



# Heron Resources Limited

## ASX/TSX Release

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Level 1, 37 Ord Street, West Perth WA 6005

heron@heronresources.com.au

+61 8 9215 4444

ABN: 30 068 263 098

## Woodlawn Drilling Update – Kate Lens Returns Massive Sulphides

Heron Resources Limited (“Heron” or the “Company”) is pleased to announce the completion of the first diamond drill-hole into the Kate Lens at the high grade Woodlawn Zinc-Copper Project, located in New South Wales, Australia.

### Highlights:

- Completion of the first diamond hole targeting Kate Lens, with massive sulphides intersected over a down hole intercept of 15.5 metres
- RC drilling has also commenced on the up-dip projection of the A Lens
- Diamond core is being prepared, geo-technically logged and cut for assay

### ASX:HRR/TSX:HER

Issued Shares	361M
Share Price	\$0.165
Market Cap	\$59.6M
Cash (30 June 2014)	\$32.9M
Investments	\$ 3.4M
Total C+I	\$36.3M

### 2014 Woodlawn Drilling Program

Heron is pleased to report encouraging initial results from the first diamond hole which has now been completed as part of the diamond drilling program announced on 14 September 2014.

The first diamond hole WNDD0001 was completed at approximately 425.5 metres targeting the northern strike extent of the Kate Lens. The hole intersected 15.5 metres of predominantly massive sulphides between 373.6 to 389.1 metres down hole, visually estimated to be approximately 12 metres true width. The intersection occurred on a northwest trend some 53 metres from the Kate Lens 2013 discovery hole WLTD015, at approximately the same depth from surface. The massive sulphide intercept comprised pyrite, sphalerite, galena and chalcopyrite, typical of the historically mined “Complex Ore” and similar to the high grade material intercepted in the lower part of hole WLTD015.

Samples are being prepared for assay and results will be released when available, likely to be in 4-6 weeks.

The hole will now be cased for downhole electromagnetic (EM) surveys that will assist in further defining the physical limits of the lens.

Heron’s Managing Director, Wayne Taylor, commented: “It is very pleasing to see further support for the Kate Lens discovery, which is so far, showing consistency with the modelled EM plate conductors. This new discovery continues to shape up as an attractive component of potential future underground development.”

Photographs of the mineralised intercept confirm typical Woodlawn “Complex Ore”:



Diamond drilling rig set up at WNDD001



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**Figure 1:** Drill core photographs from WNDD0001 showing mineralised intercepts from 373.6m to 389.1m. The fine-grained black minerals are predominantly galena and sphalerite, whereas the yellow minerals are a mixture of pyrite (predominantly) and chalcopyrite.

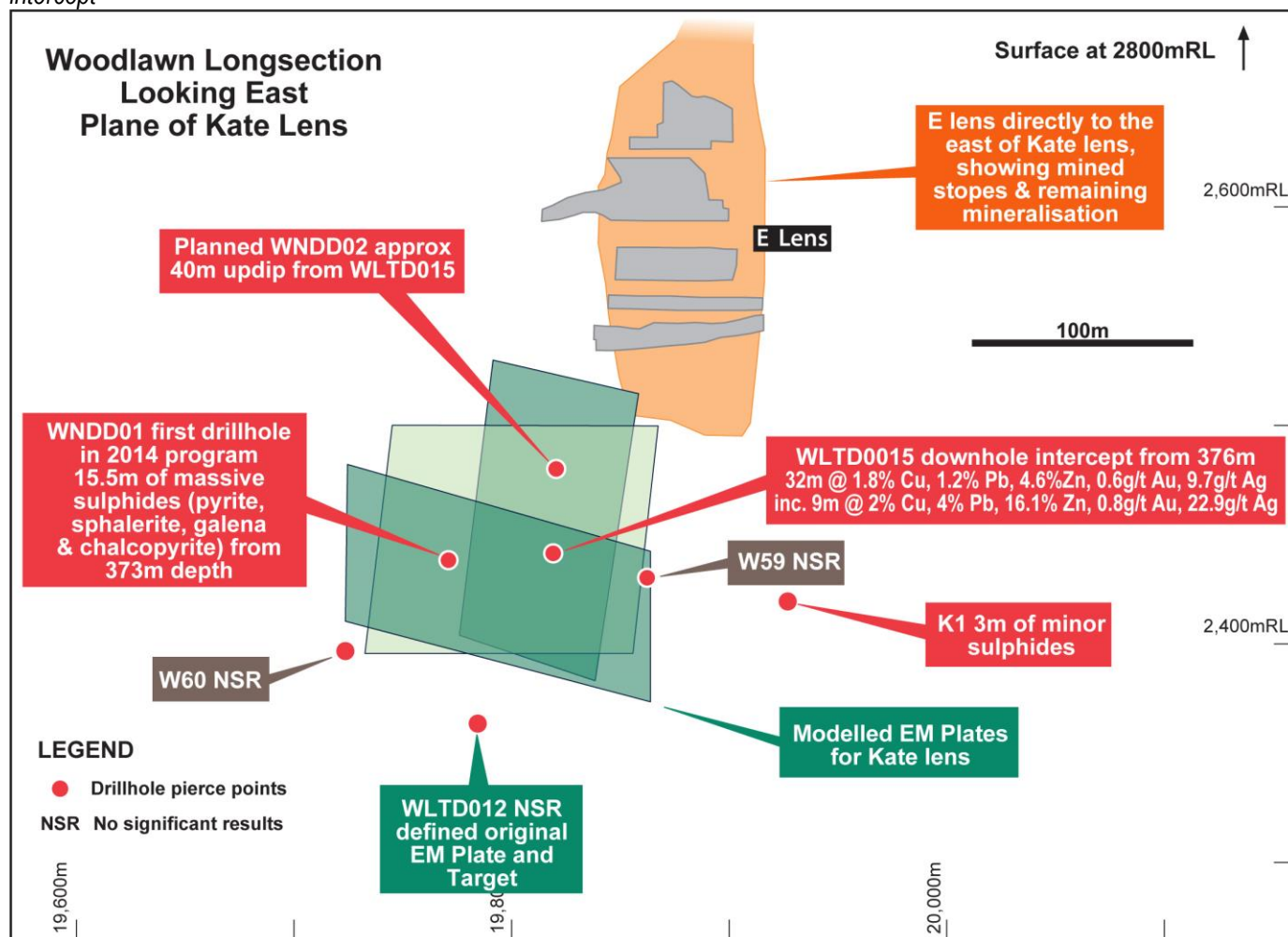




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**Figure 2:** Long-section looking east in the plane of the Kate Lens showing previous drilling and recent massive-sulphide intercept



### Technical Information

Drill hole details.

Hole No	Local Mine-Grid East (m)	Local Mine-Grid North (m)	Local Mine-Grid RL (m)	Surface Dip	Surface Mine -Grid Azimuth	Depth (m)
WNDD0001	8,995	19,402	2,793	-65	088	425.5

### About Heron Resources Limited

Heron is engaged in the exploration and development of base and precious metal deposits in Australia. Heron's projects include the high grade Woodlawn Zinc-Copper Project located 250km southwest of Sydney, New South Wales, and the Kalgoorlie Nickel Project located north of Kalgoorlie, Western Australia. In addition the Company holds a number of other high quality base metal and copper-gold exploration properties located in the Lachlan Fold Belt, New South Wales.



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For further information, please visit [www.heronresources.com.au](http://www.heronresources.com.au) or contact:

**Australia:**

Mr Wayne Taylor, Managing Director and Chief Executive Officer:

Tel: +61 8 9215 4444

Email: [heron@heronresources.com.au](mailto:heron@heronresources.com.au)

**Canada:**

Tel: +1 905 727 8688 (Toronto)

*The technical information in this news release relating to the exploration results at the Woodlawn Project is based on information compiled by Mr Rod Arnold, who is a Member of the Australian Institute of Geoscientists. Mr Arnold is a full time employee of Heron Resources Limited and has sufficient experience, which is relevant to the style of mineralization 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 Arnold consents to the inclusion in this news release of the information in the form and context in which it appears.*

### CAUTIONARY NOTE REGARDING FORWARD-LOOKING INFORMATION

This news release contains forward-looking statements and forward-looking information within the meaning of applicable Canadian securities laws, which are based on expectations, estimates and projections as of the date of this news release. This forward-looking information includes, or may be based upon, without limitation, estimates, forecasts and statements as to management's expectations with respect to, among other things, the timing and amount of funding required to execute the Company's exploration, development and business plans, capital and exploration expenditures, the effect on the Company of any changes to existing legislation or policy, government regulation of mining operations, the length of time required to obtain permits, certifications and approvals, the success of exploration, development and mining activities, the geology of the Company's properties, environmental risks, the availability of labour, the focus of the Company in the future, demand and market outlook for precious metals and the prices thereof, progress in development of mineral properties, the Company's ability to raise funding privately or on a public market in the future, the Company's future growth, results of operations, performance, and business prospects and opportunities. Wherever possible, words such as "anticipate", "believe", "expect", "intend", "may" and similar expressions have been used to identify such forward-looking information. Forward-looking information is based on the opinions and estimates of management at the date the information is given, and on information available to management at such time. Forward-looking information involves significant risks, uncertainties, assumptions and other factors that could cause actual results, performance or achievements to differ materially from the results discussed or implied in the forward-looking information. These factors, including, but not limited to, fluctuations in currency markets, fluctuations in commodity prices, the ability of the Company to access sufficient capital on favourable terms or at all, changes in national and local government legislation, taxation, controls, regulations, political or economic developments in Canada, Australia or other countries in which the Company does business or may carry on business in the future, operational or technical difficulties in connection with exploration or development activities, employee relations, the speculative nature of mineral exploration and development, obtaining necessary licenses and permits, diminishing quantities and grades of mineral reserves, contests over title to properties, especially title to undeveloped properties, the inherent risks involved in the exploration and development of mineral properties, the uncertainties involved in interpreting drill results and other geological data, environmental hazards, industrial accidents, unusual or unexpected formations, pressures, cave-ins and flooding, limitations of insurance coverage and the possibility of project cost overruns or unanticipated costs and expenses, and should be considered carefully. Many of these uncertainties and contingencies can affect the Company's actual results and could cause actual results to differ materially from those expressed or implied in any forward-looking statements made by, or on behalf of, the Company. Prospective investors should not place undue reliance on any forward-looking information. Although the forward-looking information contained in this news release is based upon what management believes, or believed at the time, to be reasonable assumptions, the Company cannot assure prospective purchasers that actual results will be consistent with such forward-looking information, as there may be other factors that cause results not to be as anticipated, estimated or intended, and neither the Company nor any other person assumes responsibility for the accuracy and completeness of any such forward-looking information. The Company does not undertake, and assumes no obligation, to update or revise any such forward-looking statements or forward-looking information contained herein to reflect new events or circumstances, except as may be required by law.

**No stock exchange, regulation services provider, securities commission or other regulatory authority has approved or disapproved the information contained in this news release.**



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### Appendix 1 – JORC Table 1

As per JORC Code, 2012 Edition:

#### Section 1 Sampling Techniques and Data

(Criteria in this section applies to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> </ul>	<ul style="list-style-type: none"> <li>Samples from the diamond-core holes are being taken from NQ sized core, and sampled on a nominal 1 metre basis. The core is cut in half along the core orientation line and then one portion is quartered for assaying, the half core is preserved for metallurgical testing and the remaining quarter is retained as reference material in the core trays.</li> <li>Samples from the RC holes are being produced from a 4.5 inch sized bit and sampled on an initial 4 metre down-hole composite basis, with zones of mineralisation being samples over 1 metre intervals. The 4 metre composites are taken via a spear method into the plastic sample bags, while the 1 metre samples are split via a riffle splitter.</li> <li>These sampling methods are standard industry methods and are believed to provide acceptably representative samples for the type of mineralisation likely to be encountered.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details.</li> </ul>	<ul style="list-style-type: none"> <li>Diamond-core drilling is being undertaken by a Mc Culloch DR800 rig with HQ sized core being drilled to approximately 200m before switching to NQ size. Various techniques are employed to ensure the hole is kept within limits of the planned position. The core is laid out in standard cores trays.</li> <li>The RC drilling is being undertaken by a Schramm T450WSI rig that is drilling a 4.5 inch hole with face sampling hammer. A booster and auxiliary compressor is used to increase the volume and pressure of air. The 1 metre samples are fed through a cyclone and riffle splitter before passing into green plastic bags which are laid out in rows on the ground. A dust suppression system is in use.</li> </ul>
Drill sample recovery	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> </ul>	<ul style="list-style-type: none"> <li>The core is transported to an enclosed core logging area and recoveries are recorded. Recoveries to date have been better than 95%. The core is orientated and marked with 1 metre downhole intervals for sampling.</li> <li>The recoveries for the RC drilling are also recorded and have mostly been 100% with no recovery issues being recorded.</li> </ul>
Logging	<ul style="list-style-type: none"> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and</li> </ul>	<ul style="list-style-type: none"> <li>Both diamond core and RC holes are fully geologically logged by geologists. Geotechnical logging is also being undertaken on selected sections of the core. Samples for metallurgical testing are</li> </ul>



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Criteria	JORC Code explanation	Commentary
	<i>metallurgical studies.</i>	being kept in a freezer to reduce oxidation prior to being transported to the metallurgical laboratory.
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	<ul style="list-style-type: none"> <li>All core samples are crushed then pulverised in a ring pulveriser (LM5) to a nominal 90% passing 75 micron. An approximately 250g pulp sub-sample is taken from the large sample and residual material stored. A quartz flush is put through the LM5 pulveriser prior to each new batch of samples.</li> <li>The RC samples are pulverised directly in the LM5 ring pulveriser.</li> </ul>
<i>Quality of assay data and laboratory tests</i>	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>Sample preparation and assaying was conducted through ALS Laboratories, Orange, NSW.</li> <li>Gold is determined by 30g fire assay fusion with ICP-AES analysis to 1ppb LLD.</li> <li>Other elements by mixed acid digestion followed by ICP-AES analysis.</li> <li>Laboratory quality control standards (blanks, standards and duplicates) are inserted at a rate of 5 per 35 samples for ICP work.</li> </ul>
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul style="list-style-type: none"> <li>An internal review of results was undertaken by company personnel. No independent verification was undertaken at this stage.</li> <li>All field and laboratory data has been entered into an industry standard database using a contract database administrator (DBA) in the Company's Perth office. Validation of both the field and laboratory data is undertaken prior to final acceptance and reporting of the data.</li> <li>Quality control samples from both the Company and the Laboratory are assessed by the DBA and reported to the Company geologists for verification. All assay data must pass this data verification and quality control process before being reported.</li> </ul>
<i>Location of data points</i>	<ul style="list-style-type: none"> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> </ul>	<ul style="list-style-type: none"> <li>The drill collars were initially located with a combination of handheld GPS and licenced surveyor using a DGPS system, with accuracy of about 1m. The final drill collars are "picked up" by a licenced surveyor.</li> </ul>
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul style="list-style-type: none"> <li>The diamond drilling is mostly following-up in various directions from previous intercepts with a nominal intercept spacing of no less than 40m. This drill hole spacing will be sufficient to provide Mineral Resource estimates in the future.</li> </ul>
<i>Orientation of data in relation to geological</i>	<ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> </ul>	<ul style="list-style-type: none"> <li>The drilling orientation is designed to intersect the mineralised lenses at a close to perpendicular angle. The mineralised lenses are dipping at approximately 50-70 degrees to the west and the drilling is</li> </ul>



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Criteria	JORC Code explanation	Commentary
<i>structure</i>		approximately at 60 degrees to the east. This will vary from hole to hole.
<i>Sample security</i>	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>	<ul style="list-style-type: none"> <li>Samples are being secured in green plastic bags will be transported to the laboratory in Orange, NSW via a courier service or with Company personnel.</li> </ul>
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul style="list-style-type: none"> <li>No audits or reviews have been undertaken due to the early stage of the program.</li> </ul>

### Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>	<ul style="list-style-type: none"> <li>The Woodlawn project is located 250km south-west of Sydney in the state of New South Wales. The area is near the top of the Great Australian Dividing range and has an elevation around 800m above sea-level. The mineral and mining rights to the project are owned 100% by the Company through the granted, special mining lease 20 (SML20). The lease is completing its second 20 year term on the 16 November 2014 and the company has applied for an extension of this term for a further 20 years. The Company is not aware of any reason why SML20 will not be renewed.</li> <li>The project area is on private land owned by Veolia who operate a waste disposal facility that utilises the historical open-pit void. An agreement is in place with Veolia for the Company to purchase certain sections of this private land to facilitate future mining and processing activities. A cooperation agreement is also in place between Veolia and the Company that covers drilling and other exploration activities in the area.</li> </ul>
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>The Woodlawn deposit was discovered by the Jododex JV in 1970 and open-pit mining began in 1978 and continued through to 1987. The project was bought outright by Rio Tinto (CRA) in 1984 who completed the open-pit mining. Underground operations commenced in 1986 and the project was sold to Denehurst Ltd in 1987 who continued underground mining up until 1998. The mineral rights to the project were then acquired by TriAusMin Ltd in 1999 who conducted further studies on a tailings re-treatment and revived underground operation. Heron took 100% ownership of the project in August 2014 following the merger of the two companies. Some 980 surface and underground drillholes have been completed on the project to date and several studies undertaken.</li> </ul>
<i>Geology</i>	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of</li> </ul>	<ul style="list-style-type: none"> <li>The Woodlawn deposit comprises volcanogenic</li> </ul>



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Criteria	JORC Code explanation	Commentary
	<i>mineralization.</i>	massive sulphide mineralisation consisting of stratabound lenses of pyrite, sphalerite, galena and chalcopryite. The mineralisation is hosted in the Silurian aged Woodlawn Felsic Volcanic package of the Goulburn sub-basin on the eastern side of the Lachlan Fold Belt.
<i>Drill hole Information</i>	<ul style="list-style-type: none"> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <ul style="list-style-type: none"> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>A table detailing the drill hole information is given in the body of the report.</li> </ul>
<i>Data aggregation methods</i>	<ul style="list-style-type: none"> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> </ul>	<ul style="list-style-type: none"> <li>Assays are currently pending for the mineralised intercepts and so no data aggregation methods are reported here.</li> </ul>
<i>Relationship between mineralization widths and intercept lengths</i>	<ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> </ul>	<ul style="list-style-type: none"> <li>The massive sulphide zone intercepted in hole WNDD001 is at an angle to the drill axis and therefore the true width is estimated be some 0.75 of down-hole width. That is, a down-hole intercept of 16m equates to a true width of 12m. This is only an approximation at this stage and the will be better estimated as the orientation of the lenses is better defined.</li> </ul>
<i>Diagrams</i>	<ul style="list-style-type: none"> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>A long-section showing the hole positions relevant for current phase of exploration is included in the release. Other maps and diagrams showing the location of the Woodlawn Project are included in other recent Company releases.</li> </ul>
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>The reporting is considered to be balanced and all relevant results have been disclosed for this current phase of exploration.</li> </ul>
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey</li> </ul>	<ul style="list-style-type: none"> <li>There is no other substantive exploration data that has been generated for inclusion in this report. The drillholes are being cased with 40</li> </ul>



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	<i>results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	millimetre PVC for down-hole EM surveying which will take place in about 3 week's time.
<i>Further work</i>	<ul style="list-style-type: none"><li>• <i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li></ul>	<ul style="list-style-type: none"><li>• Both the diamond and RC drilling has only recently commenced at the Woodlawn Project and a systematic program is planned to test the up-dip and down-dip extensions to the known ore lenses.</li></ul>