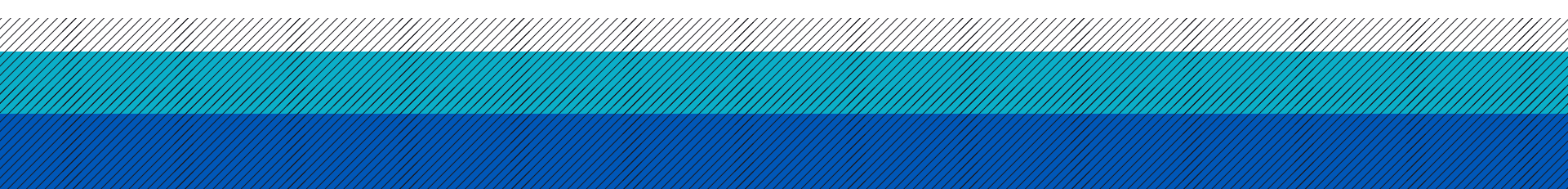


Energy NSW – Leewood Phase 2

10th March 2015

Narrabri CCC

Santos
We have the energy.



Agenda

Leewood Phase 2 - Planned Activity

- Introduction
- Site Overview
- Leewood Phase 1 - Background
- Leewood Phase 2 - Planned Activities

Field Layout - Overview

Wilga Park and Tintfield

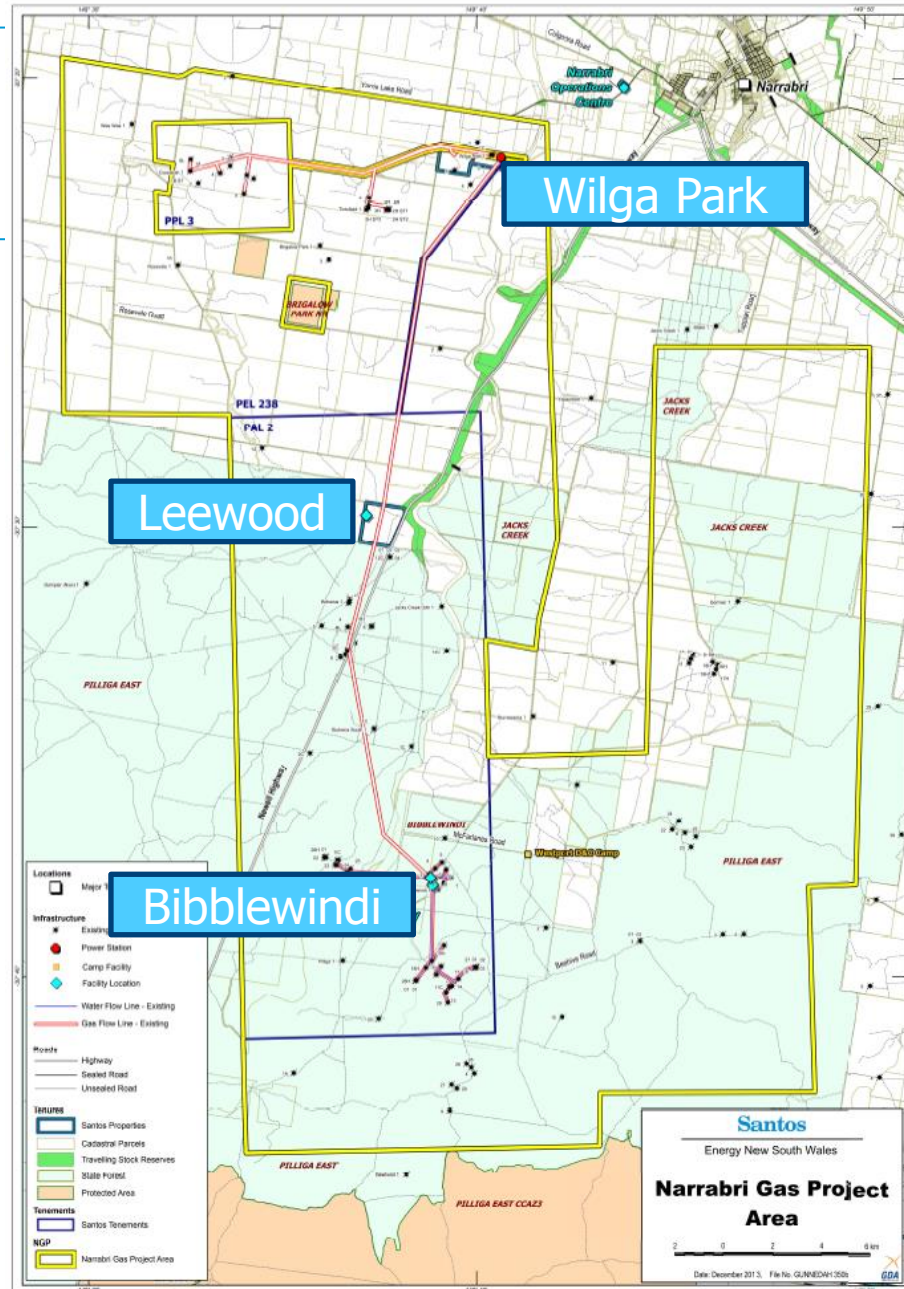
- Power station – pilot gas
- Pilot wells

Leewood

- Ponds
- Proposed water treatment
- Proposed irrigation

Biblewindi – Area

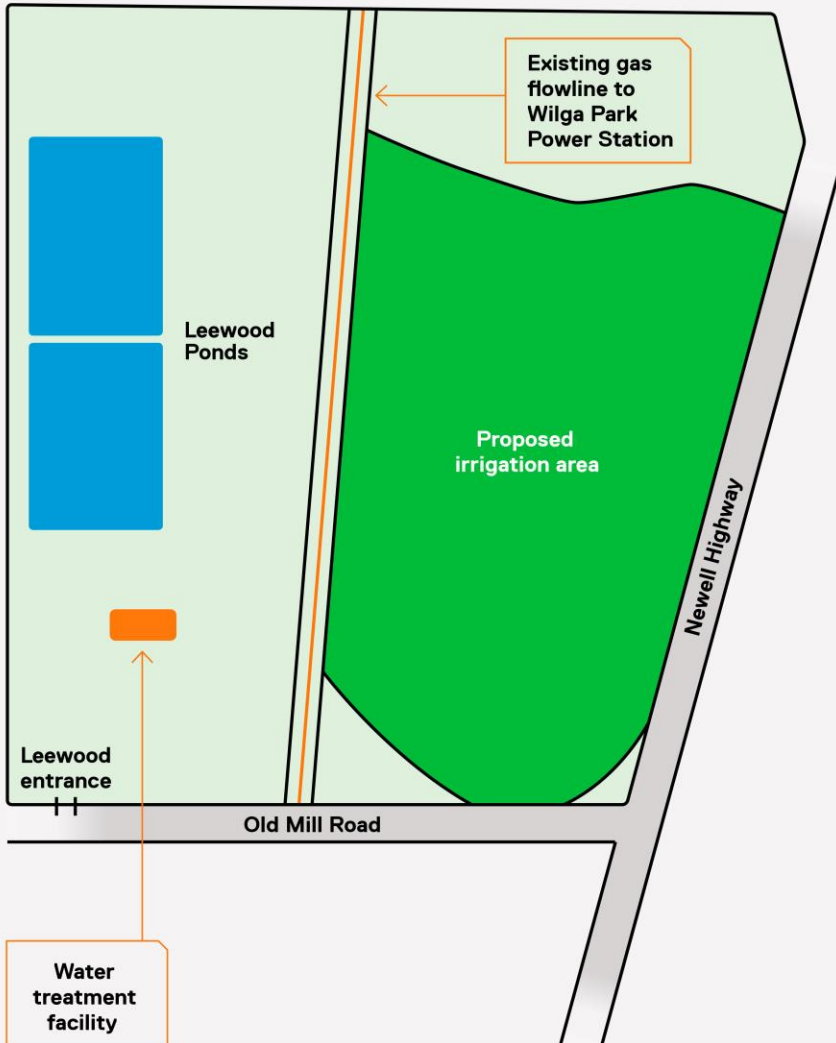
- Pilots well collection point
- Pipelines – gas and water



Other Activities

- Rehabilitation
- Drilling and completions
- Gathering pipelines

Leewood Objectives and Strategy



Phase 1

- Ponds
- Pipeline

Phase 2

- Water Treatment
- Beneficial Use

Phase 3

- Salt Disposal

Leewood Phase 1

Phase one now complete

- › Construction of two 300 ML double - lined ponds
- › Flowlines to transfer water from Bibblewindi to Leewood
- › All legacy brine now contained in the Leewood ponds



Leewood Phase 2 Proposal



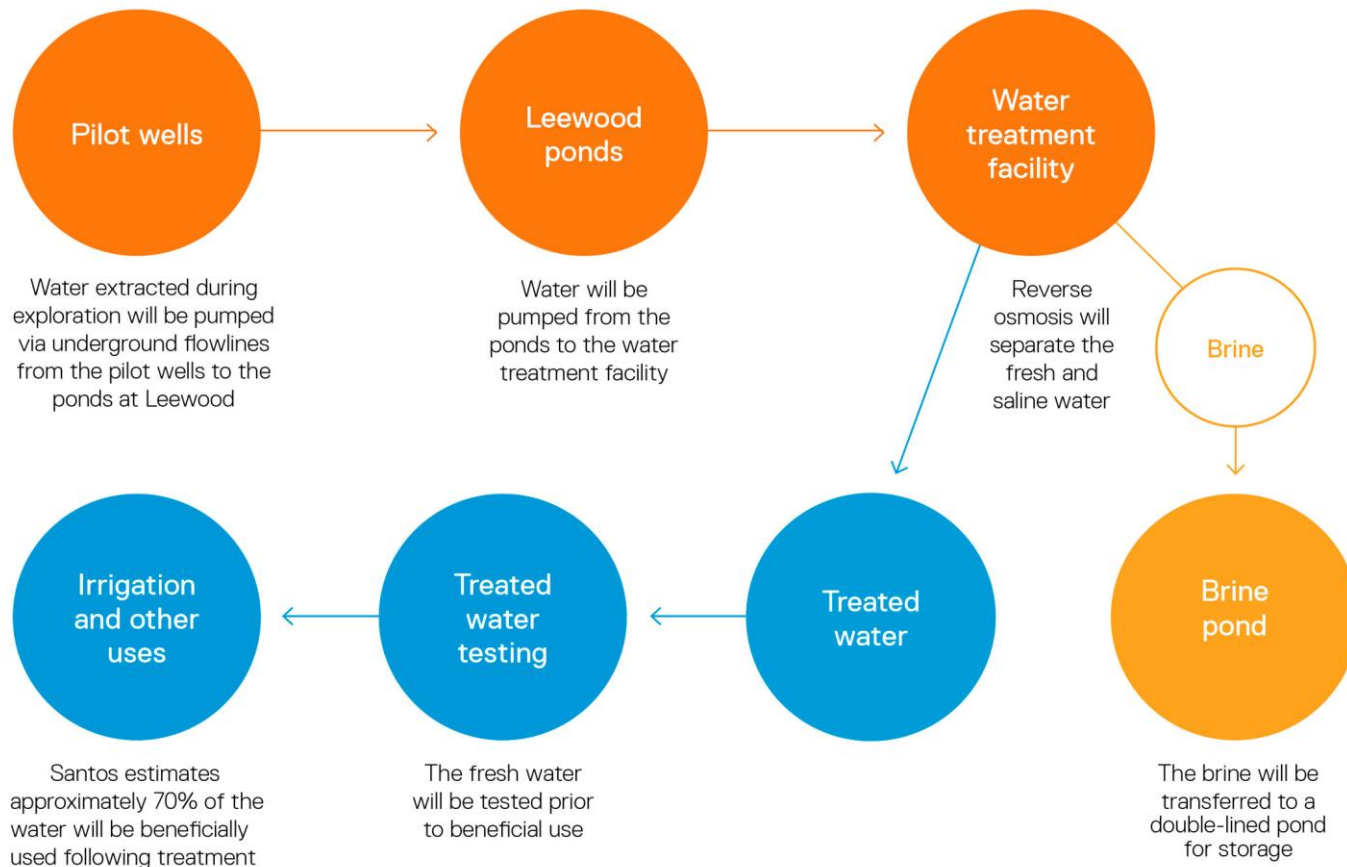
Leewood Phase 2 Scope

Construction of Leewood Phase 2 will take around 10 to 12 months and include the following infrastructure:

- ✓ Water treatment plant, including a reverse osmosis plant and brine concentrator;
- ✓ Associated pipework to transfer water and brine around the facility;
- ✓ Treated water storage
- ✓ Treated water irrigation system

Leewood Strategy

The Process



Beneficial Water Re-use



Approximately 70% of water will be reused during exploration and appraisal

- › Average of 1 megalitres per day of treated water
- › Treated water will be re-used for irrigation at the Leewood property through a managed irrigation system
- › Also available for other beneficial uses both on and off site including dust suppression, drilling and construction, firefighting and/or optional third party agricultural irrigation
- › Water tested to ensure it is of suitable quality and complies with NSW and Australian guidelines

Leewood Phase 2 Assessment and Approval Process



ESG2: Environmental Impact Assessment Guidelines

For exploration, mining and petroleum production activities subject to Part 5 of the *Environmental Planning and Assessment Act 1979*

Including content requirements for a Review of Environmental Factors (REF)

MARCH 2012, WWW.MINERALS.NSW.GOV.AU

NSW Trade & Investment - Mineral Resources Branch

