14 REFERENCES

Bettink, K and Keighery, G (2008) Environmental weed census and prioritisation, Swan NRM Region Swan Catchment Council (SCC) and Department of Environment and Conservation (DEC) Perth Western Australia

Bolland, M. (1998) *Soils of the Swan Coastal Plain.* Department of Agriculture. Bunbury, Western Australia.

Bureau of Meteorology (BOM) (2017) Climate Data online Accessed March 2017 http://www.bom.gov.au/climate/data/ Government of Western Australia, Perth.

Department of Environment and Conservation (DEC) (2011) *Standard Operating Procedure Techniques for mapping weed distribution and cover in bushland and wetlands* Government of Western Australia, Perth

Department of Primary Industries and Regional Development (DPIRD) (2017) Natural Resource Management Shared Land Information Platform. Accessed March 2017 http://maps.agric.wa.gov.au/nrminfo/framesetup.asp Government of Western Australia, Perth.

Department of Water (DoW) (2017a) Hydrogeological Atlas. Accessed March 2017 http://atlases.water.wa.gov.au/idelve/hydroatlas/ Government of Western Australia, Perth.

Department of Water (DoW) (2017b) Perth Groundwater Map Accessed March 2017 https://maps.water.wa.gov.au/#/webmap/gwm Government of Western Australia, Perth

Environmental Protection Authority (EPA) (2004) *Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia* - Guidance Statement No. 51. Perth, Western Australia.

Glevan Consulting (2015) Holmes Street Bushland North – Phytophthora Dieback occurrence assessment – Version 2.0. Unpublished report prepared for the City of Gosnells, prepared by Glevan Consulting.

Hill, A.L., Semeniuk, C.A., Semeniuk, V. and Del Marco, A. (1996) Wetlands of the Swan Coastal Plain. Vol. 2A Wetland Mapping, Classification and Evaluation Main Report. Perth, Western Australia.

Natural Area Consulting (NAC) (2016) Report – Garden Street Road Reserve Environmental Assessment Report 2015 9 16 NAC Prepared for City of Gosnells Perth, Western Australia

Syrinx (2016) Vegetation Condition Mapping undertaken for the City of Gosnells. Job number: 16065 Perth, Western Australia

FIGURES

N

0 200 400 600 800 1000m

SCALE 1 : 20 000 at A3 (MGA)

400 000mE

400 000mE

6 452 500mN

6 450 000mN

HUME ROAD

BURSLEM DRIVE

GARDEN STREET EXTENSION

NICHOLSON ROAD

SANDMARTIN DRIVE

YALE ROAD

MURDOCH ROAD

GARDEN STREET

AMHERST ROAD

RANFORD ROAD

NICHOLSON ROAD

WARTON ROAD

SPENCER ROAD

BURSLEM DRIVE

CORFIELD STREET

FREMANTLE ROAD

AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2017.

2017-314-f01.dgn

PINPOINT CARTOGRAPHICS (08) 9562 7136

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 12 Jan 2018

Job: 10266 Rpt: 2017-314 | Revision: A

SITE LOCATIONS

Figure 1

N

0 10 20 30 40 50m

SCALE 1 : 1 000 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary

R 36295
3112

R 26272
2354

R 26272
Lot 1865

6 452 600mN
6 452 500mN
6 452 400mN

401 700mE
401 800mE
401 900mE

GARDEN STREET
NAIRN
CULLIGAN ROAD
CASSIDY ROAD
HUME ROAD

1 2 22 23 25 26 29 30 31 32 33 34 35 36 37 47 48 49 50 51 52 54 57 58 59 60 61 62 63 64 65 66 70 71 72 73 155 307

CADASTRAL SOURCE: Landgate, May 2017.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown February 2017.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2017-314-f02.dgn

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot	Date: 12 Jan 2018
Job: 10266 Rpt: 2017-314	Revision: A

HUME ROAD SITE BOUNDARY

Figure 2



CADASTRAL SOURCE: Landgate, May 2017.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown February 2017.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2017-314-f03.dgn

pgv ENVIRONMENTAL

Drawn: J. Cabot	Date: 12 Jan 2018
Job: 10266 Rpt: 2017-314	Revision: A

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

NICHOLSON ROAD SITE BOUNDARY

Figure 3

N

0 10 20 30 40 50m

SCALE 1 : 1 000 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary

R 48497
Lot 709

400 100mE
400 200mE
400 300mE
400 400mE

6 448 100mN
6 448 000mN
6 447 900mN

SANDMARTIN DRIVE
GREENSCAPE ROAD
WALKINGDALE PROMENADE
MILLSTREAM DRIVE

CADASTRAL SOURCE: Landgate, May 2017.
AERIAL PHOTOGRAPHY SOURCE: NearMap, flown February 2017.

2017-314-f04.dgn

PINPOINT CARTOGRAPHICS (08) 9562 7136

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 12 Jan 2018

Job: 10266 Rpt: 2017-314 | Revision: A

SANDMARTIN DRIVE SITE BOUNDARY

Figure 4

403 000mE
403 250mE
403 500mE
6 452 250mN
6 452 000mN
6 451 750mN
BARDWELL STREET
BURSLEM DRIVE
WINDSOR DRIVE
SPENCER ROAD
CORFIELD STREET
201
2772
R 33910
3267
R 37270

N

0 25 50 75 100m

SCALE 1 : 2 500 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary

CADASTRAL SOURCE: Landgate, January 2018.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2017.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2017-314-f05.dgn

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 12 Jan 2018
Job: 10266 Rpt: 2017-314 | Revision: A

BURSLEM DRIVE SITE BOUNDARY

Figure 5

N

0 10 20 30 40 50m

SCALE 1 : 1 000 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Revegetation Zone Boundary
- H1 Revegetation Type

6 452 600mN

6 452 500mN

6 452 400mN

401 700mE

401 800mE

401 900mE

R 36295
3112

R 26272
2354

R 26272
Lot 1865

H1

H2

H3

H4

H5

H6

GARDEN STREET

NAIRN

CULLIGAN ROAD

CASSIDY ROAD

HUME ROAD

1 2 22 23 25 26 29 30 31 32 33 34 35 36 37 47 48 49 50 51 52 54 57 58 59 60 61 62 63 64 65 66 70 71 72 73 155 307

CADASTRAL SOURCE: Landgate, May 2017.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown February 2017.

PINPOINT CARTOGRAPHICS (08) 9562 7136

2017-314-f06.dgn

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 1 Mar 2018

Job: 10266 Rpt: 2017-314 | Revision: A

HUME ROAD REVEGETATION AREAS

Figure 6

N

0 10 20 30 40 50m

SCALE 1 : 1 000 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Revegetation Zone Boundary
- N1 Revegetation Type

N1

N2

R 51334
Lot 2

R 48911
901

R 47218
1446

R 46118
781

99

1008

1009

102

1003

1005

104

430

429

1549 1548 1547 1545 1544

1515 1516 1517 1518 1519

1524 1523 1522 1521 1520

1497 1498 1499 1500

1504 1503 1502 1501

1096 1097

1103 1104 1105 1106

524 523 522 521 525 526

8 7 6 5 9

397 800mE

397 900mE

398 000mE

6 449 000mN

6 448 900mN

NICHOLSON ROAD

RANFORD ROAD

BALLYCASTLE LOOP

PARNELL WAY

CADASTRAL SOURCE: Landgate, May 2017.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown February 2017.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2017-314-f07.dgn

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 25 Feb 2018

Job: 10266 Rpt: 2017-314 | Revision: A

NICHOLSON ROAD REVEGETATION AREAS

Figure 7

N

0 10 20 30 40 50m

SCALE 1 : 1 000 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Revegetation Zone Boundary
- S1 Revegetation Type

400 100mE
400 200mE
400 300mE
400 400mE
6 448 100mN
6 448 000mN
6 447 900mN

S1 S2 S3 S4 S5 S6 S7 S8 S9 S10

R 48497
Lot 709

1611 1612 1613

SANDMARTIN DRIVE
GREENSCAPE ROAD
WALKINGDALE PROMENADE
MILLSTREAM DRIVE

CADASTRAL SOURCE: Landgate, May 2017.
AERIAL PHOTOGRAPHY SOURCE: NearMap, flown February 2017.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2017-314-f08.dgn

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 12 Jan 2018
Job: 10266 Rpt: 2017-314 | Revision: A

SANDMARTIN DRIVE REVEGETATION AREAS

Figure 8

403 000mE
403 250mE
403 500mE
6 452 250mN
6 452 000mN
6 451 750mN
BARDWELL STREET
BURSLEM DRIVE
WINDSOR DRIVE
SPENCER ROAD
CORFIELD STREET
B1
B2
201
3267
R 37270
2772
R 33910

N

0 25 50 75 100m

SCALE 1 : 2 500 at A3 (MGA)

Legend

- Site Boundary
- Cadastral Boundary
- Easement Boundary
- Revegetation Zone Boundary
- B1 Overstorey Revegetation
- B2 Balance of Site Subject to Significant Weed Management, Particularly Woody Weeds

CADASTRAL SOURCE: Landgate, January 2018.
AERIAL PHOTOGRAPH SOURCE: NearMap, flown October 2017.

2017-314-f09.dgn

PINPOINT CARTOGRAPHICS (08) 9562 7136

pgv ENVIRONMENTAL

City of Gosnells
REVEGETATION MANAGEMENT PLAN
GARDEN STREET, SOUTHERN RIVER

Drawn: J. Cabot | Date: 25 Feb 2018

Job: 10266 Rpt: 2017-314 | Revision: A

BURSLEM DRIVE REVEGETATION AREAS

Figure 9

APPENDIX 1

WAPC Agreement to Management of Burslem Drive Site

From: Parker, Ross [mailto:Ross.Parker@dplh.wa.gov.au]
Sent: Thursday, 18 January 2018 9:55 AM
To: Wayne van Lieven
Cc: Glenda Lawrence; George Ling; jackie@pgv.net.au; Forknall, Richard; Kane, Peter
Subject: RE: proposed offset program - includes

Hello Wayne

The WAPC is pleased to support the City's proposed offset revegetation work on WAPC owned Lot 201 Burslem Dve Gosnells.

Kind regards,

Ross Parker | Senior Projects and Policy Officer | Business and Corporate Support
140 William Street, Perth WA 6000
(08) 6551 9046 | 0437 030 716
www.dplh.wa.gov.au

GOVERNMENT OF WESTERN AUSTRALIA
Department of Planning, Lands and Heritage

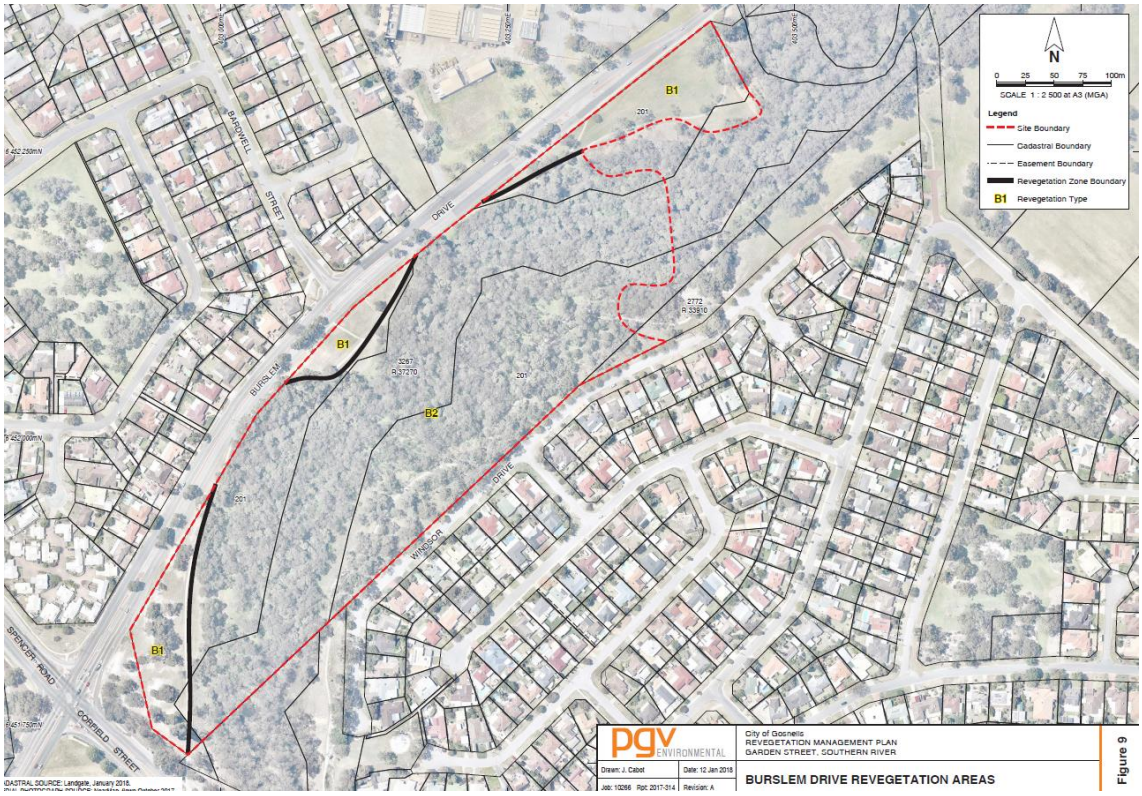
From: Wayne van Lieven [mailto:wvanlieven@gosnells.wa.gov.au]
Sent: Thursday, 18 January 2018 9:41 AM
To: Parker, Ross
Cc: Glenda Lawrence; George Ling; jackie@pgv.net.au
Subject: proposed offset program - includes

Hi Ross

The City is preparing an offset proposal in support of its proposed extension of Garden Street in Huntingdale/Southern River. In identifying appropriate sites, the Burslem Drive site that was the subject of discussion last year has been selected. The proposal involves the revegetation of the area identified in the figure below, which includes:

- Lot 3267 Burslem Drive (Crown Reserve 37270, vested in CoG)
- Lot 201 Burslem Drive (WAPC-owned)
- Lot 2772 Windsor Drive (Crown Reserve 33910, vested in CoG)

The City seeks the Commission's in-principle support with regard to its land for the proposal, which would ultimately see the transfer of Lot 201 to the City's management.



Wayne van Lieven
Coordinator Environmental Management

CITY OF GOSNELLS

2120 Albany Highway Gosnells WA 6110
PO Box 662 Gosnells WA 6990
T 08 9397 3203 | **F** 08 93974241 | **M** 0418 925 148
www.gosnells.wa.gov.au

APPENDIX 2

Fence Specification for Burslem Drive Site

SPECIFICATION

Specification – Rural Style Fencing

This style of fencing is used predominantly to protect environmental assets:

PREPARATION

The City will provide arial photography or plans for the proposed fenceline and provide sufficient pegging to determine the alignment required for the fence, along with any truncations. This will detail the location of gates to be installed and be sufficiently detailed for the contractor to determine material requisites.

The contractor will be responsible for fenceline clearing including vegetation removal and landform adjustments to allow the fence to follow the general topography along which the fence is to be erected.

Sites where hard digging is likely to be encountered are to be identified to the Principal and a quotation for additional work provided.

MATERIALS

Galvanized 7/90/30 x 200 m Ringlock or equivalent (Stocklock or Griplock) agricultural fence

Galvanized 2.5 mm single strand High Tensile Plain Wire

4.0 mm White PVC coated horse sighter Wire

100-125 mm x 2.1 m CCA H4 treated pine log (for uprights)

150-175 mm x 2.4 m CCA H4 treated pine log (for box strainers)

1.8 m Galvanised Steel Star Pickets, BHP preferred (ensure holes match up with agricultural fencing wire)

Short, white PVC Star Picket Caps

3.6 m x 1200 mm high galvanized Weldmesh agricultural farm gate (with Brooker threaded hinges)

1.57 mm galvanized Tie Wire

CONSTRUCTION

Box strainers are to be constructed out of treated pine logs and pinned,

Box strainers to be placed on both sides of agricultural gates,

Double box strainers at all corners and change in direction of fence,

Box strainers to be placed at maximum distance of 200m intervals along fence,

Ringlock to be fastened 50mm above ground level,

All strands on Ringlock to be stapled to box strainers,

Four strands on Ringlock to be stapled evenly to pine uprights,

Four horizontal strands of Ringlock to be tied evenly to star pickets,

Ratio of star pickets to pine uprights is one in five (i.e. one pine upright to three star pickets) at spacing of 4 m,

All ends, joins and ties to be finished neatly with no wire protrusions,

Single strand PVC Wire to be installed at 100 mm above top of ringlock.

PVC Wire to be wrapped around pine posts twice, then wound back around wire three times and cut off flush,

All pine uprights to be buried to a depth of 900 mm,

All box strainers to be buried to a depth of 1200 mm,

All star pickets to be capped,

Fencing wire to be fixed to outside of fence at all times (i.e. on outside of reserve)

Fence to smoothly follow the overall contours of the land (Not to have sudden dips and rises),

Use 10 mm x 900 mm long High Tensile locking chain (non rusting) for Agricultural Gates,

Do not over tension fence, ensuring all vertical wires are in line,

Pedestrian Access ways to be 800mm wide and be boxed

CONSTRUCTION – BOX STRAINER

