Appendix 3

Site Analysis Checklists

June 2013

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Appendix 3 Amendments – June 2013 Revision Register

Issue / Revision No	Reference Section	Description of Revision	Authorised by	Date
1	-	Initial Release of 2nd Edition of Manual	Steering Committee	Jun 2013

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3.1 SITE ANALYSIS CHECKLIST

APX3-1

Appendix 3 **Site Analysis Checklist**

3.1 Site Analysis Checklist

The use of the survey will depend on the complexity of the site and scope of project. A selection of some items or all items may require further investigation, depending on scale of the project.

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Landscape Setting: urban; rural; and natural.		
Land Use Zoning: Local Area Plans; Development Control Plans; and Native Title.		
Current/ Previous/ Future Surrounding Primary Land Uses: • public (eg. open space, parks and recreational areas); • private (eg. residential, commercial); • agriculture; • pastoral Land (eg. cropping activities); • site contamination eg. artificial fertilisation; and • degraded land.		
Boundaries:		
Infrastructure: • rail; • ports and marinas; • power stations and transmission lines; • silos; • airfields; • quarries; • schools; • shopping facilities; • community facilities; and • car parks.		
Settlement Patterns (layers): • historic influences (eg. industry, housing etc.); • cultural influences (eg. Indigenous heritage); • residential (eg. housing) versus commercial (eg. businesses); • public versus private (interfaces); and • State Forests and National Parks.		

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Building types: cultural heritage; historic; residential; industrial; and commercial.		
Built versus Natural: • infrastructure (size of buildings versus amount of green space); and • associated density.		
Structure and Form: 'horizontal' context (eg. Road Formation and roadside elements); and 'vertical' context (Urban components, Major Built elements and structures eg. Buildings, homesteads, powerlines).		
Socio-economics		
Visual Cues (permanent, temporary and transitory): • shapes, patterns, clusters, scatterings, graduations and mixtures etc; and • colours and textures. Experiential Cues (temporary and transitory): • air movement; • smell; and • sounds.		
Local Roads and Connections		
General Public Access (including disabled access)		
Pedestrian pathways		
Cyclists - bikeways		
Major nodes and landmarks		
Public transport networks		
Surrounding vegetation status and classification		

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Common/ Dominant species: significant; habitat value/ habitat trees; and potentially used currently as wildlife movement corridors.		
All other species (i.e general vegetation species, groups and communities)		
Vegetation Character/ Themes		
Environmentally sensitive:		
Weeds (declared and pest)		
Vegetation Distribution (mapping): extents; species.		
Vegetation Structure: Iayering (i.e emergent's, lower; mid and upper canopy storeys); and Iayout (i.e principal coverage species).		
Species (requiring retained): quality; andvisual appropriateness.		
Urban Forest (mapping): • % canopy cover/ vegetation cover/ ground surface cover, versus; and • % soil exposure.		
SPECIALIST INVESTIGATIONS MAY BE REQUIRED: • Detailed Botanical Survey; • Species Inventory; • Flora Assessment Report.		
 Underlying geology, noting the following: Contamination; Land degradation; Artificial fertilisation; Fill areas. 		
Physical Soil characteristics (general only): texture; structure; water holding capacity; and slaking potential.		

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Chemical characteristics		
Identification and classification of soil types		
Predominant soil type/s (NOTE: High risk or medium risk soils should be flagged)		
Erosive properties / dispersiveness: Level of Erosivity Risk (identifiable)		
SPECIALIST INVESTIGATIONS MAY BE REQUIRED: Geotechnical Report; and/or Soil Suitability Report.		
Significant fauna: • dominant species		
Transient fauna		
Endangered		
Pests		
Fauna Habitats, Corridors and Linkages (located and mapped)		
SPECIALIST INVESTIGATIONS MAY BE REQUIRED: • Fauna Assessment Report		
Broad Bio-geographical elements:		
Built Structures (eg. historic)		
Indigenous Heritage: sites; and artefacts.		
SPECIALIST INVESTIGATIONS MAY BE REQUIRED: Cultural Heritage Assessment Report; Archaeology Report; and/ or		

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Aboriginal History Report.		
General Overview: immediate; and adjoining.		
Landform: contours; and slope angles.		
Notable natural landmarks:		
General description of catchment characteristics (temporary and permanent): catchment area; and boundaries.		
Water table: level; depth; and quality.		
Water courses: rivers / creeks/ streams		
Notable water bodies/ features		
Drainage Lines: • discharge points/ outlets		
Storm water network		
Ground water sources (eg. aquifers)		
Recycled water sources		
Flood Frequency: relevant time of year; and predicted flood levels.		
Salinity		
Tidal influences		

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Surface Water		
Springs and Seeps		
Floodplains		
Wetlands		
SPECIALIST INVESTIGATIONS MAY BE REQUIRED: Water Quality Report; and/or Drainage Report.		
Average rainfall: seasonal (monthly) variations in rainfall; corresponding rainfall frequencies and intensity; and rainfall distribution.		
Average temperatures		
Average humidity levels		
Average daily sunshine levels		
Frost potential		
Prevailing winds, and associated air quality (pollution levels)		
Coastal proximity, and associated salinity levels		
Immediate (specific impacting sounds): traffic noise; and industrial/ commercial/ residential noise.		
Distant (background noise sources): traffic noise; industrial/ commercial/ residential noise.		
Temporary sounds/ influences: sporting/ event facilities.		

Existing Road Landscape Items	Checklist – Stage of Project	Checklist – Applicability (R-Rural, U-Urban, N-Natural)
Permanent sounds/ influences (as per immediate and distant sources noted above)		
Above ground: electricity; and lighting.		
Below ground: electricity; gas; telecommunications/ telecom/ telstra; fibre optics; sewerage; and water (eg. stormwater mains, residential/ commercial connections, fire hydrants, rain water).		