

Natural Area Consulting

2010

Company Background

Natural Area Consulting (NAC) provides a range of services relating to environmental investigations, assessments, and consulting activities to all levels of government, community groups, industry, companies and property developers. NAC is a new subsidiary of Natural Area Holdings, a privately owned company with a strong focus on the rehabilitation and management of natural and conservation areas within southwest Western Australia, and particularly the Perth metropolitan region.

NAC personnel includes environmental scientists and other professionals with a range of complementary experience. Accordingly, the team has a strong foundation on which to successfully carry out a range of projects and activities for clients.

Key Capabilities

- Environmental investigations and assessments for terrestrial and aquatic ecosystems
- State and Commonwealth approvals investigations and associated documentation
- Ecological research & project design for revegetation projects
- Site surveying & mapping for vegetation condition, DRF & flora surveys, weed mapping, fauna surveys
- Environmental approvals and licensing for offset proposals, clearing permit applications
- Preparation, revisions and updates of Environmental Management Plans with implementation scheduling & associated costing
- Project management & implementation
- Design & implementation of terrestrial and aquatic monitoring programs
- Quadrats & photo monitoring points
- Reporting



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Revegetation Planning & Ecological Design

NAC have the capability to design revegetation plans for bushland rehabilitation, riverine restoration or coastal revegetation. Revegetation sites are always unique and so planning involves individual assessment of soil and vegetation types, flora and fauna species including ferals and threatening processes. Project examples include:

- Western Power - Design of revegetation plans for Offset sites in PMR, including site assessment, scheduling and associated costings, design of success criteria and monitoring program.
- Jandakot Airport Holdings - "*Bushland Rehabilitation Plan and Success Criteria*" including initial site assessment and recommendations on rehabilitation activities
- Telstra PITC - Design of various revegetation plans across the site
- Scientific Park - Sub-contracted for advice on revegetation plan



Environmental Management Plans

NAC personnel have the capacity to develop, review and implement various types of environmental management plans, with examples including:

- Telstra PITC - "*Environmental Management Plan Review*" - Review of existing EMP with updates to vegetation condition, weed maps, species lists and dieback status, incorporate new revegetation areas into the EMP and make recommendations on new management actions
- City of Melville - "*Foreshore Restoration Strategy Review*" -
- City of Armadale— "*Armadale Golf Course Management Plan*" - Plan recommends management aims and strategies for flora, fauna, weeds and the potential for nutrients entering nearby Forrestdale Lake.

Environmental Advice, Investigations, Monitoring & Reporting

NAC personnel have a proven track record with the development and implementation of terrestrial and water monitoring activities to suit organisational needs, or to implement existing programs. Vegetation monitoring can be carried out using a variety of methods including transects and or quadrats. Photo monitoring is generally carried out simultaneously with all vegetation monitoring projects. Project examples undertaken by NAC personnel include:



- Burns Beach Property Trust - *Coastal Rehabilitation* - Annual monitoring of 17 quadrats, including photo monitoring and reporting.
- Western Power - monitoring of various revegetation projects, including baseline surveys for inclusion into revegetation plans.
- Telstra PITC - Annual and bi-annual monitoring of offset sites to maintain compliance with Clearing Permit conditions.
- Vasse Property Pty Ltd - ongoing monitoring and reporting of depth to groundwater and various parameters to assist with the longer term management of water on the site, conservation category wetland assessment, various flora and vegetation condition assessments.
- City of Joondalup - advice relating to the potential environmental opportunities and constraints associated with the proposed Ocean Reef Redevelopment Site.

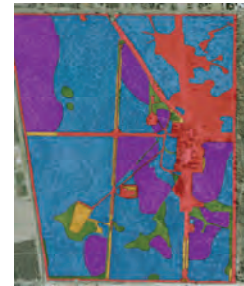
Botanic Capabilities

NAC employs a qualified Botanist with a 6d skill level as outlined in the skill level matrix for Natural Area Assessment of the Perth Biodiversity Project. Jacquie Milner has over 15 years experience and has developed a wide and varied skill set including identification of native flora, weeds, TEC identification, DRF identification and seed collection. Jacquie has also been actively involved with the Wildflower Society of WA since 1994 the Bushland Survey Program regularly.



Flora Surveys

- City of Joondalup—DRF survey and report, vegetation condition for proposed Ocean Reef Marina redevelopment site
- City of Melville - Mapping priority weed species at six reserves within the City of Melville, using MobileMap portable GIS software and Trimble Nomad handheld GPS unit
- City of Melville - Foreshore weed mapping for inclusion into Foreshore Restoration Strategy
- Telstra PITC - 300ha Bush Forever site, weed mapping (density and distribution) for inclusion into
- Smargiassi Nominees - DRF Survey and report for Orchid spp
- Northern Equine Park - Vegetation Condition & Type Survey
- Watermark Enterprises - Field and desktop survey for DRF (Orchidaceae)
- City of Melville - Vegetation condition mapping for 18km of river foreshore for inclusion into Foreshore Restoration Strategy
- DEC - Weed mapping of priority species throughout the Scientific Park



Additional Environmental Services

- Environmental Weed Control
- Erosion Control
- Revegetation
- Seed collection
- Native plant propagation & germination testing
- Native plant salvage



Project Management

NAC personnel have extensive project management experience to ensure that all projects are completed as per the client brief, in a timely manner and on budget. Where appropriate, project management activities include the coordination of sub-contractors and on-ground environmental restoration activities such as weed control, erosion control, revegetation, and seed collection.

- Management of offset sites and reporting requirements.

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Jacquie Milner
Botanist

Clarissa Sanford
*Graduate
Environmental
Consultant*

Luke Summers
Director

Personnel Profiles

Sue Brand | sue.brand@naturalarea.com.au

B.Sc, PGDIP EIA, MSc (Env. Sc) MEIA, Assoc. Environmental Auditor

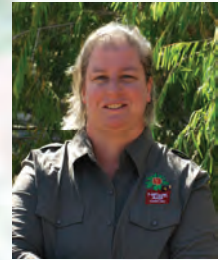
Sue is an Environmental Scientist with more than 10 years experience in both consulting and academia, providing a broad knowledge and skill base that can be applied to a range of projects. Her experience includes undertaking a variety of environmental investigations and assessments for a range of clients including government, land development, and the resource sector to assist with statutory approvals processes. She is also an experienced project manager.



Jacquie Milner | flora@naturalarea.com.au

BEnv.Sc

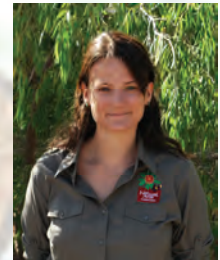
Jacquie has been the lead consultant on flora and vegetation surveys for the company for over 6 years. She is able to provide botanical knowledge and expertise to create revegetation species lists as well as monitoring and reporting programs for various projects. She has been involved in native species recognition for 15 years and has considerable experience in native seed collection.



Kimberly Harmsworth | kimberly@naturalarea.com.au

B.Env.Sc, GradCert (Botany)

Kimberly has practical hands on field experience having worked on various revegetation projects in the Perth Metropolitan Area. She has experience in vegetation offset proposals, implementation and management. She has worked closely with Jacquie Milner in the past on flora and vegetation surveys throughout Perth. She is familiar with all aspects of revegetation planning and implementation.



Clarissa Sanford | consulting@naturalarea.com.au

B. Cons. Wildlife Biol, Biol. Sc.

Clarissa joined Natural Area Holdings after graduation from Murdoch University. She works closely with Kim and Sue, continuing to strengthen and develop her knowledge and skills through on-ground project work, research and reporting activities, and assisting with nursery operations.



Luke Summers | luke@naturalarea.com.au

B. Business. Chemcert Chemical Accreditation. Pest Management Technician Licence (1080)

Luke has practical hands on experience with on-ground environmental management. He is actively involved with all projects at the management level and is the point of contact for customers. He is able to consult with customers and advise on best management strategies for all type of natural environments. His experience includes project design and management, weed control, erosion control, revegetation and feral animal control.



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