



Firetail Environments Pty Ltd
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Castlemaine
Victoria
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Capacity and capability document

About Firetail Environments

Firetail Environments is dedicated to Developing sustainable land stewardship practices for improved enterprise & biodiversity outcomes by providing high quality services in consultation, on ground activities and aerial mapping & GIS services.

Firetail brings together natural environments and sustainable agriculture techniques for benefits to landscapes, biodiversity, farming operations and communities.

FIRETAIL represents the Diamond Firetail, a small woodland finch that is threatened in central Victoria due to land clearing and depletion of intact woodland habitat, and the Resin bee of the genus Megachile, a solitary native bee that are often affectionately referred to as firetails for their bright orange/yellow tails. Both these species play important roles in healthy landscapes and are under threat from land use, clearing and fragmentation of bushland and intact woodlands. Firetail brings together natural environments and sustainable agriculture techniques for benefits to landscapes, biodiversity, farming operations and communities.

These Firetails are a symbol of healthy landscapes and woodland environments and their presence represents an environment that can support abundant habitat opportunities required for a thriving, diverse population. If we can bring back species such as this, it is a key marker in the restoration of a healthy landscape and the benefits for biodiversity, farming and community that comes with this. By improving this biodiversity, landscapes will be enhanced, retaining more moisture year-round, providing food sources for a healthy ecosystem and contributing to efficient farming environments.



What we offer

Land Stewardship Consultation and Planning

Specialist planning and assessment services for private and public land, including:

- Property planning for revegetation, planting and property restoration
- Weed management plans
- Flora and fauna surveys
- Soil assessments and testing
- Farm planning for rotational grazing, vegetation management, transition to sustainable and regenerative practices
- Perennial fodder systems

Precision Drone Services, Surveys and GIS

Accredited commercial operator and drone pilot with extensive experience in technical design and engineering providing services in photogrammetry, hyperspectral and LiDAR drone solutions including:

- Aerial surveys, contour extraction and high resolution prescription maps (RGB, hyperspec, LiDAR)
- Planning and monitoring for environmental outcomes
- Landscape and vegetation assessments - (RGB, hyperspectral and LiDAR mapping)
- Asset and infrastructure monitoring and assessment
- Onground aerial application treatments
- Specialist GIS mapping and drafting solutions including topographic mapping, vegetation and canopy assessments and customised GIS and information solutions

This process includes high resolution localised orthomosaic mapping, advanced landscape assessment and design and multispectral imagery to better understand plant and landscape health

Regenerative Agriculture Support, Consultation and Program Design

Advice, planning and project consultation in regenerative agriculture and carbon based management plans including:

- Soil management, testing, interpretation and assessment
- Rotational grazing planning, cover cropping and vegetation management
- Farm planning & assessments
- Integrated farm design for biodiversity, water cycles, managing vegetation cover & farm inputs, developing stock plans, cover cropping programs.
- Planting design for maximum farm benefit
- Silvopasture systems with native and exotic species

Carbon, EGS and Nature Repair

Specialised assistance in understanding, designing, planning and delivering EG&S based projects in carbon and landscape repair including:

- Strategic carbon, biodiversity and emissions consultation, reporting & community or professional workshops
- Developing opportunities in carbon and ecology and biodiversity outcomes and identifying appropriate market pathways
- Assisting in the development and delivery of EG&S projects on farm, landscape and community scale

Providing support to develop community and landscape-based carbon projects, aggregating landholders and communities, promoting greater impact for biodiversity, community and farmers.



Current Projects



ASC Corporate Greenhouse Gas Carbon Abatement and Sequestration Policy

Firetail is currently working with Alpine Shire Council in the development of its Corporate Greenhouse Gas reduction and carbon abatement policy.

The project focuses on pathways for the Shire to develop internal carbon sequestration opportunities with local catchment authorities, Landcare groups and Network and other community-led groups to pursue meaningful outcomes in carbon and in biodiversity improvements.



Pale Yellow Water Lily Survey and Aerial Treatment Development

Firetail is working with North Central CMA to survey and monitor populations of Pale Yellow Water Lily in reaches of Gunbower Creek. This project includes five monitoring sites that are treated seasonally and monitored to better understand how the species responds to treatments. It has also evolved to include the development of aerial spray trials and practices to better manage the species in areas of the creek.



Victorian Carbon Program Pilot

Firetail is working with regen Farmers Mutual, as its Lead Regen Advisor in Victoria, to deliver the State Government Victorian Carbon Program Pilot. This program is designed to work with Victorian primary producers to understand their opportunities and take advantage of program incentives to develop well designed carbon and biodiversity projects that can become registered ERF or, once developed, Nature Repair Market projects. The program is currently being piloted in the North Central catchment before rolling out across Victoria.



Weed Surveillance UAV Workflow Development

Firetail is currently working with interested groups and land managers to better identify and assess areas of Serrated Tussock in areas managed for biodiversity values. These methods provide improved management opportunities and assist in reporting and decision making actions for more effective landscape management.



Drones for Hire Victorian Technical Support

Firetail is the Victorian technical representative agent for Drones for Hire, we work with DfH and its clients to develop appropriate and fit-for-purpose fleet management workflows, provide technical and setup support and provide specialist training in utilising UAV workflows for environmental management

Our Clients and Collaborators

