

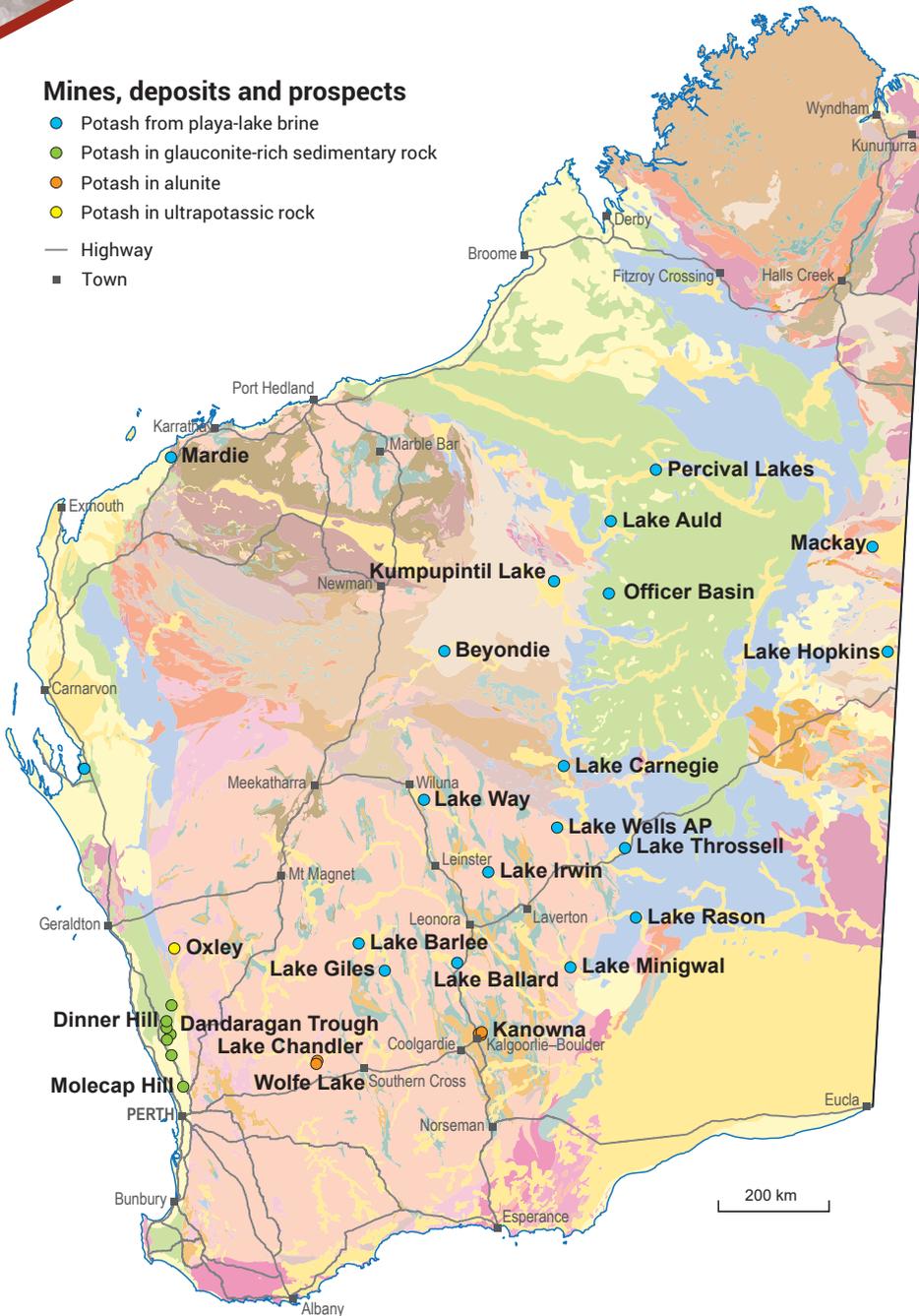
# POTASH

## INVESTMENT OPPORTUNITIES

**WORLD-CLASS RESOURCE PROVINCE | SECURE INVESTMENT LOCATION  
WORLD-LEADING GEOSCIENTIFIC DATA | GLOBAL MINING SERVICES INDUSTRY**

### Mines, deposits and prospects

- Potash from playa-lake brine
- Potash in glauconite-rich sedimentary rock
- Potash in alunite
- Potash in ultrapotassic rock
- Highway
- Town



### First shipment of potash from brine from the Beyondie project

- Commercial sales from the Beyondie SOP plant commenced in July 2022
- Western Australia is well positioned to take advantage of the current high demand for potash from both domestic and international markets
- The two most common forms of potash are:
  - Sulfate of Potash (SOP) – potassium sulfate ( $K_2SO_4$ )
  - Muriate of Potash (MOP) – potassium chloride (KCl)
- SOP is a premium potash fertilizer unlike MOP which can be harmful to plants. SOP is used primarily on high-value crops, usually leafy plants, fruits and vegetables
- Western Australia has eight brine potash projects with resources all planning to produce SOP by pumping potassium-rich brine into ponds with potassium salts crystallizing by solar evaporation, then harvesting and processing
- Development of SOP projects in Western Australia most recently focuses on playa-lake brine deposits, with several globally significant resources identified including Beyondie, Lake Way, Kumpupintil Lake, Lake Wells and Mackay
- Major works have begun at the Mardie Salt + Potash Project which will produce 5.35 Mtpa of NaCl and 140 ktpa of SOP from seawater
- New discovery at Lake Throssell, with SOP grades up to 14,500 mg/L and a Maiden Resource Estimate recently announced
- The strategic importance of developing these large-scale brine projects is recognized by the State Government, which in 2019, introduced a concessionary rental rate for mining leases (deriving minerals from brine) to reduce the fixed cost imposed by government to a level more comparable with other conventional mining operations

**418**  
Full-time employees



**\$2,104 m\***  
Investment projects



**5%**  
Royalty rate



(2021–22 financial year)

\* Includes projects planned, possible, committed or under construction as of September 2022



Department of Mines,  
Petroleum and Exploration

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Geological Survey of  
Western Australia

# Potash resources ranked by drainable resources of SOP(Mt)

Resources estimated according to JORC 2012

Project	Status	Owner	Drainable resource SOP (Mt)	Grade SOP (mg/L)	Drainable resource K (Mt)	Grade K (mg/L)
Kumpupintil Lake	Feasibility	Reward Minerals	153.00	11 350	68.6	5 090
Mackay	Feasibility	Agrimim	123.40	7 326	55.3	3 285
Beyondie	Operating	Kalium Lakes	33.47	13 516	15.0	6 061
Lake Wells	Feasibility	Australian Potash	18.10	7 455	8.1	3 343
Lake Throssell	Scoping	Trigg Mining	14.40	10 400	6.4	4 666
Lake Way	Under development	Salt Lake Potash <sup>1</sup>	9.83	11 910	4.4	5 340
Lake Rason	Exploration	Trigg Mining	6.47	5 220	2.9	2 341
Carnegie	Exploration	Kalium Lakes	2.20	8 700	1.0	3 901
Lake Hopkins	Inactive		4.50	8 583	2.0	3 849

<sup>1</sup>Went into voluntary administration in 2021

Project	Status	Owner	Resources (Mt)	Av. grade K <sub>2</sub> O (%)	Contained K <sub>2</sub> O (Mt)
Dinner Hill	Inactive		910.0	3.81	34.7
Oxley	Feasibility	Centrex Metals	154.7	8.30	12.8
Lake Chandler*	Exploration	Lake Chandler Minerals	5.8	5.73	0.3
Cadoux Kaolin	Feasibility	FYI Resources	11.3	1.01	0.1

Resource estimates have been rounded

\* Compliant with JORC 2004

Spatial and resource estimates data sourced from WA Mines and Mineral Deposit database (MINEDEX)

	Potash from playa-lake brine		Potash in ultrapotassic rock
	Potash in glauconite-rich sedimentary rock		Potash in alunite
	Potash associated with alumina		

## Potash resources in Western Australia

- Another common source of potash is glauconite in sedimentary greensands. The principal resource is within the Perth Basin (Dandaragan Trough potash – phosphate project)
- Additional potash resources are associated with alunite at Lake Chandler
- An unusual potassium resource occurs in feldspar in Proterozoic ultrapotassic microsyenite at Oxley in the Moora Basin. The proposed product is potassium nitrate (KNO)
- Historical production of potash in Western Australia targeted alunite-rich clay deposits at Lake Chandler (9218 t of crude potash) and Kanowna (production not recorded), carried out mainly during World War II



Grader and header operating at the Beyondie SOP project  
(Image courtesy of Kalium Lakes Ltd and the Northern Australian Infrastructure Fund)

### For more information

MINEDEX is a spatial and textual database of mining and exploration activity

**MINEDEX**

[www.dmpe.wa.gov.au/minedex](http://www.dmpe.wa.gov.au/minedex)

GeoVIEW.WA is a free GIS-based spatial viewer

**GeoVIEW.WA**

[www.dmpe.wa.gov.au/geoview](http://www.dmpe.wa.gov.au/geoview)

DMPE'S MINEDEX, Statistics, and Title and Geoscience Services teams have contributed to the production of this flyer

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