



# Heron Resources Limited

## **2015 PDAC Conference, Toronto**



**Rapidly Advancing the  
High Grade Woodlawn Zinc-Copper Project  
From PEA to Production**

Wayne Taylor, Managing Director  
1-4 March 2015

**TSX: HER | ASX: HRR**

# Forward Looking & Compliance Statements



## Forward Looking Statements

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## Compliance Statement (JORC 2012 and NI43-101)

The technical information in this news release relating to the exploration results is based on information compiled by Mr David von Perger, who is a Member of the Australian Institute of Mining and Metallurgy (Chartered Professional – Geology). Mr von Perger is a full time employee of Heron Resources Limited and 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 2012 edition of the "Australasian Code for Reporting of Exploration Results and "qualified person" as this term is defined in Canadian National Instrument 43-101 ("NI 43-101"). Mr von Perger has reviewed this press release and consents to the inclusion in this news release of the information in the form and context in which it appears.



## Focused on the development of the Woodlawn VMS Project

### Key Characteristics

- ⌚ High grade / high value deposit
- ⌚ Established Mineral Resources & Ore Reserves
- ⌚ High grade underground (**WUP**) and advanced tailings project (**WRP**)
- ⌚ Granted mining lease and project approvals in place
- ⌚ Excellent infrastructure: road, rail, power, water

### Development Program

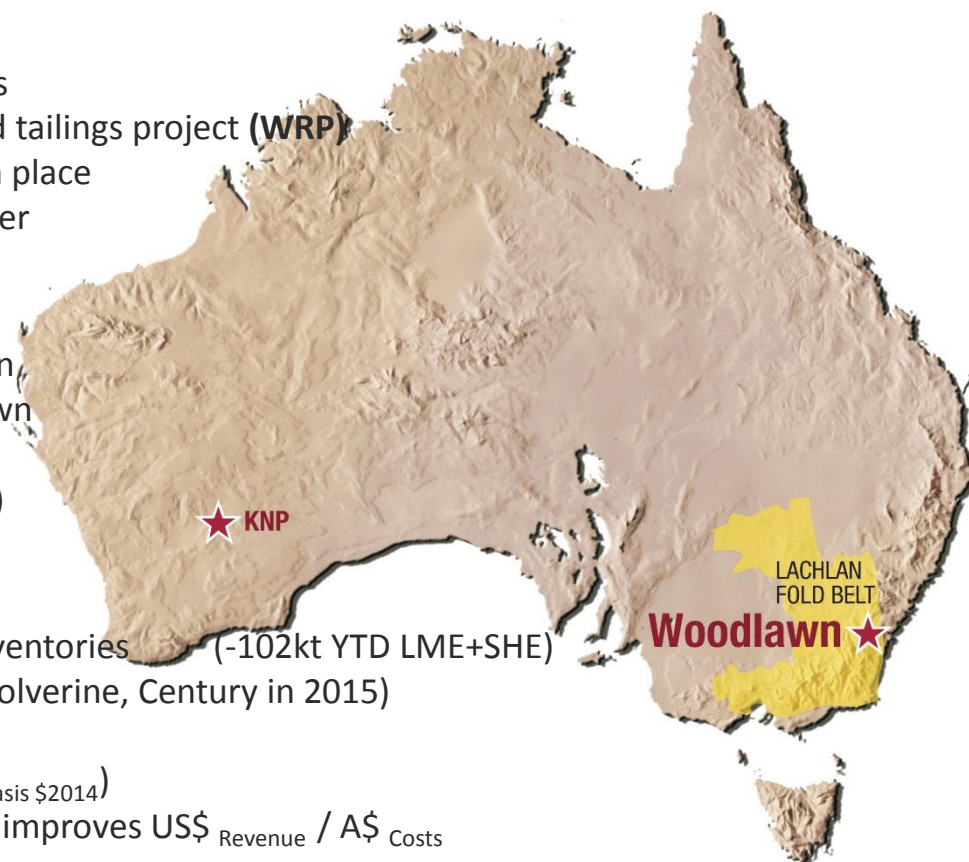
- ⌚ Woodlawn drilling & PEA – nearing completion
- ⌚ Program to deliver BFS for combined Woodlawn Underground and Tailings Projects
- ⌚ Fully funded to BFS - cash \$28 million (31 Dec)

### Commodities with Strong Fundamentals

- ⌚ Zinc market in supply deficit with declining inventories (-102kt YTD LME+SHE)
- ⌚ Significant mine supply scheduled to close (Wolverine, Century in 2015)
- ⌚ Limited quality development projects
- ⌚ Strong pricing forecast (MBL L/T US\$2600/t basis \$2014)
- ⌚ Devaluation in A\$ (1.08<sub>Feb 2012</sub> → 0.78<sub>Feb 2015</sub>) improves US\$<sub>Revenue</sub> / A\$<sub>Costs</sub>

### Quality Project Inventory

- ⌚ Lachlan Fold Belt, NSW projects: Lewis Ponds, Overflow, Calarie – Zn + Cu + Pb + Ag + Au
- ⌚ Kalgoorlie Nickel Project, WA: Substantial nickel exposure



# Heron Resources

## Corporate Summary



### Capital Structure

TSX : HER	ASX : HRR
Shares:	360.9m
Options:	16m
Share Price:	\$0.14
Market Capitalisation:	\$51M
Cash:	\$27.9M (31 Dec 2014)
Listed Investments:	\$2.9M

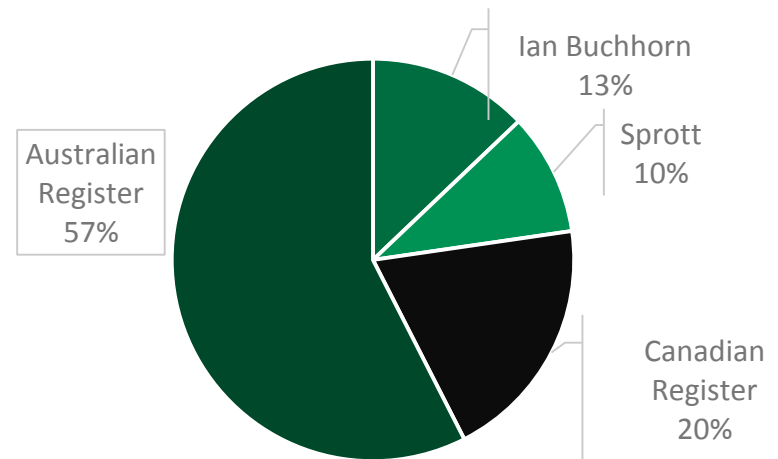
### Share Price



### Board & Management

Chairman	Craig Readhead
Non-Executive Director	Stephen Dennis
Non-Executive Director	Borden Putnam III
Executive Director	Ian Buchhorn
Managing Director & CEO	Wayne Taylor
General Manager Exploration	Dave von Perger
General Manager Strategy	Charlie Kempson
CFO & Company Secretary	Simon Smith

### Share Register

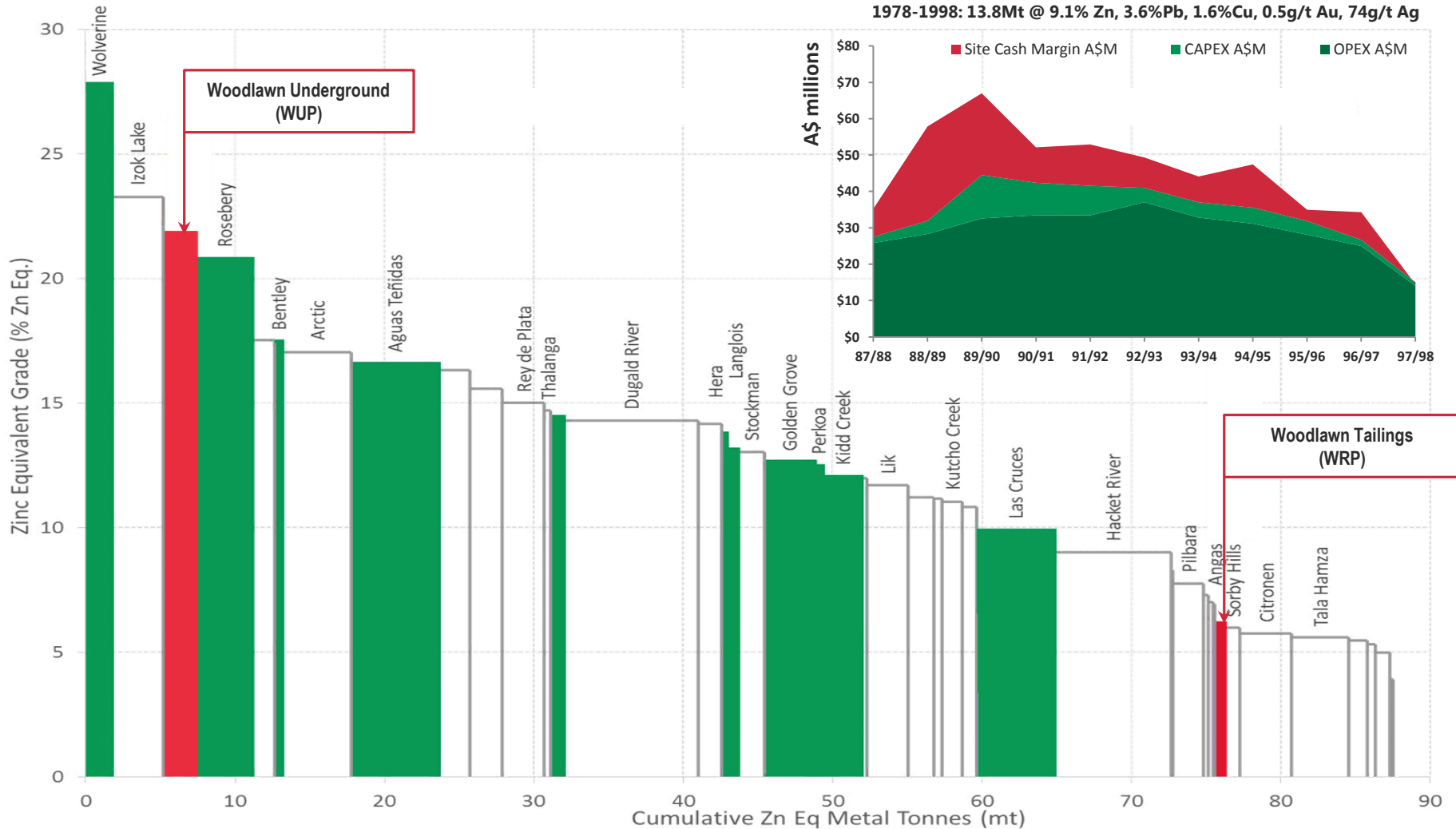


# Woodlawn – High Grade Deposit

First Quartile Resource Grade ♦ Prior Operations



Size & Grade of Selected Polymetallic (Zn-Pb-Cu-Ag-Au) Deposits



Source: Terra Studio. Zn equivalent grade calculated based on the following US\$ metal prices: Zn \$1.00/lb, Pb \$0.95/lb, Cu \$3.00/lb, Ag \$14/oz, Au \$1,100/oz

# Woodlawn Advantages

Fully Permitted ♦ People ♦ Sealed Roads ♦ Water ♦ Power ♦ Ports



COMMUNITY ✓

POWER ✓

WATER ✓

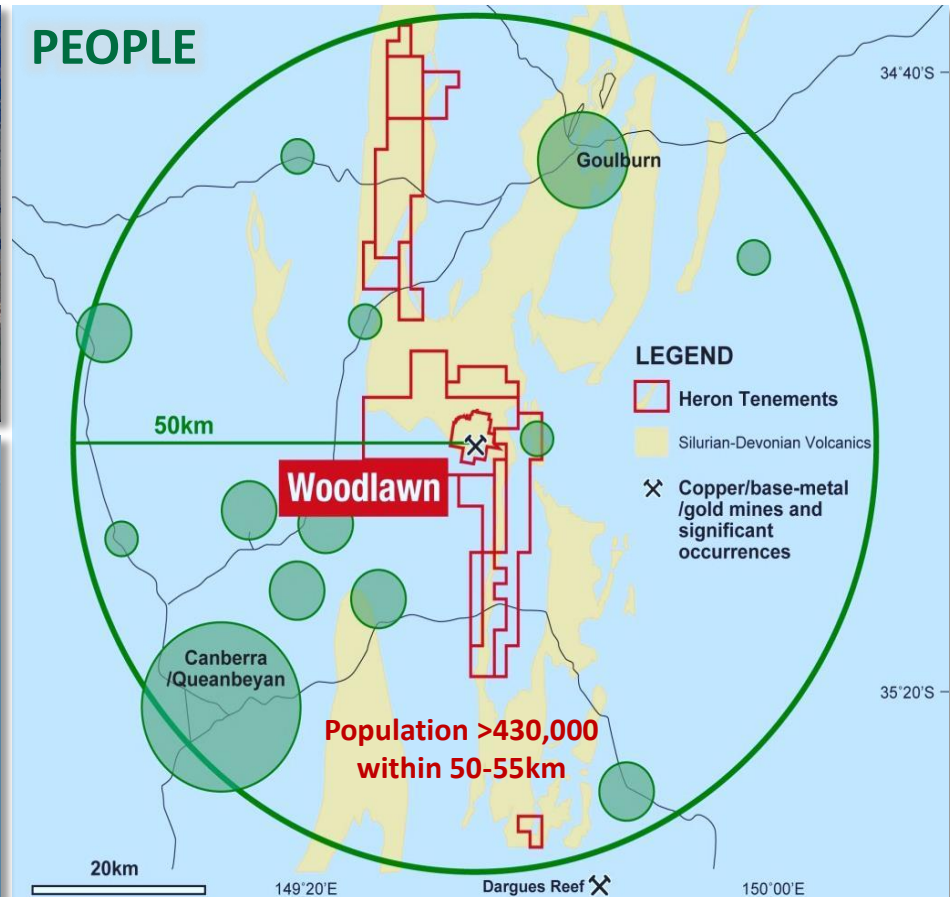
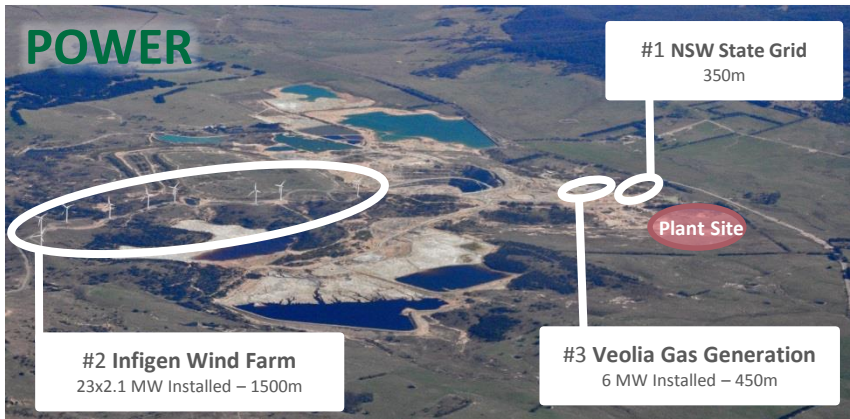
PERMITTING ✓

ACCESS ✓

PORT ✓

LABOUR ✓

MINING LEASE ✓



# Woodlawn Study Imminent

## Preliminary Economic Assessment (PEA)



**An experienced external consulting team...**

**... complementing a strong in-house skill set through a rapid PEA process**



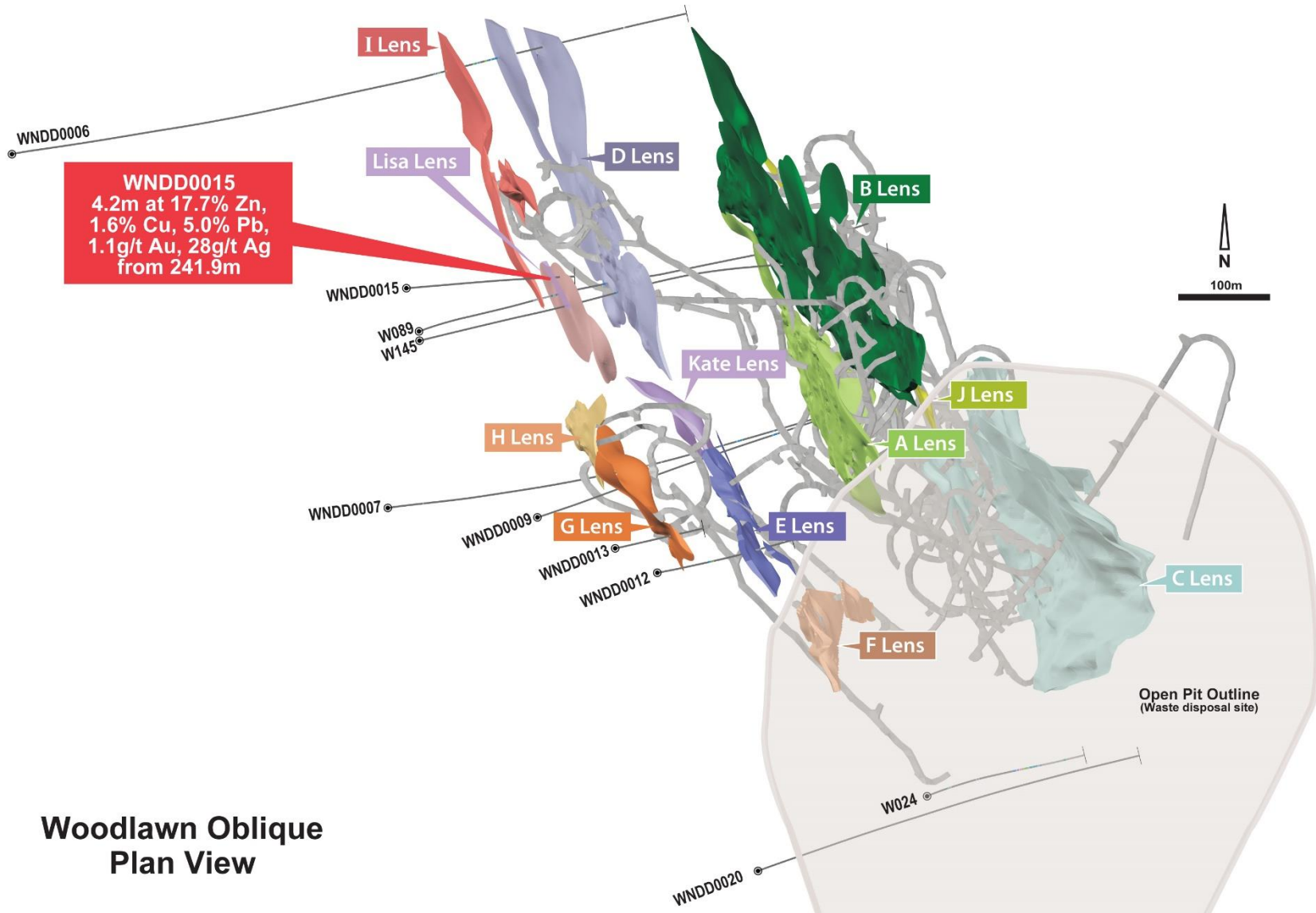
INTERNATIONAL  
ENVIRONMENTAL  
CONSULTANTS  
PTY LTD

- High rate of success from generated drill targets
- Significant new shallow areas identified for PEA mine plan
- New mineralisation identified across 9 Lenses
- Metallurgical testwork confirms co-treatment option
- PEA progressing well - completion expected within ~6 weeks
- Forward BFS programme now being designed
- Fully funded to BFS A\$28M at bank (31 Dec '14)



# Woodlawn Drilling

Confirms Potential ♦ New Lenses ♦ High Grade Intersections



Woodlawn Oblique  
Plan View

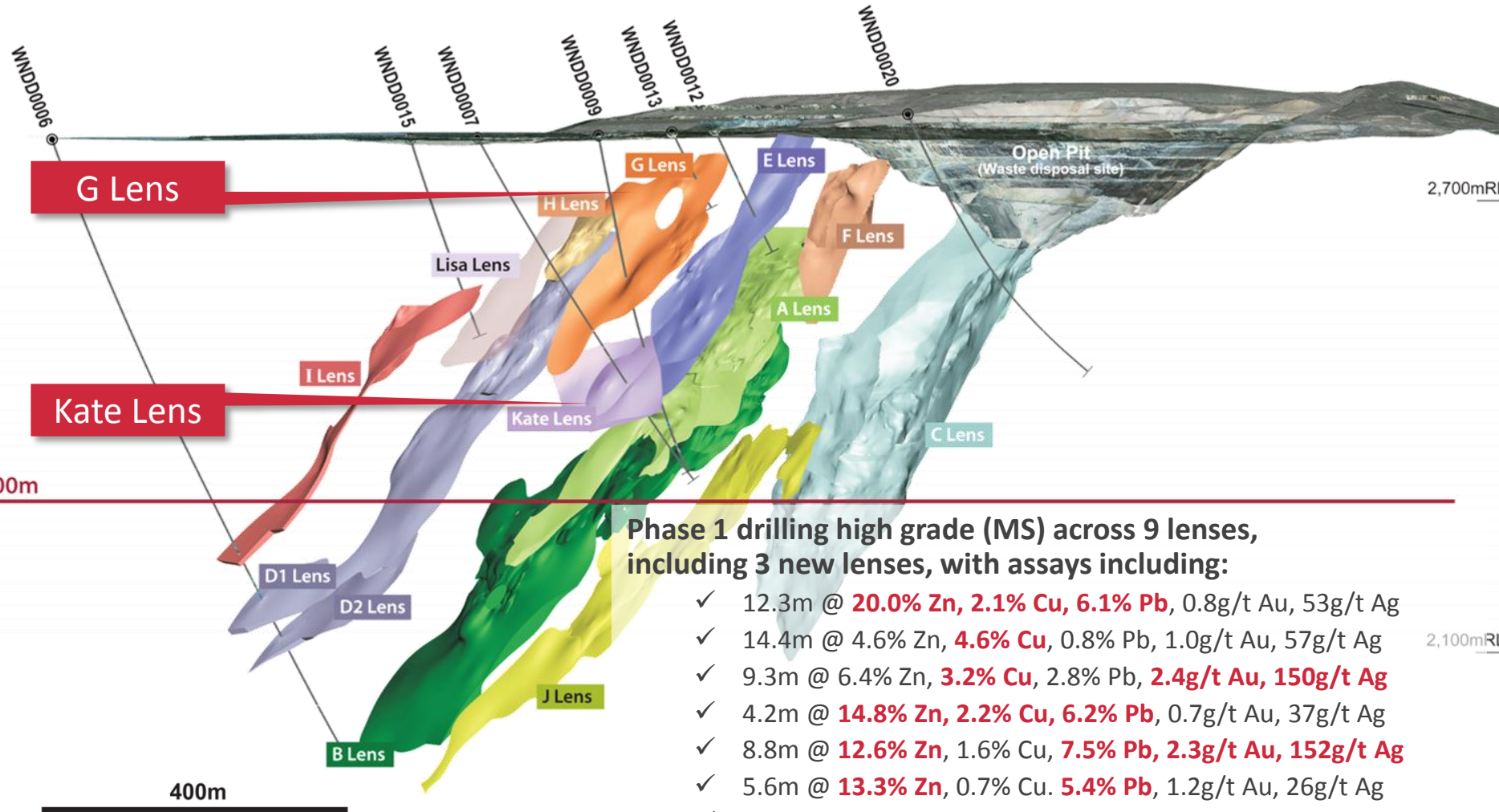


# Woodlawn Drilling

Confirms Potential ♦ New Lenses ♦ High Grade Intersections



Exploration success in shallow positions



Phase 1 drilling high grade (MS) across 9 lenses, including 3 new lenses, with assays including:

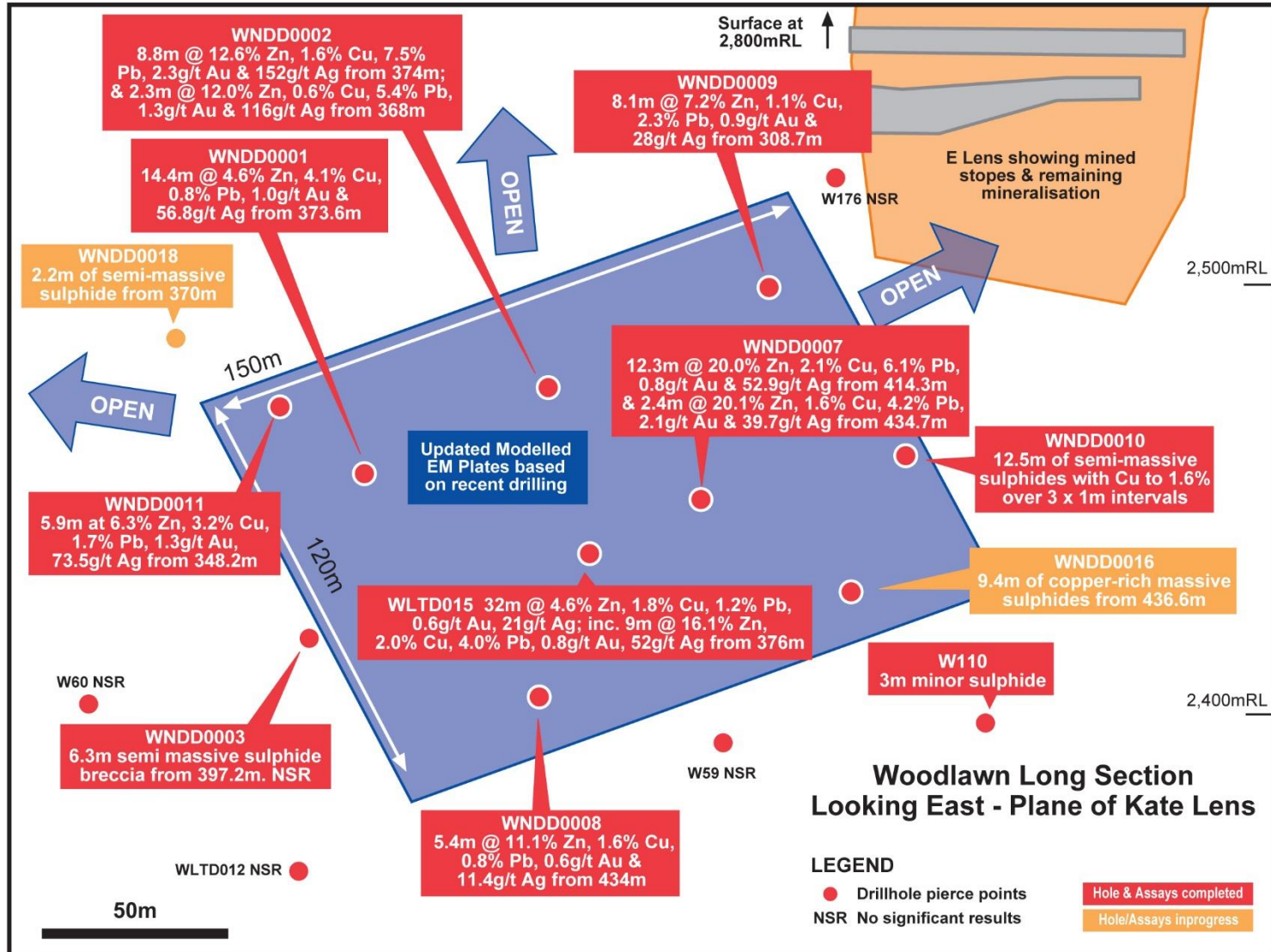
- ✓ 12.3m @ **20.0% Zn, 2.1% Cu, 6.1% Pb**, 0.8g/t Au, 53g/t Ag
- ✓ 14.4m @ 4.6% Zn, **4.6% Cu**, 0.8% Pb, 1.0g/t Au, 57g/t Ag
- ✓ 9.3m @ 6.4% Zn, **3.2% Cu, 2.8% Pb, 2.4g/t Au, 150g/t Ag**
- ✓ 4.2m @ **14.8% Zn, 2.2% Cu, 6.2% Pb**, 0.7g/t Au, 37g/t Ag
- ✓ 8.8m @ **12.6% Zn, 1.6% Cu, 7.5% Pb, 2.3g/t Au, 152g/t Ag**
- ✓ 5.6m @ **13.3% Zn**, 0.7% Cu, **5.4% Pb**, 1.2g/t Au, 26g/t Ag
- ✓ 5.9m @ 6.3% Zn, **3.2% Cu**, 1.7% Pb, **1.3g/t Au**, 74g/t Ag
- ✓ 4.2m @ **17.7% Zn**, 1.6% Cu, **5.0% Pb**, 1.1g/t Au, 28g/t Ag

# Kate Lens – A Major Success Story

10 Holes ♦ Target Significant Tonnes into PEA

## PEA Hit List:

- 10 diamond holes during PEA
- DHEM plate confirmed
- Grades typical Woodlawn (Zn-Pb-Cu)
- Shallow and near existing drive (90m)
- Will contribute to PEA mining inventory
- Still open for expansion



# G Lens – Exceeding Expectations

9 Holes ♦ Target Significant Tonnes into PEA



## PEA Hit List:

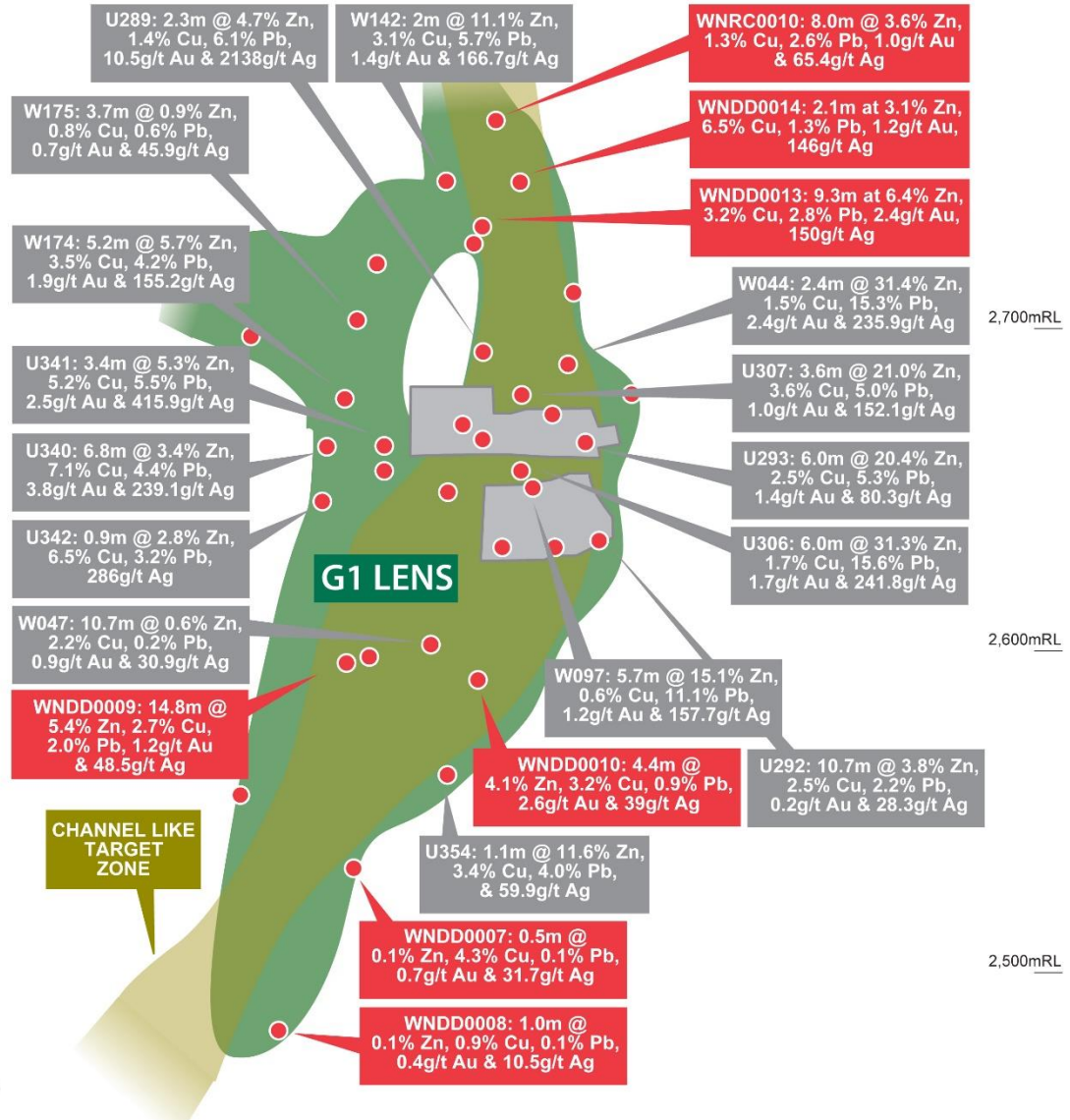
- 7 diamond and 2 RC intersections during PEA
- New geological model confirmed
- Grades typical Woodlawn (Zn-Pb-Cu)
- Shallow and near existing drives
- Will contribute to PEA mining inventory
- Noted for spectacular Zn/Cu/Pb/Au/Ag grades
- Still open for expansion

Woodlawn  
Long Section  
Looking East  
Plane of G  
Lens

50m

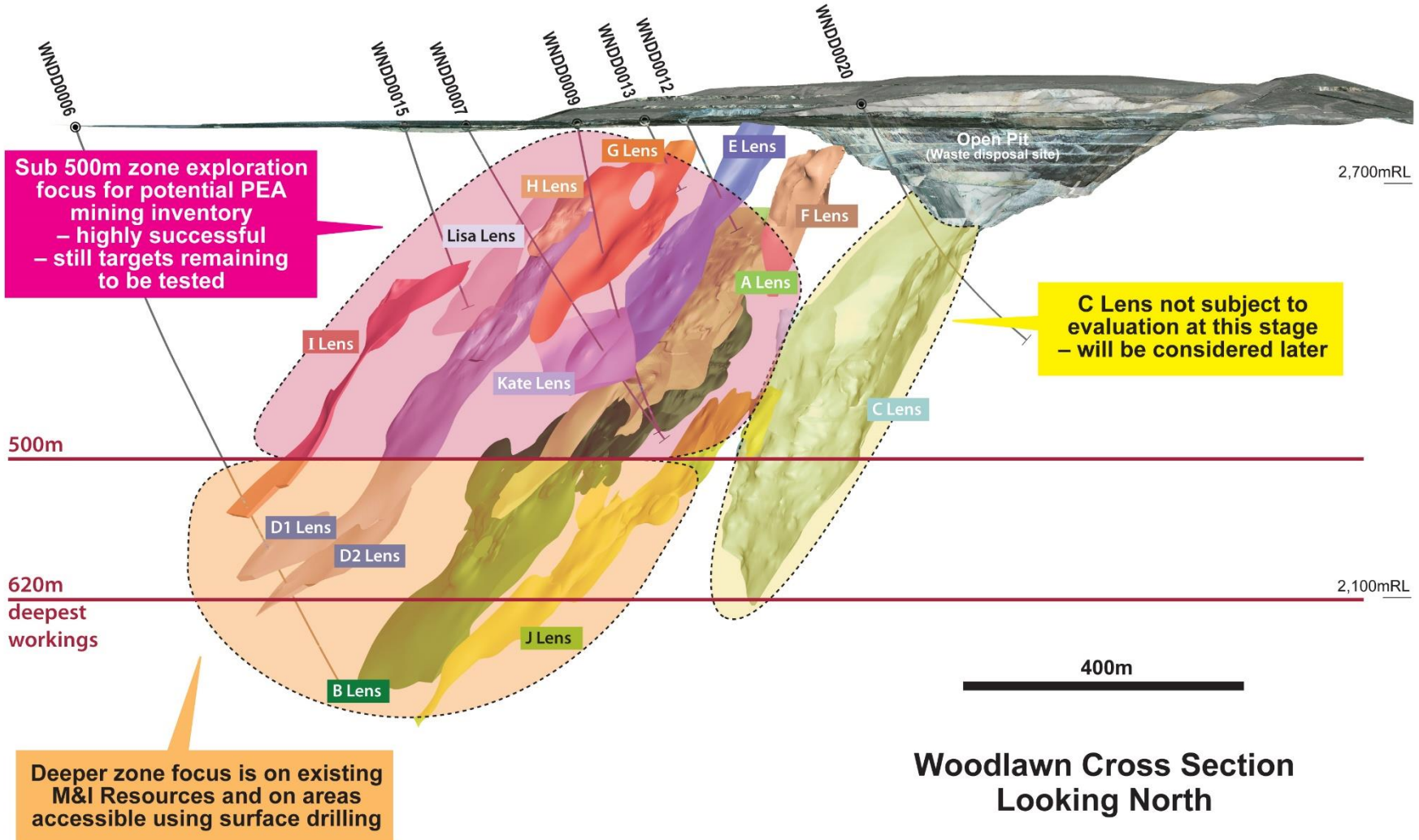
### LEGEND

- Drillhole pierce points
- Stopped areas
- Selected Pre-2014 intercepts
- Selected Recent drilling intercepts



# PEA Resource Targets

## Shallow / Low-Risk Positions

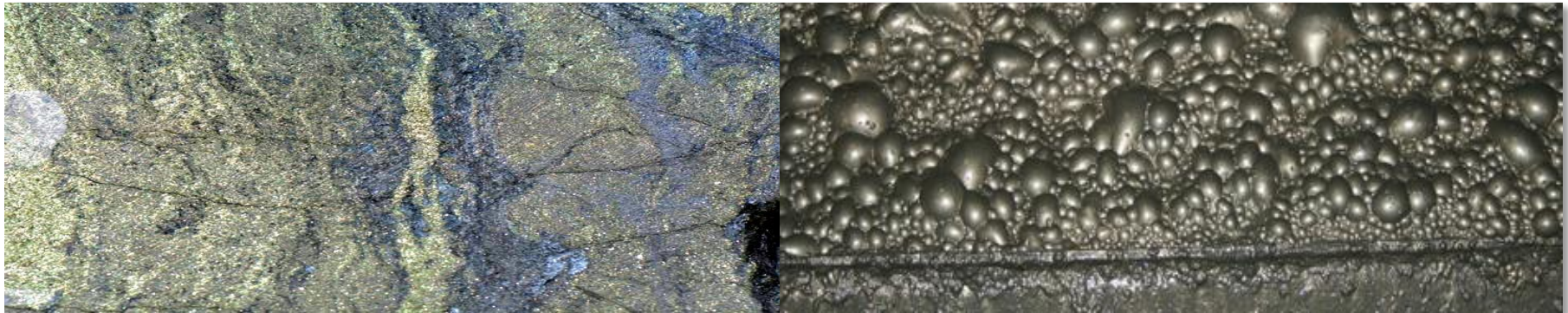


# Metallurgical Testwork Successful

Exceeding Historic Performance ♦ Co-treatment Option Confirmed



- PEA - first independent testwork undertaken on the WUP since mine closure in 1998
- Extensive historic dataset for tailings flotation providing the basis for design framework



## Testwork Confirmation

Results reflect advancements in flotation / fine grinding

Zinc-Copper (Zn-Cu-Pb-Au-Ag)	<ul style="list-style-type: none"><li>✓ Higher recovery to higher grade concentrates</li><li>✓ Produces readily saleable <b>zinc</b>, and high precious metals <b>copper</b> and <b>lead</b> concentrates</li></ul>
Copper (Cu-Ag)	<ul style="list-style-type: none"><li>✓ Little historical data on separation flotation performance</li><li>✓ Good recovery to high grade concentrate</li></ul>
Tailings + Zinc-Copper	<ul style="list-style-type: none"><li>✓ Combined tailings and zinc-copper samples produce readily saleable <b>zinc</b> and high precious metals <b>copper</b> and <b>lead</b> concentrates</li><li>✓ No loss in recoveries versus separate treatment performance</li><li>✓ <b>Confirmed co-treatment</b></li></ul>

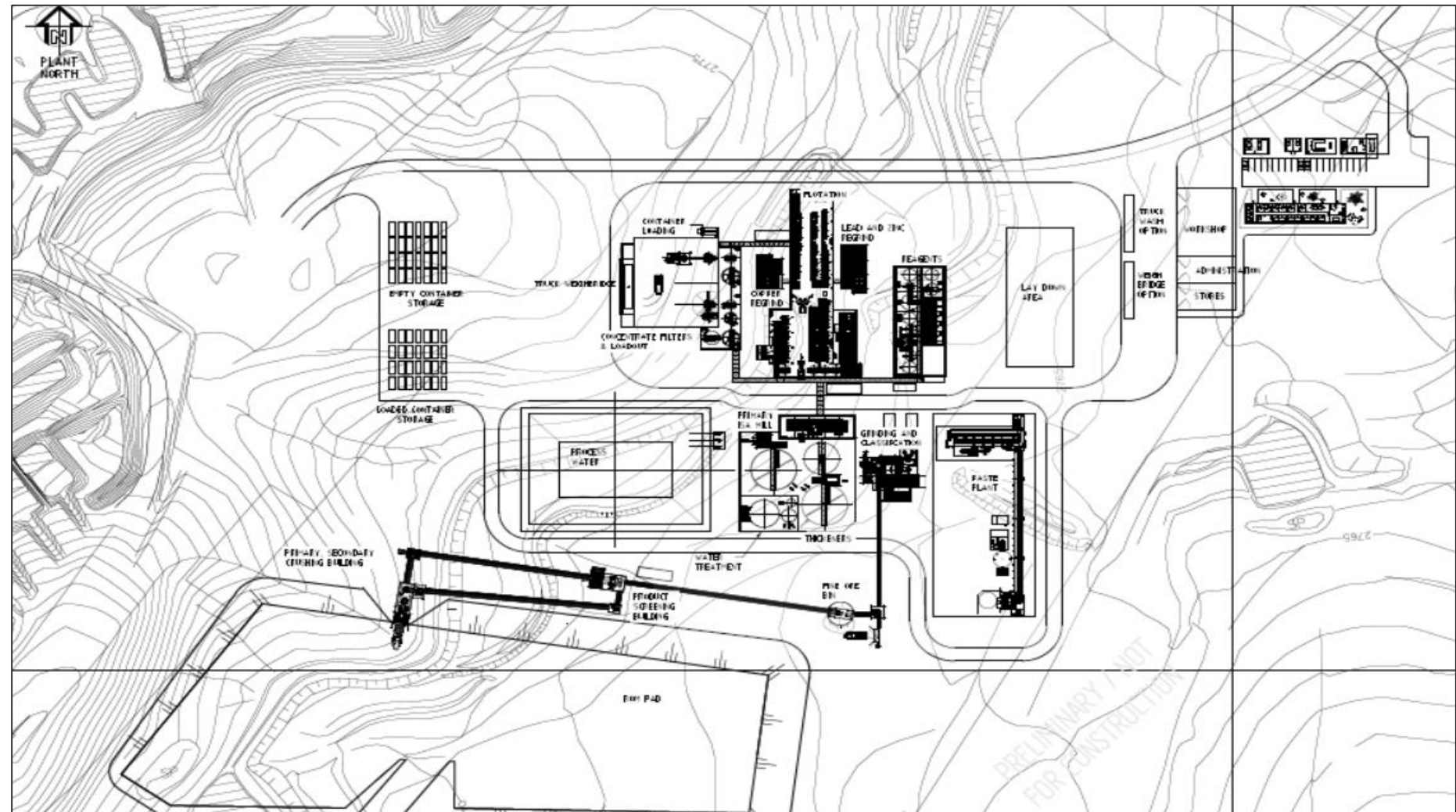
Refer to TSX/ASX release: Woodlawn Zinc Copper Project – Successful Metallurgical Test Work, 11 February 2015.

# Plant Design Advanced

Based on Prior FEED Study ♦ Modified for Underground Blend



- GR Engineering Services designed for co-treatment of the underground & tailings at 50:50 blend
- Designed to be commissioned and run on 100% tailings



# Environment & Community

Community Supportive & Engaged ♦ Management Plans Drafted



- Extensive stakeholder consultation through project approval process
- Strong community & government support
- Single immediate landowner - Veolia
- Agreements in place to purchase land over operational footprint
- Site collaboration - Provision of no-cost rehabilitation medium for final landforms

**State Government Project Approval**

**4 July 2013**

**Mining Lease – SML20**

**Renewed for 15 Yrs (Feb 2015)**

Advanced Management Plans – positioned to commence development



# Forward Programme

BFS Decision ♦ Goal is Early Production



## PEA (nearing completion)

12 months

- Expedited completion of **BFS** – leverage off WRP BFS / FEED
- Infill drilling on sub-500m depth mineralisation
- Extended metallurgical tests focusing on combined treatment
- Assessment of funding opportunities
- Continue testing of attractive near-mine exploration targets

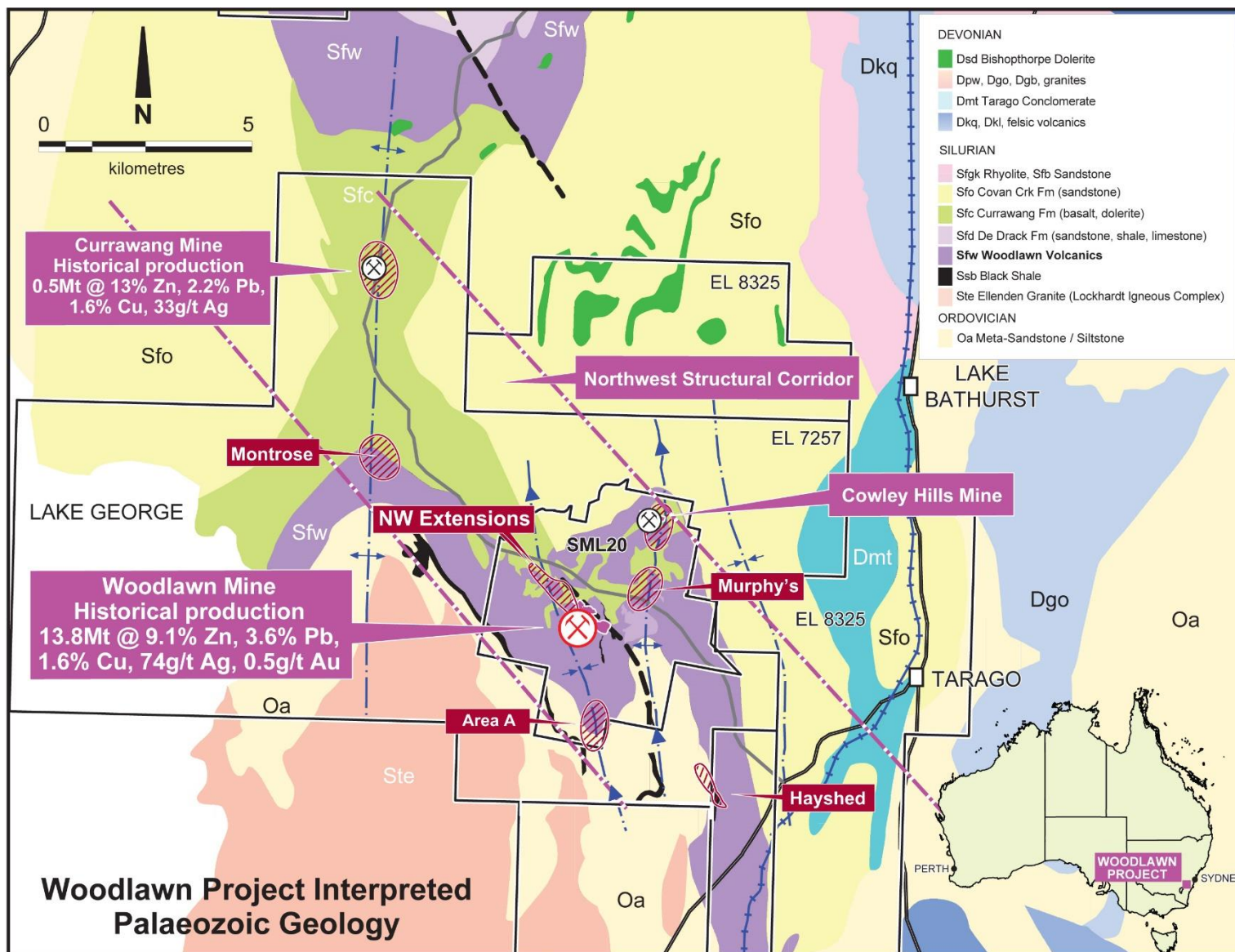
18 months

- Decision to mine
- Project funding
- Offtake discussions
- Contracting and construction



# Near Mine Exploration Potential

Multiple Targets ♦ Historic Production ♦ Modern EM Applied



# Heron Resources

## Key Point Summary



- ✓ PEA – completion within ~6 weeks
- ✓ Excellent exploration results & many untested targets remain
- ✓ Outstanding metallurgical test results
- ✓ Tight budget control (incl. property rationalization)
- ✓ Well capitalised and fully funded to BFS
- ✓ Expect rapid decision on next stage post PEA
- ✓ Zn market – case for supply shortage strengthens
- ✓ Low enterprise value of ~\$20M, cash + investments of \$31M<sup>1</sup>

**Booth 2153**

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