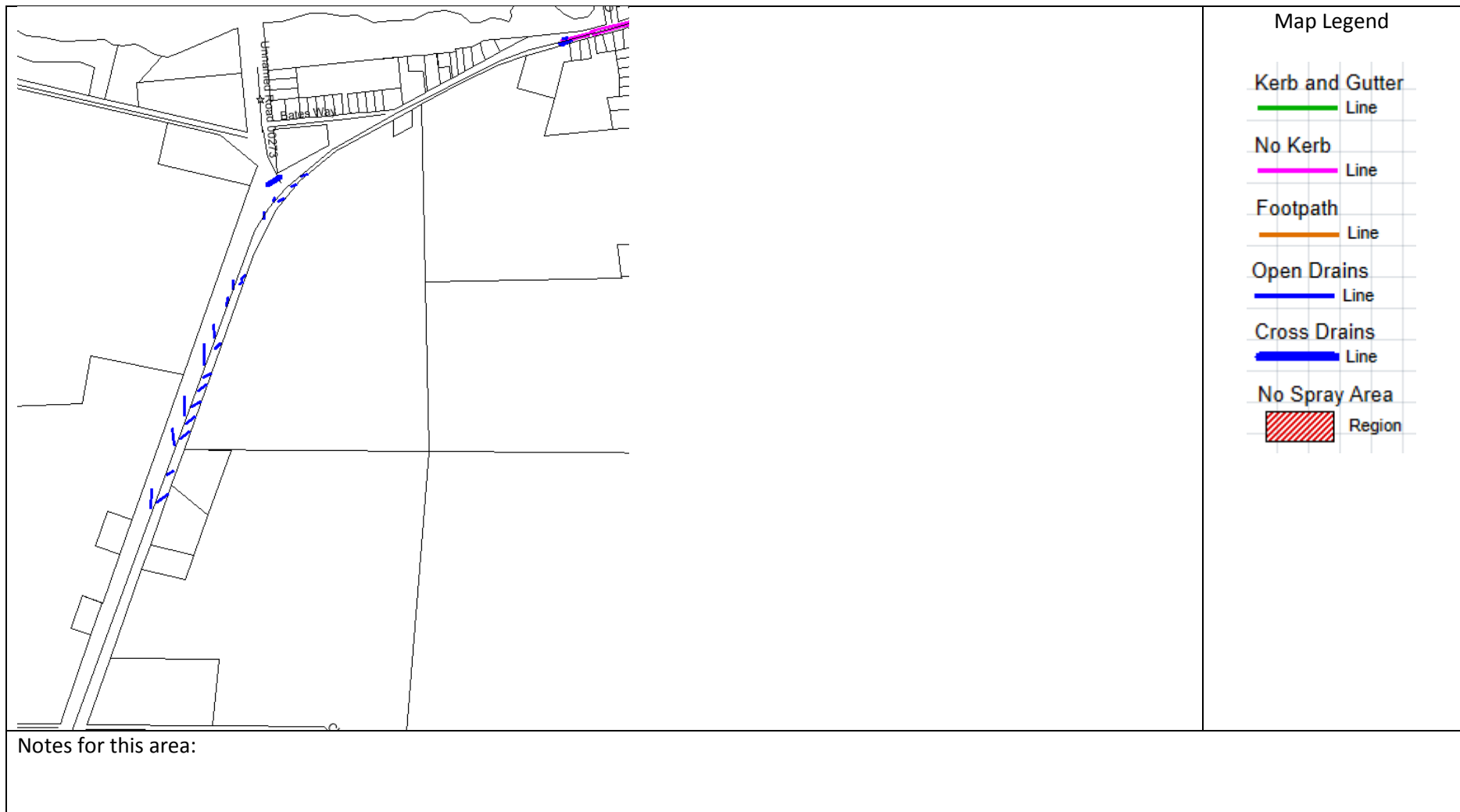
Penneshaw (Cemetery)



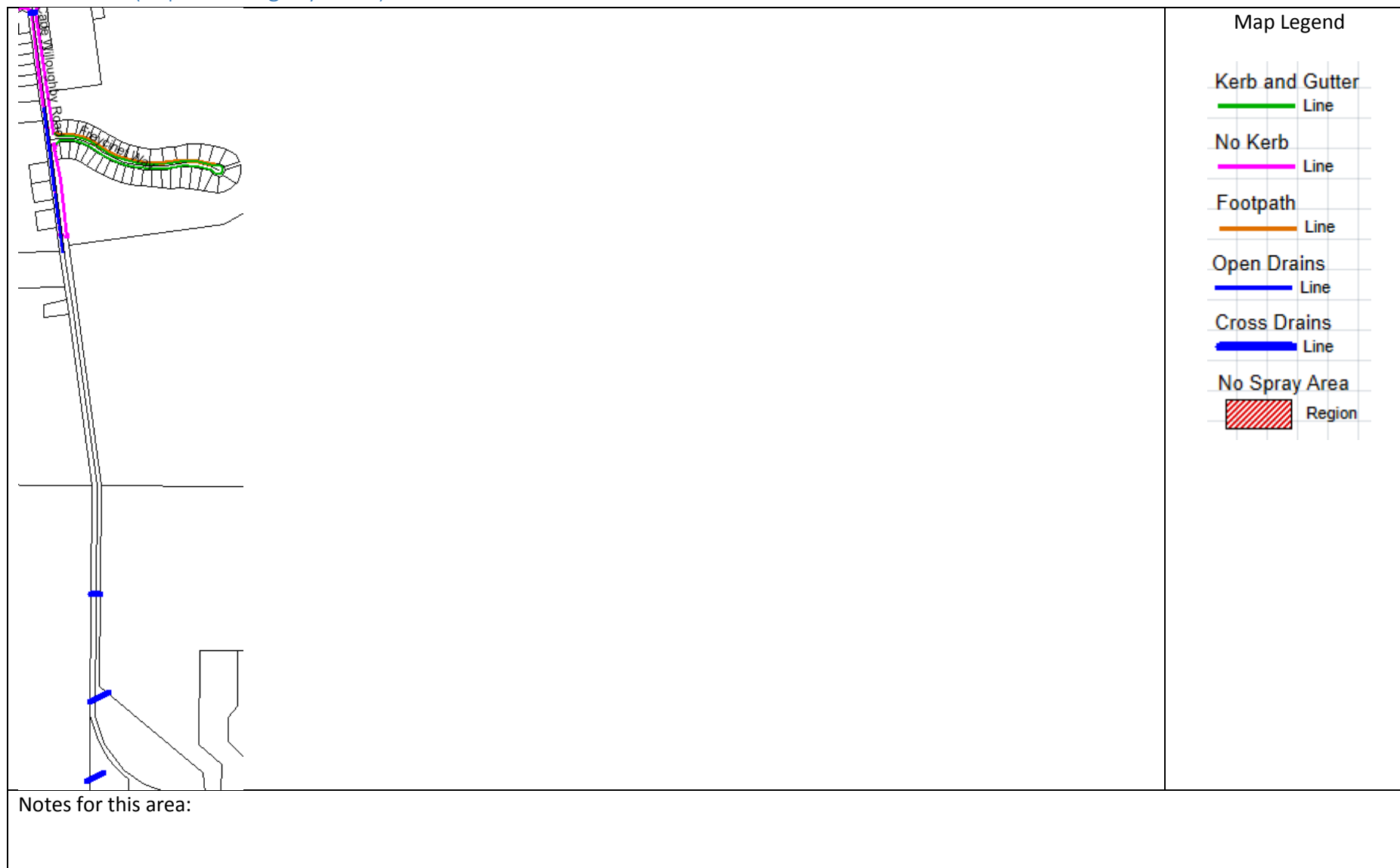
Kingscote (Cemetery)



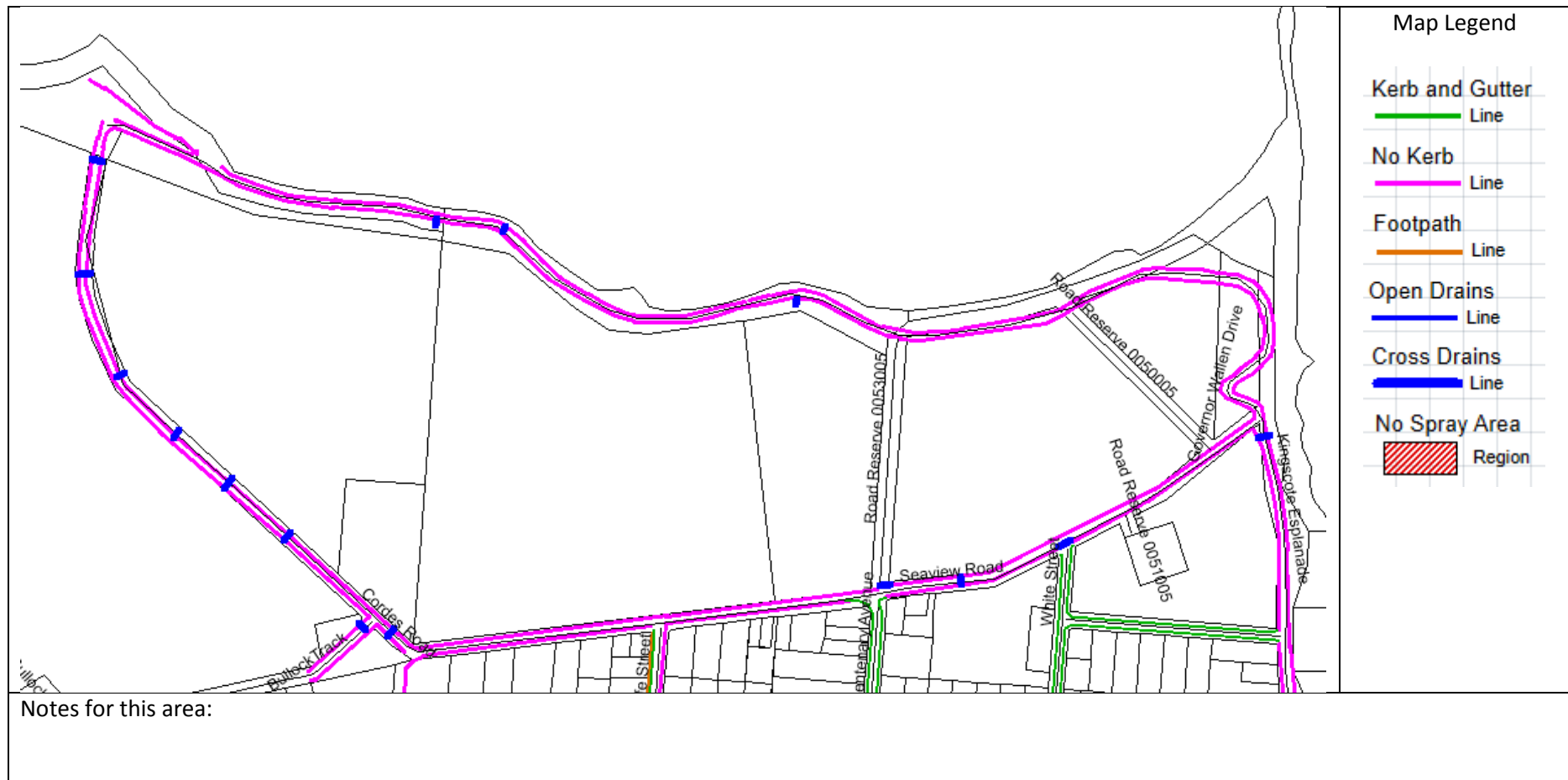
Penneshaw (Hog Bay Road)



Penneshaw (Cape Willoughby Road)



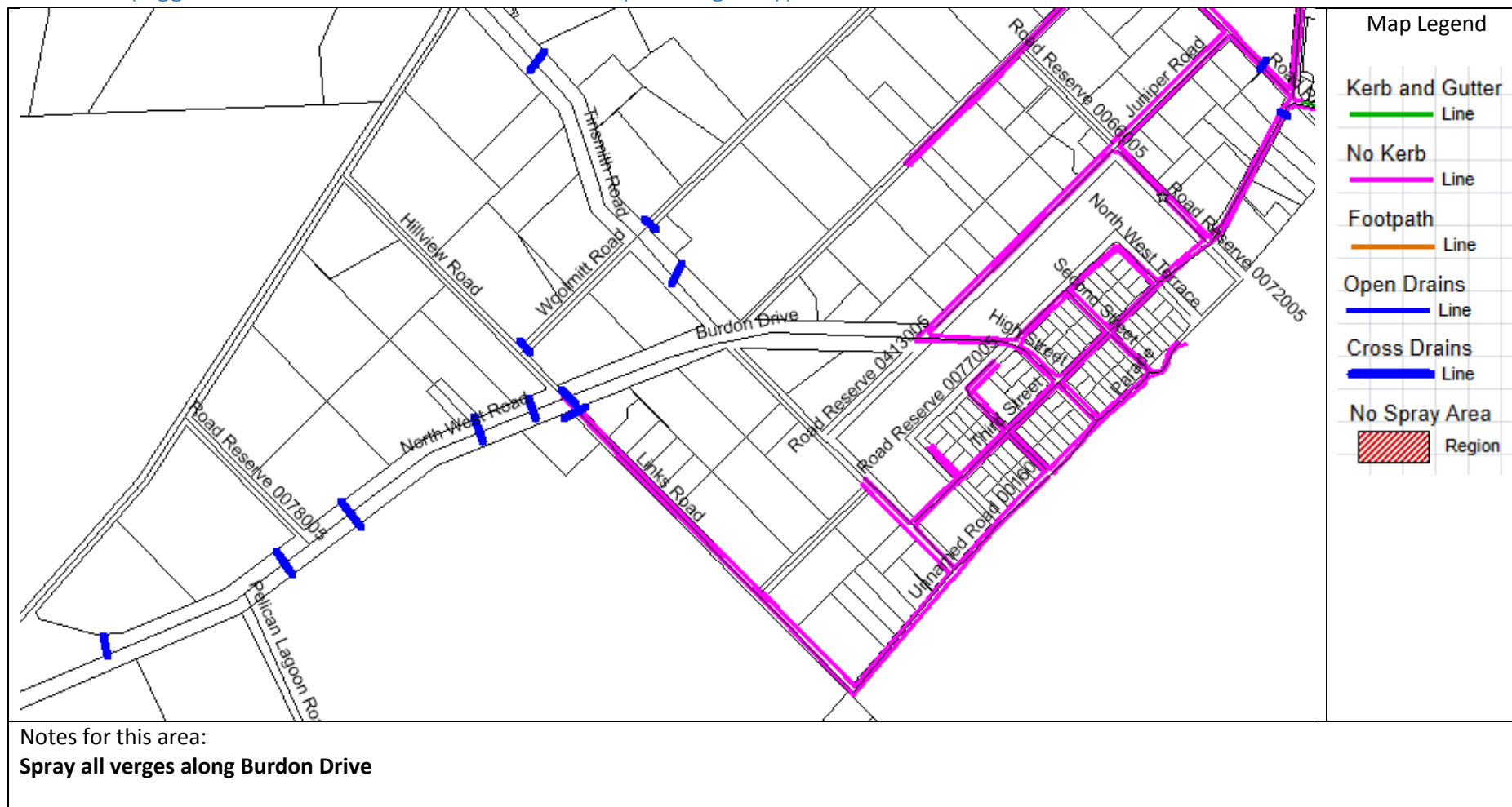
Kingscote (Cordes Rd, Governor Wallen Drive, Seaview Road)



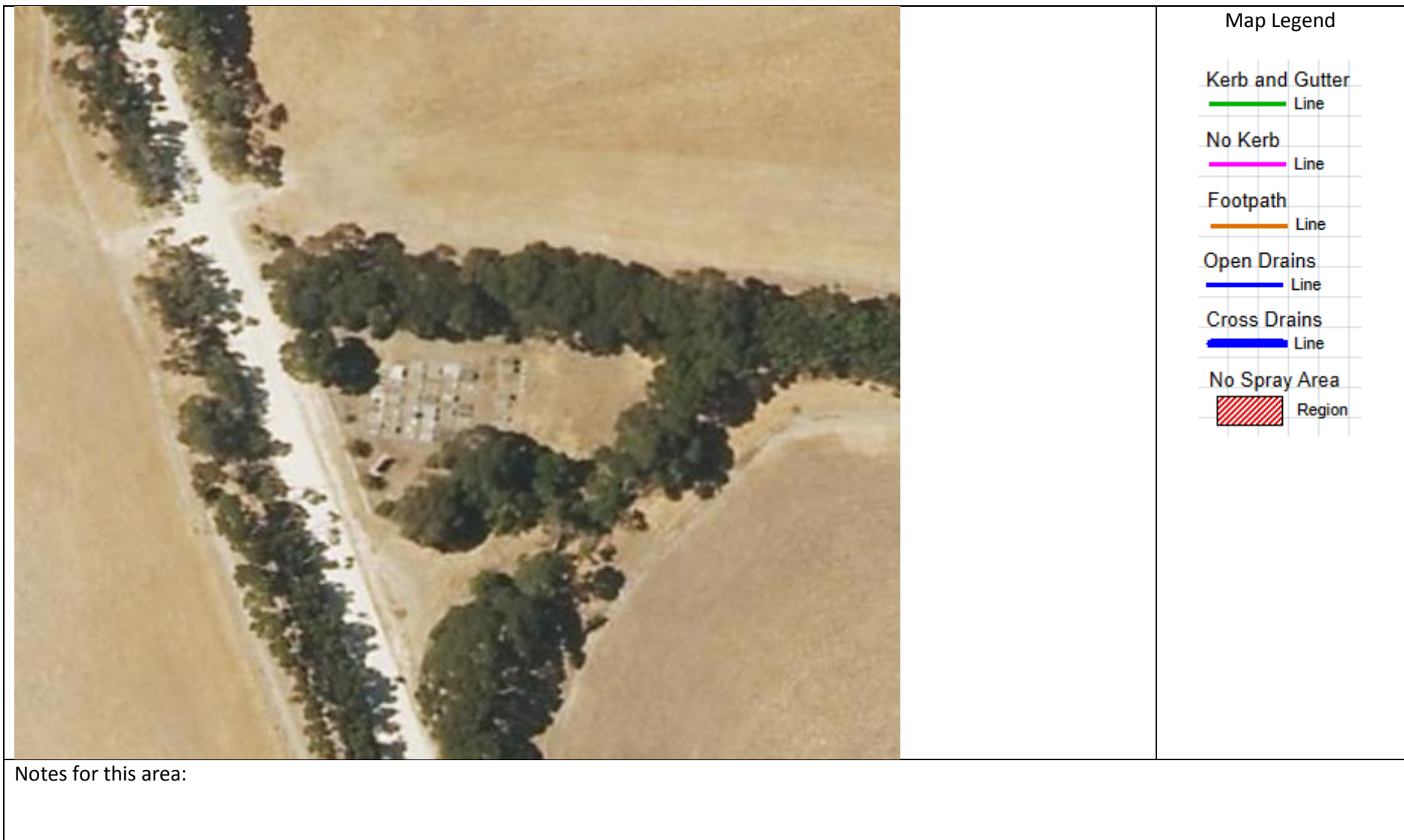
Kingscote (Walking Trail)

<p>Map not yet available</p>	<p>Map Legend</p> <ul style="list-style-type: none">Kerb and Gutter  LineNo Kerb  LineFootpath  LineOpen Drains  LineCross Drains  LineNo Spray Area  Region
<p>Notes for this area:</p>	

Brownlow (Tiggemann's Corner to Burdon Drive to Playford Highway)



American River (Cemetery)



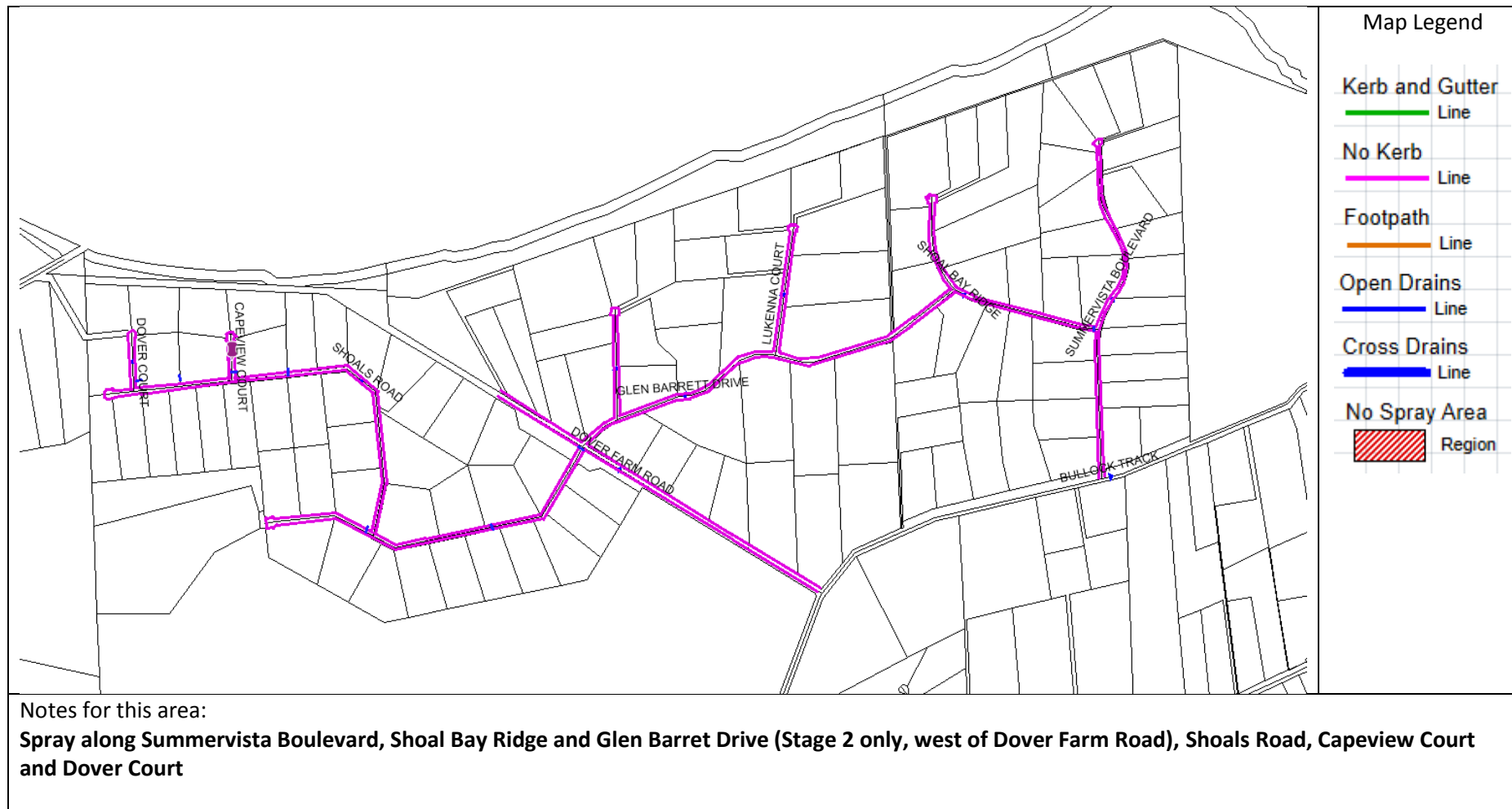
Vivonne Bay (Campground)



Western River (Campground)



Dover Farm



Duck Lagoon Campground

		<p>Map Legend</p> <ul style="list-style-type: none">Kerb and Gutter Line No Kerb Line Footpath Line Open Drains Line Cross Drains Line No Spray Area Region 
<p>Notes for this area:</p>		