ASX: RXL

# ROX RESOURCES LIMITED

## *Focusing on Creating Shareholder Value*

**Ian Mulholland, Managing Director**

**September 2011**

# Competent Person Statement

*The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Mr Ian Mulholland BSc (Hons), MSc, FAusIMM, FAIG, FSEG, MAICD, who is a Fellow of The Australasian Institute of Mining and Metallurgy and a Fellow of the Australian Institute of Geoscientists. Mr Mulholland has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Mulholland is a full time employee of the Company and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

# Resource Targets

*The potential quantity and grades of the resource targets listed in this presentation are conceptual in nature, although they are based on reasonable expectations, but insufficient exploration to define a Mineral Resource has been carried out at this point in time, and it is uncertain whether further exploration will result in the determination of a Mineral Resource.*

# Company Snapshot

| | |
|---|---|
| ASX Code: | RXL |
| Issued Shares: | 398 million |
| Market Cap: | $13 million (at 3.3 cents) |
| Cash (at 30 June 2011): | $4.36 million |
| Enterprise Value: | $9 million |

## Directors & Executive:

| | | |
|---|---|---|
| Chairman: | Jeff Gresham | (Geologist) |
| Managing Director: | Ian Mulholland | (Geologist) |
| Finance Director: | Brett Dickson | (Accountant) |

# Rox Strategy

- Potential for Cash Flow from near term gold production at Mt Fisher
- Longer term value from major discoveries
- Three company making projects covering gold, zinc and phosphate

# Project Locations

### Myrtle Zinc

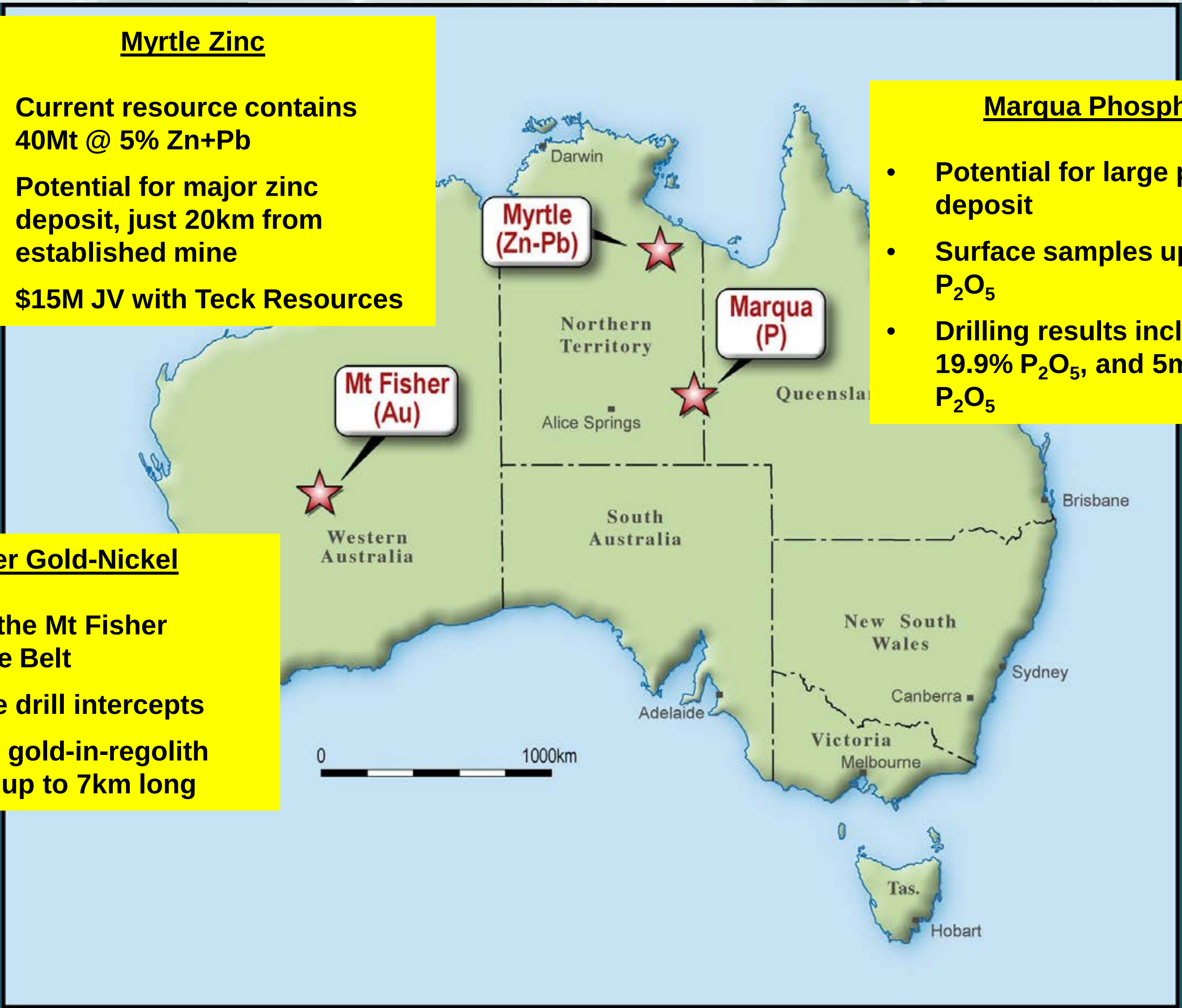
- **Current resource contains 40Mt @ 5% Zn+Pb**
- **Potential for major zinc deposit, just 20km from established mine**
- **$15M JV with Teck Resources**

### Marqua Phosphate

- **Potential for large phosphate deposit**
- **Surface samples up to 39% $P_2O_5$**
- **Drilling results include 6m @ 19.9% $P_2O_5$, and 5m @ 23.7% $P_2O_5$**

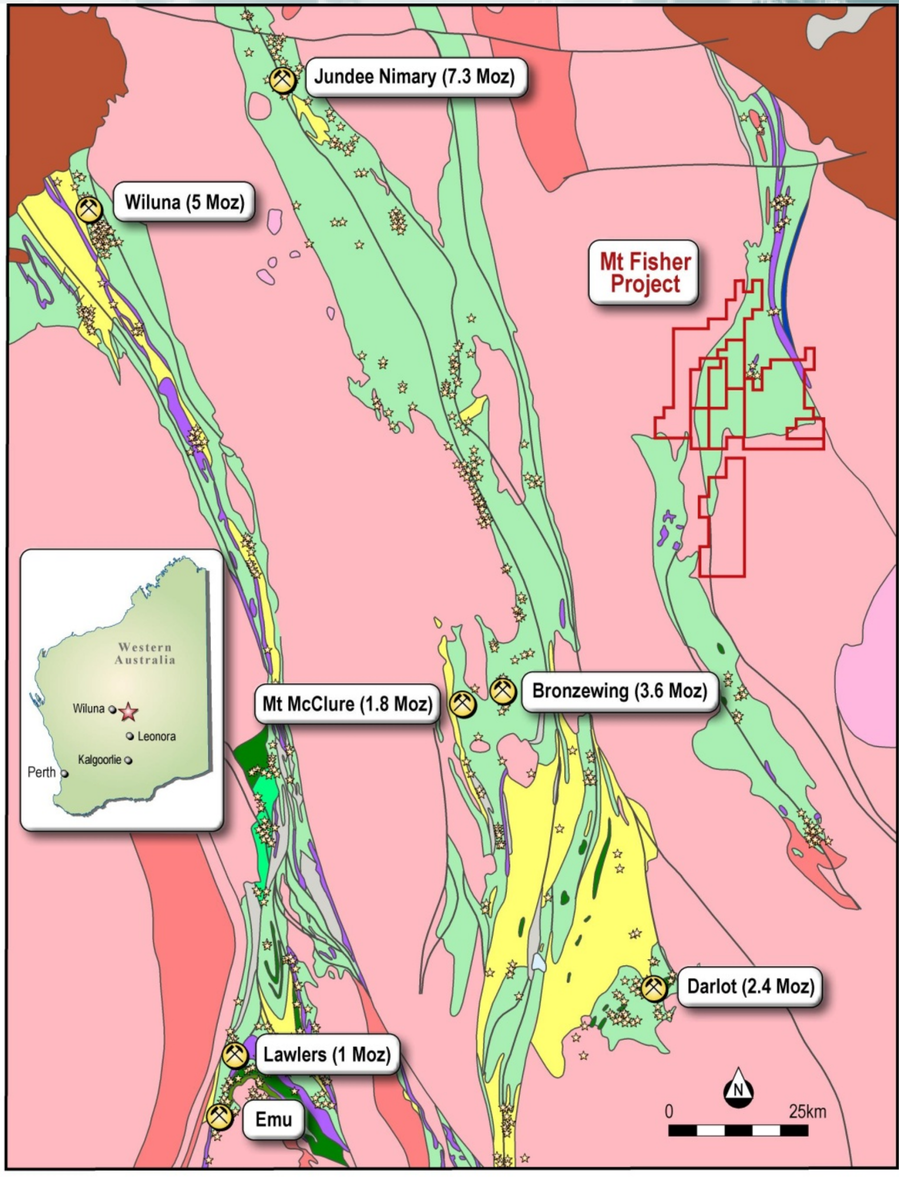
### Mt Fisher Gold-Nickel

- **785km$^2$ of the Mt Fisher Greenstone Belt**
- **High Grade drill intercepts**
- **Significant gold-in-regolith anomalies up to 7km long**



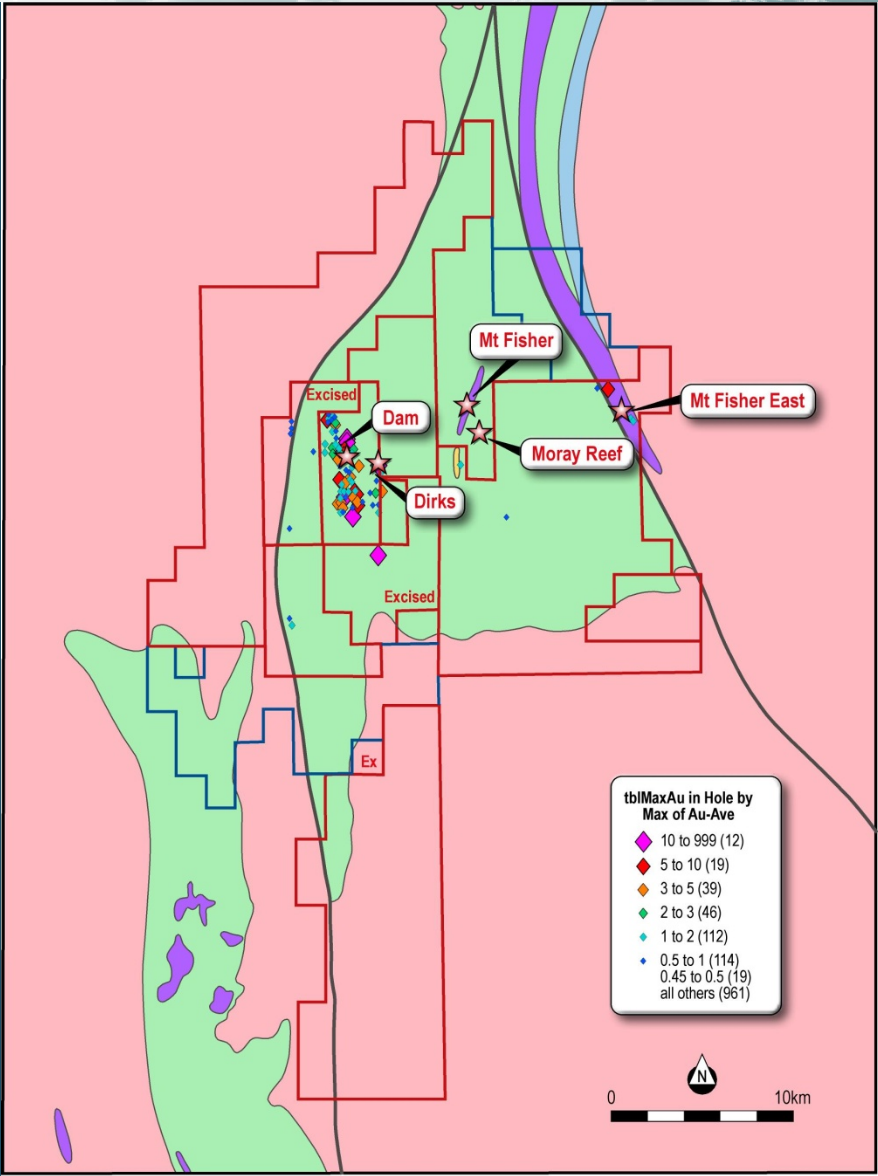
# Mt Fisher Location

- Mt Fisher greenstone belt prospective for gold and nickel
- About 450km north of Kalgoorlie
- Yandal Belt, 17 Mozs gold
- Norseman-Wiluna Belt, >30 Mozs gold
- Mt Fisher Belt hasn't had the same amount of exploration
- Several known gold occurrences and small scale mining (27,000 ozs)
- Just waiting for a major discovery to be made



# Main Prospects

- Rox tenement area covers 785 $km^2$
- Main prospect areas: Dam-Damsel-Dirks, Mt Fisher, Moray Reef and Fisher East
- Gold-in-regolith anomaly at Dam-Dirks is 7km long
- Previous mining at Mt Fisher from underground and open cut (27,000 ozs)
- High grade drill hits at Moray Reef, include 3m @ 67 g/t, 1m @ 187 g/t and 3m @ 8 g/t with high grade resource averaging 5-10 g/t gold indicated
- Gold-in-regolith anomaly at Fisher East over 2-3 km
- Large areas still unexplored



# Production Opportunities

## Moray Reef

- Resource target of 35,000-50,000 tonnes grading 5-10 g/t gold* – resource modelling and pit optimisation underway
- Small tonnage, high margin, toll treatment, granted mining lease

## Damsel

- Recent drilling highlighted a near surface zone with target of 400,000-600,000 tonnes grading about 4-5 g/t gold * that could be mined and toll treated

## Mt Fisher

- Tailings and Low Grade Stockpiles (~360,000 tonnes @ ~1.1 g/t gold *)
- Extensions under open pit – recent drilling 2m @ 5.4 g/t gold
- Granted mining lease
- Multiple targets up to 10 km to the north and south

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ROX RESOURCES

# Resource Targets*

| Resource | Tonnage Target (kt) | Grade (g/tAu) | Gold (kozs) | Comments |
|---|---|---|---|---|
| Moray Reef | 40-50 | 5-10 | 6-16 | Modelling underway |
| Tailings | 200-220 | 1.1-1.2 | 7-8 | Metallurgical testwork |
| LG Stockpiles | 120-140 | 1.0-1.2 | 4-5 | Re-sampling |
| Pit Extensions | 140-500 | 3-5 | 15-80 | Drilling in Oct 2011 |
| Damsel | 400-600 | 4-5 | 50-100 | Drilling in Oct 2011 |
| TOTALS | 900-1,500 | | 82-209 | |

Four treatment plants within 100 km radius

## Longer Term Target is Multi-Million Ounce Gold Camp

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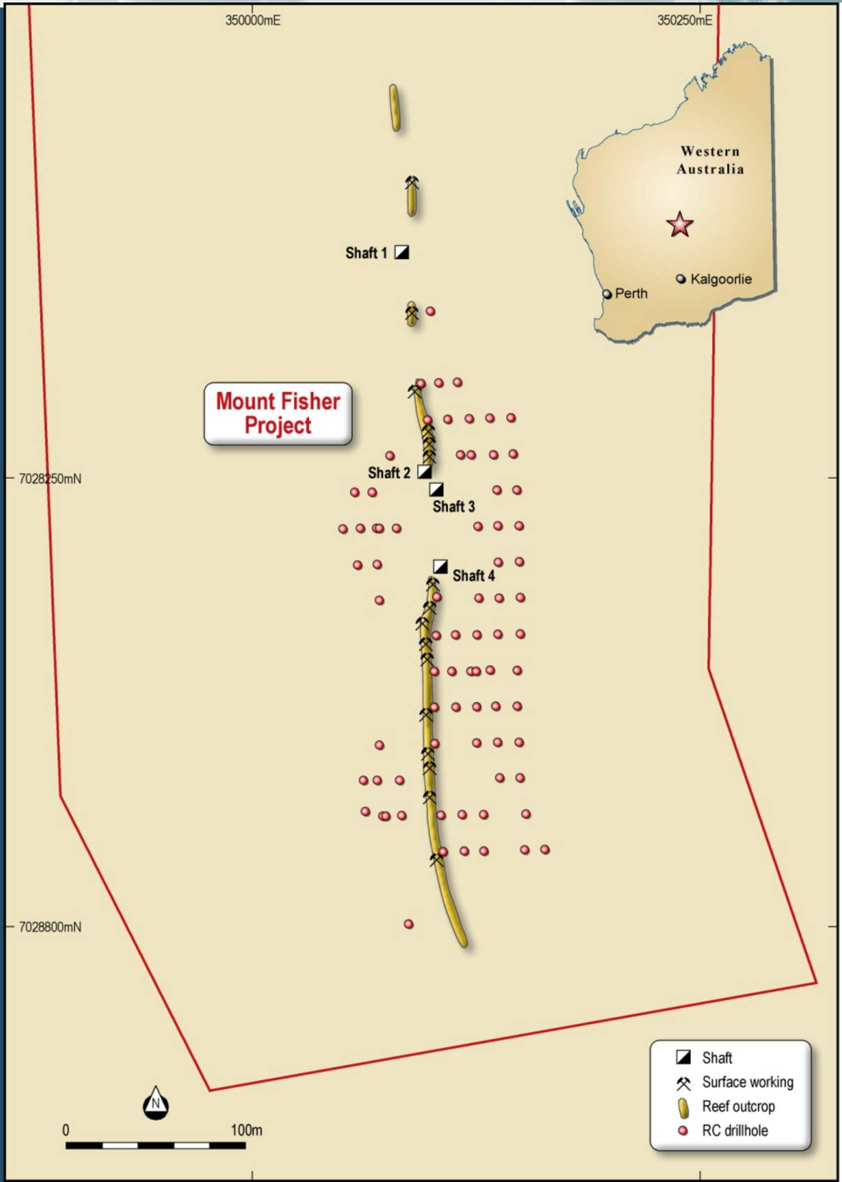
# Moray Reef

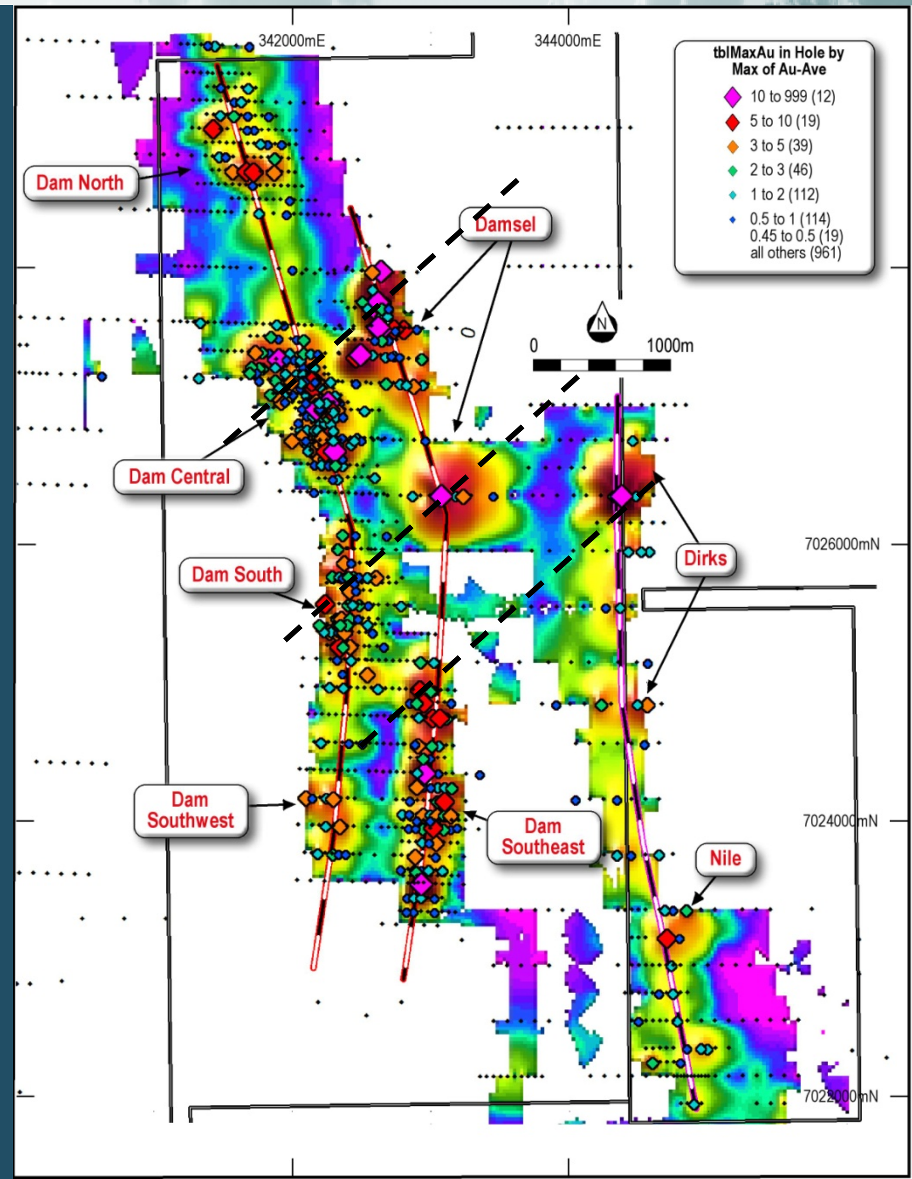
- One simple structure 350m long
- Outcrops and extends to 100m depth
- Previous small scale mining has extracted high grades
- Resource potential of 35,000 – 50,000 tonnes grading 5-10 g/tAu
- Drill intercepts include:

  1m @ 189 g/t Au from 71m
  3m @ 67.9 g/t Au from 45m
  1m @ 64.9 g/tAu from 22m
  3m @ 55.1 g/tAu from 47m
  1m @ 54.4 g/tAu from 46m
  1m @ 19.8 g/tAu from 92m
  2m @ 6.47 g/tAu from 61m
  3m @ 6.89 g/tAu from 85m
  4m @ 6.44 g/tAu from 45m

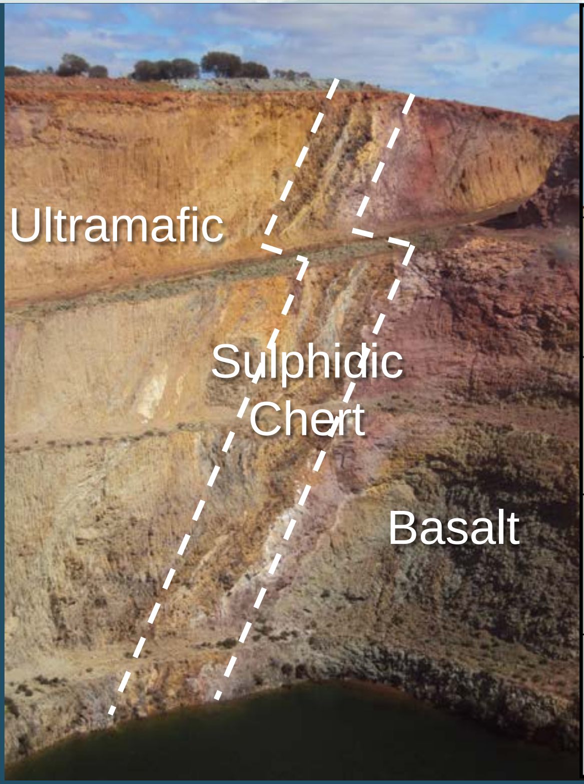


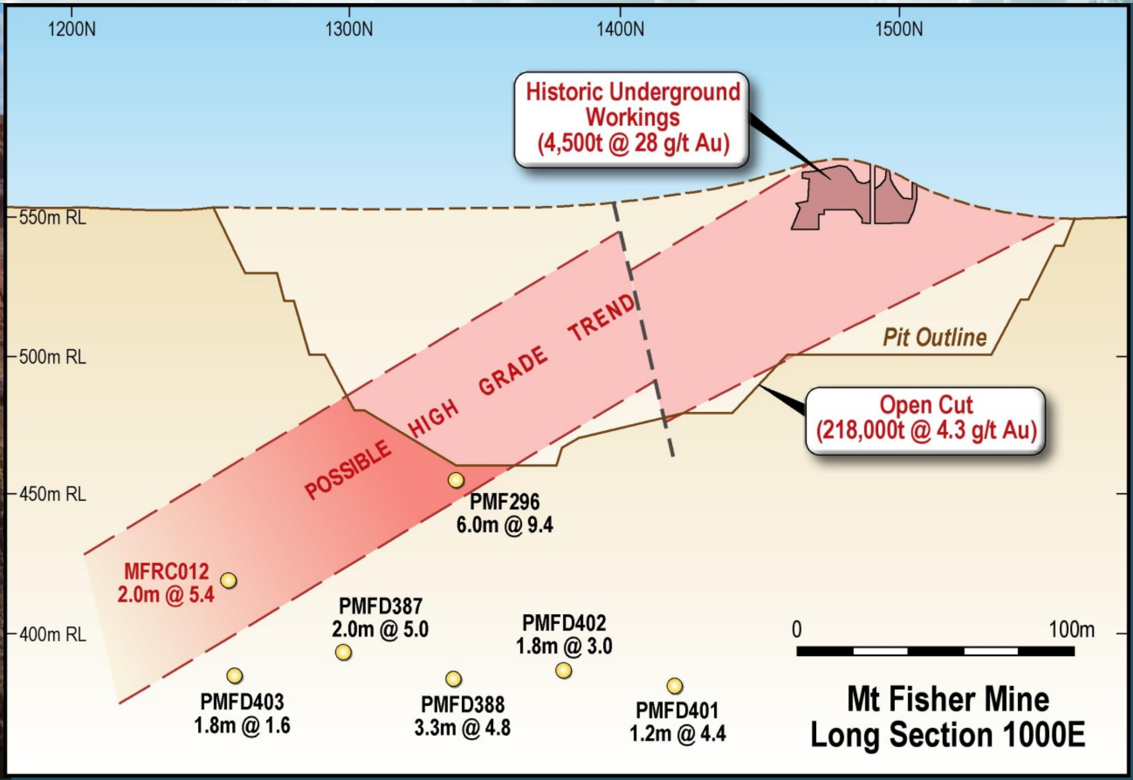
# Dam-Dirks

- Three parallel structures
- Each structure has several “hot spots” which could relate to cross-cutting structures and/or sub-parallel splays
- Drilling at Damsel (resource target of 400-600 kt @ 4-5 g/tAu) includes:
  - 9m @ 4.4 g/t
  - 4m @ 6.1 g/t
  - 18m @ 3.4 g/t
- Drill intercepts at Dam include:
  - 9m @ 7.1 g/t
  - 3m @ 17.4 g/t
  - 4m @ 9.0 g/t, and
  - 8m @ 4.1 g/t
- Drilling at Dirks includes:
  - 2m @ 13.7 g/t



# Mt Fisher Mine Area

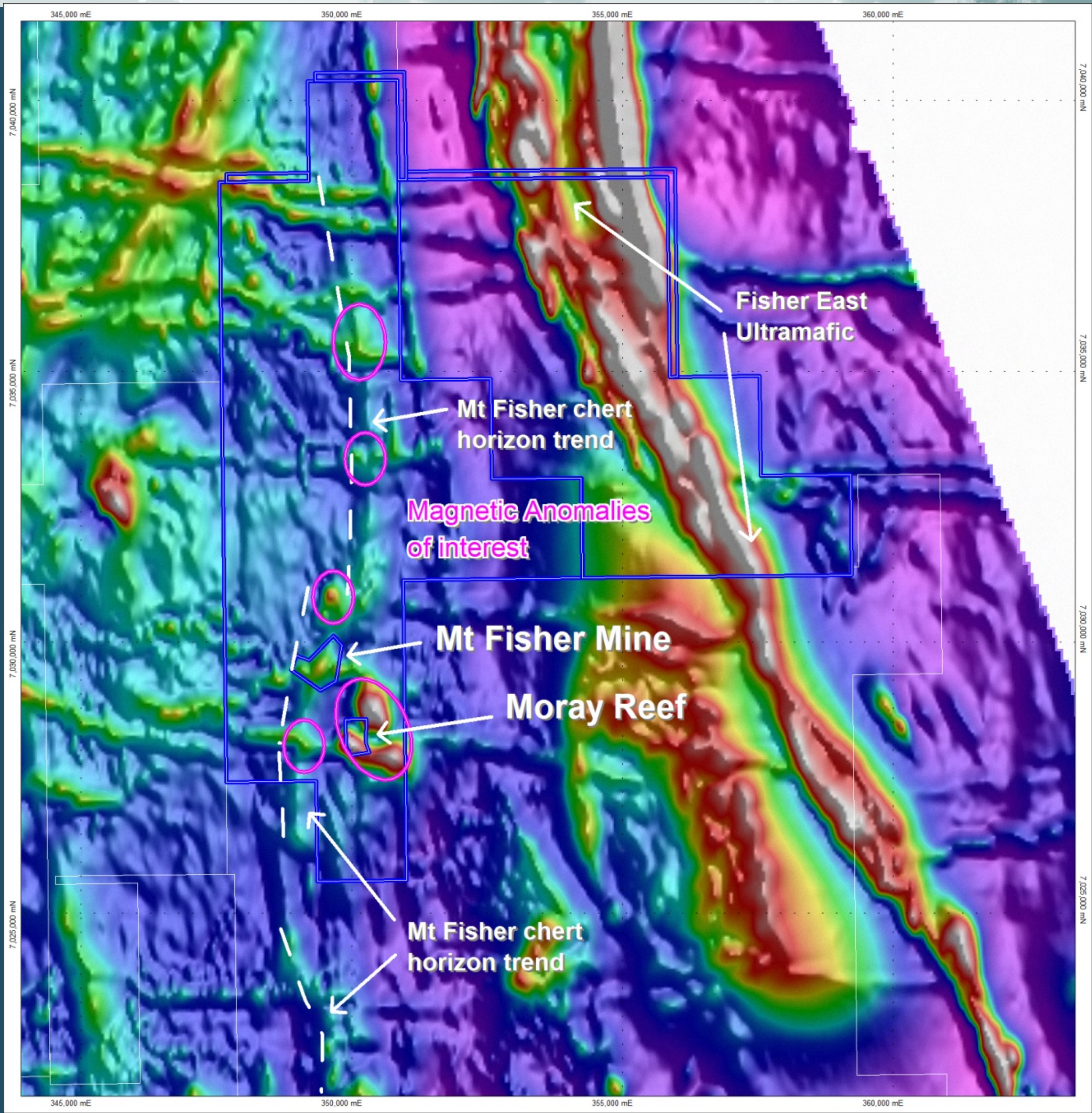



- Similar geological sequence to Bronzewing; ultramafic → sulphidic chert → basalt
- Mineralisation is plunging to south → open at depth
- Drill intercepts such as; 6m @ 9.4 g/t and 2m @ 5.4 g/t
- Still a lot of room for a resource target of 150 – 500 kt at 3 – 5 g/t gold

# Targets Along Strike

- Host to mineralisation at Mt Fisher is sulphidic chert
- Coincident magnetic and EM anomalies at Mt Fisher
- Magnetic anomaly at Moray Reef also
- Detailed aeromagnetics and VTEM flown
- Several gold targets identified
- VTEM also along ultramafic → nickel sulphide targets
- **5,000m of RC drilling in Oct-Nov 2011**



# Myrtle Location

- 20km south of McArthur River Pb-Zn mine
- 670 km$^2$ tenement area
- JORC resource of 43.6 Mt @ 4.1% Zn, 0.9% Pb, for 2.2 Mt (4.8 Blb) contained Zn+Pb metal
  - includes 15.3 Mt @ 5.5% Zn, 1.4% Pb
- Adjacent to existing mine infrastructure at McArthur River (e.g. airport, road, gas pipeline, port)

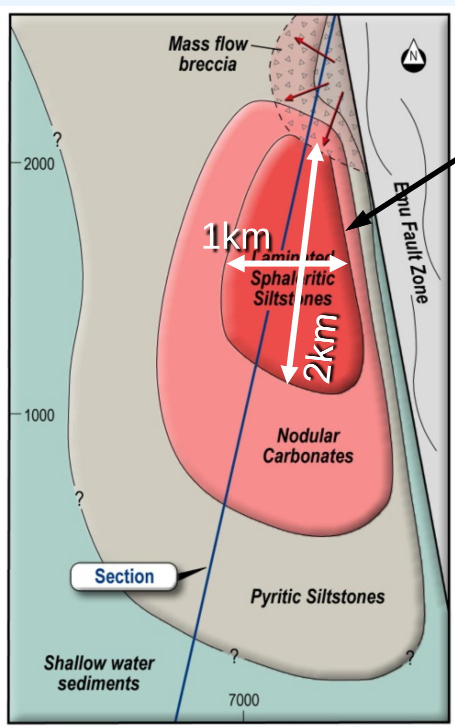
# McArthur River Model

**After Ireland et. al.***

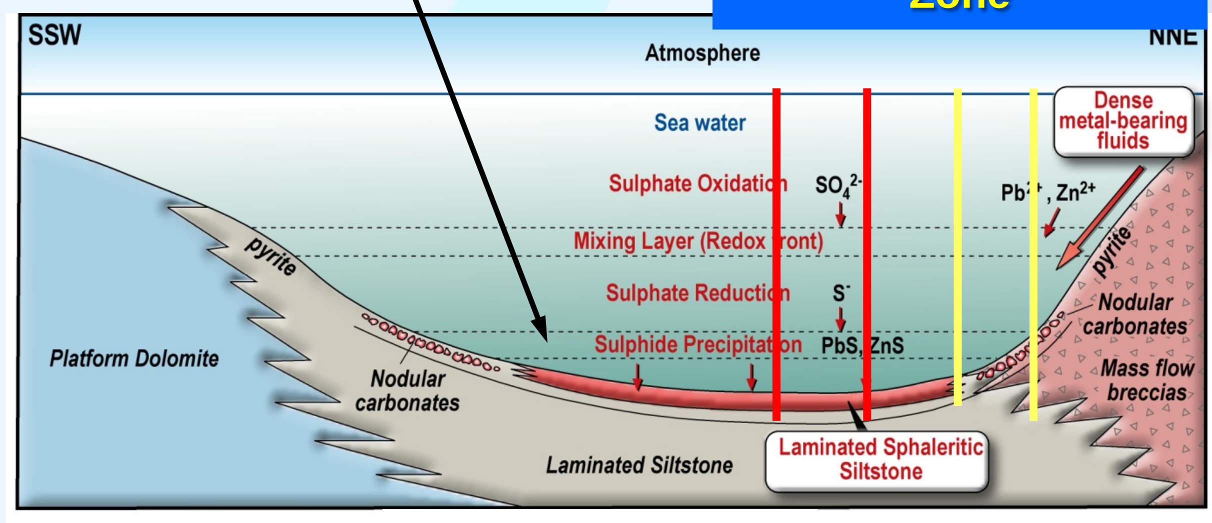
**Central Zone of High Grade (1 x 2km) surrounded by Nodular Carbonate Zone**

**New drill holes to test High Grade Target**

**Existing drill holes located in fringe Nodular Carbonate Zone**




Plan

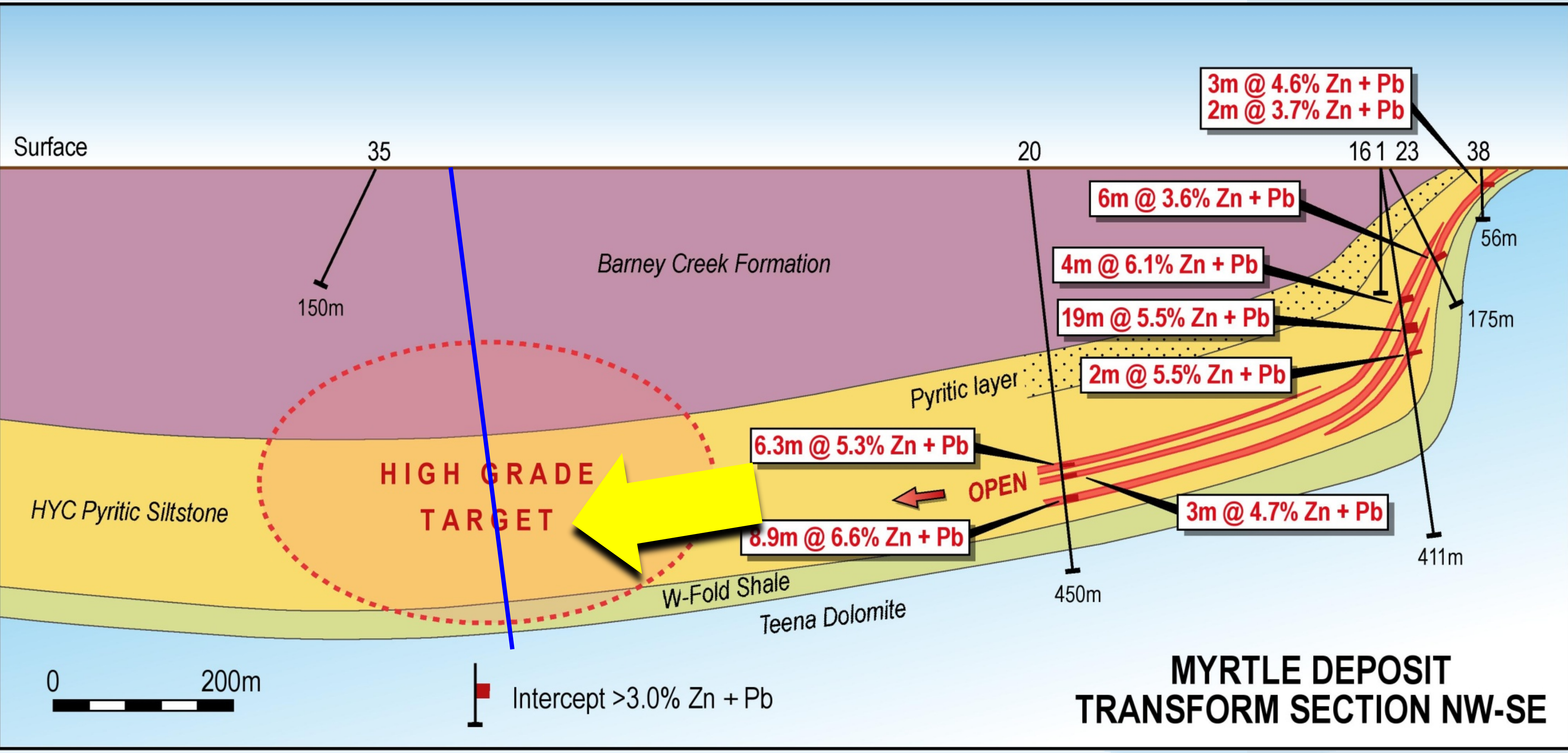



Section

2km

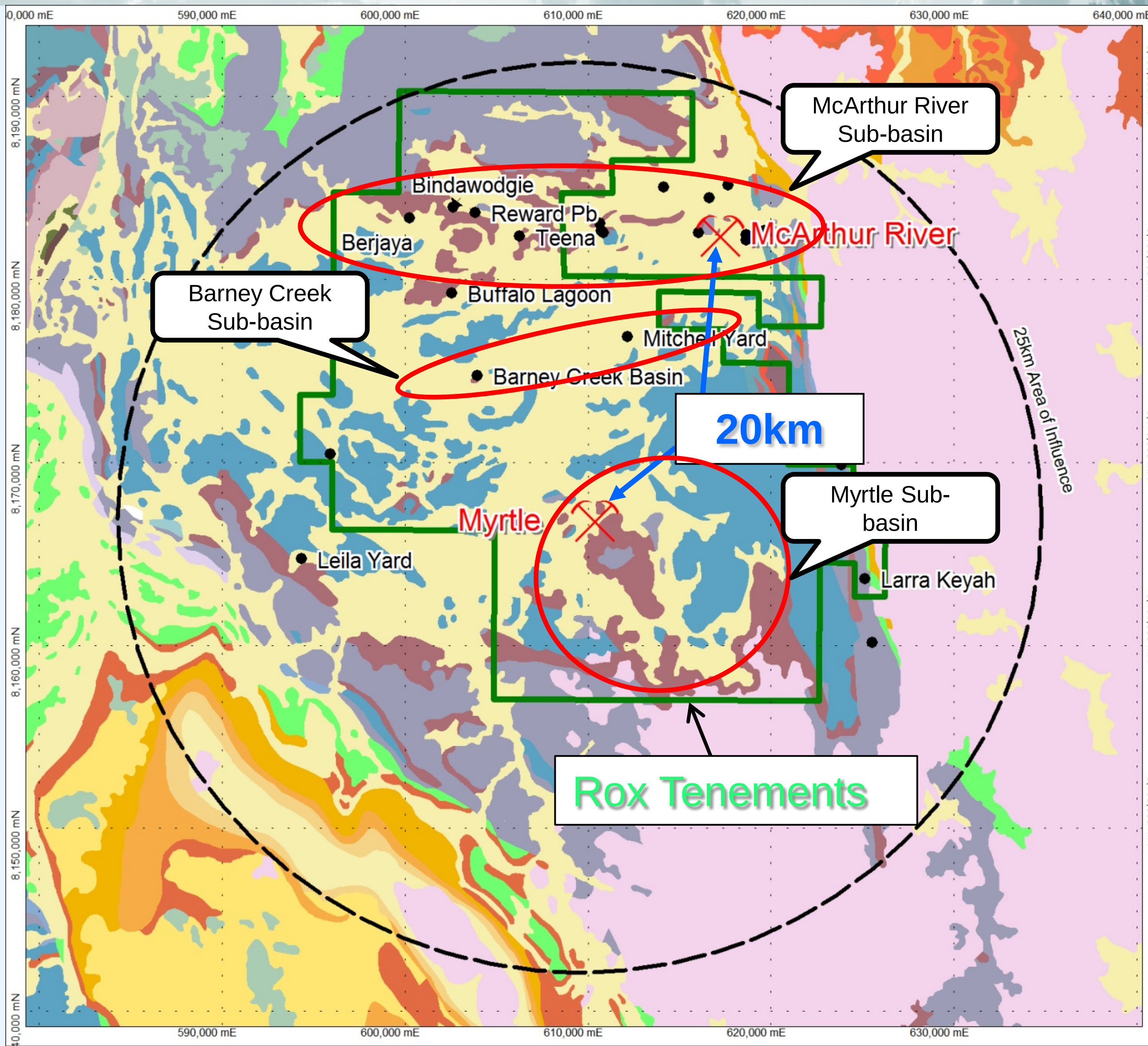
* *Ireland et. al., 2004, Econ Geol. v.99, p 1687-1709, Figures 13 and 18*

# Myrtle Basin Potential



# Geology

- Favourable region for very large Pb-Zn deposits
- McArthur River mine is world class size (220 Mt @ 9% Zn, 4% Pb)
- Form in small "sub-basins"
- Myrtle is only one of a number of exploration prospects



# Rox-Teck JV

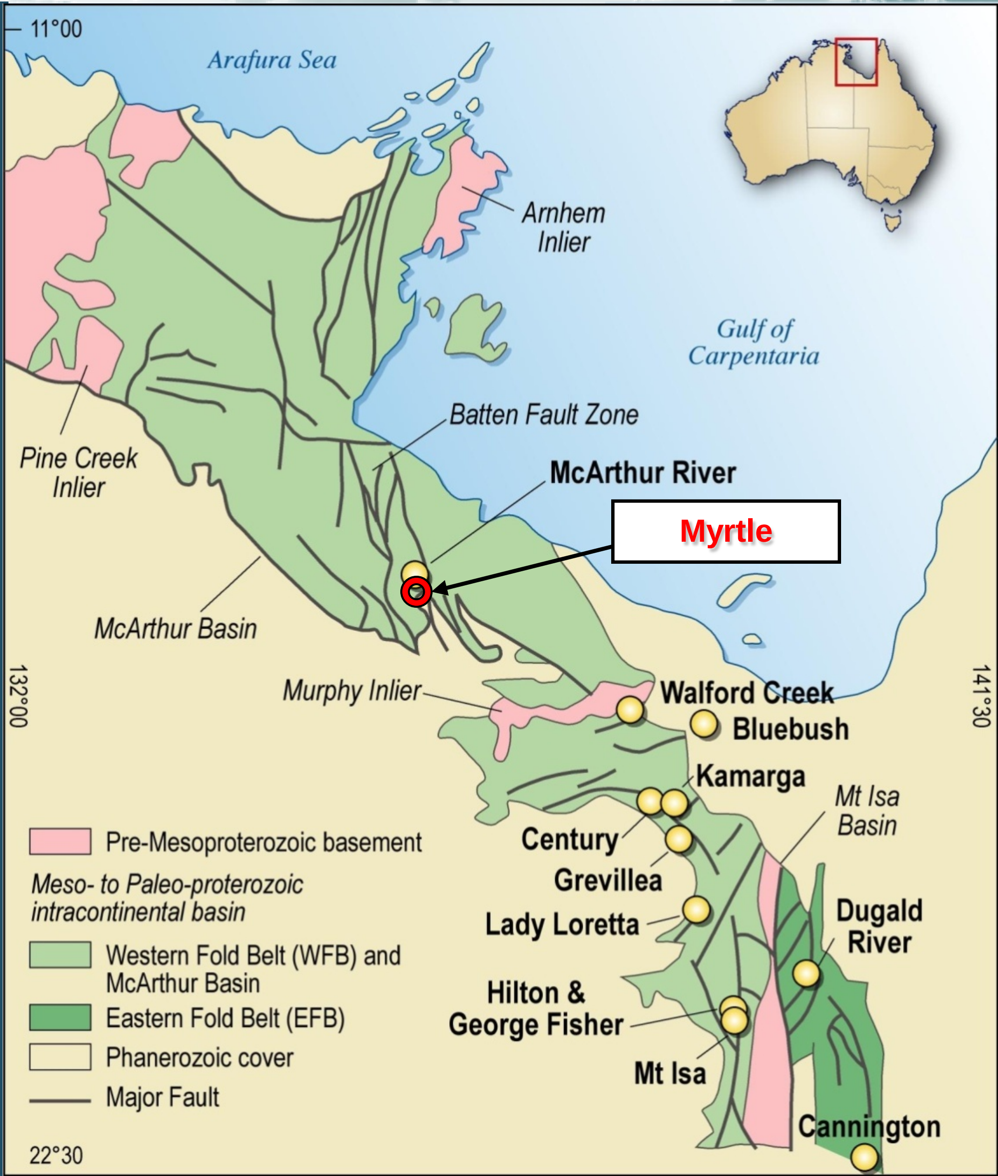
- Teck is world's 2nd largest Zinc producer → production expertise
- US$9B Mkt Cap →Financial strength → long term funding
- Minimum spend of $1M, including 2,000 metres of drilling (will be completed in 2011)
- $5M to earn initial 51% by July 2014 (3 years)
- $15M to earn 70% by July 2018 (7 years)
- Teck want to investigate "all prospects", not just Myrtle → long term involvement
- 2,700m of drilling commencing Oct 2011

# Giant Zn Deposits - Australia

**20% of the world's zinc reserves are contained in the Northern Australian Zinc province**

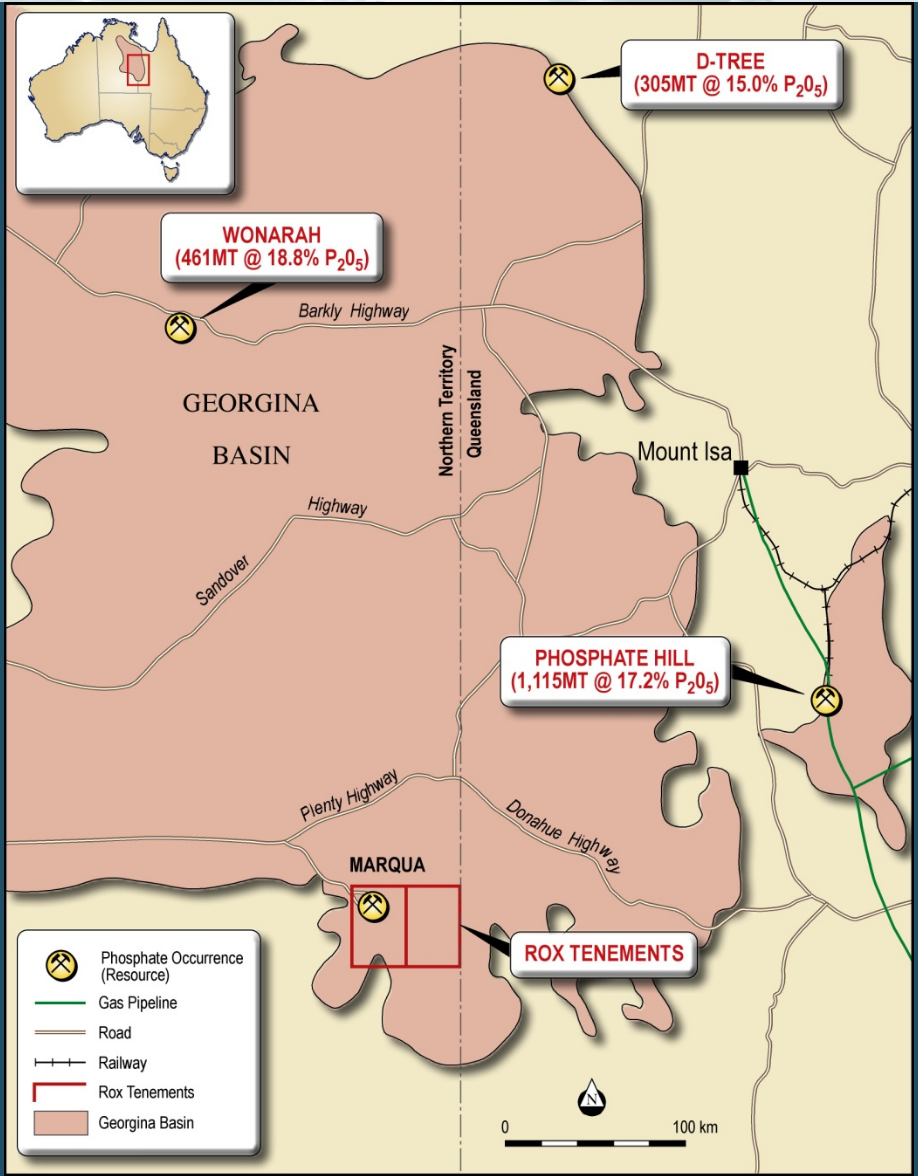
| Deposit | Owner | Mt Ore | Mt Pb+Zn |
|---|---|---|---|
| Broken Hill | Perilya, CBH (BHP) | 280 | 51.8 |
| McArthur River | Xstrata | 227 | 30.4 |
| Mount Isa | Xstrata | 150 | 19.5 |
| Hilton | Xstrata | 120 | 20.3 |
| George Fisher | Xstrata | 107 | 17.7 |
| **Myrtle (target)** | **Rox/Teck** | **100-120** | **10-12** |
| Century | MMG | 95 | 14.1 |
| Dugald River | MMG | 48 | 6.8 |
| Cannington | BHP | 44 | 7.0 |
| **Myrtle (current)** | **Rox** | **44** | **2.2** |
| Lady Loretta | Xstrata | 14 | 3.1 |

**Apart from Myrtle, all owned by MAJORS**

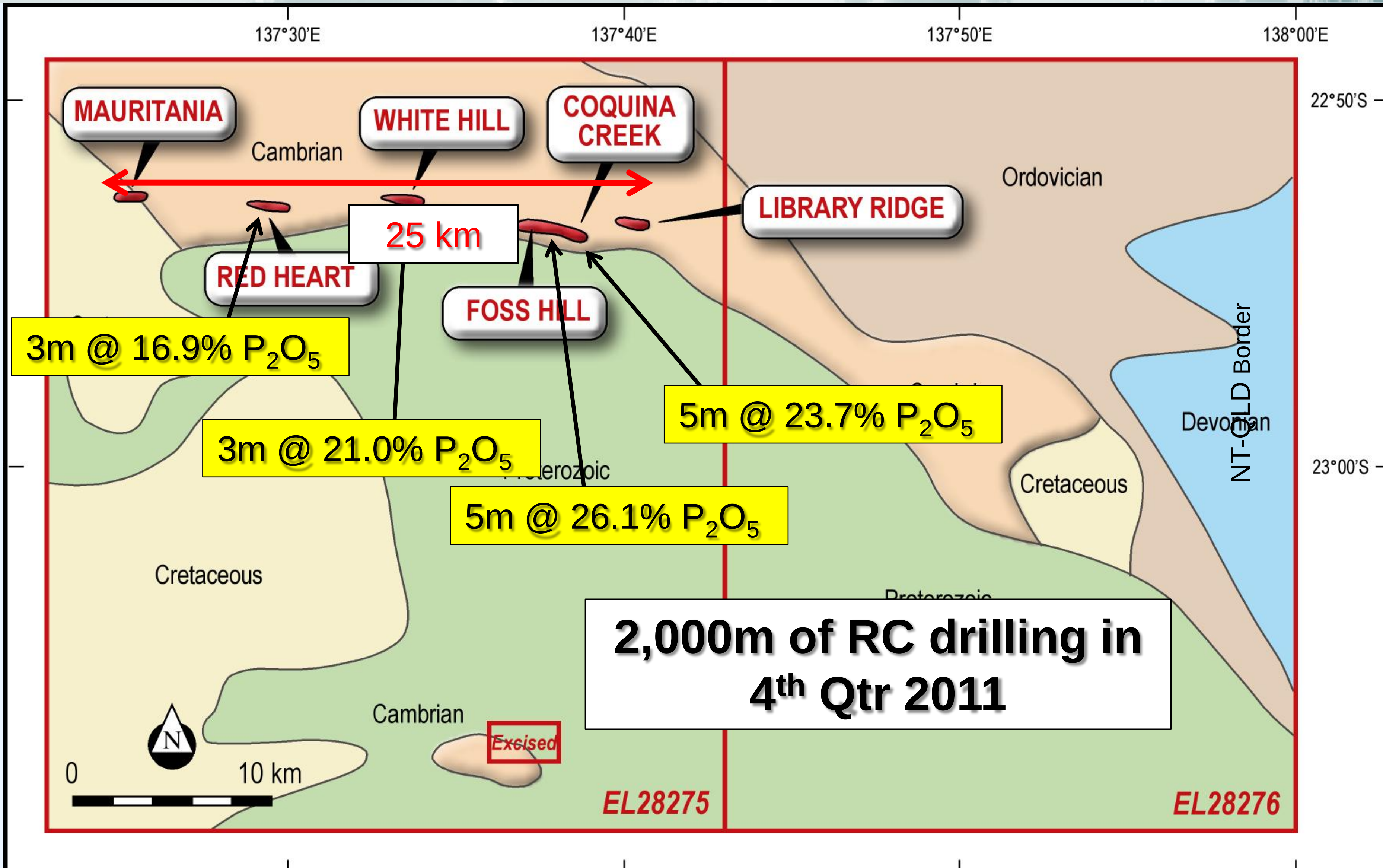


# Marqua Location

- 450 km east of Alice Springs
- Georgina Basin contains 90% of Australia's hard rock phosphate resources
- Only operating mine is at Phosphate Hill (QLD) @ 2 Mtpa
- Other developing phosphate projects are Wonarah , and D-Tree (Lady Annie)



# Marqua Project



# Rox Share Price Drivers

- Near term gold production opportunities – Moray Reef, Tailings/LG Stockpiles
- Drilling at Mt Fisher → 5,000 metres in Oct-Nov 2011 – confirm resource targets at Damsel and Mt Fisher
- Drilling at Myrtle →2,700 metres 4th Qtr 2011
- Drilling at Marqua → 2,000 metres, 4th Qtr 2011

# Summary

## Projects in known areas for world class deposits

**Mt Fisher**

- Potential to establish near term gold production
- Potential to define large high grade gold resource/s

**Myrtle**

- JV funding secured with major zinc company
- High grade targets about to be drilled
- Potential to find an “elephant”

**Marqua**

- Potential to establish large resource in new phosphate area

# Thank You!

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