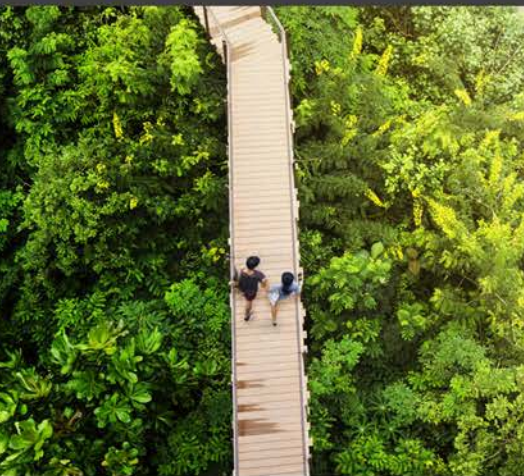


**ENVIROSPHERE**  
consulting

**CAPABILITIES STATEMENT**  
INTENSIVE INDUSTRIES



Planning, Delivering & Managing for a Sustainable Future - Now



# MISSION STATEMENT

We contribute to maintaining a healthier, more diverse and enjoyable planet to live on by providing high value, sustainable, environmental outcomes through scientific analysis, detailed planning, design and delivery of practical business solutions.



ENVIROSPHERE  
consulting



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# HISTORY

## ENVIROSPHERE CONSULTING



### We have been consulting since 2010.

Envirosphere Consulting has been delivering practical & sustainable solutions since 2010.



Envirosphere Consulting's evolution to a dedicated team of environmental consultants and a broad network of associates is proof of our capability to deliver the very best environmental, economic and social outcomes for a diverse range of projects of increasing complexity.

At Envirosphere we have helped our clients achieve their goals in intensive agriculture and processing industries, natural resource management, sustainable rural production, urban residential and rural development, infrastructure delivery, ecotourism, nature-based recreation and natural areas management.

**With a demonstrated ability to deliver, and a growing base of satisfied clients we are confident in our capabilities and have a positive outlook for our future in helping all organisations we work with to achieve better outcomes.**

## THE ENVIROSPHERE WAY



Serving your needs is our priority and we do this through a process of seeking to understand your unique situation first and then developing an appropriate and cost-effective way to overcome your challenges and achieve your goals.

### High Value

Our style of consulting focuses on ensuring you get the best outcome for your project while addressing key requirements of the regulator. We do this by providing hands-on involvement throughout the lifecycle of your project.

### Scientific Analysis

Envirosphere follows rigorous scientific methodologies to provide consistent and high-quality assessments, data analysis, reports, programs and solutions for our clients. While our consultants have a wide range of skills, knowledge and experience, Envirosphere's expansive network of specialist associates and academics assist with tasks such as experimental design, legislative advice and high end scientific analysis for more complex and sensitive projects.

### Practical and Sustainable

We believe the best outcomes are achieved through win-win situations, resulting in a balance between the needs of our client and the environment. Our focus is on achieving good economic, social and environmental outcomes for all clients we work with. This approach has benefited costs and outcomes across all our projects by smoothing the pathway to approval, increasing product value for developers, reducing future maintenance burdens for land managers, and increasing and maintaining production for agricultural producers. We take the time to listen to our clients and understand their situation. We value the knowledge that is inherent in our clients and we integrate their knowledge with our industry understanding and experience to benefit their project.

### Quality Control

Adhering to our Quality Control procedure produces consistent results and allows us to ensure a lower level of risk for each project we work on. Following our policy and procedure also ensures consistent results.

## SERVICES CHAIN OVERVIEW



Envirosphere's chain of services are covered under five broad categories which include: Foresight, Planning and Design, Management, Environmental Monitoring and Sustainability. We operate at all points along the services chain from Foresight – conceptual design and feasibility right through to the later stages of environmental monitoring and implementing sustainability management actions.

Envirosphere's services are diverse and cover most sectors of the environmental field. Our specialist services include: Terrestrial and Aquatic Ecology, Soil Science, Ecological Restoration Management Planning, Land Assessment and Management, Landscape Architecture, Arboriculture Consulting and Environmental Monitoring.



FORESIGHT

### Foresight

Envirosphere assists with foresight and vision to bring your project to life. This critical first step in project realisation looks at the environmental aspects and whether the project or land use is feasible, identifies strategic goals, looks at environmental risk and seeks out opportunities or environmental value-adds and ways to ensure sustainability.



PLANNING &  
DESIGN

### Planning and Design

Our planning and design services ensures that your project meets all necessary environmental compliance legislation and guidelines, that all competing and conflicting parameters are reviewed and addressed, logical steps are set out, synergies are identified and utilised and government regulator's reporting requirements are met.



## Management

Envirosphere manages environmental projects and complex environmental components of major projects. We can take the lead and implement, manage and quality control all aspects of a project or work with Project Directors and project teams to implement works.

Our network of associates allows us to project manage the implementation of on-ground works. We source and manage contractors where needed in ecological restoration, vegetation management, track/trail and boardwalk construction, landscape implementation, fauna and habitat management and enhancement and a range of other environmental projects.



## Environmental Monitoring

We will undertake monitoring to meet regulators guidelines or for scientific purposes to understand critical aspects of project implementation, success outcomes and identify areas for improvement.

At the forefront of technology, we utilise drones for physical inspections of natural assets and infrastructure, surveys for inaccessible or “difficult to access” sites and for monitoring of river catchments, broad-scale weed infestations, large revegetation and forestry plots and areas affected by bushfire. Coupled with GIS database technology, our use of drones has increased our environmental monitoring capacity.



## Sustainability

Our aim is to bring the principles of environmental sustainability to all the industries that we work with. Through foresight we can identify environmental value-adds or undertake works in a more sustainable way, without significant extra costs to our project partners.

Thoughtful planning ensures that projects and programs reflect all environmental, social and economic opportunities and constraints and that designs are integrated, meet high standards and are practical and implementable. Finally, through our monitoring services we confirm project successes and report our findings to the Government regulators and implement adaptive management principles where needed to achieve project improvements.

**We strongly believe in and use the principles of adaptive management to learn and to ensure continuous improvement in Environmental management.**



# CAPABILITIES STATEMENT 2017

## INTENSIVE INDUSTRIES

Our clients in this industry sector are businesses that generally operate under an Environment Authority including: Resource companies, Intensive Agriculture, Energy and Industrial companies. EnviroSphere has experience in working with our clients to obtain regulatory approvals, achieve compliance with regulatory requirements and move towards industry best practice. We can also work with intensive industries to undertake stakeholder engagement in the design and operational phases of projects.

### Examples of services we can provide to Intensive Industries include:

- Environmental application drafting and submission
- Environmental monitoring – water, soil, vegetation
- Management of EA requirements and liaison with regulatory agencies
- Auditing and reporting
- Ecological analysis (including terrain, bio-condition monitoring, flora and fauna)
- Impact assessments
- Ecological restoration design and management planning
- Soils investigations and sediment and erosion control plans
- Stakeholder engagement and consultation
- Drone aerial photography
- GIS data capture and presentation

### Client Type: Intensive Agriculture

#### **Services:** Monitoring and Reporting

We were engaged by a client that was in the process of moving from a traditional agricultural model to a more intensive mixed-use enterprise, to undertake an assessment of the water quality entering and leaving the project area. A number of rural production enterprises are located in the area upstream from the site including beef and poultry production properties, cropping, a small vineyard and an abattoir. The baseline water quality assessment was initiated to obtain pre-development water quality data that are specifically related to parameters associated with agricultural rural production and which would likely be of interest to various state government regulators. The recorded data can be used for future comparisons after rehabilitation works have been undertaken on the project site.

Thirteen (13) physio-chemical and biological parameters were tested to provide an indication of general waterway health. The parameters included those significant for detecting rural production impacts, namely, agricultural runoff, soil erosion and sedimentation.

EnviroSphere brought value to our client's operations through our environmental management expertise, identifying poor water quality and other impacts associated with the catchment. Prior to our assessment work and the final report, there was no baseline information available and no real understanding of the quality of water on the property.



# CAPABILITIES STATEMENT 2017

## INTENSIVE INDUSTRIES

### Client Type: Intensive Agriculture (Continued)

With a better understanding of the water quality of the site, our client is making changes to management strategies including creating a stock free environmental restoration zone of 100m on either bank of the creek (to be fully revegetated) for the full length of the creek from the western to the eastern boundary. This significant action is expected to dramatically improve water quality in this localised catchment. Other projects undertaken for this client included the following: Ecological Assessment and Report, Soils Survey and Report, Ecological restoration advice and consultation with SEQwater about the expansion of the Intensive Agricultural Enterprise.

### Client Type: Industrial Processor

**Services:** Consulting and Management Planning

Our client operates an industrial processing facility and undertakes a range of activities to reclaim valuable animal products from abattoir waste. The company also reuses high nutrient waste water (produced as a result of their operations) on the property to grow lush pasture, which is grazed by a resident herd of beef cattle. The Company sees itself as providing an important recycling function for what might otherwise be a waste product and is focused on continually improving the environmental outcomes from its activities.

Envirosphere is working closely with the Management Team to develop its understanding of the nutrient processing capabilities of the property's pasture areas and the characteristics of its soils, with a view to further improve irrigation practices and ensure there are no off-site impacts.

Our team analysed records of previous environmental monitoring, soil analyses and reports provided by the client and found clear gaps in knowledge regarding a full understanding of the soils within the irrigation area. By identifying these gaps, we were able to target our assessments and undertake further analysis that provided a better understanding of the site constraints. Through our understanding of the client's needs and a thorough understanding of the site constraints, we were able to provide clear recommendations for the long-term viability of this operation.

Envirosphere Consulting has also set up and facilitates a monthly Environmental Sustainability Panel in conjunction with our client, to identify other opportunities to improve the environmental, social and economic sustainability of the organisation's operations.

# CAPABILITIES STATEMENT 2017

## INTENSIVE INDUSTRIES

### Client Type: Quarry

**Services:** Vegetation Monitoring and Reporting

During 2015-2016 our client expanded its operations and as part of the process approvals were required from Gold Coast City Council. The original conditions associated with the approval of the upgrade project contained a number of conditions specifically related to the rehabilitation of areas within the quarry. In accordance with conditions of approval, a rehabilitation plan was produced by Cardno.

Envirosphere Consulting was engaged to monitor the rehabilitation areas against the required objectives including assessment of the density and species composition of plants within the rehabilitation areas as well as an overall assessment of the health of the revegetation and its growth trajectory with comparative remnant Regional Ecosystems.

#### Our Tasks Included:

- Assessment of four (4) x one hundred metre transects and four (4) x 50 m x 2 m plots;
- Identification and listing of canopy, sub canopy, shrub and ground cover species;
- Height and spread measurements for canopy species;
- Density measurements to ensure compliance with performance criteria;
- Identification and listing of weed species and measurement of their cover
- Data collation and analysis;
- Comparison with previous monitoring results; and
- Preparation of a monitoring report outlining findings and management recommendations.
- Ongoing work over several years of prescribed monitoring

## Development Infrastructure & Ecotourism

**Envirosphere clients in this sector include Developers, Town Planners, Project Managers, Event Companies, Real Estates, Construction Companies, Eco-tourism and Nature-based Recreation Operators.**

There are numerous legislative and regulatory responsibilities related to development and infrastructure provision in both the public and private sectors. Experienced consultants at Envirosphere understand Council processes, State and Commonwealth government requirements and smooth the pathway to achieve the necessary approvals. Our team keeps up to date with legislative changes and industry requirements for applications, reports, management plans and project implementation.

## Intensive Industries

**Our clients in this industry sector include Quarries, Resources, Intensive Agriculture, Energy and Industrial companies.** Businesses in this sector generally operate under an Environment Authority (EA) and are often perceived as higher risk operations or are business that produce waste streams that must be carefully managed.

We understand EA requirements for intensive industries and have been involved with design, planning construction and ongoing operations. We work with our industry clients to provide key environmental information in the predesign, site selection and analysis phases of projects and we continue to offer environmental management advice and support our clients throughout the operational life of their business.

## Government & Natural Resource Managers

**Envirosphere clients in this sector include State and Local Government Agencies, Landcare, Water Resources, Parks and Wildlife Service, Private Conservation Land Managers, Catchment Groups and Indigenous Land Managers.**

We have extensive experience in working with conservation land managers in both the public and private sector. Envirosphere has an excellent understanding of the specific needs of conservation land managers and the unique opportunities and challenges facing this sector. Our experienced team work side-by-side with our conservation land management clients to increase their environmental knowledge and improve management of their land. We regularly prepare individual property plans and integrated conservation estate management plans that help our clients protect and enhance the lands that they manage. Our services also include the development of programs, brochures, interpretive signage and media to provide conservation based communications and feedback to stakeholder groups and the wider public.

## Sustainable Rural Production

**Our clients in this sector include Private Landholders, Rural Producers, Graziers, Poultry Farmers and Producer Groups** that are seeking to run their businesses and manage their land in a more environmentally sustainable way.

The team at Envirosphere appreciates the diverse needs of rural landholders and approaches to managing the unique opportunities and challenges facing every business owner. We work with our rural landholder clients to improve their understanding of the natural environmental values of their land, move from traditional farming methods to more ecologically viable practices, help identify and prepare plans to restore degraded land, assist with pest management issues and related land management challenges. We also identify potential impacts from farming activities and devise management strategies for improved agricultural practices, to achieve our client's vision of Sustainable Rural Production.



## ENVIROSPHERE CONSULTING CLIENTS

AJ Bush & Sons (Manufactures) Pty Ltd	Logan & Albert Catchments (LARC)
Australian Residential Corporation Pty Ltd	Logan City Council
Boral	Mishani Pty Ltd
Brisbane Valley Protein Pty Ltd	Mortons Urban Solutions
Bushcare Services	Natura Pacific
Bushland Protection Systems	Ngarang-Wal Gold Coast Aboriginal Association
Cardno	Ownit Homes
Christian Heritage College	Pacific Land & Ecological Sciences
Cliff Face Pty Ltd	Pip Consulting
Conhur	Regency Constructions (Qld) Pty Ltd
Dixon Homes	RPS Group
Eco-balance	SEQ Catchments
Eurofinance Pty Ltd	SEQWater
Ghost Gum Developments Pty Ltd	SoiLife Australia
Gold Coast City Council	Spaceframe Buildings Pty Ltd
Grandcare Systems	Sunshine Coast Regional Council
Guanaba Experience	Taylor Willis Town Planners
Horseshoe Properties Pty Ltd	Those Guys Events
Jagen Pty Ltd	Tombolo Pty Ltd
LM Planning Solutions	Welbourne Group

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