



**LUCAPA DIAMOND COMPANY LIMITED (ASX: LOM)  
QUARTERLY REPORT FOR PERIOD ENDED 30 SEPTEMBER 2014**

**HIGHLIGHTS**

**Lulo Diamond Concession, Angola**

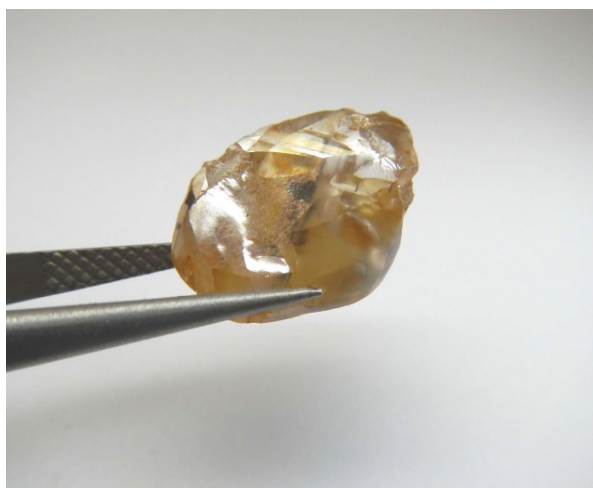
- Lucapa recruits diamond mining expertise to prepare for mining of world class alluvial diamonds at Lulo and to escalate kimberlite evaluation programs
- Additional fleet of earthmoving equipment arrives on site at Lulo to allow for concurrent exploration and mining operations
- Diamond inventory from alluvial and kimberlite bulk sampling programs increases to 766.95 carats. Unsold diamonds include a 16.5 carat Type IIa stone and fancy pink and yellow gems
- Interim assessment and valuation of a parcel of 385.4 carats of unsold Lulo diamonds confirms 37% are rare Type IIa gems. Interim valuation for the parcel was at an average of US\$1,239/carats. This includes a 10.15 carat gem valued at over US\$18,000/carats
- 15 kimberlite diamonds recovered from four different kimberlite pipes at Lulo
- Number of confirmed and probable kimberlites at Lulo increases to 98



Diamonds recovered from Lulo in the September Quarter including Type IIa gems and fancy colours



Type IIa alluvial diamonds from the 385.4 carat parcel



16.5 carat Type IIa diamond



Lulo alluvial diamonds



## OVERVIEW

**Lucapa Diamond Company Limited** (ASX: **LOM** and “**Lucapa**”) is an emerging diamond miner preparing to commence mining at the Lulo Diamond Concession in Angola. The Lulo Concession covers an area of 3,000 km<sup>2</sup> and is located in the Cuango River Basin within Angola’s diamond-rich Lunda Norte Province (the “Concession”) (Figure 1).

The Concession hosts two major kimberlite fields and extensive diamond-bearing alluvial gravels occurring along the two main rivers, the Cacuilo and Lulo Rivers. The Concession is located approximately 150 km west of Catoca, the world’s fourth biggest kimberlite diamond mine, and on the same favourable geological structure (the Lucapa Gräben).

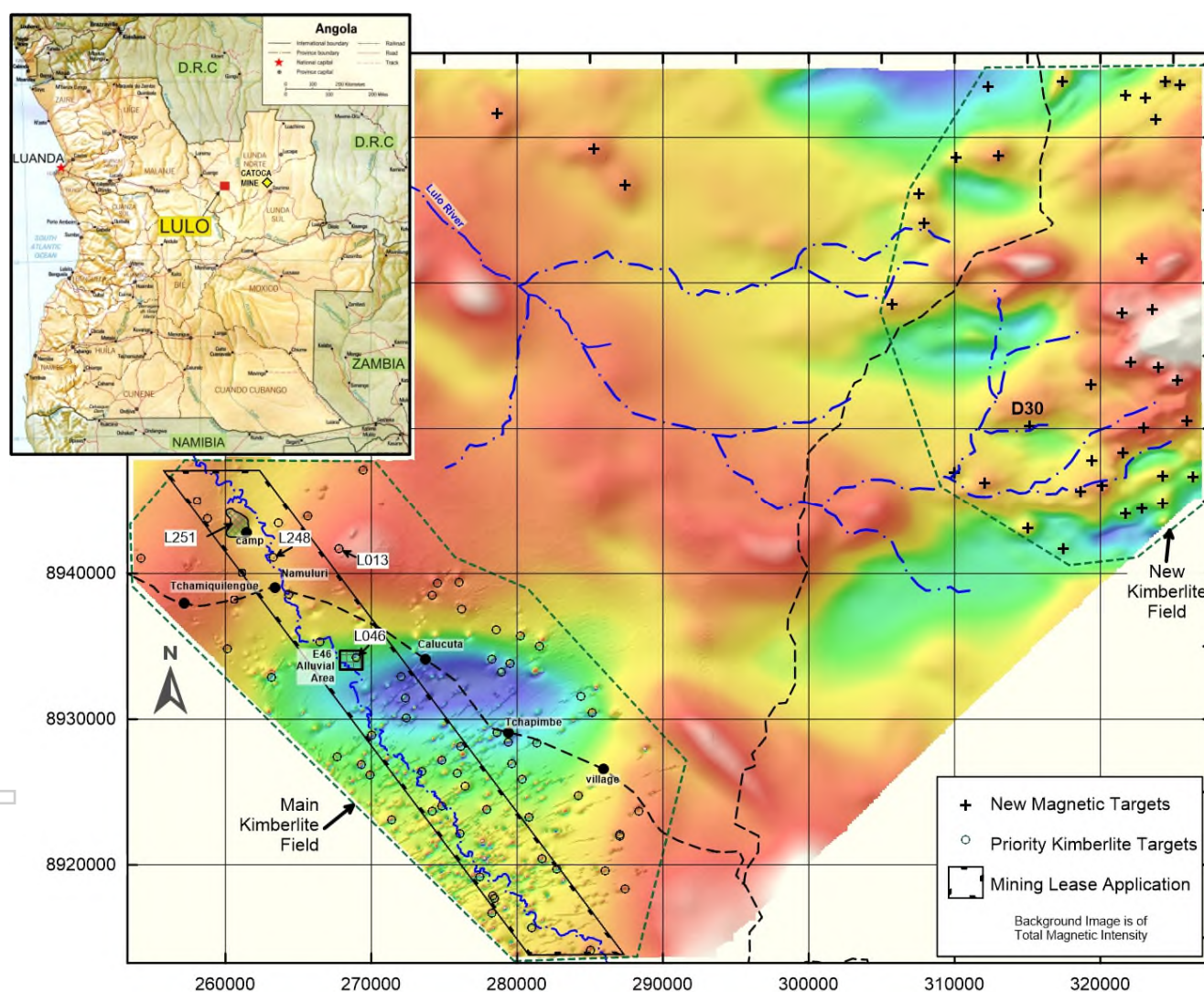


Figure 1: Lulo Diamond Concession – location of operations and mining licence area

Lucapa has recovered rare Type Ila alluvial diamonds, including individual stones of up to 131.4 carats in weight, from the exploration and sampling phase and is also testing priority kimberlite pipes within the Concession to find the source, or sources, of these valuable and rare gems. The size of the alluvial diamonds Lucapa is recovering at the Concession indicates their source or sources should be relatively close.

Already, Lucapa's preliminary kimberlite sampling program has proven that four Lulo kimberlites – including the approximate 220 hectare L251<sup>1</sup> pipe – are diamond bearing (diamondiferous) pipes.



Bulk sampling activities at Lulo

The exploration and development activities at Lulo are operated as a joint venture between Lucapa, a Government-owned diamond company Endiama (the exclusive concessionary for Angolan diamond mining rights) and private Angolan interests.

Under the joint venture, Lucapa holds a 40% interest in the alluvial operations and a 39% interest in the kimberlite operations. In May 2014, the alluvial and kimberlite exploration licences covering the Lulo Concession were extended for a further two years until May 2016.

#### **DIAMOND VALUATION AND ASSESSMENT**

To date, Lucapa has sold two parcels of Lulo diamonds weighing 867.5 carats for gross proceeds of more than A\$6 million. This represents an exceptional average price of A\$6,960/carats.

As at 20 October 2014, the inventory of diamonds available from the alluvial and kimberlite sampling programs totalled 889 stones weighing 766.95 carats.

Note <sup>1</sup> Lucapa has standardised its anomaly and kimberlite numbering system. Those in the Lulo field have been given an "L" prefix.



During the Quarter, Lucapa conducted an interim valuation of a parcel of 403 alluvial diamonds weighing 385.4 carats. These diamonds were valued at an average valuation of US\$1,239/carat, which is well above Angolan and world averages.

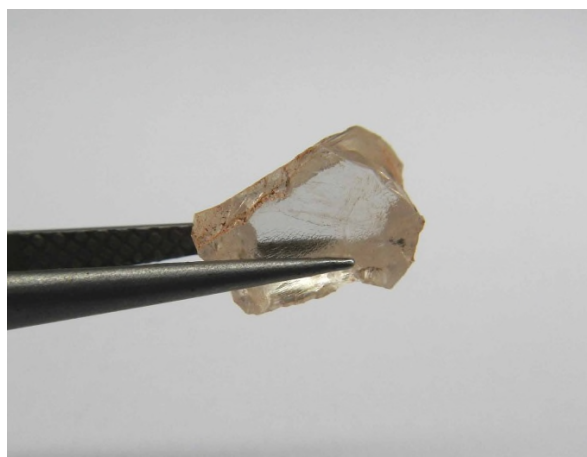
The most valuable stone was a 10.15 carat Type IIa diamond from sample BLK\_20, which was valued at over US\$18,000/carat.



10.15 carat Type IIa diamond valued at more than US\$18,000 per carat

Significantly, testing with a Yehuda ZVI colorimeter confirmed that 37% of the alluvial diamonds in the 385.4 carat parcel were Type IIa stones, which are the world's rarest category of white diamonds and account for approximately 1% of global diamond production.

These results provide further evidence of the premium value of the diamonds being recovered from the Lulo Concession.



Alluvial diamonds from Lulo in inventory

#### PREPARATIONS FOR ALLUVIAL DIAMOND MINING

As announced in the previous quarter, the exceptional alluvial diamond results achieved by Lucapa in recent years have encouraged the Company to apply for a licence to mine the alluvial diamond deposits in the valley of the Caculo River. The mining licence application area covers approximately 218 km<sup>2</sup> and includes recent alluvial and terrace deposits associated with the Caculo River (Figures 1 and 2).

As previously announced, Lucapa has finalised all material commercial terms and conditions for the mining licence and remains confident it will be granted in the short term.

During the Quarter, Lucapa continued to prepare for the critical alluvial diamond mining phase at Lulo.

This included the appointment of two diamond industry experts in Executive Director Stephen Wetherall and General Manager Operations Nick Selby (See ASX announcement 13 October 2014).

Mr Wetherall and Mr Selby are well advanced with a detailed review and optimisation of Lucapa's exploration program, mine plan and the diamond treatment plant, which has a head-feed capacity of 150 tonnes per hour.

Since its commissioning in late 2013, the amount of material processed through the diamond plant has become more dependent on Lucapa's earthmoving or fleet capacity.



As announced in the previous quarter, a new fleet of earthmoving equipment has been leased in preparation for the alluvial mining phase (within the mining licence area), which will also enable concurrent exploration and mining activities. Once the mining licence is granted to the joint venture, the operations will be allowed to be scaled up and the operating hours extended to levels beyond those that are currently allowed under the exploration licence.

After being shipped from South Africa, this new equipment arrived on site at Lulo in October 2014. The equipment includes a Bell HD1430 excavator, two Bell B52D dump trucks and a Bell L1806D loader. In addition, a Caterpillar 350 excavator is due to arrive on site in the coming weeks.



New fleet of earthmoving equipment which has arrived on site at Lulo

## KIMBERLITE EVALUATION PROGRAM

Lucapa's kimberlite evaluation program aims to find the kimberlite source, or sources, of the valuable alluvial diamonds being recovered from within the Concession. Aeromagnetic surveys flown over the Concession have identified more than 250 anomalies with magnetic signatures similar to known kimberlite pipes.

In addition, a separate province of kimberlite targets to the north east of the Concession has also been identified (Figure 1). This new magnetic anomaly field has not been explored to date and represents significant potential for additional targets.

To date, Lucapa's field geologists have so far classified 98 of the magnetic anomalies as confirmed or probable kimberlite pipes.

Figure 2 illustrates the status of the kimberlite evaluation program at Lulo as at 20 October 2014. Pitting and sampling programs are on-going and the number of confirmed and probable kimberlites is expected to increase as more anomalies are tested.

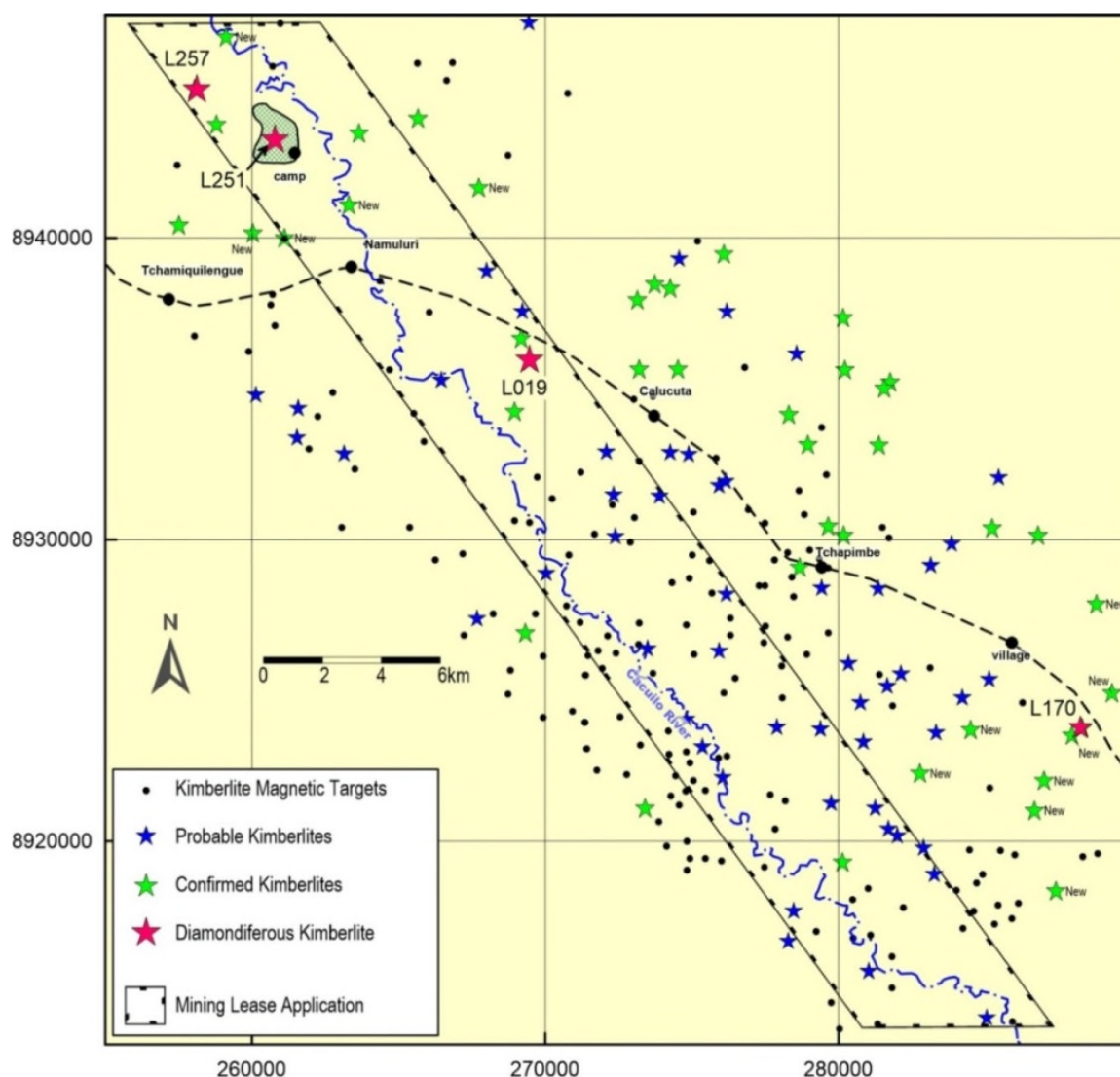
During the previous quarter, Lucapa commenced a preliminary surface bulk sampling program to test a cluster of the priority kimberlite targets with an excavator.

To date, Lucapa has recovered 14 macro diamonds, and one micro-diamond, from bulk samples excavated from four of the kimberlite pipes. These kimberlite diamond recoveries are summarised in Table 1.



A total of 12 diamonds have been recovered from the L251 pipe (Figure 2 and Table 1). Of those 12 diamonds, five have been confirmed as Type IIa stones after testing with a Yehuda ZVI colorimeter.





Status	No	Commentary
Total Magnetic Targets	258	Magnetic anomalies with characteristics consistent with known kimberlites. There are other smaller magnetic features not included in this count that may also be kimberlites. To date, all the magnetic targets conclusively tested have proven to be kimberlites. Lucapa has standardised its anomaly and kimberlite numbering system. While the numbers of the anomalies have not changed, those in the Lulo Field have been given an "L" prefix.
Confirmed Kimberlites	46	These are magnetic targets where kimberlite has been identified in either drill samples, exploration pits or in outcrop. One non-magnetic kimberlite was discovered during the Quarter. Kimberlites confirmed during the Quarter are marked "New".
Probable Kimberlites	52	Magnetic targets have only been surface sampled. For a "Probable" status, kimberlitic indicator mineral counts are so high that site geologists believe there is little doubt that a shallowly buried kimberlite exists in the locality. At this stage all "Probable" kimberlites have been confirmed as kimberlites after drill or pit testing.
Diamondiferous Kimberlites	4	Kimberlites where diamonds have been recovered. More than a third of the kimberlites that have been surface bulk-sampled or sampled with wide-diameter drill holes have proven to be diamondiferous. Lucapa believes that the number of diamondiferous kimberlites will increase as more kimberlites are surface bulk sampled.

Figure 2: Status of kimberlite exploration program – 20 October 2014

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The high proportion of Type IIa diamonds recovered from L251, and the remainder of the Lulo concession area, is considered very unique.

**Table 1 - Kimberlite Bulk Sampling Program - Summary of Positive Results**

Kimberlite	Bulk Sample N°.	Sample Processed ( m <sup>3</sup> )	Size Distribution <sup>1</sup>			Stones Recov (total)	Diamond Weight (ct)	Average Diamond Size (ct)	Largest Diamond (ct)
			<1ct	1-2ct	2-5ct				
L19	KMB_03	99	1	-	-	1	0.60	0.60	0.60
L257	KMB_05	313	1	-	-	1	0.10	0.10	0.10
L251	KMB_06	339	1	-	-	1	0.10	0.10	0.10
L251	KMB_07	289	2	1	-	3	1.75	0.58	1.05
L251	KMB_08a	694	1	-	-	1	0.45	0.45	0.45
L251	KMB_09a	431	-	2	-	2	2.40	1.20	1.30
L251	KMB_09b	424	4	1	-	5	2.10	0.42	1.35
<b>Totals :</b>			<u>10</u>	<u>4</u>	<u>-</u>	<u>14</u>	<u>7.50</u>		

Notes:

- 1) Lucapa's plant uses a lower cut-off screen-size of 1.2mm, and an upper cut-off size of 32mm.
- 2) In addition to the results shown, a single 0.3mm microdiamond was recovered from a 40kg sample collected from L170.
- 3) Lucapa has standardised its anomaly and kimberlite numbering system. While the numbers of the anomalies have not changed, those in the Lulo Field have been given an "L" prefix.



Excavating kimberlite samples at Lulo

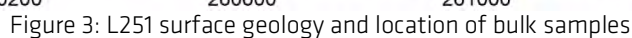
During the Quarter, Lucapa processed preliminary surface samples from kimberlites L248 and L13. No macro diamonds were recovered from these samples.

Over the coming months, Lucapa will continue bulk sampling operations on the priority kimberlites in the vicinity of the high-value diamond bearing alluvial gravels and continue to sample the identified diamondiferous kimberlites to assess what further and more detailed sampling is required to assess economics.

Hand-pitting over a number of magnetic anomalies during the Quarter (some of which were previously identified as probable kimberlites) resulted in the positive identification of a further 13 kimberlites – L13, L167, L169, L171, L172, L173, L174, L204, L205, L245, L248, L252 and L258. The location of these new kimberlites is shown in Figure 2 (marked as “New”).

Kimberlite L258 was identified while pitting for alluvial gravels north of Lucapa’s diamond plant. The magnetic anomaly associated with this kimberlite is extremely subtle and was not highlighted in the aeromagnetic survey.





## ALLUVIAL EVALUATION PROGRAM

Lucapa is continuing to evaluate alluvial diamond deposits within the western part of the Concession. The alluvial deposits contain exceptional diamonds, including the occasional very large, high value stone. As described previously, the two parcels of Lulo alluvial diamonds sold to date have achieved exceptional average prices of A\$6,960/carat.

Lucapa continued its alluvial bulk sampling programs during the Quarter. As previously announced, Lucapa is focusing its alluvial bulk samples near the diamond plant while the Company awaits its alluvial mining licence.



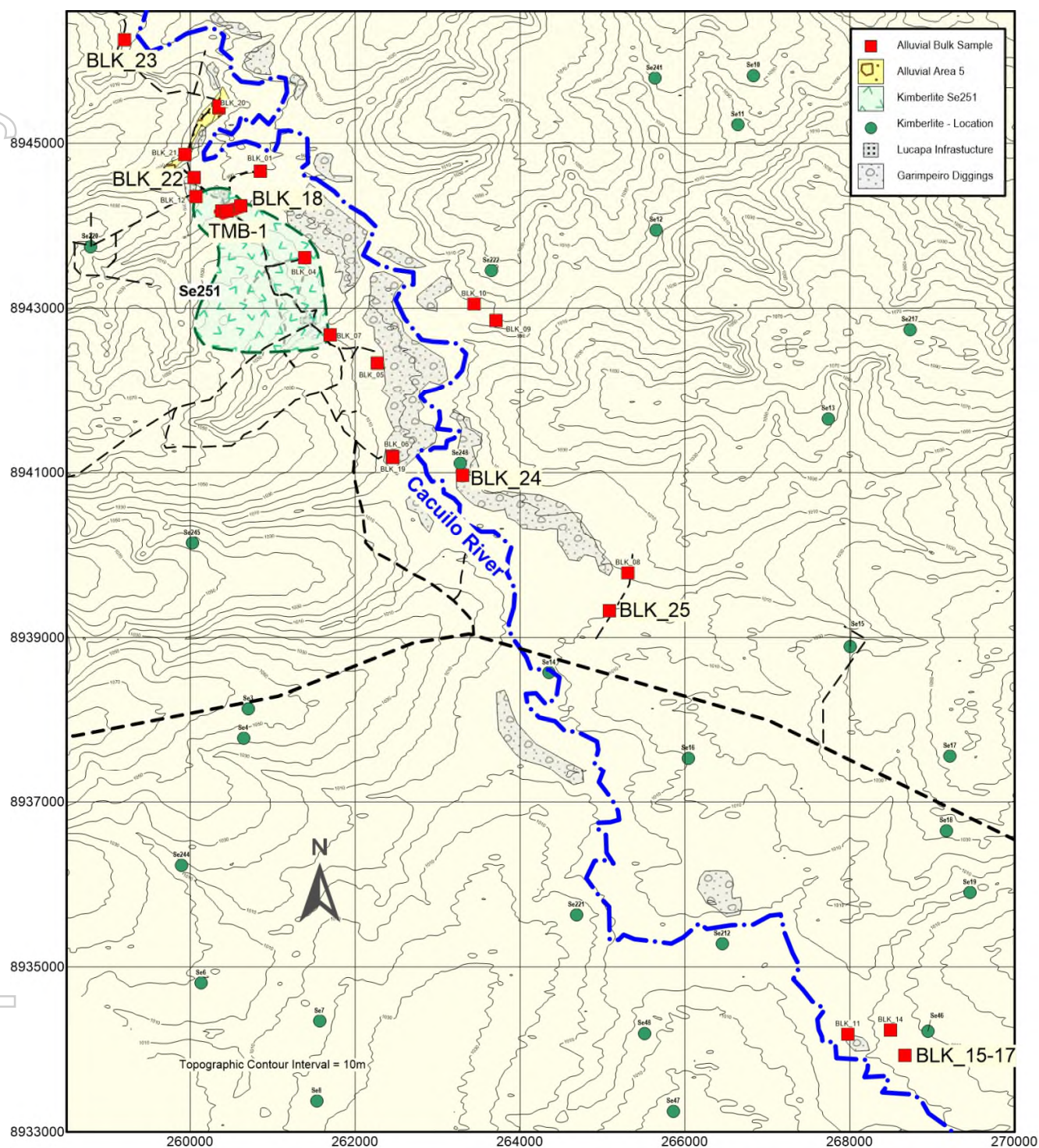
Diamonds recovered from alluvial bulk sampling at Lulo

During the Quarter, Lucapa completed processing bulk samples BLK\_15-17, BLK\_18, BLK\_22, BLK\_23, BLK\_24 and BLK\_25 and is continuing with the sampling of TMB-1. The locations of all alluvial bulk samples are shown in Figure 4 with processing and diamond recovery details summarised in Table 2.

The diamonds recovered from these alluvial bulk samples included a 16.5 carat Type IIa gem recovered from TMB\_1 and a 10.15 carat D colour Type IIa gem from BLK\_20. The diamonds recovered also included fancy pink and yellow gems.

These diamond recoveries, together with the kimberlite sampling diamonds recovered, increased Lucapa's diamond inventory on hand to 889 stones weighing 766.95 carats, as at 20 October 2014.







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**Table 2 - Alluvial Sampling Programme Summary Results**

Bulk Sample No.	Sample Type	Gravel Processed (m <sup>3</sup> ) <sup>1</sup>	Size Distribution <sup>2</sup>				Stones Recov (total)	Diamond Weight Recov (ct)	Average Diamond Size (ct)	Sample Grade <sup>3</sup> (ct/100m <sup>3</sup> )	Largest Diamond (ct)
			<1ct	1-2ct	2-5ct	>5ct					
BLK_15-17	Calonda	70	3	-	-	-	3	1.00	0.33	1.43	0.50
BLK_18	Calonda	3,713	155	32	9	6	202	159.80	0.79	4.30	9.30
BLK_22	Laterite	1,209	51	4	3	2	60	45.00	0.75	3.72	6.30
BLK_23	Calonda	1,014	44	4	3	3	54	61.00	1.13	6.02	10.15
BLK_24	Calonda	438	42	6	4	-	52	35.10	0.68	8.01	4.25
BLK_25	Channel	373	32	7	4	-	43	31.85	0.74	8.54	3.25
TMB-1 <sup>4</sup>	Calonda	2,635	228	32	21	1	282	206.55	0.73	7.84	16.50

Notes:

- 1) Assume 1 FEL bucket delivers 1.71m<sup>3</sup> of bulked gravel.
- 2) Lucapa is treating gravel in the +1.2-32mm size range.
- 3) Grade is quoted in carats per 100m<sup>3</sup> of treated gravel.
- 4) Processing not complete.

## CORPORATE

On 12 August 2014, Lucapa announced that at the closing date of its pro-rata non-renounceable issue of listed options (Loyalty Options), the Company had received acceptances for 80,333,460 Loyalty Options from eligible shareholders, raising A\$401,667 before costs. This represented a shortfall of 9,907,010 Loyalty Options, which was dealt in accordance with the Underwriting Agreement as outlined in the rights issue prospectus of 8 July 2014.

On 25 September 2014, 4,166,668 unlisted \$0.57 options expired without being exercised.

On 13 October 2014, Lucapa announced the appointments of Mr Stephen Wetherall as Executive Director and Mr Nick Selby as General Manager Operations.

Mr Wetherall is a qualified chartered accountant with more than 20 years' experience in financial and operational management, corporate transactions and strategic planning. He has held senior financial and executive roles with global diamond giant De Beers and London-listed Gem Diamonds, where after successfully establishing the marketing and diamond manufacturing operations for Gem Diamonds served as the company's Group Sales and Marketing Executive responsible for the global marketing and manufacturing division. In his roles at De Beers and Gem Diamonds, Stephen has built a deep understanding of the diamond industry from exploration through to retail.

Mr Selby is an extraction metallurgist with 35 years' experience in the mining industry. He began his career with De Beers, where he spent 19 years in a range of technical roles. Mr Selby joined Gem Diamonds in 2005, where he was responsible for establishing diamond projects in a number of countries including Angola, Australia, the Democratic Republic of Congo, the Central African Republic, Indonesia, Lesotho and Botswana as well as ongoing mineral extraction efficiency improvements.

For further information please contact:

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MANAGING DIRECTOR**

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**Competent Person's Statement**

Information in this announcement that relates to exploration results, mineral resources or ore reserves is based on and fairly represents information and supporting documentation prepared and compiled by Albert Thamm who is a Director of Lucapa Diamond Company Limited and a Corporate Member of the Australasian Institute of Mining and Metallurgy. Mr Thamm 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 Exploration Targets, Exploration Results, Mineral Resources and Ore Reserves. Mr Thamm consents to the inclusion in the announcement of the matters based on this information in the form and context in which it appears.

**Forward-Looking Statements**

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**Appendix - Reporting of diamond exploration results for the Lulo Project  
- JORC Code (2012) requirements -**

**Sampling Techniques and Data**

Criteria	JORC Code Explanation	Lucapa 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. 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 style="list-style-type: none"> <li>Bulk sample results are reported. The bulk samples were collected from surface excavations using an excavator and trucks. For kimberlite samples overburden of Kalahari sand and Calonda Formation were stripped and weathered kimberlite was exposed. Sample comprised kimberlitic material only. For alluvial samples overburden of Kalahari sand and Calonda Formation sand and silt were stripped and basal Calonda gravel exposed. The gravel + some underlying basement material (&lt;30cm) was excavated.</li> <li>The sampling is exploratory in nature and generally is seeking to identify diamondiferous lithologies. Samples are relatively large (typically &gt;100m<sup>3</sup>) and by their nature are representative.</li> <li>Diamonds occur in very low concentrations in most lithologies. They also occur as discrete crystal particles and these must be physically separated and recovered to determine grade. Individual diamonds are unique and their value depends on factors including size, shape, colour and clarity. Large samples (tens to hundreds of tonnes) are required to identify the presence of commercial diamonds. Samples in the order of tens of or hundreds of thousands of tonnes are required to establish reliable grade and value for diamond deposits</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. 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>	<ul style="list-style-type: none"> <li>No drilling is reported in this document.</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> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <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>	<ul style="list-style-type: none"> <li>No drilling is reported in this document</li> <li>Sample recovered using an excavator and front-end loader. Sample area visually inspected and all gravels excavated to basement. For kimberlite samples all materials within the sample interval are processed</li> <li>No relationship appears to exist between sample recovery and grade. All material within the sampled interval is collected for treatment.</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</li> </ul>	<ul style="list-style-type: none"> <li>Sample pits are lithologically logged and measured to determine volumes.</li> </ul>



	<p>Resource estimation, mining studies and metallurgical studies.</p> <ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>Logging is semi-quantitative with edge thicknesses measured of the entire pit. Pits are photographed, but the photography is not systematic.</li> <li>All excavated faces of the pits are logged</li> </ul>
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <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> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>Not core. No sub-samples are taken. All material excavated is processed to recover diamonds.</li> <li>Most of the samples are excavated dry and all material is taken.</li> <li>The sampling and sample preparation are identical to those that would be used for mining and are considered appropriate for this type of sampling.</li> <li>Samples are disaggregated during excavation and washed through a scrubber. The process is identical to that which would be used for mining and results are considered representative.</li> <li>Sample size is appropriate for the material being sampled.</li> </ul>
Quality of assay data and laboratory tests	<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>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> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>Samples are processed though a Dense Media Separation (DMS) plant. Recovery in the size fractions used on the plant is considered total.</li> <li>Samples are processed through the Company's DMS Plant to produce a heavy concentrate. Diamonds are recovered from the heavy concentrate using a Flowsort x-ray sorting machine followed by visual sorting.</li> <li>DMS efficiency is monitored using density beads</li> </ul>
Verification of sampling and assaying	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</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>No verification of sample data at an independent facility has been undertaken due to the very large size of the samples and the lack of appropriate facilities in Angola.</li> <li>Twinned holes are rarely used because of the size of the sample.</li> <li>Entry of primary data has been checked and loaded into a sampling spreadsheet.</li> <li>Assay data are not adjusted</li> </ul>
Location of data points	<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> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>Sample sites were located using a hand held GPS with a nominal accuracy of about 5m.</li> <li>The grid system is WGS84 Zone 34L</li> <li>Topographic control uses Digital Terrain Models collected during aeromagnetic surveys. In pit measurements are recorded with tape measures</li> </ul>

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Data spacing and distribution	<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>• Data in this report comes from individual pits where all the material from that pit has been, or will be processed.</li> <li>• The pit spacing is currently related to exploration and is not appropriate for Mineral Resource and Ore Reserve estimation.</li> <li>• Sample compositing has not been applied</li> </ul>
Orientation of data in relation to geological structure	<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> <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>	<ul style="list-style-type: none"> <li>• The samples are considered spot samples within either an alluvial or kimberlitic body.</li> <li>• Insufficient data exists to determine whether sample bias is present but given the nature of the body, bias is considered unlikely.</li> </ul>
Sample security	<ul style="list-style-type: none"> <li>• The measures taken to ensure sample security.</li> </ul>	<ul style="list-style-type: none"> <li>• Sample stockpiles are located near the company's processing facility and are guarded by armed security personnel at all times.</li> <li>• Security of processing and diamond recovery is monitored by company and Angolan State Diamond Security personnel.</li> </ul>
Audits or reviews	<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>• The sampling techniques are industry standard and no audits or reviews have been undertaken.</li> </ul>

**Reporting of Exploration Results**

Criteria	JORC Code Explanation	Lucapa Commentary
Mineral tenement and land tenure status	<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 1994 legislation covering the Angolan diamond industry stipulates that only ENDIAMA (Empresa Nacional de Diamantes de Angola, the State Diamond Company) or joint ventures with ENDIAMA, can hold diamond mining rights awarded by the Council of Ministers.</li> <li>• Under the terms of the Lulo Joint Venture Association Agreements, separate titles are granted for alluvial and kimberlite mining. The exploration for both alluvials and kimberlites on the Lulo Concession is a requirement under the Act.</li> <li>• The Angolan Government Gazette, dated 24 December 2007, authorized the formation of a Joint Venture for the exercise of prospecting, evaluation and mining of secondary (alluvial) diamond deposits. These rights were granted for a maximum period of five years. Should the Joint Venture wish to extend the agreement beyond five years, then 50% of the Concession would be relinquished. The equity distribution is: ENDIAMA 32%, Lucapa Diamond Company Ltd 40%, Rosas e Petalas S.A. 28%.</li> </ul>

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		<ul style="list-style-type: none"> <li>In May 2014, the authorization for kimberlite exploration was gazetted. The equity distribution is: ENDIAMA 51%, Lucapa Diamond Company Ltd 39%*, Rosas e Petalas S.A. 19% (*This interest will be reduced to 30% after recoupment of the investment.).</li> <li>Lucapa Diamond Company Limited is the operator of the Concession and is obliged to fund and execute all exploration activities according to a Program of Work pre-approved by ENDIAMA.</li> <li>The Joint Ventures Alluvial licence was extended for two years to 25 May 2016. The application to extend Kimberlite Licence for two years until 25 May 2016 was also granted to the concession by the Angolan Ministry of Mines.</li> </ul>
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>Limited exploration has been undertaken by state controlled entities.</li> <li>Parts of the area have been exploited by artisanal miners – no records of this work are available.</li> </ul>
Geology	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<ul style="list-style-type: none"> <li>Significant diamond bearing alluvial systems, of Mesozoic to Recent ages overlie a major, but relatively poorly explored, kimberlite field. The kimberlite pipes intrude flat-lying Proterozoic sediments within the Lucapa Graben. The kimberlite field is believed to be the source of the alluvial diamonds.</li> </ul>
Drill hole Information	<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>eastings 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 hole length.</li> <li>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.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>No drilling is reported in this document.</li> <li>The location of the sample pits is shown on maps within this report. The maps provide data on the location and relative elevations of the samples. The sample pits are surface excavations and other data required in the code is not material and its exclusion does not detract from the understanding of the report.</li> </ul>
Data aggregation methods	<ul style="list-style-type: none"> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. 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</li> </ul>	<ul style="list-style-type: none"> <li>No weighting, averaging, grade truncations or cut-off grades have been used.</li> <li>No short or long length aggregation applicable.</li> <li>No metal equivalent values are used</li> </ul>



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	<p><i>examples of such aggregations should be shown in detail.</i></p> <ul style="list-style-type: none"> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</i></li> </ul>	<ul style="list-style-type: none"> <li>Results quoted are from surface pits. For the alluvial sample, the entire gravel horizon was sampled. For kimberlite samples all material excavated from the pit was processed</li> <li>Non-drillhole, in pit sampling, not applicable length concepts.</li> </ul>
<i>Diagrams</i>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>Appropriate map and plans for the reported mineralisation with scale and north points are included with the text of the report.</li> </ul>
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>The results reported are all of the results. Results reported are up to 20-10-2014.</li> </ul>
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>Previously reported drilling, pitting and bulk sampling data were used to site bulk sample pits. The collar locations of drill holes, exploration pits and bulk samples are shown on diagrams within the report</li> </ul>
<i>Further work</i>	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<ul style="list-style-type: none"> <li>Excavation and processing of material is ongoing and results will be reported progressively.</li> </ul>

**Estimation and Reporting of Diamonds and Other Gemstones**

<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Lucapa Commentary</b>
<i>Indicator minerals</i>	<ul style="list-style-type: none"> <li><i>Reports of indicator minerals, such as chemically/physically distinctive garnet, ilmenite, chrome spinel and chrome diopside, should be prepared by a suitably qualified laboratory.</i></li> </ul>	<ul style="list-style-type: none"> <li>Samples were collected from hand-dug prospecting pits approximately 0.7m deep</li> <li>Indicator minerals were concentrated and recovered in the field by hand panning of samples.</li> </ul>

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		<ul style="list-style-type: none"> <li>Indicator grains were identified and counted by an experienced Lucapa geologist using a x10 Loupe. Only +1mm indicator minerals were counted.</li> </ul>
Source of diamonds	<ul style="list-style-type: none"> <li>Details of the form, shape, size and colour of the diamonds and the nature of the source of diamonds (primary or secondary) including the rock type and geological environment.</li> </ul>	<ul style="list-style-type: none"> <li>The diamonds reported have a variety of sizes, shapes and colours. The diamonds were recovered from alluvial gravels of the Mid-Cretaceous Calonda conglomerate. These are essentially fanglomerates and braided stream sediments. At Lucapa the primary, kimberlitic source of the diamonds are believed to be kimberlites located within the Lulo Concession.</li> <li>As described in the report a number of diamonds were also recovered from surface kimberlite samples</li> </ul>
Sample collection	<ul style="list-style-type: none"> <li>Type of sample, whether outcrop, boulders, drill core, reverse circulation drill cuttings, gravel, stream sediment or soil, and purpose (e.g. large diameter drilling to establish stones per unit of volume or bulk samples to establish stone size distribution).</li> <li>Sample size, distribution and representivity.</li> </ul>	<ul style="list-style-type: none"> <li>Samples reported are bulk samples of alluvial gravels and weathered kimberlite. The samples are designed to determine whether the units sampled are diamondiferous and to what extent. The samples are also designed to determine stone size distribution and eventually diamond values.</li> <li>Lucapa are conducting exploration activities to locate diamondiferous lithologies. The sample size, distribution and representivity are appropriate for this activity</li> </ul>
Sample treatment	<ul style="list-style-type: none"> <li>Type of facility, treatment rate, and accreditation.</li> <li>Sample size reduction. Bottom screen size, top screen size and re-crush.</li> <li>Processes (dense media separation, grease, X-ray, hand-sorting, etc).</li> <li>Process efficiency, tailings auditing and granulometry.</li> <li>Laboratory used type of process for micro diamonds and accreditation.</li> </ul>	<ul style="list-style-type: none"> <li>Samples are processed through Lucapa's DMS plant. The plant uses a 420mm diameter cyclone and has a nominal treatment rate of 50 tonnes per hour. The plant is not accredited.</li> <li>Samples are disaggregated during excavation and washed through a scrubber. The bottom screen size is 1.2mm (slotted) and the top size is 32mm.</li> <li>The recovery process involves DMS separation, X-ray sorting of the heavy concentrate and hand sorting of the X-ray concentrate. Larger diamonds are characterised using a ZVI Yehuda F1000 Colorimeter.</li> <li>Lucapa are processing the material through a recently commissioned DMS plant. Processing efficiency has been demonstrated in density bead recovery tests. Tails auditing and granulometry studies have not been completed.</li> <li>Microdiamonds are not reported.</li> </ul>
Carat	<ul style="list-style-type: none"> <li>One fifth (0.2) of a gram (often defined as a metric carat or MC).</li> </ul>	<ul style="list-style-type: none"> <li>Reported as carats.</li> </ul>

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Sample grade	<ul style="list-style-type: none"> <li>Sample grade in this section of Table 1 is used in the context of carats per units of mass, area or volume.</li> <li>The sample grade above the specified lower cut-off sieve size should be reported as carats per dry metric tonne and/or carats per 100 dry metric tonnes. For alluvial deposits, sample grades quoted in carats per square metre or carats per cubic metre are acceptable if accompanied by a volume to weight basis for calculation.</li> <li>In addition to general requirements to assess volume and density there is a need to relate stone frequency (stones per cubic metre or tonne) to stone size (carats per stone) to derive sample grade (carats per tonne).</li> </ul>	<ul style="list-style-type: none"> <li>Sample grade is quoted in the text in units of carats per 100 cubic metres for alluvials.</li> <li>A nominal 1.7 tonnes per cubic metre is ascribed to the alluvial gravels and weathered kimberlite. Limited density measurements have been made and the use of an "average" density is considered appropriate for the stage of exploration.</li> <li>The table in the report reports average carats per stone and carats per unit volume. Stones per cubic metre are not reported but can be calculated from the reported data.</li> </ul>
Reporting of Exploration Results	<ul style="list-style-type: none"> <li>Complete set of sieve data using a standard progression of sieve sizes per facies. Bulk sampling results, global sample grade per facies. Spatial structure analysis and grade distribution. Stone size and number distribution. Sample head feed and tailings particle granulometry.</li> <li>Sample density determination.</li> <li>Per cent concentrate and undersize per sample.</li> <li>Sample grade with change in bottom cut-off screen size.</li> <li>Adjustments made to size distribution for sample plant performance and performance on a commercial scale.</li> <li>If appropriate or employed, geostatistical techniques applied to model stone size, distribution or frequency from size distribution of exploration diamond samples.</li> <li>The weight of diamonds may only be omitted from the report when the diamonds are considered too small to be of commercial significance. This lower cut-off size should be stated.</li> </ul>	<ul style="list-style-type: none"> <li>Exploration results are reported in the text of the report.</li> <li>The density for both alluvials and weathered kimberlite samples has been determined at 1.7 tonnes per cubic metre. This number was measured for previous samples and has been applied throughout. An approximation of this sort is considered appropriate for the stage of exploration.</li> <li>Percent concentrate and undersize have not been measure and are not considered material to the understanding of this report.</li> <li>Variation in grade with changes in bottom cut-off screen size has not been determined. Lucapa's DMS plant is considered to be a pilot plant and plant parameters are the same as would be used on a commercial plant.</li> <li>Geostatistical studies have not been undertaken because of the relatively small number of diamonds recovered and uncertainties of using this data for alluvial deposits.</li> <li>The total weight of diamonds recovered is reported in the text as are the upper and lower cut-off sizes.</li> </ul>
Grade estimation for reporting Mineral Resources and Ore Reserves	<ul style="list-style-type: none"> <li>Description of the sample type and the spatial arrangement of drilling or sampling designed for grade estimation.</li> <li>The sample crush size and its relationship to that achievable in a commercial treatment plant.</li> <li>Total number of diamonds greater than the specified and reported lower cut-off sieve size.</li> <li>Total weight of diamonds greater than the specified and reported lower cut-off sieve size.</li> <li>The sample grade above the specified lower cut-off sieve size.</li> </ul>	<ul style="list-style-type: none"> <li>No Mineral Resources or Ore Reserves are included in the report</li> </ul>
Value estimation	<ul style="list-style-type: none"> <li>Valuations should not be reported for samples of diamonds processed using total liberation method, which is commonly used for processing</li> </ul>	<ul style="list-style-type: none"> <li>Value estimates are based on recoveries from a commercial scale DMS plant. Total liberation methods have not been employed.</li> </ul>



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	<p>exploration samples.</p> <ul style="list-style-type: none"> <li>To the extent that such information is not deemed commercially sensitive, Public Reports should include: <ul style="list-style-type: none"> <li>diamonds quantities by appropriate screen size per facies or depth.</li> <li>details of parcel valued.</li> <li>number of stones, carats, lower size cut-off per facies or depth.</li> </ul> </li> <li>The average \$/carat and \$/tonne value at the selected bottom cut-off should be reported in US Dollars. The value per carat is of critical importance in demonstrating project value.</li> <li>The basis for the price (e.g. dealer buying price, dealer selling price, etc).</li> <li>An assessment of diamond breakage.</li> </ul>	<ul style="list-style-type: none"> <li>Much of the detailed diamond valuation data is considered commercially sensitive and the independent valuer, Jaguar Pty Ltd has not allowed details of the valuation to be released.</li> <li>Broad details of the parcel valued are included in the text.</li> <li>The parcel of diamonds sold includes all diamond held by Lucapa at the time the valuation was undertaken.</li> <li>The bottom cut-off used is the same as the plant – 1.2 mm slotted screen.</li> <li>Values are reported in US and Australian Dollars.</li> <li>The price quoted is the sale price.</li> <li>No significant diamond breakage was recognised.</li> </ul>
Security and integrity	<ul style="list-style-type: none"> <li>Accredited process audit.</li> <li>Whether samples were sealed after excavation.</li> <li>Valuer location, escort, delivery, cleaning losses, reconciliation with recorded sample carats and number of stones.</li> <li>Core samples washed prior to treatment for micro diamonds.</li> <li>Audit samples treated at alternative facility.</li> <li>Results of tailings checks.</li> <li>Recovery of tracer monitors used in sampling and treatment.</li> <li>Geophysical (logged) density and particle density.</li> <li>Cross validation of sample weights, wet and dry, with hole volume and density, moisture factor.</li> </ul>	<ul style="list-style-type: none"> <li>There has been no accredited process audit.</li> <li>Samples were monitored by armed guards after excavation and the process operation was monitored by Angolan State Diamond Security personnel.</li> <li>Diamonds recovered are stored in a locked vault and retained on site. The diamonds have not yet been cleaned or valued.</li> <li>Microdiamonds were not processed</li> <li>No audit samples were collected because of the size of the bulk samples.</li> <li>Tailings have not been checked.</li> <li>Tracer monitors were used in sample treatment with tracer recovery in all tested size fractions &gt;95% for tracers of density 3.5 g/cc</li> <li>Geophysical densities were not determined.</li> <li>Gross validation of weights with hole volume and density is not considered appropriate for the stage of exploration</li> </ul>
Classification	<ul style="list-style-type: none"> <li>In addition to general requirements to assess volume and density there is a need to relate stone frequency (stones per cubic metre or tonne) to stone size (carats per stone) to derive grade (carats per tonne). The elements of uncertainty in these estimates should be considered, and classification developed accordingly.</li> </ul>	<ul style="list-style-type: none"> <li>Insufficient diamonds have been recovered to allow Lucapa to quantify the uncertainty in stone frequency, stone size or diamond grade, as yet.</li> </ul>