

#### **ASX Announcement**

16 March 2017

# **Drilling Beneath Wagtail Pits Confirms High Grade Depth Extensions**

Pantoro Limited (**ASX:PNR**) (**Pantoro**) is pleased to advise multiple high grade intersections from the first phase of drilling below the current Wagtail open pits. The drill program has targeted and intersected mineralisation at depths of between 110 and 150 metres below surface.

The objective of the drill program was to evaluate the continuity of mineralisation beneath the open pits and to assess potential for underground mining after the open pits are completed. Open pits at Wagtail are designed to a maximum depth of 65 metres.

#### Significant intersections include:

- 3.6 m @ 7.67 g/t Au from 133.0 m downhole (including 1.9 m @ 11.7 g/t Au from 133.0 m).
- 2.6 m @ 6.46 g/t Au from 138.4 m downhole (including 0.35 m @ 27.1 g/t Au from 140.1 m).
- 1.2 m @ 5.11 g/t Au from 126.5 m downhole.
- 1.4 m @ 7.18 g/t Au from 146.2 m downhole (including 0.8 m @ 11.7 g/t Au from 146.2 m).
- 3.4 m @ 4.36 g/t Au from 168.7 m downhole (including 0.7 m @ 14 g/t Au from 169.3 m).

All holes intersected mineralisation at the targeted zones based on the current interpretation of the geology and structure in this area, and the mineralisation remains open at depth and along strike. The total known strike extent of mineralization in the combined Wagtail and Rowdies deposits currently exceeds 800 metres.

Additional drilling aimed at delineating Mineral Resources and Ore Reserves suitable for underground mining will be ongoing during the ensuing quarters and undertaken in parallel with open pit mining.

Commenting on the new results, Managing Director Paul Cmrlec said:

"Open pit mining at Wagtail has continued to uncover continuous, high grade veins. It is very pleasing to see the initial drilling below the current open pit designs delivering high grades similar to those seen at the Nicolsons mine. Drilling will continue throughout the remainder of the open pit life with the objective of being able to commence a second underground mine soon after the open pits are completed."

#### **Enquiries**

Paul Cmrlec | Managing Director I Ph: +61 8 6263 1110 | Email: admin@pantoro.com.au

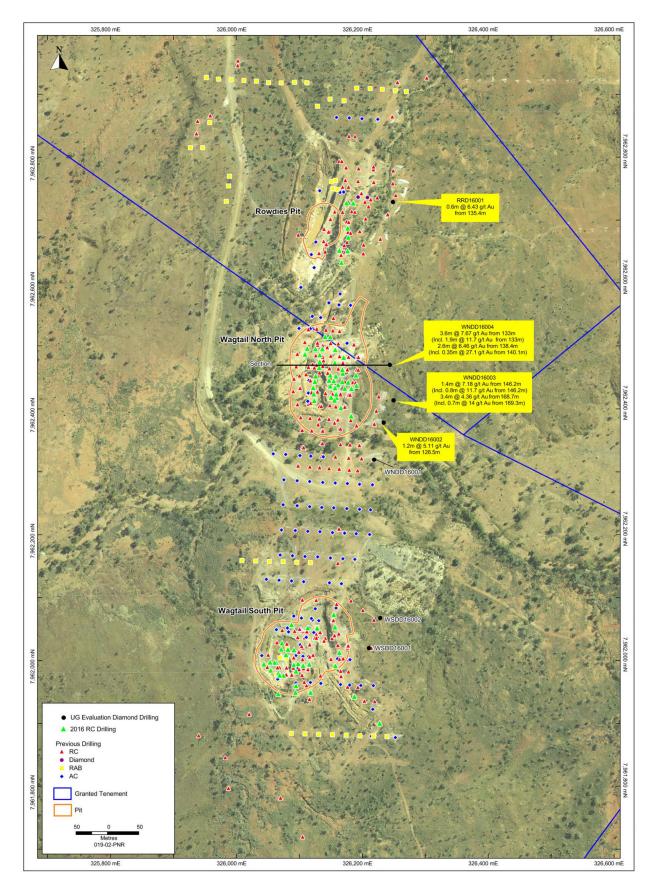


Figure 1: Wagtail Drilling Results Plan.

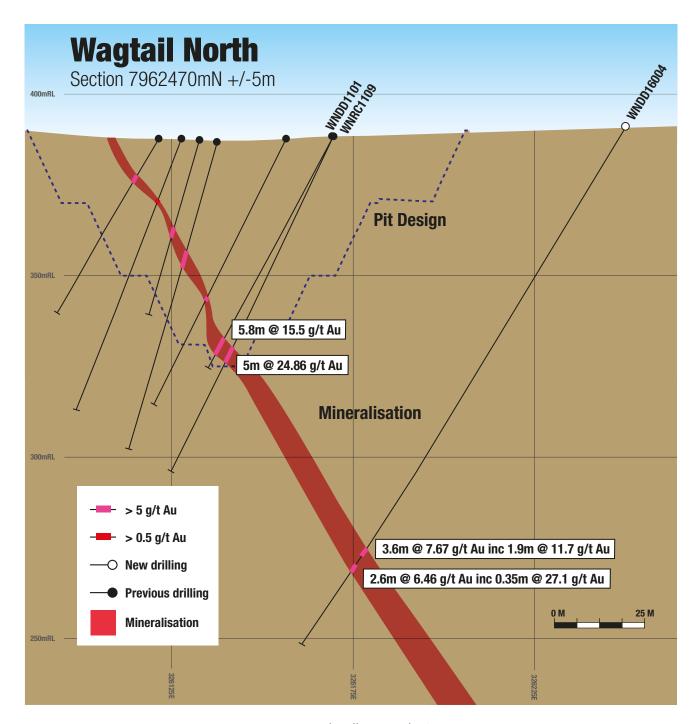


Figure 2: Wagtail Drilling Results Section.

**Appendix 1 – List of Drill Results Received at Wagtail** 

Hole Number	Targeted Lode	Easting	Northing	RL	Dip (degrees)	Azimuth (degrees)	End of Hole Depth (m)	Downhole From (m)	Downhole To (m)	Downhole Intersection (m)	True Width (m)	Au gpt (uncut)
WNDD16004	Wagtail North	326244	7962470	392.2	-60	270	200.3	133.0	136.6	3.6	3.11	7.67
WNDD16004	Wagtail North	Including 11.7	g/t over 1.9 m f	rom 133.0 - 134	4.9 m							
WNDD16004	Wagtail North	326244	7962470	392.2	-60	270	200.30	138.40	141.00	2.60	2.24	6.46
WNDD16004	Wagtail North	Including 27.1	g/t over 0.35 m	from 140.1 - 14	40.5 m							
WNDD16001	Wagtail North	326219	7962319	387.8	-60	270	180.3	124.0	124.4	0.4	0.35	1.59
WNDD16002	Wagtail North	326234	7962378	389.0	-60	270	210.9	110.0	110.6	0.6	0.52	4.66
WNDD16002	Wagtail North	326234	7962378	389.0	-60	270	210.9	126.5	127.7	1.2	1.04	5.11
WNDD16002	Wagtail North	326234	7962378	389.0	-60	270	210.9	134.4	138.7	4.3	3.71	1.50
WNDD16002	Wagtail North	326234	7962378	389.0	-60	270	210.9	149.7	150.0	0.3	0.26	1.31
WNDD16002	Wagtail North	326234	7962378	389.0	-60	270	210.9	152.9	153.2	0.3	0.26	1.59
WSDD16002	Wagtail South	326228	7962068	391.5	-60	269	210.0	52.0	53.0	1.0	0.87	2.82
WSDD16002	Wagtail South	326228	7962068	391.5	-60	269	210.0	131.0	132.0	1.0	0.87	1.10
WNDD16003	Wagtail North	326250	7962414	390.1	-60	270	180.3	146.2	147.6	1.4	1.21	7.18
WNDD16003	Wagtail North	Including 11.7	g/t over 0.8 m f	rom 146.2 - 147	7 m							
WNDD16003	Wagtail North	326250	7962414	390.1	-60	270	180.3	168.7	172.1	3.4	2.93	4.36
WNDD16003	Wagtail North	Including 14.0 g/t over 0.7 m from 169.3 - 170 m										
WSDD16001	Wagtail South	326210	7962020	393.5	-60	270	200.3	22.0	23.0	1.0	0.87	1.07
WSDD16001	Wagtail South	326210	7962020	393.5	-60	270	200.3	94.0	94.7	0.7	0.60	1.72
RRD16001	Rowdies	326249	7962729	389.5	-60	270	177.3	135.4	136.0	0.6	0.52	6.43
WNDD1101*	Wagtail North	326169	7962472	390.2	-60	270	72.5	63.2	69.0	5.8	5.02	15.50
WNRC1109*	Wagtail North	326169	7962473	390.1	-65	270	115.0	64.0	69.0	5.0	4.10	24.86

<sup>\*</sup> Previously Reported, not part of the current drill program.

#### **Competent Persons Statement**

#### Halls Creek Tenements – Exploration Targets, Exploration Results and Mineral Resources

The information in this report that relates to Exploration Targets, Exploration Results and Mineral Resources is based on information compiled by Mr. Scott Huffadine (B.Sc. (Hons)) who is a full time employee and director of Pantoro Limited and a member of the Australian Institute of Geoscientists. Mr. Huffadine 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 described by the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Huffadine consents to the inclusion in this report of the matters based on his information in the form and context in which it appears. Mr. Huffadine is eligible to participate in short and long term incentive plans of and holds shares, options and performance rights in the Company as has been previously disclosed.

### **JORC Code 2012 Edition-Table 1**

## WAGTAIL PITS SURFACE DIAMOND DRILLING SECTION 1: SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation	Commentary		
Sampling techniques	<ul> <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> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul> <li>and sampling assessing the depth potential beneath the current Wagtail and Rowdies Open Pits , south of the Nicolsons find deposit at the Nicolsons gold project.</li> <li>Diamond samples - 0.8-2.5kg samples are dispatched to an external accredited laboratory (BVA Perth) where they are crushed and pulverized to a pulp (P90 75 micron) for fire assay (40g charge). All core is logged and sampled according to geology, with only selected samples assayed. Core is halved, with RHS of cutting line assayed, and the other half retained in core trays on site for further analysis. Samples are a maximum of 1.2m, with shorter intervals utilised according to geology to a minimum interval of 3m.</li> <li>Core is aligned, measured and marked up in metre intervals referenced back to downhole core blocks .</li> </ul>		
Drilling techniques	<ul> <li>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</li> </ul>	other holes were drills utilising NQ2. DD - core orientations are completed for all		
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> </ul>	All holes were logged at site by an experienced geologist. Recovery and sample quality were visually observed and weights recorded at the laboratory		
	<ul> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	• DD – No significant core loss has been noted in fresh material. Good core recovery has generally been achieved in all sample types in the current drilling program.		
	<ul> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>			

Criteria	JORC Code explanation	Commentary
Logging	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 metallurgical studies.	and logging parameters include: depth from, depth to, condition, weathering, oxidation, lithology, texture, colour, alteration style, alteration intensity, alteration
	• Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	general comments.
	The total length and percentage of the relevant intersections logged.	• 100% of the holes are logged.
Sub-sampling techniques	If core, whether cut or sawn and whether quarter, half or all core taken.	Core samples were sawn in half utilising an Almonte core-saw, with RHS of cutting
and sample preparation	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	line sent for assaying and the other half retained in core trays on site for future analysis.
	• For all sample types, the nature, quality and appropriateness of the sample preparation technique.	• For core samples, core was separated into sample intervals and separately bagged for analysis at the certified laboratory.
	<ul> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	• Core was cut under the supervision of an experienced geologist, it was routinely cut on the orientation line.
	<ul> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</li> </ul>	All mineralised zones are sampled as well as material considered barren either side of the mineralised interval
	Whether sample sizes are appropriate to the grain size of the material being	• Field duplicates i.e. other half of core or ¼ core has not been routinely sampled
	sampled.	Half core is considered appropriate for diamond drill samples.
		Sample sizes are considered appropriate for the material being sampled
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> </ul>	are determined using fire assay with 40g charge. Where other elements are assayed using either AAS base metal suite or acid digest with ICP-MS finish. The methods used approach total mineral consumption and are twoical of industry.
	Nature of quality control procedures adopted (eg standards, blanks, duplicates,	No geophysical logging of drilling was performed.
	external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	

Criteria	JORC Code explanation	Con	nmentary
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.		Significant intersections are noted in logging and checked with assay results by company personnel both on site and in Perth.
	The use of twinned holes.	•	There are no twinned holes drilled as part of these results.
	<ul> <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>		All primary data is logged on paper and later entered into the SQL database. Data is visually checked for errors before being sent to an external database manager for further validation and uploaded into an offsite database. Hard copies of original drill logs are kept in onsite office.
			Visual checks of the data re completed in Surpac mining software.
			No adjustments have been made to assay data unless in instances where standard tolerances are not met and reassay is ordered.
Location of data points	<ul> <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>		DD drilling is downhole surveyed utilizing Reflex EZ-Shot electronic camera at collar, 10 metres then 30m thereafter and EOH. No Gyro DH surveys were undertaken on this program.
	<ul><li>Specification of the grid system used.</li><li>Quality and adequacy of topographic control.</li></ul>		Surface Diamond drilling is marked out and picked up using a DGPS for collar locations front sight and back sight pegs.
	Quanty and adequacy of topographic controls		The project lies in MGA 94, zone 52. Local coordinates are derived by conversion: GDA94_EAST =NIC_EAST * 0.9983364 + NIC_NORTH * 0.05607807 + 315269.176 GDA94_NORTH = NIC_EAST * (-0.05607807) + NIC_NORTH * 0.9983364 + 7944798.421 GDA94_RL =NIC-RL + 2101.799.
			Topographic control uses DGPS collar pickups and external survey RTK data and is considered adequate for use.
			Pre Pantoro survey accuracy and quality assumed to industry standard.
Data spacing and distribution	<ul> <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</li> </ul>		Drill spacing for this evaluation program testing for depth extensions has been on a first pass nominal spacing of 50m, however 7 holes were completed over the 800 m of known mineralised strike.
	Reserve estimation procedure(s) and classifications applied.	•	No compositing is applied to diamond drilling sampling.
	Whether sample compositing has been applied.	•	Core samples are both sampled to geology of between 0.3 and 1.2m intervals.
Orientation of data in	Whether the orientation of sampling achieves unbiased sampling of possible	•	No bias of sampling is believed to exist through the drilling orientation
relation to geological structure	<ul> <li>structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>		Surface drilling is designed perpendicular to the interpreted orientation of the mineralisation.

Criteria	JORC Code explanation	Commentary		
Sample security	The measures taken to ensure sample security.	The chain of custody is managed by Pantoro employees and contractors. Samples are stored on site and delivered in sealed boxes and bags to the lab in Perth		
		Samples are tracked during shipping.		
		Pre Pantoro operator sample security assumed to be consistent and adequate.		
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No audit or reviews of sampling techniques have been undertaken however the data is managed by an offsite database consultant who has internal checks/ protocols in place.		

#### **SECTION 2: REPORTING OF EXPLORATION RESULTS**

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	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.	• Tenement related to this drilling are 100% held by Pantoro subsidiary company Halls Creek Mining Pty Ltd. These are: M80/503 and M80/362.
		• Tenement transfers to HCM are yet to occur as stamp duty assessments have not been completed by the office of state revenue. The tenements lie on a pastoral
	The security of the tenure held at the time of reporting along with any known	lease with access and mining agreements .
	impediments to obtaining a licence to operate in the area.	The tenements are in good standing and no known impediments exist.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	• The deposits were discovered by prospectors in the early 1990s. After an 8,500 m RC program, Precious Metals Australia mined 23 koz at an estimated 7.7g/t Au from Nicolson's Pit in 1995/96 before ceasing the operation. Rewah mined the Wagtail and Rowdy pits (5 koz at 2.7g/t Au) in 2002/3 before Terra Gold Mines (TGM) acquired the project, carried out 12,000 m of RC drilling and produced a 100 koz resource estimate. GBS Gold acquired TGM and drilled 4,000 m before being placed in administration. Bulletin Resources Ltd acquired the project from administrators and conducted exploration work focused on Nicolsons and the Wagtail Deposits and completed regional exploration drilling and evaluation and completed a Mining Study in 2012 prior to entering into a JV with PNR in 2014.

Criteria	JORC Code explanation	Commentary
Geology	Deposit type, geological setting and style of mineralisation.	Gold mineralisation in the Nicolson's Find area is structurally controlled within the 400 m wide NNE trending dextral strike slip Nicolson's Find Shear Zone (NFSZ) and is hosted within folded and metamorphosed turbiditic greywackes, felsic volcaniclastics, mafic volcanics and laminated siltstones and mudstones. This zone forms part of a regional NE-trending strike slip fault system developed across the Halls Creek Orogen (HCO).
		<ul> <li>The NFSZ comprises a NNE-trending anastomosing system of brittle-ductile shears, characterised by a predominantly dextral sense of movement. The principal shear structures trend NNE to N-S and are linked by NW, and to a lesser extent, by NE shears. Individual shears extend up to 500m along strike and overprint the earlier folding and penetrative cleavage of the HCO.</li> </ul>
		<ul> <li>The overall geometry of the system is characterized by right step-overs and bends/jogs in the shear traces, reflecting refraction of the shears about the granite contact. Within this system, the NW-striking shears are interpreted as compressional structures and the NE-striking shears formed within extensional windows.</li> </ul>
		<ul> <li>Mineralisation is primarily focussed along NNE trending anastomosing systems of NNE-SSW, NW-SE and NE-SW oriented shears and splays. The NNE shears dip moderately to the east, while the NW set dips moderately to steeply to the NE. Both sets display variations in dip, with flattening and steepening which result in a complex pattern of shear intersections</li> </ul>
		<ul> <li>Mineralisation is strongly correlated with discontinuous quartz veining and with Fe-Si-K alteration halos developed in the wall rocks to the veins. The NE shears are associated with broad zones of silicification and thicker quartz veining (typically white, massive quartz with less fracturing and brecciation); however, these are typically poorly mineralized. The NW-trending shears are mineralized, with the lodes most likely related to high fluid pressures with over-pressuring and failure leading to vein formation. Although the NE structures formed within the same shear system, the quartz veining is of a different generation to the mineralized veins.</li> </ul>
		<ul> <li>Individual shears within the system display an increase in strain towards their centres and comprise an anastomosing shear fabric reminiscent of the pattern on a larger scale.</li> </ul>

Criteria	JORC Code explanation	Commentary
Drill hole Information	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:	All holes with results available from the last public announcement are reported.
	» easting and northing of the drill hole collar	
	» elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar	
	» dip and azimuth of the hole	
	» down hole length and interception depth	
	» hole length.	
	• If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	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.	All relevant intervals to the reported mineralised intercept are length weighted to determine the average grade for the reported intercept.
	<ul> <li>Where aggregate intercepts incorporate short lengths of high grade results an 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>	• All significant intersections are reported with a lower cut off of 1 g/t Au including
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and	These relationships are particularly important in the reporting of Exploration Results.	Surface Diamond drilling is perpendicular to the interpreted strike of the mineralisation.
intercept lengths	• If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	Downhole lengths are reported and true widths are calculated in both the section and plan view utiliising a formula in excel.
	• If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	True widths are calculated and reported for drill intersections which intersect the lodes obliquely.
Diagrams	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.	
Balanced reporting	<ul> <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>	

Criteria	JORC Code explanation	Commentary
Other substantive exploration data	• Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey 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.	
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).  Output  Description:	depth extensions of known mineralisation beneath the Wagtail pits in order to
	<ul> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	

