

21 September 2015



## *Tomingley Gold Operations Update*

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- **TGO is operating at design capacity with strong production and cost performance for the FY16 period to date**
- **Ore is predominantly being sourced from the Caloma pit as Wyoming Three nears completion**
- **July - August production was 15,191 ounces at AISC of A\$1,088/oz**
- **Reconciliation of gold recovery to resource estimates remains very positive with Wyoming Three at +41% and Caloma +1%**
- **Mineral Resources and Ore Reserves have been re-estimated to account for depletion and actual operating costs and conditions:**
  - **Total resources are 11.25Mt grading 1.90g/t Au (687,800oz)**
  - **Total reserves are 4.36Mt grading 1.60g/t Au (235,000oz)**



**CONTACT : IAN CHALMERS, MANAGING DIRECTOR, ALKANE RESOURCES LTD, TEL +61 8 9227 5677**  
**INVESTORS : NATALIE CHAPMAN, CORPORATE COMMUNICATIONS MANAGER, TEL +61 418 642 556**  
**MEDIA : HILL KNOWLTON STRATEGIES, CONTACT: IAN WESTBROOK, TEL +61 2 9286 1225 OR +61 407 958 137**

Ground Floor, 89 Burswood Road, Burswood WA 6100, AUSTRALIA (PO Box 4384, Victoria Park WA 6979, AUSTRALIA)

Telephone: +61 8 9227 5677 Facsimile: +61 8 9227 8178

[www.alkane.com.au](http://www.alkane.com.au) [mail@alkane.com.au](mailto:mail@alkane.com.au)



## TOMINGLEY GOLD OPERATIONS (TGO)

Alkane 100%

### Operations

Mining continued in two pits, Wyoming Three (W3) and Caloma in July – August with the majority of effort in the longer life Caloma pit as W3 approaches the end of its economic life. Pre-stripping of waste from the Wyoming One pit continues.

TGO Production		FY 2015	July-August 2015	FY 2016 to date
Waste mined	BCM	5,730,661	1,104,910	1,104,910
Ore mined	Tonnes	1,386,291	299,267	299,267
Grade	g/t	1.66	1.97	1.97
Ore milled	Tonnes	1,140,704	187,185	187,185
Head grade	g/t	2.01	2.67	2.67
Recovery	%	93.9	92.6	92.6
Gold poured	Ounces	69,612	15,191	15,191
<b>Revenue Summary</b>				
Gold sold	Ounces	70,734	13,500	13,500
Average price realised	A\$/oz	1,441	1,541	1,541
Gold revenue	A\$M	101.9	20.8	20.8
<b>Cost Summary</b>				
Mining	A\$/oz	707	688	688
Processing	A\$/oz	321	215	215
Site Support	A\$/oz	95	66	66
C1 Site Cash Cost	A\$/oz	1,123	970	970
Royalties	A\$/oz	40	48	48
Sustaining capital	A\$/oz	25	26	26
Rehabilitation	A\$/oz	20	14	14
Corporate	A\$/oz	40	30	30
<b>AISC<sup>1</sup></b>	<b>A\$/oz</b>	<b>1,249</b>	<b>1,088</b>	<b>1,088</b>
<b>Stockpiles</b>				
Ore for immediate milling	Tonnes	468,032	526,849	526,849
Bullion on hand	Ounces	3,169	4,863	4,863

- 1 AISC = All In Sustaining Cost comprises all site operating costs, royalties, mine exploration, sustaining capex and mine development and an allocation of corporate costs, presented on the basis of ounces produced.



Reconciled mill production data continues to show a positive reconciliation with respect to all mineral resource classes. The table below summarises reconciliation data against the resources models for LOM.

TOMINGLEY GOLD PROJECT MINE RECONCILIATION				
	Period	Predicted Tonnes	Grade (g/t)	Contained Ounces
<b>Caloma</b>	<b>LOM</b>	<b>107%</b>	<b>94%</b>	<b>101%</b>
<b>Wyoming Three</b>	<b>LOM</b>	<b>121%</b>	<b>117%</b>	<b>141%</b>

The Reconciliation of Proved and Probable Ore Reserves and the material mined and processed to date has exceeded the Ore Reserve in both grade and ore tonnes. The reconciliation has also been exceeded when the inferred material within the ore zones has been added to the Ore Reserve figures. This exceedance has been based on recovered gold and as such negates any effect on ore tonnes by possible mining dilution.

As at 31 August, gold hedged is 22,000oz at average price of A\$1,592/oz

FY2016 production is estimated to be 60,000 – 70,000 ounces within an AISC range of A\$1,200 -1,300/oz. The costs are higher than the anticipated long term life-of-mine AISC of A\$1,000 – 1,100/oz due to waste stripping in FY16 at the Wyoming One pit.

### **Mineral Resource and Ore Reserve Estimates as at 30 June 2015**

The Company reports Ore Reserves and Mineral Resources for the Tomingley Gold Operations as at 30 June 2015 in accordance with the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC 2012).

These estimates take into account ore depleted by mining during the 2015 financial year and are set out in the tables below.

### **Mineral Resources**

TOMINGLEY GOLD PROJECT MINERAL RESOURCES (as at 30 June 2015)									
DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Open Pittable Resources (cut off 0.50g/t Au)									
Wyoming One	2,171	1.7	442	1.5	735	1.1	3,348	1.5	167
Wyoming Three	206	1.7	122	1.7	2	1.1	330	1.7	18
Caloma	2,163	1.8	582	1.7	2,008	1.5	4,753	1.7	254
Caloma Two	-	-	1,085	2.4	704	1.3	1,789	2.0	112
<b>Sub Total</b>	<b>4,540</b>	<b>1.8</b>	<b>2,231</b>	<b>2.0</b>	<b>3,450</b>	<b>1.4</b>	<b>10,220</b>	<b>1.7</b>	<b>551</b>
Underground Resources (cut off 2.50g/t Au)									
Wyoming One	168	4.8	205	4.4	361	4.2	735	4.4	104
Wyoming Three	12	3.6	20	4.5	25	3.3	57	3.8	7
Caloma	0	3.1	4	2.9	81	3.2	84	3.2	9
Caloma Two	-	-	92	3.5	63	3.2	155	3.3	17
<b>Sub Total</b>	<b>180</b>	<b>4.7</b>	<b>321</b>	<b>4.1</b>	<b>530</b>	<b>3.9</b>	<b>1,031</b>	<b>4.1</b>	<b>136</b>
<b>TOTAL</b>	<b>4,720</b>	<b>1.9</b>	<b>2,552</b>	<b>2.3</b>	<b>3,979</b>	<b>1.7</b>	<b>11,251</b>	<b>1.9</b>	<b>687</b>

\*apparent arithmetic inconsistencies are due to rounding

These Mineral Resources are wholly inclusive of Ore Reserves.

Full details are given in Appendix 1 (Table1, Sections 1-3; JORC 2012).



## Ore Reserves

TOMINGLEY GOLD PROJECT ORE RESERVES(as at 30 June 2015)							
DEPOSIT	PROVED		PROBABLE		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Wyoming One	1,665	1.6	202	1.3	1,867	1.5	94
Wyoming Three	173	1.6	5	1.4	178	1.5	9
Caloma	1,247	1.9	72	1.5	1,319	1.8	80
Caloma Cut Back	222	1.5	66	1.4	288	1.4	14
Caloma Two	-	-	243	3.5	243	3.5	27
							-
Stockpiles	468	0.8	-	-	468	0.8	12
<b>TOTAL</b>	<b>3,775</b>	<b>1.6</b>	<b>588</b>	<b>2.2</b>	<b>4,363</b>	<b>1.6</b>	<b>235</b>

\*apparent arithmetic inconsistencies are due to rounding

Full details are given in Appendix 2 (Table1, Section 4; JORC 2012).

The table below compares the resources and reserves year on year with 2014 as per the current reporting requirements.

### Comparison of 2014 / 2015 Mineral Resources and Ore Reserves

DEPOSIT	TOTAL RESOURCES						TOTAL RESERVES					
	2014			2015			2014			2015		
	Tonnage (Kt)	Grade (g/t Au)	Gold (koz)	Tonnage (Kt)	Grade (g/t Au)	Gold (koz)	Tonnage (Kt)	Grade (g/t Au)	Gold (koz)	Tonnage (Kt)	Grade (g/t Au)	Gold (koz)
Wyoming One	4,742	2.1	314	4,083	2.1	271	1,864	1.6	98	1,867	1.5	94
Wyoming Three	649	1.7	36	387	2.0	24	389	1.7	21	178	1.5	9
Caloma	5,909	1.8	336	4,837	1.7	263	1,928	2.2	136	1,319	1.8	80
Caloma Cut Back										288	1.4	14
Caloma Two	2,169	2.1	144	1,944	2.1	129	239	3.6	27	243	3.5	27
Stockpiles							186	1.9	12	468	0.8	12
<b>TOTAL</b>	<b>13,468</b>	<b>1.9</b>	<b>830</b>	<b>11,251</b>	<b>1.9</b>	<b>687</b>	<b>4,606</b>	<b>2.0</b>	<b>295</b>	<b>4,363</b>	<b>1.6</b>	<b>235</b>

\*apparent arithmetic inconsistencies are due to rounding

The primary differences from 2014 to 2015 are:

- Ore mined from Caloma and Wyoming Three in 2014-2015 period totals 1,386,291 tonnes grading 1.66 g/t Au (73.8koz);
- Increased cut-off grade for potential underground resources (moved from 1.75g/t to 2.5g/t);
- Caloma resource & reserve includes grade control model between 205m and 185m RLs;
- Caloma reserve based on new pit design, including the Caloma Cut-Back; and
- Wyoming Three resources and reserves based on grade control model to base of V7 pit design.





**TGO Site layout June 2015**

### **Competent Person**

The information in this report that relates to the Mineral Resource estimates is based on, and fairly represents, information which has been compiled by Mr Terry Ransted, who is a Member of the Australasian Institute of Mining and Metallurgy and an employee of Alkane Resources Ltd. Mr Ransted has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Ransted consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

The information in this report that relates to the Ore Reserve estimate is based on, and fairly represents, information which has been compiled by Mr John Millbank (Proactive Mining Solutions), an independent consultant, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Millbank has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Millbank consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.



### Disclaimer

This report may contain certain forward looking statements and forecasts, including possible or assume, production levels and rates, costs, prices, future performance or potential growth of Alkane Resources Ltd, industry growth or other trend projections. Such statements are not a guarantee of future performance and involve unknown risks and uncertainties, as well as other factors which are beyond the control of Alkane Resources Ltd. Actual results and developments may differ materially from those expressed or implied by these forward looking statements depending on a variety of factors. Nothing in this report should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities.

This document has been prepared in accordance with the requirements of Australian securities laws, which may differ from the requirements of United States and other country securities laws. Unless otherwise indicated, all ore reserve and mineral resource estimates included or incorporated by reference in this document have been, and will be, prepared in accordance with the JORC classification system of the Australasian Institute of Mining, and Metallurgy and Australian Institute of Geosciences.

### ABOUT ALKANE - [www.alkane.com.au](http://www.alkane.com.au) - ASX: ALK and OTCQX: ANLKY

Alkane is a multi-commodity company focused in the Central West region of NSW, Australia. Currently Alkane has two advanced projects - the Tomingley Gold Operations (TGO) and the nearby Dubbo Zirconia Project (DZP). Tomingley commenced production early 2014. Cash flow from the TGO will provide the funding to maintain the project development pipeline and will assist with the pre-construction development of the DZP.

The DZP Environmental Impact Statement has been completed and development consent granted by the Planning Assessment Commission. Financing is in progress and this project will make Alkane a strategic and significant world producer of zirconium products, hafnium and heavy rare earths when it commences production in 2018.

Alkane's most advanced gold copper exploration projects are at the 100% Alkane owned Wellington and Bodangora prospects, and Elsienera farm-in. Wellington has a small copper-gold deposit which can be expanded, while at Bodangora a large 12km<sup>2</sup> monzonite intrusive complex has been identified with porphyry style gold copper mineralisation. Encouraging gold mineralisation was recently drilled at Elsienera.



## APPENDIX 1

### JORC Code, 2012 Edition – Table 1 report – Wyoming One

#### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<p>The Wyoming One area has been evaluated using air core (AC), reverse circulation (RC) and diamond drilling (DD) techniques between May 2001 and December 2005 although not all of this drilling lies within the current resource outline.</p> <p style="padding-left: 40px;">AC - 118 holes for 9322m – inclusive of 3 pre-collars totaling 294.2m            RC - 157 holes for 27,108.9m – inclusive of 29 pre-collars totaling 4552.9m            DD - 35 holes totaling 7,951.6m</p> <p>AC samples were collected in large plastic bags at one metre intervals via a cyclone            RC samples were collected at one metre intervals via a cyclone.            DD sample intervals were defined by geologist during logging to honour geological boundaries.</p>
	<ul style="list-style-type: none"> <li><i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i></li> </ul>	<p>AC and RC drilling completed to industry standards.</p> <p>Core was laid out in suitably labelled core trays. A core marker (core block) was placed at the end of each drilled run (nominally 3 or 6m) and labelled with the hole number, down hole depth, length of drill run. Core was aligned and measured by tape, comparing back to this down hole depth consistent with industry standards.</p>
	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<p>AC drilling samples collected at 1m intervals via a cyclone into large plastic bags.            RC Drilling – the entire RC sample was collected at 1m intervals and delivered into a large plastic bag via a cyclone.            DD Drilling – sample intervals were defined by geologists during logging to honour geological boundaries and cut in half with a saw.</p> <p>All samples sent to the laboratory were crushed and/or pulverised to produce a ~100g pulp for assay process.</p> <p>All 1m RC &amp; AC samples and core samples were fire assayed using a 50g charge and all RC and AC composite samples fire assayed using a 30g charge.</p> <p>Visible gold was occasionally observed in both core and AC/RC samples</p>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <li><i>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).</i></li> </ul>	<p>Initial reconnaissance drilling was completed to fresh rock using 75mm or 100mm air core with follow-up and deeper drilling completed by RC (usually 126 - 140mm diameter). Detailed resource definition drilling was completed primarily by RC techniques using a 130mm or 140mm diameter face sampling hammer. DD holes were pre-collared using either RC techniques or un-oriented PQ3 (83mm diameter) core drilling. Pre-collars were completed to competent material, with holes cased off and completed to depth using HQ3 (61mm diameter) core. HQ3 core was oriented using the 'BallMark', 'EzyMark' or 'Ace' (Reflex Act) core orientation tool depending upon the contractor.</p> <p>Within the resource area drilling was comprised of:</p> <p style="padding-left: 40px;">66% RC - 152 holes totaling 26,440.9 m (inclusive of 29 pre-collars totaling 4552.9m)            20% DD - 34 holes totaling 7819.8m            14% AC – 66 holes totaling 5,794.4m</p>



Criteria	JORC Code explanation	Commentary
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>	<p>AC and RC - sample recovery was visually estimated and was generally very good (&gt;90%) aided by the use of oversized shrouds through oxide material. Samples were even in size. Samples were rarely damp or wet. Sample quality was assessed by the sampler by visual approximation of sample recovery and if the sample was dry, damp or wet. A riffle splitter were used to ensure a representative sample was achieved for 1 metre samples.</p> <p>DD - core loss was identified by drillers and calculated by geologists when logging. Generally <math>\geq 95\%</math> was recovered and any loss was usually in portions of the oxide zone. Triple tube Large diameter, triple tube core (PQ3) was used through the oxide material to ensure the greatest recovery.</p>
	<ul style="list-style-type: none"> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<p>RC drilling was completed using oversized shrouds to maintain sample return in oxide zone and all samples were split using riffle or cone splitters. Use of RC rigs with high air capacity assists in keeping samples dry.</p> <p>Triple tube coring was used at all times to maximise core recovery with larger diameter (PQ3) core used in the oxide and saprolite zones.</p>
	<ul style="list-style-type: none"> <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>	<p>There is no known relationship between sample recovery and grade.</p>
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 metallurgical studies.</li> </ul>	<p>AC &amp; RC - each one metre interval was geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage).</p> <p>DD - all core was laid out in core trays and geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage). A brief geotechnical log was also undertaken collecting parameters such as core recovery, RQD, fracture count, and fracture type and orientation.</p>
	<ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	<p>All logging was qualitative with visual estimates of the various characteristics. Magnetic susceptibility data is quantitative.</p> <p>AC &amp; RC - A representative sample of each one metre interval is retained in chip trays for future reference.</p> <p>DD - Core was photographed and all unsampled core is retained for reference purposes.</p>
	<ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<p>All DD core and AC/RC chip samples have been geologically and geotechnically logged by qualified geologists.</p>
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> </ul>	<p>DD - zones of visual mineralisation and/or alteration were marked up by the geologist and cut in half using an Almonté (or equivalent) core cutting saw. Samples submitted for analysis were collected from the same side in all cases to prevent bias. Sampling intervals were generally based on geology, were predominantly over 1m intervals but do not exceed 1.2 metres in length. All mineralised zones were sampled, plus <math>\geq 2m</math> of visibly barren wall rock.</p> <p>Laboratory Preparation – drill core was oven dried prior to crushing to &lt;6mm using a jaw crusher, split to 3kg if required then pulverised in an LM5 (or equivalent) to <math>\geq 85\%</math> passing 75<math>\mu m</math>. Bulk rejects for all samples were discarded. A pulp packet (<math>\pm 100g</math>) is stored for future reference</p>
	<ul style="list-style-type: none"> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	<p>AC/RC – samples were collected at 1m intervals via a cyclone into large plastic bags. Spear samples were collected from each 1m sample and composited to 3m for initial analysis. Individual 1m samples from all composites assaying <math>\geq 0.2g/t</math> Au were riffle split and</p>



Criteria	JORC Code explanation	Commentary
		resubmitted for analysis. Rare damp or wet samples were recorded by the sampler. Laboratory Preparation – the entire RC sample (3kg) was dried and pulverised in an LM5 (or equivalent) to ≥85% passing 75µm. Bulk rejects for all samples were discarded. A pulp packet (±100g) is stored for future reference.
	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	Alkane (ALK) sampling techniques are of industry standard and considered adequate.
	<ul style="list-style-type: none"> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	AC – field duplicate samples were not regularly submitted for reconnaissance AC drilling RC – field duplicate samples collected at every stage of sampling to control procedures. DD – external laboratory duplicates used.
	<ul style="list-style-type: none"> <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>	RC - Duplicate samples were riffle split from bulk sample. Duplicates show generally excellent repeatability, indicating a negligible “nugget” effect.
	<ul style="list-style-type: none"> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	Sample sizes are industry standard and considered appropriate.
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> </ul>	For all 1m samples used in the resource estimate gold was determined using a 50g charge fused at approximately 1100°C with alkaline fluxes, including lead oxide. The resultant prill was dissolved in aqua regia and gold determined by flame AAS. For 3m composite samples gold was determined using a 30g charge (more rarely 50g charge). For other geochemical elements, samples were digested in aqua regia with each element concentration determined by ICP Atomic Emission Spectrometry or ICP Mass Spectrometry. These additional elements were generally only used for geological interpretation purposes, are not of economic significance and are not routinely reported.
	<ul style="list-style-type: none"> <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>	Not applicable to this report or deposit.
	<ul style="list-style-type: none"> <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>	Commercially prepared Certified Reference Materials (CRM) and blanks were inserted at 1 in 50 samples. CRM's were not identifiable to the laboratory. Field duplicate samples were inserted at 1 in 50 samples (alternate to CRM's) for RC drilling programs. Laboratory QAQC sampling includes insertion of CRM samples, internal duplicates and screen tests. This data was reported for each sample submission. Failed standards result in re-assaying of portions of the affected sample batches.
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> </ul>	Drill data was compiled and collated, and reviewed by senior staff. External consultants do not routinely verify exploration data until resource estimation procedures are deemed necessary.
	<ul style="list-style-type: none"> <li>The use of twinned holes.</li> </ul>	Twinned holes have not been used at Wyoming One as twinning provides verification only for extremely limited areas of a deposit.
	<ul style="list-style-type: none"> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> </ul>	All drill hole logging and sampling data was hard keyed into Excel spreadsheet for transfer and storage in an access database with verification protocols in place.

Criteria	JORC Code explanation	Commentary
		<p>All primary assay data was received from the laboratory as electronic data files which were imported into sampling database with verification procedures in place. QAQC analysis was undertaken for each laboratory report.</p> <p>Digital copies of Certificates of Analysis (COA) are stored in a central database with regular (daily) backup. Original survey data is stored on site.</p> <p>Data was also verified on import into mining related software.</p>
	<ul style="list-style-type: none"> <li>Discuss any adjustment to assay data.</li> </ul>	No assay data was adjusted.
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> </ul>	<p>Drill holes were laid out using hand held GPS (accuracy <math>\pm 2m</math>) then surveyed accurately (<math>\pm 0.1m</math>) by licensed surveyors on completion.</p> <p>RC &amp; AC drill holes were surveyed using a single shot electronic camera at a nominal 30m down hole intervals.</p> <p>DD holes were surveyed at nominal 30m down hole during drilling to maintain drilling direction and then at 6m intervals on retrieval of rod string using a multi shot electronic camera.</p>
	<ul style="list-style-type: none"> <li>Specification of the grid system used.</li> </ul>	All drill holes were originally laid out in AMG66 grid however since mining commenced in February 2014 have been transformed to MGA94 grid system to conform with reporting requirements for mine operations.
	<ul style="list-style-type: none"> <li>Quality and adequacy of topographic control.</li> </ul>	The area is very flat. A site based digital terrain model was developed from accurate ( $\pm 0.1m$ ) survey control by licenced surveyors.
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> </ul>	<p>The majority of drilling at Wyoming One was completed along east-west lines spaced 25m apart however once the east-west lode orientation was confirmed for the '376' zone this portion of the deposit was assessed by south drilled holes was completed along north-south sections spaced 25m apart. Hole were drilled at a nominal 20m interval along sections. Both east-west and north-south drill holes have been used in the resource calculation.</p> <p>The drill hole spacing is similar to that used at other Tomingley deposits and has been established to be sufficient.</p>
	<ul style="list-style-type: none"> <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> </ul>	The drill hole spacing has been shown to be appropriate by the visible continuity of mineralisation between drill holes.
	<ul style="list-style-type: none"> <li>Whether sample compositing has been applied.</li> </ul>	<p>Sample compositing was not applied until resource estimation stage.</p> <p>RC &amp; AC – samples were composited to 3m with 1m resamples assayed if the composite returned a gold value of <math>&gt;0.2g/t</math> gold. One metre samples override 3m composites in the database.</p> <p>DD – core was sampled to geology.</p>
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> </ul>	Much care was given to attempt to intersect mineralisation at an optimal angle but in complex ore bodies this can be difficult. As noted above, drilling at Wyoming One was completed along both east-west and north-south lines, depending upon which portion of the deposit was being assessed.
	<ul style="list-style-type: none"> <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>	It is not thought that drilling direction will bias assay data at Wyoming One however east-west drilling will not provide optimum intersection of the '376' lode structures.

Criteria	JORC Code explanation	Commentary
Sample security	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>	<p>All samples were bagged in tied numbered calico bags, grouped into larger tied polyweave bags and transported to the laboratory in Orange by Alkane personnel or courier. Sample submission sheets were delivered with the samples and also emailed to the laboratory. All sample submissions were documented via ALS tracking system and all assays were reported via email.</p> <p>Sample pulps were returned to site and were stored for an appropriate length of time (minimum 3 years).</p> <p>The Company has in place protocols to ensure data security.</p>
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<p>The Company does not routinely have external consultants verify exploration data until resource estimation procedures are deemed necessary.</p> <p>The Wyoming data was reviewed in 2010 and 2011 by Behre Dolbear (BDA) as part of the due diligence phase of the development of the project. BDA did not express any specific concerns with respect to the data other than to recommend the completion of some round robin assaying and completion of additional density determinations, both of which were undertaken for the Caloma Two resource drilling.</p>

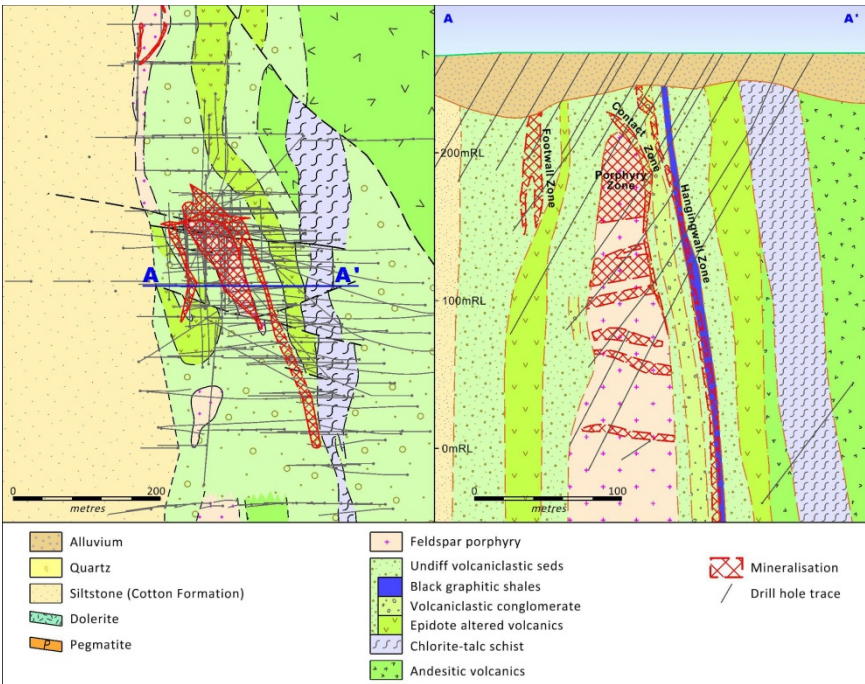
## Section 2 Reporting of Exploration Results

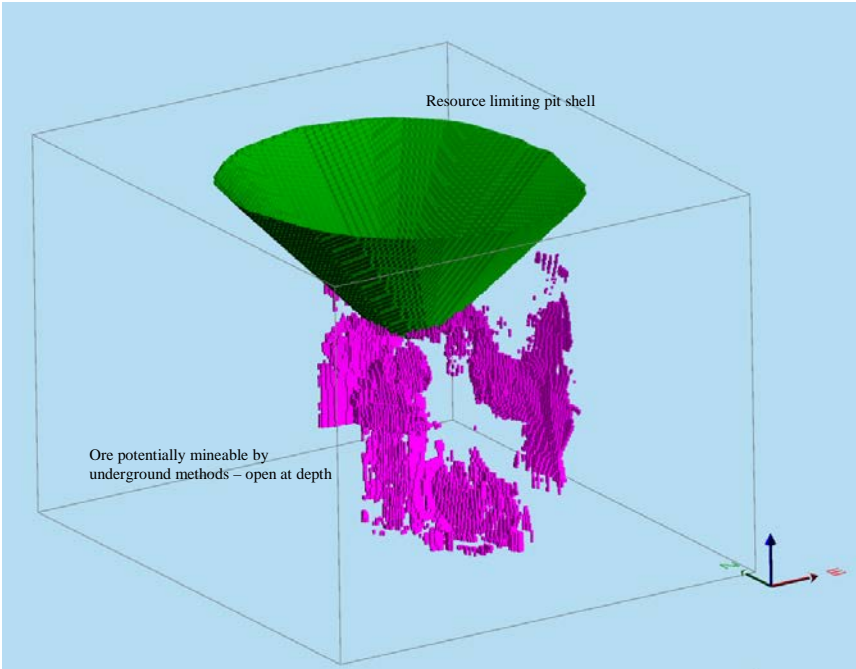
(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	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> </ul>	The Wyoming One deposit lies within ML 1684 which is held in the name of Tomingley Gold Operations Pty Ltd, a wholly owned subsidiary of Alkane Resources Ltd.
	<ul style="list-style-type: none"> <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>	ML1684 expires on 11 February 2034.
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	All reported drilling has been completed by ALK.
Geology	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<p>Geological nature of the Tomingley Deposits is well documented elsewhere.</p> <p>Mineralisation is associated with quartz veining and alteration focused within sub-volcanic basaltic-andesite sills and adjacent volcanoclastic sediments. The deposits appear to have formed as the result of a rheological contrast between the porphyritic sub-volcanic sills and the surrounding volcanoclastic sediments, with the sills showing brittle fracture and the sediments ductile deformation, and have many similarities to well documented orogenic - lode-style gold deposits.</p> <p>Mineralisation at Wyoming One is developed within a number of different zones:</p> <p><i>porphyry</i> – mineralisation hosted by a quartz stockwork within the carapace of a sub-volcanic sill with dimensions roughly 60m x 150m. High grade mineralisation is developed along the eastern contact of the zone ('contact' zone);</p> <p><i>hangingwall</i> – a linear zone of mineralisation situated approximately 30m to hangingwall of the 'porphyry' mineralisation and hosted within silicified and</p>

Criteria	JORC Code explanation	Commentary
		<p>brecciated carbonaceous mudstone. This zone is interpreted to fold around the northern end of the porphyry (<i>northern</i> zone);</p> <p>'376' – east west zone of high grade mineralisation developed at the northern contact of the porphyry. Interpreted to be a bounding structure and primary fluid conduit. Other high grade east-west structures e.g. '831' appear to be developed en-echelon and to the south of the '376' zone;</p> <p><i>footwall</i> – a low grade zone located in a similar stratigraphic position to the hangingwall zone but footwall to the porphyry</p>
<p><i>Drill hole Information</i></p>	<ul style="list-style-type: none"> <li>• <i>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:</i> <ul style="list-style-type: none"> <li>○ <i>easting and northing of the drill hole collar</i></li> <li>○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li>○ <i>dip and azimuth of the hole</i></li> <li>○ <i>down hole length and interception depth</i></li> <li>○ <i>hole length.</i></li> </ul> </li> </ul>	<p>Too numerous and not practical to summarise all drill hole data used. All drilling results have been reported previously</p>
	<ul style="list-style-type: none"> <li>• <i>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.</i></li> </ul>	<p>Exclusion of drill hole data will not detract from the understanding of this report. All drill data has been previously reported, holes are close spaced and in an operating mine area.</p>
<p><i>Data aggregation methods</i></p>	<ul style="list-style-type: none"> <li>• <i>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.</i></li> </ul>	<p>Previously reported results have been –</p> <p>For uncut gold grades; Intercepts were defined (bounded) by 0.5g/t gold outer limit and may contain some internal waste; Only intervals grading <math>\geq 1</math> g/t gold were reported; Grades were calculated by length weighted average.</p>
	<ul style="list-style-type: none"> <li>• <i>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.</i></li> </ul>	<p>Exploration results have been previously reported as length weighted average grades with internal high grade intercepts reported separately.</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>	<p>No metal equivalents are reported.</p>
<p><i>Relationship between mineralisation widths and intercept lengths</i></p>	<ul style="list-style-type: none"> <li>• <i>These relationships are particularly important in the reporting of Exploration Results.</i> <ul style="list-style-type: none"> <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 (eg 'down hole length, true width not known').</i></li> </ul> </li> </ul>	<p>Previously reported exploration results include the drilled width and an estimate of true width.</p>



Criteria	JORC Code explanation	Commentary
<p><i>Diagrams</i></p>	<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>	<p>Cross sections and a plan showing geology with drill collars were included with previously reported exploration results. A typical plan and cross section are included below.</p>  <p>The diagrams consist of a plan view on the left and a cross-section labeled A-A' on the right. The plan view shows a network of drill holes (black lines) and mineralisation zones (red hatched areas) over a geological map. The cross-section shows the vertical profile of the site, with elevation markers at 0mRL, 100mRL, and 200mRL. Key geological features labeled include the Federal Zone, Porphyry Zone, and Hangingwall Zone. A legend below the diagrams identifies various rock types and features: Alluvium (orange), Quartz (yellow), Siltstone (Cotton Formation) (light yellow), Dolerite (green), Pegmatite (orange with black dots), Feldspar porphyry (pink with black dots), Undiff volcaniclastic sed (light green), Black graphitic shales (dark blue), Volcaniclastic conglomerate (green with black dots), Epidote altered volcanics (light green with black dots), Chlorite-talc schist (light blue with black dots), Andesitic volcanics (green), Mineralisation (red hatched), and Drill hole trace (black line).</p>
<p><i>Balanced reporting</i></p>	<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>	<p>Data relating to all drill holes has been reported in previous documentation of exploration results.</p>
<p><i>Other substantive exploration data</i></p>	<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 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.</li> </ul>	<p>No additional or new drilling results are being reported at this time.</p>
<p><i>Further work</i></p>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> </ul>	<p>An open pit has been designed for the Wyoming One deposit and mining is scheduled to commence in 2015.</p>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <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>	<p>An assessment of mining the higher grade portions of the 'hangingwall', '376' and '831' zones by underground methods was completed as part of the feasibility study and ore from this has been included in the long term mining schedule.</p> <p>The upper portions of the Wyoming One deposit is well constrained by drilling however the high grade structures remain open at depth.</p> 

### Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
<p>Database integrity</p>	<ul style="list-style-type: none"> <li>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</li> <li>Data validation procedures used.</li> </ul>	<p>Logging data was entered into Excel via drop down menus. All raw data was loaded directly to the Access database from the assay, logging and survey derived files.</p> <p>There are validation checks to avoid duplications of data.</p> <p>The data were further validated for consistency when loaded into Datamine and desurveyed.</p> <p>An extensive check on the consistency and adequacy of down-hole survey data was carried out in 2009.</p>

Criteria	JORC Code explanation	Commentary
Site visits	<ul style="list-style-type: none"> <li>Comment on any site visits undertaken by the Competent Person and the outcome of those visits. (If no site visits have been undertaken indicate why this is the case.)</li> </ul>	<p>No site visit was undertaken by Mr Lewis prior to the initial resource estimations as the deposit is covered by a sequence of alluvial material and there is nothing to see at surface. Mr Lewis did visit the site on 25 July 2014 when he was able to view mineralisation in the open pit, view mineralisation and alteration in drill core and assess the drill sampling and QAQC techniques.</p> <p>The quoted resources were compiled by Mr Terry Ransted, Chief Geologist, Alkane Resources Ltd, who has been involved with the project since 2001.</p>
Geological interpretation	<ul style="list-style-type: none"> <li>Confidence in (or conversely, the uncertainty of ) the geological interpretation of the mineral deposit.</li> </ul>	The geological model was built on structural data from core and lithological logging. The domain wireframes were built by the Alkane geologists most familiar with the deposit.
	<ul style="list-style-type: none"> <li>Nature of the data used and of any assumptions made.</li> </ul>	Structural measurements from oriented drill core were used to assist in the geological interpretation along with lithological, alteration and mineralisation logging of RC chips and drill core
	<ul style="list-style-type: none"> <li>The effect, if any, of alternative interpretations on Mineral Resource estimation.</li> </ul>	The Wyoming One deposit was been drilled at a close-spacing in several different drilling campaigns and in several different drilling directions, reducing the likelihood that the geological interpretation will change significantly.
	<ul style="list-style-type: none"> <li>The use of geology in guiding and controlling Mineral Resource estimation.</li> </ul>	<p>Geological (lithological) logging was used to develop a geological model. Alteration and mineralisation estimates along with grade guided the interpretation of the ore envelope wireframes at a nominal 0.25g/t Au lower cut-off..</p> <p>Gold mineralisation at Wyoming One has a close spatial relationship to feldspar porphyry which intrudes into andesitic volcanoclastic rocks near their western contact with a more pelitic sequence. Mineralisation is associated with extensive alteration and quartz veining of the porphyry and volcanic rocks.</p>
	<ul style="list-style-type: none"> <li>The factors affecting continuity both of grade and geology.</li> </ul>	Mineralisation is directly associated with alteration and quartz veining.
Dimensions	<ul style="list-style-type: none"> <li>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</li> </ul>	The mineralisation occurs in several zones within a NNW-striking corridor 300m long and 220m wide. Mineralisation extends from about 25m below the surface for more than 400m vertical depth.
Estimation and modelling techniques	<ul style="list-style-type: none"> <li>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</li> </ul>	<p>Eight mineralisation wireframes (domains) were interpreted by the Alkane geologists most familiar with the deposit to constrain the estimation. An enclosing background domain was modelled by Lewis Mineral Resource Consulting Pty Ltd (LMRC) to capture minor mineralization outside the main domains. Four surfaces were also used to separate material types - topography, alluvium, saprolite and base of oxidation surfaces. The material type classification was used to allocate density values.</p> <p>The drill hole data were flagged by the domain wireframes in priority order, to prevent double use the data in the intersecting zones. The samples immediately outside the mineralised zones were re-flagged, if they contained more than 1.0 g/t gold, in order to capture mineralized samples that would otherwise not be used for estimation. This re-flagging is also useful for the fixed-length RC and AC samples. It also captures samples lost because the wire-framing was carried out in a different mining software package.</p> <p>The samples were composited to 1m, the most common sample length and flagged by the topography, alluvium, saprolite and base of oxidation surfaces. Top-cuts were selected for each domain based on histograms, probability plots and cutting statistic plots. The top-cuts ranged from 7g/t gold to 45.0 g/t gold. After top-cutting, the maximum coefficient of variation for the mineralized domains ranged from 0.84 to 2.25 indicating that the estimation would not be difficult.</p>

Criteria	JORC Code explanation	Commentary
		<p>The number of drill hole composites in all but one of the domains was less than 600, too few for reliable variography. The one domain with more data (the porphyry domain) had a variety of continuity directions, again making variography uncertain. For this reason, estimation was made by inverse distance squared (ID2). A kriged estimate was made using a nominal variogram to provide a measure of the availability of drill hole data during estimation.</p> <p>A check estimate was made using the Nearest Neighbour method.</p> <p>Datamine Studio 3 was used for estimation. The orientation of the search ellipse for each domain was controlled by a Dynamic Anisotropy model that provided a unique dip and dip-azimuth for each block.</p>
	<ul style="list-style-type: none"> <li><i>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</i></li> </ul>	<p>The estimates were compared to those of a previous estimate made by Alkane. The grade of the new estimate was slightly higher; tonnes were also higher because an additional domain was estimated.</p> <p>There has not yet been any production from Wyoming One</p>
	<ul style="list-style-type: none"> <li><i>The assumptions made regarding recovery of by-products.</i></li> </ul>	<p>No assumptions made - Estimates were made for gold, arsenic and copper; only gold is of economic significance.</p>
	<ul style="list-style-type: none"> <li><i>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</i></li> </ul>	<p>No deleterious elements identified for estimation</p>
	<ul style="list-style-type: none"> <li><i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i></li> </ul>	<p>The primary block size was small (2.5m x 2.5m x 5m) because of the narrow dipping nature of the mineralized zones. Due to the two directions of drilling, the drillhole spacing is locally much less than 25m. Sub-blocks were estimated. This model was regularized to 2.5m x 2.5m x 2.5m for new reporting as this is more compatible with the mine planning software currently in use at the mine and the mining methodology.</p> <p>The drill hole spacing was 20-25m with both WE and NS holes drilled. The primary search used (50m x 50m in the long directions and 5m or 10m in the short direction) reflects the continuity on the mineralization as seen in section and plan. .</p> <p>Any blocks not estimated in the primary search were re-estimated using a secondary search twice the size of the primary search.</p>
	<ul style="list-style-type: none"> <li><i>Any assumptions behind modelling of selective mining units.</i></li> </ul>	<p>No assumptions were made.</p>
	<ul style="list-style-type: none"> <li><i>Any assumptions about correlation between variables.</i></li> </ul>	<p>No assumptions made</p>
	<ul style="list-style-type: none"> <li><i>Description of how the geological interpretation was used to control the resource estimates.</i></li> </ul>	<p>Only data from the same domain were used to make estimates.</p>
	<ul style="list-style-type: none"> <li><i>Discussion of basis for using or not using grade cutting or capping.</i></li> </ul>	<p>The drill hole data were declustered using the polygonal method for statistical analysis and determination of top-cuts.</p> <p>The top-cuts were selected using a combination of histograms, probability plots and cutting statistic plots (plots of cut-off grade against Coefficient of Variation (CV) and total metal). While the principal estimate was made using top-cuts, a check estimate was made without top-cutting.</p>
	<ul style="list-style-type: none"> <li><i>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</i></li> </ul>	<p>Estimates were made using Inverse Distance Squared (ID2) and checked using the Nearest Neighbour method. Estimates were also compared to a previous Alkane block model.</p>



Criteria	JORC Code explanation	Commentary
		The estimates were verified using several different techniques and checked for local variability by comparing the estimated block grades with the average of the top-cut composites in each block.
Moisture	<ul style="list-style-type: none"> <li>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</li> </ul>	The tonnages were estimated on a dry tonnage basis.
Cut-off parameters	<ul style="list-style-type: none"> <li>The basis of the adopted cut-off grade(s) or quality parameters applied.</li> </ul>	The cut-off grade (0.50 g/t Gold) for open pit resources is relevant for the current mining operation for similar material in the adjacent deposits.
Mining factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</li> </ul>	The main part of the Wyoming One deposit is likely to be mined by open pit methods. Some dilution was added when the estimated sub-block model was regularized; this reduced the gold grade above 0.50 g/t cut-off by 5%. More dilution may need to be added as part of the mining reserve process.
Metallurgical factors or assumptions	<ul style="list-style-type: none"> <li>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</li> </ul>	The metallurgy of the Tomingley deposits is well studied.
Environmental factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.</li> </ul>	Project approval for the TGP was granted in July 2012 for mining from three open pits (Wyoming One, Wyoming Three and Caloma) and underground from Wyoming One deposit. Mining from the Wyoming Three and Caloma open pits commenced in December 2013 with processing of ore in February 2014.
Bulk density	<ul style="list-style-type: none"> <li>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</li> </ul>	Specific gravity measurements were completed by commercial laboratories on DD core samples of the different material types (alluvium, saprolite, totally oxidized and fresh). Oxidation was far more important than variations in lithology or alteration. The specific gravity measurements were applied on a dry basis.
	<ul style="list-style-type: none"> <li>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</li> </ul>	SG measurements completed on all material types – see above.
	<ul style="list-style-type: none"> <li>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>	No assumptions made – SG determined and individual values applied to each material type based on wire-framed surfaces
Classification	<ul style="list-style-type: none"> <li>The basis for the classification of the Mineral Resources into varying confidence categories.</li> </ul>	The resources were classified using kriging variance; this provides a relative measure of the availability of data during estimation. It also takes into account the clustering of the data. The actual break-points for the different resource classes were chosen by inspection of the model in relation to the drilling density. Any blocks outside the main mineralized domains were classified as Inferred.

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</li> </ul>	Wyoming One was estimated using high proportion of Reverse Circulation (RC) drill hole data. Comparisons with Diamond Drill hole data (DD) showed that the RC data were slightly higher in grade than the DD data for this deposit. The most likely reason for this is the presence of some coarse free gold that is better handled by the larger sample size of the RC drilling. The RC drilling was conducted using industry-standard methods and was not affected by high water flows so there is no reason not to accept the RC results.
	<ul style="list-style-type: none"> <li>Whether the result appropriately reflects the Competent Person's view of the deposit.</li> </ul>	The classification reflects the Competent Persons view of the deposit and its supporting data
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of Mineral Resource estimates.</li> </ul>	The Wyoming One resource estimate was reviewed by Behre Dolbear in January 2012. The review raised some questions about the method of resource classification. The classification scheme was justified in a subsequent LMRC memo to Alkane in February 2012. This reviewed the resources classes in relation to the anisotropic distance to the nearest sample. For almost all the Measured Resources, the nearest sample was at less than half the anisotropic search distance of the first estimation pass with a mean of 23% of the search distance. For Indicated Resources, the nearest sample was no more than 87% of the maximum anisotropic search distance with a mean of 46% of the search distance.. All Measured and Indicated Resources were estimated in the first search pass.
Discussion of relative accuracy/confidence	<ul style="list-style-type: none"> <li>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</li> </ul>	<p>The Wyoming One deposit consists of 8 mineralisation zones; consequently there are relatively few drill hole data in most zones. Only one domain (porphyry) has more than 600 drill hole composites. This has limited the accuracy of any fitted variogram models. The use of an approximate variogram model does not greatly affect the accuracy of the kriged grades as kriging is a very robust estimation process. It does, however, limit the accuracy of the variance of the estimates and any confidence limits that might be statistically inferred.</p> <p>No statistical or geostatistical method (non-linear or simulation) was used to quantify the relative accuracy of the estimate within confidence limits. Accuracy of the estimate is strongly dependent on:</p> <ul style="list-style-type: none"> <li>accuracy of the interpretation and geological domaining;</li> <li>accuracy of the drill hole data (location and values);</li> <li>orientation of local anisotropy; and</li> <li>estimation parameters which are reflected in the global resource classification.</li> </ul>
	<ul style="list-style-type: none"> <li>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</li> </ul>	<p>The resources are global, being based on drill hole data at exploration spacing.</p> <p>To ensure the resources have 'reasonable prospects of eventual economic extraction' the resources have been restricted by an indicative optimistic pit shell estimated at a gold price of \$2000 per ounce with the potential open pitable component assessed at <math>\geq 0.5\text{g/t}</math> gold cut off and material outside of the indicative pit with potential for eventual extraction by underground mining methods assessed at <math>\geq 1.75\text{g/t}</math> gold.</p>
	<ul style="list-style-type: none"> <li>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</li> </ul>	There has not been any production from Wyoming One to date.

## JORC Code, 2012 Edition – Table 1 report – Wyoming Three

### Section 1 Sampling Techniques and Data

(Criteria in this section apply 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> </ul>	<p>The Wyoming Three area has been evaluated using air core (AC), reverse circulation (RC) and diamond drilling (DD) techniques between June 2002 and October 2003 although not all of this drilling lies within the current resource outline.</p> <p>AC - 189 holes for 12,855.1m  RC - 86 holes for 12,886.3 m – inclusive of 3 pre-collars totaling 269.3m  DD - 3 holes totaling 398.7m</p> <p>AC samples were collected in large plastic bags at one metre intervals via a cyclone  RC samples were collected at one metre intervals via a cyclone.  DD sample intervals were defined by geologist during logging to honour geological boundaries.</p>
	<ul style="list-style-type: none"> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	<p>AC and RC drilling completed to industry standards.</p> <p>Core was laid out in suitably labelled core trays. A core marker (core block) was placed at the end of each drilled run (nominally 3 or 6m) and labelled with the hole number, down hole depth, length of drill run. Core was aligned and measured by tape, comparing back to this down hole depth consistent with industry standards.</p>
	<ul style="list-style-type: none"> <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>	<p>AC drilling samples collected at 1m intervals via a cyclone into large plastic bags.  RC Drilling – the entire RC sample was collected at 1m intervals and delivered into a large plastic bag via a cyclone.  DD Drilling – sample intervals were defined by geologists during logging to honour geological boundaries and cut in half with a saw.</p> <p>All samples sent to the laboratory were crushed and/or pulverised to produce a ~100g pulp for assay process.</p> <p>All 1m RC &amp; AC samples and core samples were fire assayed using a 50g charge and all RC and AC composite samples fire assayed using a 30g charge.</p> <p>Visible gold was occasionally observed in both core and AC/RC samples</p>
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 (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>	<p>Initial reconnaissance drilling was completed to fresh rock using 75mm or 100mm air core with follow-up and deeper drilling completed by RC (usually 126 - 140mm diameter). Detailed resource definition drilling was completed primarily by RC techniques using a 130mm or 140mm diameter face sampling hammer. DD holes were pre-collared using either RC techniques or un-oriented PQ3 (83mm diameter) core drilling. Pre-collars were completed to competent material, with holes cased off and completed to depth using HQ3 (61mm diameter) core. HQ3 core was oriented using the 'BallMark', 'EzyMark' or 'Ace' (Reflex Act) core orientation tool depending upon the contractor.</p> <p>Within the resource area drilling was comprised of:</p> <p>62% RC - 77 holes totaling 11,874.3 m (inclusive of 3 pre-collars totaling 269.3m)  2% DD - 3 holes totaling 398.7m  36% AC – 107 holes totaling 6,772.6m</p>
	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> </ul>	<p>AC and RC - sample recovery was visually estimated and was generally very good (&gt;90%) aided by the use of oversized shrouds through oxide material. Samples were even in size.</p>

Criteria	JORC Code explanation	Commentary
<i>Drill sample recovery</i>		<p>Samples were rarely damp or wet. Sample quality was assessed by the sampler by visual approximation of sample recovery and if the sample was dry, damp or wet. A riffle splitter were used to ensure a representative sample was achieved for 1 metre samples.</p> <p>DD - core loss was identified by drillers and calculated by geologists when logging. Generally <math>\geq 95\%</math> was recovered and any loss was usually in portions of the oxide zone. Triple tube Large diameter, triple tube core (PQ3) was used through the oxide material to ensure the greatest recovery.</p>
	<ul style="list-style-type: none"> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<p>RC drilling was completed using oversized shrouds to maintain sample return in oxide zone and all samples were split using riffle or cone splitters. Use of RC rigs with high air capacity assists in keeping samples dry.</p> <p>Triple tube coring was used at all times to maximise core recovery with larger diameter (PQ3) core used in the oxide and saprolite zones.</p>
	<ul style="list-style-type: none"> <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>	<p>There is no known relationship between sample recovery and grade.</p>
<i>Logging</i>	<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 metallurgical studies.</li> </ul>	<p>AC &amp; RC - each one metre interval was geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage).</p> <p>DD - all core was laid out in core trays and geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage). A brief geotechnical log was also undertaken collecting parameters such as core recovery, RQD, fracture count, and fracture type and orientation.</p>
	<ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	<p>All logging was qualitative with visual estimates of the various characteristics. Magnetic susceptibility data is quantitative.</p> <p>AC &amp; RC - A representative sample of each one metre interval is retained in chip trays for future reference.</p> <p>DD - Core was photographed and all unsampled core is retained for reference purposes.</p>
	<ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<p>All DD core and AC/RC chip samples have been geologically and geotechnically logged by qualified geologists.</p>
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> </ul>	<p>DD - zones of visual mineralisation and/or alteration were marked up by the geologist and cut in half using an Almonté (or equivalent) core cutting saw. Samples submitted for analysis were collected from the same side in all cases to prevent bias. Sampling intervals were generally based on geology, were predominantly over 1m intervals but do not exceed 1.2 metres in length. All mineralised zones were sampled, plus <math>\geq 2\text{m}</math> of visibly barren wall rock.</p> <p>Laboratory Preparation – drill core was oven dried prior to crushing to <math>&lt; 6\text{mm}</math> using a jaw crusher, split to 3kg if required then pulverised in an LM5 (or equivalent) to <math>\geq 85\%</math> passing <math>75\mu\text{m}</math>. Bulk rejects for all samples were discarded. A pulp packet (<math>\pm 100\text{g}</math>) is stored for future reference</p>
	<ul style="list-style-type: none"> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	<p>AC/RC – samples were collected at 1m intervals via a cyclone into large plastic bags. Spear samples were collected from each 1m sample and composited to 3m for initial analysis. Individual 1m samples from all composites assaying <math>\geq 0.2\text{g/t Au}</math> were riffle split and resubmitted for analysis.</p>



Criteria	JORC Code explanation	Commentary
		Rare damp or wet samples were recorded by the sampler. Laboratory Preparation – the entire RC sample (3kg) was dried and pulverised in an LM5 (or equivalent) to ≥85% passing 75µm. Bulk rejects for all samples were discarded. A pulp packet (±100g) is stored for future reference.
	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	Alkane (ALK) sampling techniques are of industry standard and considered adequate.
	<ul style="list-style-type: none"> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	AC – field duplicate samples were not regularly submitted for reconnaissance AC drilling RC – field duplicate samples collected at every stage of sampling to control procedures. DD – external laboratory duplicates used.
	<ul style="list-style-type: none"> <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>	RC - Duplicate samples were riffle split from bulk sample. Duplicates show generally excellent repeatability, indicating a negligible “nugget” effect.
	<ul style="list-style-type: none"> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	Sample sizes are industry standard and considered appropriate.
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> </ul>	For all 1m samples used in the resource estimate gold was determined using a 50g charge fused at approximately 1100°C with alkaline fluxes, including lead oxide. The resultant prill was dissolved in aqua regia and gold determined by flame AAS. For 3m composite samples gold was determined using a 30g charge (more rarely 50g charge). For other geochemical elements, samples were digested in aqua regia with each element concentration determined by ICP Atomic Emission Spectrometry or ICP Mass Spectrometry. These additional elements were generally only used for geological interpretation purposes, are not of economic significance and are not routinely reported.
	<ul style="list-style-type: none"> <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>	Not applicable to this report or deposit.
	<ul style="list-style-type: none"> <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>	Commercially prepared Certified Reference Materials (CRM) and blanks were inserted at 1 in 50 samples. CRM's were not identifiable to the laboratory. Field duplicate samples were inserted at 1 in 50 samples (alternate to CRM's) for RC drilling programs. Laboratory QAQC sampling includes insertion of CRM samples, internal duplicates and screen tests. This data was reported for each sample submission. Failed standards result in re-assaying of portions of the affected sample batches.
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> </ul>	Drill data was compiled and collated, and reviewed by senior staff. External consultants do not routinely verify exploration data until resource estimation procedures are deemed necessary.
	<ul style="list-style-type: none"> <li>The use of twinned holes.</li> </ul>	Twinned holes have not been used at Wyoming Three as twinning provides verification only for extremely limited areas of a deposit.
	<ul style="list-style-type: none"> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> </ul>	All drill hole logging and sampling data was hard keyed into Excel spreadsheet for transfer and storage in an access database with verification protocols in place. All primary assay data was received from the laboratory as electronic data files which were imported into sampling database with verification procedures in place. QAQC analysis was undertaken for each laboratory report.

Criteria	JORC Code explanation	Commentary
		Digital copies of Certificates of Analysis (COA) are stored in a central database with regular (daily) backup. Original survey data is stored on site. Data was also verified on import into mining related software.
	<ul style="list-style-type: none"> <li>Discuss any adjustment to assay data.</li> </ul>	No assay data was adjusted.
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> </ul>	Drill holes were laid out using hand held GPS (accuracy $\pm$ 2m) then surveyed accurately ( $\pm$ 0.1m) by licensed surveyors on completion. RC & AC drill holes were surveyed using a single shot electronic camera at a nominal 30m down hole intervals. DD holes were surveyed at nominal 30m down hole during drilling to maintain drilling direction and then at 6m intervals on retrieval of rod string using a multi shot electronic camera.
	<ul style="list-style-type: none"> <li>Specification of the grid system used.</li> </ul>	All drill holes were originally laid out in AMG66 grid however since mining commenced in February 2014 have been transformed to MGA94 grid system to conform with reporting requirements for mine operations.
	<ul style="list-style-type: none"> <li>Quality and adequacy of topographic control.</li> </ul>	The area is very flat. A site based digital terrain model was developed from accurate ( $\pm$ 0.1m) survey control by licenced surveyors.
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> </ul>	Early drilling at Wyoming Three was completed along east-west lines spaced 25m apart assuming stratigraphy and lode orientation was similar to the earlier drilled Wyoming One prospect. Once the east-west lode orientation was confirmed all subsequent drilling was completed along north-south sections spaced 25m apart with holes at 20m intervals along sections. Both east-west and north-south drill holes have been used in the resource calculation. The drill hole spacing is similar to that used at other Tomingley deposits and has been established to be sufficient.
	<ul style="list-style-type: none"> <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> </ul>	The drill hole spacing has been shown to be appropriate by the visible continuity of mineralisation between drill holes.
	<ul style="list-style-type: none"> <li>Whether sample compositing has been applied.</li> </ul>	Sample compositing was not applied until resource estimation stage. RC & AC – samples were composited to 3m with 1m resamples assayed if the composite returned a gold value of $>0.2\text{g/t}$ gold. One metre samples override 3m composites in the database. DD – core was sampled to geology.
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> </ul>	Much care was given to attempt to intersect mineralisation at an optimal angle but in complex ore bodies this can be difficult. As noted above early drilling at Wyoming Three was completed along east-west sections assuming stratigraphy and lode orientation was similar to the earlier drilled Wyoming One prospect. Once the east-west lode orientation was confirmed all subsequent drilling was completed along north-south sections. The chosen drilling direction (south at inclination of $-60^\circ$ ) appears optimal based on reconciliation from the early mining periods.
	<ul style="list-style-type: none"> <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</li> </ul>	It is not thought that drilling direction will bias assay data at Wyoming Three however east-west drilling will not provide optimum intersection of the lode structures.

Criteria	JORC Code explanation	Commentary
	<i>and reported if material.</i>	
Sample security	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>	<p>All samples were bagged in tied numbered calico bags, grouped into larger tied polyweave bags and transported to the laboratory in Orange by Alkane personnel or courier. Sample submission sheets were delivered with the samples and also emailed to the laboratory. All sample submissions were documented via ALS tracking system and all assays were reported via email.</p> <p>Sample pulps were returned to site and were stored for an appropriate length of time (minimum 3 years).</p> <p>The Company has in place protocols to ensure data security.</p>
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<p>The Company does not routinely have external consultants verify exploration data until resource estimation procedures are deemed necessary.</p> <p>The Wyoming data was reviewed in 2010 and 2011 by Behre Dolbear (BDA) as part of the due diligence phase of the development of the project. BDA did not express any specific concerns with respect to the data other than to recommend the completion of some round robin assaying and completion of additional density determinations, both of which were undertaken for the Caloma Two resource drilling.</p>

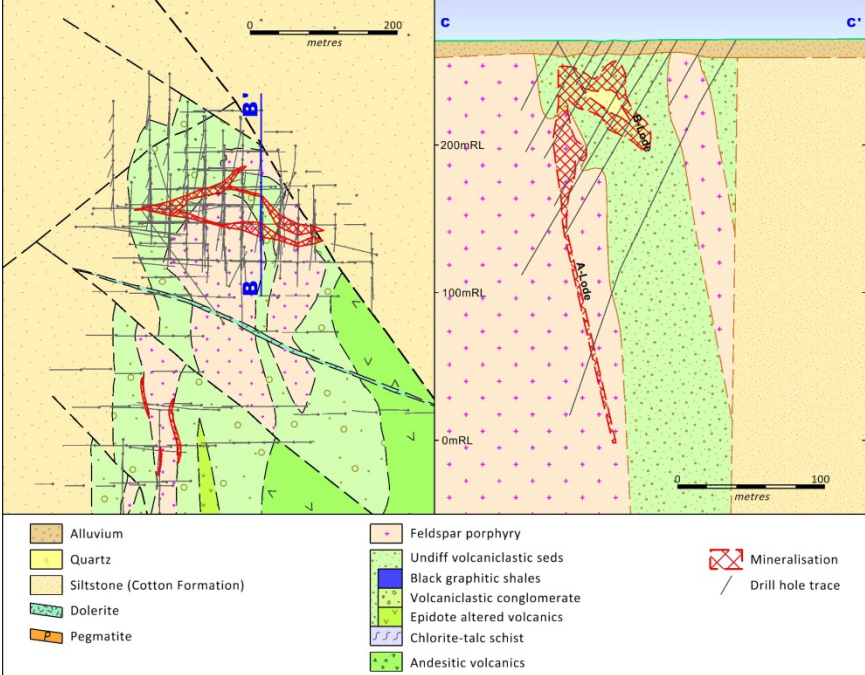
## Section 2 Reporting of Exploration Results

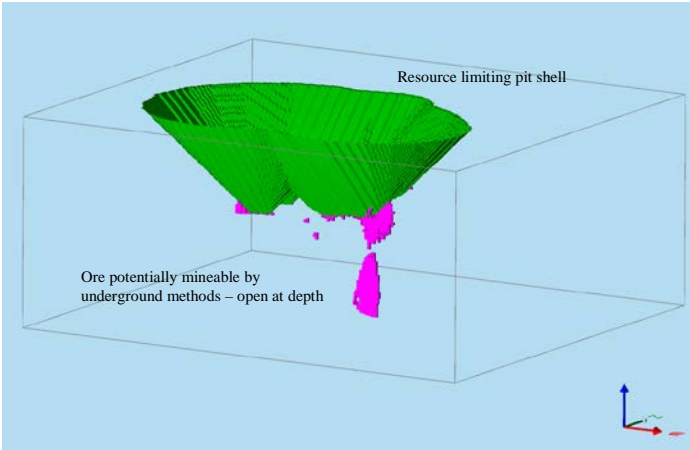
(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	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> </ul>	The Wyoming Three deposit lies within ML 1684 which is held in the name of Tomingley Gold Operations Pty Ltd, a wholly owned subsidiary of Alkane Resources Ltd.
	<ul style="list-style-type: none"> <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>	ML1684 expires on 11 February 2034.
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	All reported drilling has been completed by ALK.
Geology	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<p>Geological nature of the Tomingley Deposits is well documented elsewhere.</p> <p>Mineralisation is associated with quartz veining and alteration focused within sub-volcanic basaltic-andesite sills and adjacent volcanoclastic sediments. The deposits appear to have formed as the result of a rheological contrast between the porphyritic sub-volcanic sills and the surrounding volcanoclastic sediments, with the sills showing brittle fracture and the sediments ductile deformation, and have many similarities to well documented orogenic - lode-style gold deposits.</p> <p>Mineralisation at Wyoming Three is developed within a series of sub-parallel, sub-vertical 'quartz lodes' which dip steeply to the north and hosted dominantly within the sub-volcanic sills.</p>

Criteria	JORC Code explanation	Commentary
<b>Drill hole Information</b>	<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>	<p>Too numerous and not practical to summarise all drill hole data used. All drilling results have been reported previously</p>
	<ul style="list-style-type: none"> <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>	<p>Exclusion of drill hole data will not detract from the understanding of this report. All drill data has been previously reported, holes are close spaced and in an operating mine area.</p>
<b>Data aggregation methods</b>	<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> </ul>	<p>Previously reported results have been –</p> <ul style="list-style-type: none"> <li>For uncut gold grades;</li> <li>Intercepts were defined (bounded) by 0.5g/t gold outer limit and may contain some internal waste;</li> <li>Only intervals grading <math>\geq 1</math> g/t gold were reported;</li> <li>Grades were calculated by length weighted average.</li> </ul>
	<ul style="list-style-type: none"> <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>	<p>Exploration results have been previously reported as length weighted average grades with internal high grade intercepts reported separately.</p>
	<ul style="list-style-type: none"> <li>• The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<p>No metal equivalents are reported.</p>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>• These relationships are particularly important in the reporting of Exploration Results.               <ul style="list-style-type: none"> <li>○ If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>○ 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').</li> </ul> </li> </ul>	<p>Previously reported exploration results include the drilled width and an estimate of true width.</p>



Criteria	JORC Code explanation	Commentary
<p><i>Diagrams</i></p>	<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>	<p>Cross sections and a plan showing geology with drill collars were included with previously reported exploration results. A typical plan and cross section are included below.</p> 
<p><i>Balanced reporting</i></p>	<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>	<p>Data relating to all drill holes has been reported in previous documentation of exploration results.</p>
<p><i>Other substantive exploration data</i></p>	<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 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.</li> </ul>	<p>No additional or new drilling results are being reported at this time.</p>
<p><i>Further work</i></p>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> </ul>	<p>Mining within the Wyoming Three open pit commenced in February 2014.</p>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <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>	<p>The Wyoming Three deposit is well constrained by drilling. Two deeper core holes completed in 2012 indicated limited potential for underground resources.</p> 

### Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
Database integrity	<ul style="list-style-type: none"> <li>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</li> </ul>	Logging data was entered into Excel via drop down menus. All raw data was loaded directly to the Access database from the assay, logging and survey derived files.
	<ul style="list-style-type: none"> <li>Data validation procedures used.</li> </ul>	There are validation checks to avoid duplications of data. The data were further validated for consistency when loaded into Datamine and desurveyed. An extensive check on the consistency and adequacy of down-hole survey data was carried out in 2009.
Site visits	<ul style="list-style-type: none"> <li>Comment on any site visits undertaken by the Competent Person and the outcome of those visits. (If no site visits have been undertaken indicate why this is the case.)</li> </ul>	<p>No site visit was undertaken by Mr Lewis prior to the initial resource estimations as the deposit is covered by a sequence of alluvial material and there is nothing to see at surface. Mr Lewis did visit the site on 25 July 2014 when he was able to view mineralisation in the Caloma and Wyoming Three open pits, view mineralisation and alteration in drill core and assess the drill sampling and QAQC techniques.</p> <p>The quoted resources were compiled by Mr Terry Ransted, Chief Geologist, Alkane Resources Ltd, who has been involved with the project since 2001.</p>
	<ul style="list-style-type: none"> <li>Confidence in (or conversely, the uncertainty of ) the geological interpretation of the mineral deposit.</li> </ul>	The geological model was built on structural data from core and lithological logging. The domain wireframes were built by the Alkane geologists most familiar with the deposit.

Criteria	JORC Code explanation	Commentary
<i>Geological interpretation</i>	<ul style="list-style-type: none"> <li>• <i>Nature of the data used and of any assumptions made.</i></li> </ul>	Structural measurements from oriented drill core were used to assist in the geological interpretation along with lithological, alteration and mineralisation logging of RC chips and drill core
	<ul style="list-style-type: none"> <li>• <i>The effect, if any, of alternative interpretations on Mineral Resource estimation.</i></li> </ul>	The Wyoming Three deposit was been drilled at a close-spacing in several different drilling campaigns, reducing the likelihood that the geological interpretation will change significantly. Reconciliation with grade control drilling and early mining confirms the interpretation.
	<ul style="list-style-type: none"> <li>• <i>The use of geology in guiding and controlling Mineral Resource estimation.</i></li> </ul>	<p>Geological (lithological) logging was used to develop a geological model. Alteration and mineralisation estimates along with grade guided the interpretation of the ore envelope wireframes at a nominal 0.25g/t Au lower cut-off.</p> <p>The Wyoming Three deposit consists of several sub-parallel, steeply dipping mineralised zones within a feldspar porphyry host and located close to a major NW-SE trending regional structure. These mineralised zones trend east-west over a strike length of 260 metres and range from a few metres to about 10 metres in width. Flat dipping linking structures between the steeper zones are evidenced but difficult to model accurately. Mineralisation is associated with extensive alteration and quartz veining of the feldspar porphyry and volcanic rocks.</p>
	<ul style="list-style-type: none"> <li>• <i>The factors affecting continuity both of grade and geology.</i></li> </ul>	Mineralisation is directly associated with alteration and quartz veining.
<i>Dimensions</i>	<ul style="list-style-type: none"> <li>• <i>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</i></li> </ul>	The mineralisation occurs in several zones within an east-west striking corridor 260m long and 115m wide. Mineralisation extends from about 12m below the surface for more than 260m vertical depth.
<i>Estimation and modelling techniques</i>	<ul style="list-style-type: none"> <li>• <i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</i></li> </ul>	<p>Four mineralisation wireframes (domains) were interpreted by the Alkane geologists most familiar with the deposit to constrain estimation. An enclosing background domain was modelled by LMRC to capture minor mineralisation outside the main domains. Four surfaces were also used to separate material types - topography, alluvium, saprolite and base of oxidation surfaces. The material type classification was used to allocate density values.</p> <p>The drill hole data were flagged by the domain wireframes in priority order, to prevent double use the data in the intersecting zones. The samples immediately outside the mineralised zones were re-flagged, if they contained more than 1.0 g/t gold, in order to capture mineralised samples that would otherwise not be used for estimation. This re-flagging is also useful for the fixed-length RC and AC samples. It also captures samples lost because the wireframing was carried out in a different mining software package..</p> <p>The samples were composited to 1m, the most common sample length and flagged by the topography, alluvium, saprolite and base of oxidation surfaces. Top-cuts were selected for each domain based on histograms, probability plots and cutting statistic plots. The top-cuts ranged from 10g/t gold to 30.0 g/t gold. Even before top-cutting, the maximum coefficient of variation for the mineralized domains ranged from 1.83 to 2.0, indicating that the estimation would not be difficult.</p> <p>The number of drill hole composites in all domains were too few for reliable variography.. For this reason, estimation was made by inverse distance squared (ID2). A kriged estimate was made using a nominal variogram to provide a measure of the availability of drill hole data during estimation.</p> <p>A check estimate was made using the Nearest Neighbour method. .</p>

Criteria	JORC Code explanation	Commentary
		Datamine Studio 3 was used for estimation. The orientation of the search ellipse for each domain was controlled by a Dynamic Anisotropy model that provided a unique dip and dip-azimuth for each block.
	<ul style="list-style-type: none"> <li><i>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</i></li> </ul>	<p>The estimates were compared to those of a previous estimate made by Alkane. The grade of the new estimate was slightly lower but tonnes were similar.</p> <p>Pre-stripping of waste from Wyoming Three (and Caloma) commenced in late 2013 with mining of ore in February 2014. Alkane reported on 6<sup>th</sup> June, 2014 that mine to mill reconciliation for the combined Wyoming Three and Caloma production has been positive for both tonnes and grade.</p>
	<ul style="list-style-type: none"> <li><i>The assumptions made regarding recovery of by-products.</i></li> </ul>	No assumptions made - Estimates were made for gold, arsenic and copper; only gold is of economic significance.
	<ul style="list-style-type: none"> <li><i>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</i></li> </ul>	No deleterious elements identified for estimation.
	<ul style="list-style-type: none"> <li><i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i></li> </ul>	<p>The primary block size was small (2.5m x 2.5m x 5m) because of the narrow dipping nature of the mineralized zones. Due to the two directions of drilling, the drillhole spacing is locally much less than 25m. Sub-blocks were estimated. This model was regularized to 2.5m x 2.5m x 2.5m for new reporting as this is more compatible with the mine planning software currently in use at the mine and the mining methodology.</p> <p>The drill hole spacing was 20-25m with both WE and NS holes drilled. The primary search used (50m x 50m in the long directions and 5m in the short direction) reflects the continuity on the mineralization as seen in section and plan. .</p> <p>Any blocks not estimated in the primary search were re-estimated using a secondary search twice the size of the primary search.</p>
	<ul style="list-style-type: none"> <li><i>Any assumptions behind modelling of selective mining units.</i></li> </ul>	No assumptions were made.
	<ul style="list-style-type: none"> <li><i>Any assumptions about correlation between variables.</i></li> </ul>	No assumptions made
	<ul style="list-style-type: none"> <li><i>Description of how the geological interpretation was used to control the resource estimates.</i></li> </ul>	Only data from the same domain were used to make estimates.
	<ul style="list-style-type: none"> <li><i>Discussion of basis for using or not using grade cutting or capping.</i></li> </ul>	<p>The drill hole data were declustered using the polygonal method for statistical analysis and determination of top-cuts. The maximum un-cut gold composite grade was 79.75g/t.</p> <p>The top-cuts were selected using a combination of histograms, probability plots and cutting statistic plots (plots of cut-off grade against Coefficient of Variation (CV) and total metal). A check estimate was made without use of top-cutting.</p>
	<ul style="list-style-type: none"> <li><i>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</i></li> </ul>	<p>Estimates were made using Inverse Distance Squared (ID2) and checked using the Nearest Neighbour method. Estimates were also compared to a previous Alkane block model.</p> <p>The estimates were verified using several different techniques and checked for local variability by comparing the estimated block grades with the average of the top-cut composites in each block.</p>
<i>Moisture</i>	<ul style="list-style-type: none"> <li><i>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</i></li> </ul>	The tonnages were estimated on a dry tonnage basis.

Criteria	JORC Code explanation	Commentary
Cut-off parameters	<ul style="list-style-type: none"> <li>The basis of the adopted cut-off grade(s) or quality parameters applied.</li> </ul>	The cut-off grade (0.50 g/t Gold) for open pit resources is relevant for the current mining operation.
Mining factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</li> </ul>	The Wyoming Three deposit is currently being mined by open pit methods. Some dilution was added when the estimated sub-block model was regularized; this reduced the gold grade above 0.50 g/t cut-off by 10%. More dilution may need to be added as part of the mining reserve process.
Metallurgical factors or assumptions	<ul style="list-style-type: none"> <li>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</li> </ul>	The metallurgy of the Tomingley deposits is well studied. It is likely that Wyoming Three will have similar metallurgical characteristics. Production to date has not revealed any unexpected metallurgical problems.
Environmental factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.</li> </ul>	Project approval for the TGP was granted in July 2012 for mining from three open pits (Wyoming One, Wyoming Three and Caloma) and underground from Wyoming One deposit. Mining from the Wyoming Three and Caloma open pits commenced in December 2013 with processing of ore in February 2014.
Bulk density	<ul style="list-style-type: none"> <li>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</li> </ul>	No specific gravity measurements were completed on Wyoming Three material however the lithologies and mineralisation is very similar to that at Wyoming One where numerous specific gravity measurements were undertaken by commercial laboratories on drill core samples of the different material types (alluvium, saprolite, totally oxidised and fresh). Oxidation was far more important than variations in lithology or alteration. The specific gravity measurements were applied on a dry basis.
	<ul style="list-style-type: none"> <li>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</li> </ul>	SG measurements completed on all material types – see above.
	<ul style="list-style-type: none"> <li>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>	No assumptions made – SG determined and individual values applied to each material type based on wire-framed surfaces
Classification	<ul style="list-style-type: none"> <li>The basis for the classification of the Mineral Resources into varying confidence categories.</li> </ul>	The resources were classified using kriging variance; this provides a relative measure of the availability of data during estimation. It also takes into account the clustering of the data. The actual break-points for the different resource classes were chosen by inspection of the model in relation to the drilling density. Any blocks outside the main mineralised domains were classified as Inferred.
	<ul style="list-style-type: none"> <li>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</li> </ul>	Wyoming Three was estimated using high proportion of Reverse Circulation (RC) drill hole data. Comparisons with Diamond Drill hole data (DD) showed that the RC data were slightly lower in grade than the DD data for this deposit. The RC drilling was conducted using



Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>Whether the result appropriately reflects the Competent Person's view of the deposit.</li> </ul>	<p>industry-standard methods and was not affected by high water flows so there is no reason not to accept the RC results.</p> <p>The classification reflects the Competent Persons view of the deposit and its supporting data</p>
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of Mineral Resource estimates.</li> </ul>	<p>The Wyoming resource estimates were reviewed by Behre Dolbear in January 2012. The review raised some questions about the method of resource classification. The classification scheme was justified in a subsequent LMRC memo to Alkane in February 2012. This reviewed the Wyoming One resource classes in relation to the anisotropic distance to the nearest sample and concluded that the classification was justified by the data support. Wyoming Three being a smaller resource has not been further studied.</p>
Discussion of relative accuracy/ confidence	<ul style="list-style-type: none"> <li>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</li> </ul>	<p>The Wyoming Three deposit is relatively small and consists of 4 mineralisation zones; consequently there are relatively few drill hole data in most zones. This has limited the accuracy of any fitted variogram models.. The use of an approximate variogram model does not greatly affect the accuracy of the kriged grades as kriging is a very robust estimation process. It does, however, limit the accuracy of the variance of the estimates and any confidence limits that might be statistically inferred.</p> <p>No statistical or geostatistical method (non-linear or simulation) was used to quantify the relative accuracy of the estimate within confidence limits. Accuracy of the estimate is strongly dependent on:</p> <ul style="list-style-type: none"> <li>accuracy of the interpretation and geological domaining;</li> <li>accuracy of the drill hole data (location and values);</li> <li>orientation of local anisotropy; and</li> <li>estimation parameters which are reflected in the global resource classification.</li> </ul>
	<ul style="list-style-type: none"> <li>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</li> </ul>	<p>The resources are global, being based on drill hole data at exploration spacing.</p> <p>To ensure the resources have 'reasonable prospects of eventual economic extraction' the resources have been restricted by an indicative optimistic pit shell estimated at a gold price of \$2000 per ounce with the potential open pit component assessed at <math>\geq 0.5\text{g/t}</math> gold cut off.</p>
	<ul style="list-style-type: none"> <li>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</li> </ul>	<p>Production from Wyoming Three (and Caloma) commenced in early 2014. Alkane reported on 6<sup>th</sup> June, 2014 that mine to mill reconciliation for the combined Wyoming Three and Caloma production has been positive for both tonnes and grade.</p>

## JORC Code, 2012 Edition – Table 1 report – Caloma

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
<p><i>Sampling techniques</i></p>	<ul style="list-style-type: none"> <li><i>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.</i></li> <li><i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i></li> <li><i>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.</i></li> </ul>	<p>The Caloma area has been evaluated using air core (AC), reverse circulation (RC) and diamond drilling (DD) techniques between August 2004 and August 2011 although not all of this drilling lies within the current resource outline.</p> <p>AC - 342 holes for 19,955.4m  RC - 327 holes for 35,907.5 m – inclusive of 12 pre-collars totaling 453m  DD - 26 holes totaling 7976.1m</p> <p>AC samples were collected in large plastic bags at one metre intervals via a cyclone  RC samples were collected at one metre intervals via a cyclone and riffle or cone splitter.  DD sample intervals were defined by geologist during logging to honour geological boundaries.</p> <p>AC and RC drilling completed to industry standards.  Core was laid out in suitably labelled core trays. A core marker (core block) was placed at the end of each drilled run (nominally 3 or 6m) and labelled with the hole number, down hole depth, length of drill run. Core was aligned and measured by tape, comparing back to this down hole depth consistent with industry standards.</p> <p>AC drilling samples collected at 1m intervals via a cyclone into large plastic bags.  RC Drilling – prior to November 2007, the entire RC sample was collected at 1m intervals and delivered into a large plastic bag via a cyclone. For drilling since Nov 2007, approximately 12.5% (3-4kg) of total sample was delivered via cone or riffle splitter into a calico bag (for shipment to laboratory if required) with the remaining sample delivered into a large plastic bag and retained for future use if required.  DD Drilling – sample intervals were defined by geologists during logging to honour geological boundaries and cut in half with a saw.  All samples sent to the laboratory were crushed and/or pulverised to produce a ~100g pulp for assay process.  All 1m RC &amp; AC samples and core samples were fire assayed using a 50g charge and all RC and AC composite samples fire assayed using a 30g charge.  Visible gold was occasionally observed in both core and AC/RC samples</p>
<p><i>Drilling techniques</i></p>	<ul style="list-style-type: none"> <li><i>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).</i></li> </ul>	<p>Initial reconnaissance drilling was completed to fresh rock using 75mm or 100mm air core with follow-up and deeper drilling completed by RC (usually 130 - 140mm diameter). Detailed resource definition drilling was completed primarily by RC techniques using a 130mm or 140mm diameter face sampling hammer. DD holes were pre-collared using either RC techniques or un-oriented PQ3 (83mm diameter) core drilling. Pre-collars were completed to competent material, with holes cased off and completed to depth using HQ3 (61mm diameter) core. HQ3 core was oriented using the "Ace" (Reflex Act) core orientation tool.</p> <p>Within the resource area, drilling was comprised of:</p> <p>72% RC - 323 holes totaling 35,457.5 m (inclusive of 12 pre-collars totaling 453m)  16% DD -26 holes totaling 7976.1m  11% AC – 100 holes totaling 5,550m</p>

Criteria	JORC Code explanation	Commentary
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>	<p>AC and RC - sample recovery was visually estimated and was generally very good (&gt;90%) aided by the use of oversized shrouds through oxide material. Samples were even in size. Samples were rarely damp or wet. Sample quality was assessed by the sampler by visual approximation of sample recovery and if the sample was dry, damp or wet. Riffle and cone splitters were used to ensure a representative sample was achieved for 1 metre samples.</p> <p>DD - core loss was identified by drillers and calculated by geologists when logging. Generally ≥95% was recovered and any loss was usually in portions of the oxide zone. Triple tube Large diameter, triple tube core (PQ3) was used through the oxide material to ensure the greatest recovery.</p>
	<ul style="list-style-type: none"> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<p>RC drilling was completed using oversized shrouds to maintain sample return in oxide zone and all samples were split using riffle or cone splitters. Use of RC rigs with high air capacity assists in keeping samples dry.</p> <p>Triple tube coring was used at all times to maximise core recovery with larger diameter (PQ3) core used in the oxide and saprolite zones.</p>
	<ul style="list-style-type: none"> <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>	<p>There is no known relationship between sample recovery and grade.</p>
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 metallurgical studies.</li> </ul>	<p>AC &amp; RC - each one metre interval was geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage).</p> <p>DD - all core was laid out in core trays and geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage). A brief geotechnical log was also undertaken collecting parameters such as core recovery, RQD, fracture count, and fracture type and orientation.</p>
	<ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	<p>All logging was qualitative with visual estimates of the various characteristics. Magnetic susceptibility data is quantitative.</p> <p>AC &amp; RC - A representative sample of each one metre interval is retained in chip trays for future reference.</p> <p>DD - Core was photographed and all unsampled core is retained for reference purposes.</p>
	<ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<p>All DD core and AC/RC chip samples have been geologically and geotechnically logged by qualified geologists.</p>
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> </ul>	<p>DD - zones of visual mineralisation and/or alteration were marked up by the geologist and cut in half using an Almonté (or equivalent) core cutting saw. Samples submitted for analysis were collected from the same side in all cases to prevent bias. Sampling intervals were generally based on geology, were predominantly over 1m intervals but do not exceed 1.2 metres in length. All mineralised zones were sampled, plus ≥2m of visibly barren wall rock.</p> <p>Laboratory Preparation – drill core was oven dried prior to crushing to &lt;6mm using a jaw crusher, split to 3kg if required then pulverised in an LM5 (or equivalent) to ≥85% passing 75µm. Bulk rejects for all samples were discarded. A pulp packet (±100g) is stored for future reference</p>
	<ul style="list-style-type: none"> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	<p>AC/RC – for drilling completed prior to Nov 2007 spear samples were collected from each 1m sample and composited to 3m for initial analysis. Individual 1m samples from all composites</p>

Criteria	JORC Code explanation	Commentary
		<p>assaying <math>\geq 0.2\text{g/t Au}</math> were riffle split and resubmitted for analysis.</p> <p>For drilling completed since Nov 2007, for intervals with visual mineralisation and/or alteration the calico sample bag (1m samples) were numbered and submitted to the laboratory for analysis. Intervals without visual mineralisation and/or alteration were spear sampled and composited over three metres. For composited intervals returning grades <math>&gt;0.2\text{g/t Au}</math> the calico bags were retrieved for assay of the individual 1 m intervals. Rare damp or wet samples were recorded by the sampler.</p> <p>Laboratory Preparation – the entire RC sample (3kg) was dried and pulverised in an LM5 (or equivalent) to <math>\geq 85\%</math> passing <math>75\mu\text{m}</math>. Bulk rejects for all samples were discarded. A pulp packet (<math>\pm 100\text{g}</math>) is stored for future reference.</p>
	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	Alkane (ALK) sampling techniques are of industry standard and considered adequate.
	<ul style="list-style-type: none"> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	RC – field duplicate samples collected at every stage of sampling to control procedures. DD – external laboratory duplicates used.
	<ul style="list-style-type: none"> <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>	RC - Duplicate samples were riffle split from the riffle/conical split calico from the drill rig. Duplicates show generally excellent repeatability, indicating a negligible “nugget” effect.
	<ul style="list-style-type: none"> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	Sample sizes are industry standard and considered appropriate.
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> </ul>	<p>For all 1m samples used in the resource estimate gold was determined using a 50g charge fused at approximately <math>1100^{\circ}\text{C}</math> with alkaline fluxes, including lead oxide. The resultant prill was dissolved in aqua regia and gold determined by flame AAS. For 3m composite samples gold was determined using a 30g charge (more rarely 50g charge).</p> <p>For other geochemical elements, samples were digested in aqua regia with each element concentration determined by ICP Atomic Emission Spectrometry or ICP Mass Spectrometry. These additional elements were generally only used for geological interpretation purposes, are not of economic significance and are not routinely reported.</p>
	<ul style="list-style-type: none"> <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>	Not applicable to this report or deposit.
	<ul style="list-style-type: none"> <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>	<p>Commercially prepared Certified Reference Materials (CRM) and blanks were inserted at 1 in 50 samples. CRM's were not identifiable to the laboratory.</p> <p>Field duplicate samples were inserted at 1 in 50 samples (alternate to CRM's).</p> <p>Laboratory QAQC sampling includes insertion of CRM samples, internal duplicates and screen tests. This data was reported for each sample submission.</p> <p>Failed standards result in re-assaying of portions of the affected sample batches.</p> <p>Screen fire assay checks (<math>75\mu\text{m}</math> mesh) were undertaken on 110 drill core samples. Screen fire assay data overrides all other methods.</p>
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> </ul>	Drill data was compiled and collated, and reviewed by senior staff. External consultants do not routinely verify exploration data until resource estimation procedures are deemed necessary.
	<ul style="list-style-type: none"> <li>The use of twinned holes.</li> </ul>	Twinned holes have not been used at Caloma Two as twinning provides verification only for extremely limited areas of a deposit.

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> </ul>	<p>All drill hole logging and sampling data was hard keyed into Excel spreadsheet for transfer and storage in an access database with verification protocols in place.</p> <p>All primary assay data was received from the laboratory as electronic data files which were imported into sampling database with verification procedures in place. QAQC analysis was undertaken for each laboratory report.</p> <p>Digital copies of Certificates of Analysis (COA) are stored in a central database with regular (daily) backup. Original survey data is stored on site.</p> <p>Data was also verified on import into mining related software.</p>
	<ul style="list-style-type: none"> <li>Discuss any adjustment to assay data.</li> </ul>	<p>No assay data was adjusted. Screen fire assays take precedence over all other assay techniques.</p>
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> </ul>	<p>Drill holes were laid out using hand held GPS (accuracy <math>\pm</math> 2m) then surveyed accurately (<math>\pm</math> 0.1m) by licensed surveyors on completion.</p> <p>RC &amp; AC drill holes were surveyed using a single shot electronic camera at a nominal 30m down hole intervals.</p> <p>DD holes were surveyed at nominal 30m down hole during drilling to maintain drilling direction and then at 6m intervals on retrieval of rod string using a multi shot electronic camera.</p>
	<ul style="list-style-type: none"> <li>Specification of the grid system used.</li> </ul>	<p>All drill holes were originally laid out in AMG66 grid however since mining commenced in February 2014 have been transformed to MGA94 grid system to conform with reporting requirements for mine operations.</p>
	<ul style="list-style-type: none"> <li>Quality and adequacy of topographic control.</li> </ul>	<p>The area is very flat. A site based digital terrain model was developed from accurate (<math>\pm</math> 0.1m) survey control by licenced surveyors.</p>
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> </ul>	<p>Drilling was completed on east-west sections spaced nominally 20m apart with holes spaced at 20m intervals along the lines. The line spacing was increased to a nominal 40m in zones thought peripheral to the main ore body and to the north.</p> <p>The drill hole spacing is similar to that used at other Tomingley deposits and has been established to be sufficient.</p>
	<ul style="list-style-type: none"> <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> </ul>	<p>The drill hole spacing has been shown to be appropriate by the visible continuity of mineralisation between drill holes.</p>
	<ul style="list-style-type: none"> <li>Whether sample compositing has been applied.</li> </ul>	<p>Sample compositing was not applied until resource estimation stage.</p> <p>RC &amp; AC – samples with no visible mineralisation or alteration were composited to 3m with 1m resamples assayed if the composite returned a gold value of <math>&gt;0.2\text{g/t}</math> gold. One metre samples override 3m composites in the database.</p> <p>DD – core was sampled to geology.</p>
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> </ul>	<p>Much care was given to attempt to intersect mineralisation at an optimal angle but in complex ore bodies this can be difficult. A number of drilling directions were used in the early drilling phases in an attempt to optimise the intersection angle.</p> <p>The chosen drilling direction (east at inclination of <math>-60^\circ</math>) appears optimal based on reconciliation from the early mining periods.</p>
	<ul style="list-style-type: none"> <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</li> </ul>	<p>It is not thought that drilling direction will bias assay data at Caloma.</p>



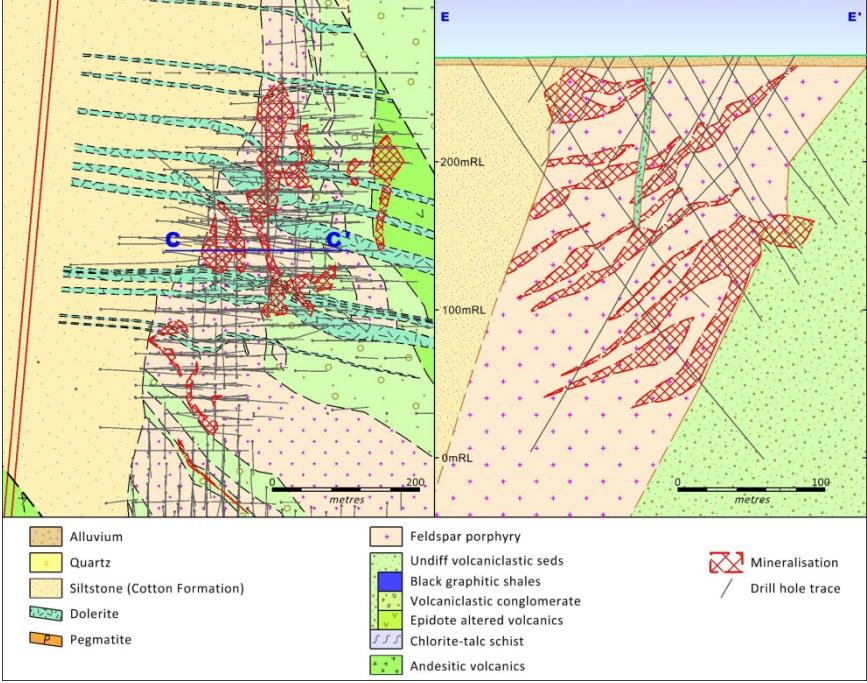
Criteria	JORC Code explanation	Commentary
	<i>and reported if material.</i>	
Sample security	<ul style="list-style-type: none"> <li><i>The measures taken to ensure sample security.</i></li> </ul>	<p>All samples were bagged in tied numbered calico bags, grouped into larger tied polyweave bags and transported to the laboratory in Orange by Alkane personnel or courier. Sample submission sheets were delivered with the samples and also emailed to the laboratory. All sample submissions were documented via ALS tracking system and all assays were reported via email.</p> <p>Sample pulps were returned to site and were stored for an appropriate length of time (minimum 3 years).</p> <p>The Company has in place protocols to ensure data security.</p>
Audits or reviews	<ul style="list-style-type: none"> <li><i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<p>The Company does not routinely have external consultants verify exploration data until resource estimation procedures are deemed necessary.</p> <p>The Caloma data was reviewed in 2010 and 2011 by Behre Dolbear (BDA) as part of the due diligence phase of the development of the project. BDA did not express any specific concerns with respect to the data other than to recommend the completion of some round robin assaying and completion of additional density determinations, both of which were undertaken for the Caloma Two resource drilling.</p>

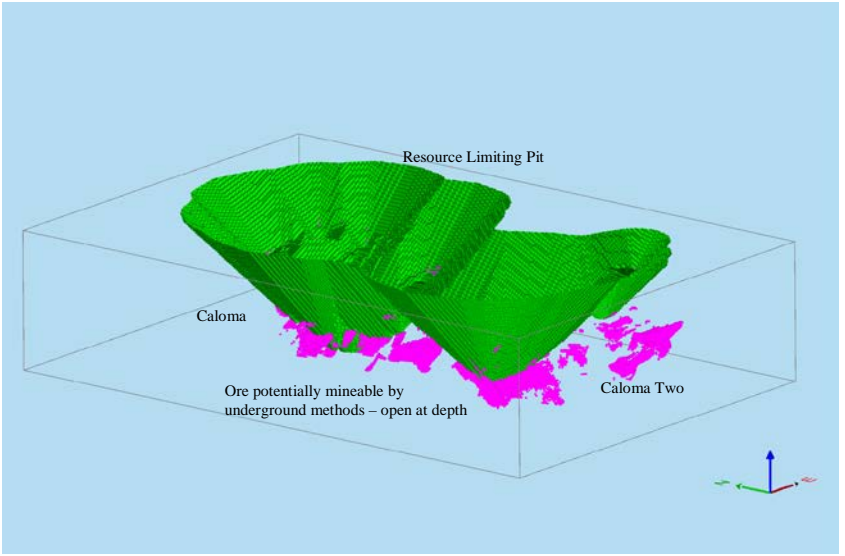
## Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	The Caloma Deposit lies within ML 1684 which is held in the name of Tomingley Gold Operations Pty Ltd, a wholly owned subsidiary of Alkane Resources Ltd.
	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	ML1684 expires on 11 February 2034.
Exploration done by other parties	<ul style="list-style-type: none"> <li><i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	All reported drilling has been completed by ALK.
Geology	<ul style="list-style-type: none"> <li><i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<p>Geological nature of the Tomingley Deposits is well documented elsewhere.</p> <p>Mineralisation is associated with quartz veining and alteration focused within sub-volcanic basaltic-andesite sills and adjacent volcanoclastic sediments. The deposits appear to have formed as the result of a rheological contrast between the porphyritic sub-volcanic sills and the surrounding volcanoclastic sediments, with the sills showing brittle fracture and the sediments ductile deformation, and have many similarities to well documented orogenic - lode-style gold deposits.</p> <p>Mineralisation at Caloma is developed within a series of stacked 'quartz lodes' which dip shallowly to the west and hosted dominantly within the sub-volcanic sills. The lodes are cross cut by a number of post mineralisation dolerite dykes.</p>

Criteria	JORC Code explanation	Commentary
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>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>	Too numerous and not practical to summarise all drill hole data used. All drilling results have been reported previously
	<ul style="list-style-type: none"> <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>	Exclusion of drill hole data will not detract from the understanding of this report. All drill data has been previously reported, holes are close spaced and in an operating mine area.
Data aggregation methods	<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> </ul>	Previously reported results have been – For uncut gold grades; Intercepts were defined (bounded) by 0.5g/t gold outer limit and may contain some internal waste; Only intervals grading $\geq 1$ g/t gold were reported; Grades were calculated by length weighted average.
	<ul style="list-style-type: none"> <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>	Exploration results have been previously reported as length weighted average grades with internal high grade intercepts reported separately.
	<ul style="list-style-type: none"> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	No metal equivalents are reported.
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results. <ul style="list-style-type: none"> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>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').</li> </ul> </li> </ul>	Previously reported exploration results include the drilled width and an estimate of true width. At Caloma the true width is approximately 80% of the drilled width.
Diagrams	<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</li> </ul>	Cross section and a plan showing geology with drill collars were included with previously reported exploration results. Typical plan and cross section included below.

Criteria	JORC Code explanation	Commentary
	<p>limited to a plan view of drill hole collar locations and appropriate sectional views.</p>	
<p>Balanced reporting</p>	<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>	<p>Data relating to all drill holes has been reported in previous documentation of exploration results.</p>
<p>Other substantive exploration data</p>	<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 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.</li> </ul>	<p>No additional or new drilling results are being reported at this time.</p>
<p>Further work</p>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> </ul>	<p>Mining within the Caloma open pit commenced in February 2014. Additional drilling may be completed to compliment an assessment of mining resources below the open pit by underground methods.</p>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <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>	

### Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
<p><i>Database integrity</i></p>	<ul style="list-style-type: none"> <li>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</li> <li>Data validation procedures used.</li> </ul>	<p>Logging data was entered into Excel via drop down menus. All raw data was loaded directly to the Access database from the assay, logging and survey derived files.</p> <p>There are validation checks to avoid duplications of data. The data were further validated for consistency when loaded into Datamine and desurveyed. An extensive check on the consistency and adequacy of down-hole survey data was carried out in 2009.</p>
<p><i>Site visits</i></p>	<ul style="list-style-type: none"> <li>Comment on any site visits undertaken by the Competent Person and the outcome of those visits. (If no site visits have been undertaken indicate why this is the case.)</li> </ul>	<p>No site visit was undertaken by Mr Lewis prior to the initial resource estimations as the deposit is covered by a sequence of alluvial material and there is nothing to see at surface. Mr Lewis did visit the site on 25 July 2014 when he was able to view mineralisation in the open pit, view mineralisation and alteration in drill core and assess the drill sampling and QAQC techniques.</p> <p>The quoted resources were compiled by Mr Terry Ransted, Chief Geologist, Alkane Resources Ltd, who has been involved with the project since 2001.</p>
	<ul style="list-style-type: none"> <li>Confidence in (or conversely, the uncertainty of ) the geological interpretation of the mineral deposit.</li> </ul>	<p>The geological model was built on structural data from core and lithological logging. The domain wireframes were built by the Alkane geologists most familiar with the deposit.</p>

Criteria	JORC Code explanation	Commentary
<i>Geological interpretation</i>	<ul style="list-style-type: none"> <li>• <i>Nature of the data used and of any assumptions made.</i></li> </ul>	Structural measurements from oriented drill core were used to assist in the geological interpretation along with lithological, alteration and mineralisation logging of RC chips and drill core.
	<ul style="list-style-type: none"> <li>• <i>The effect, if any, of alternative interpretations on Mineral Resource estimation.</i></li> </ul>	<p>The Caloma deposit was been drilled at a close-spacing in several different drilling campaigns, reducing the likelihood that the geological interpretation will change significantly. Drill holes were predominantly inclined to the east with some holes inclined to the north or west (early drilling).</p> <p>Reconciliation with grade control drilling and early mining confirms the interpretation.</p>
	<ul style="list-style-type: none"> <li>• <i>The use of geology in guiding and controlling Mineral Resource estimation.</i></li> </ul>	<p>Geological (lithological) logging was used to develop a geological model. Alteration and mineralisation estimates along with grade guided the interpretation of the ore envelope wireframes at a nominal 0.25g/t Au lower cut-off.</p> <p>The Caloma deposit consists of a series of shallow west-dipping mineralised structures within the steep west dipping feldspar porphyry host. These structures trend north-south over a strike length of 500 metres and range in width from a few metres to in excess of 20 metres, and appear to extend across the full width of the porphyry. Mineralisation is associated with extensive alteration and quartz veining of the porphyry and volcanic rocks. The mineralisation is interrupted by a series of barren post-mineralisation dolerite dykes.</p>
	<ul style="list-style-type: none"> <li>• <i>The factors affecting continuity both of grade and geology.</i></li> </ul>	Mineralisation is directly associated with alteration and quartz veining.
<i>Dimensions</i>	<ul style="list-style-type: none"> <li>• <i>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</i></li> </ul>	The mineralisation occurs in several west-dipping zones within a north-striking corridor 460m long and 420m wide. Mineralisation extends from about 5m below the surface for more than 350m vertical depth.
<i>Estimation and modelling techniques</i>	<ul style="list-style-type: none"> <li>• <i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</i></li> </ul>	<p>17 mineralisation wireframes (domains) were interpreted by the Alkane geologists most familiar with the deposit to constrain estimation. Six, cross cutting, barren dolerite wireframes were also modelled. An enclosing background domain was modelled by LMRC to capture minor mineralization outside the main domains.</p> <p>Four surfaces were also used to separate material types - topography, alluvium, saprolite and base of oxidation surfaces. The material type classification was used to allocate density values.</p> <p>The drill hole data were flagged by the domain wireframes in priority order, to prevent double use of the data in any intersecting zones. The samples immediately outside the mineralised zones were re-flagged, if they contained more than 1.0 g/t gold, in order to capture mineralized samples that would otherwise not be used for estimation. This re-flagging is also useful for the fixed-length RC and AC samples. It also captures samples lost because the wireframing was carried out in a different mining software package..</p> <p>The samples were composited to 1m, the most common sample length and flagged by the topography, alluvium, saprolite and base of oxidation surfaces. Top-cuts were selected for each domain based on histograms, probability plots and cutting statistic plots. The top-cuts ranged from 7g/t gold to 45.0 g/t gold for the mineralised zones. After top-cutting, the maximum coefficient of variation for the mineralised domains ranged from 0.88 to 1.88 indicating that the estimation would not be difficult.</p> <p>The number of drill hole composites in all but one of the mineralised domains was less than 700, too few for reliable variography. The one domain with more data (ore06a) was irregular in shape and orientation. A longer range variogram model was fitted despite evidence of some shorter range structures, possibly caused by the changes in orientation. The variogram for this domain was used for all the mineralised domains. Separate variogram models were</p>



Criteria	JORC Code explanation	Commentary
		<p>fitted for the dolerite and background domains. The principal estimation was made using inverse distance squared (ID2), but kriged and a nearest-neighbour estimates were also made.</p> <p>An additional kriged estimate was made using the name nominal variogram for all domains to provide a measure of the availability of drill hole data during estimation.</p> <p>Datamine Studio 3 was used for estimation. The orientation of the search ellipse for each domain was controlled by a Dynamic Anisotropy model that provided a unique dip and dip-azimuth for each block.</p>
	<ul style="list-style-type: none"> <li><i>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</i></li> </ul>	<p>The estimates were compared to those of a previous estimate made by Alkane. The grade of the new estimate was slightly higher; tonnes were also higher because an additional domain was estimated.</p> <p>Pre-stripping of waste commenced from Caloma and Wyoming Three in late 2013 and the mining of ore in February 2014.</p>
	<ul style="list-style-type: none"> <li><i>The assumptions made regarding recovery of by-products.</i></li> </ul>	<p>No assumptions made - Estimates were made for gold, arsenic and copper; only gold is of economic significance.</p>
	<ul style="list-style-type: none"> <li><i>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</i></li> </ul>	<p>No deleterious elements identified for estimation</p>
	<ul style="list-style-type: none"> <li><i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i></li> </ul>	<p>The primary block size was small (2.5m x 2.5m x 5m) because of the narrow dipping nature of the mineralized zones. Due to multiple directions of drilling, the drill hole spacing is locally much less than 25m. Sub-blocks were estimated. This model was regularised to 2.5m x 2.5m x 2.5m for new reporting as this is more compatible with the mine planning software currently in use at the mine and the mining methodology.</p> <p>The drill hole spacing was 20-25m with both WE and NS holes drilled. The primary search used (50m x 50m in the long directions and 5m in the short direction) reflects the continuity on the mineralisation as seen in section and plan. .</p> <p>Any blocks not estimated in the primary search were re-estimated using a secondary search twice the size of the primary search.</p>
	<ul style="list-style-type: none"> <li><i>Any assumptions behind modelling of selective mining units.</i></li> </ul>	<p>No assumptions were made. As part of the validation process, the variability of the estimates was compared to that calculated from the data and the variogram using the Indirect Lognormal Correction. This showed that the estimates for the domains with most data were over-smoothed, but the ID2 model was better than the kriged model. This is not unusual for deposits drilled at exploration spacing. During mining, tonnes may be less and grades higher.</p>
	<ul style="list-style-type: none"> <li><i>Any assumptions about correlation between variables.</i></li> </ul>	<p>No assumptions made</p>
	<ul style="list-style-type: none"> <li><i>Description of how the geological interpretation was used to control the resource estimates.</i></li> </ul>	<p>Soft boundaries were used between the dismembered parts of domains that were intersected by later barren dolerite dykes.</p>
	<ul style="list-style-type: none"> <li><i>Discussion of basis for using or not using grade cutting or capping.</i></li> </ul>	<p>The drill hole data were declustered using the polygonal method for statistical analysis and determination of top-cuts.</p> <p>The top cuts were selected using a combination of histograms, probability plots and cutting statistic plots (plots of cut-off grade against Coefficient of Variation (CV) and total metal).</p>
	<ul style="list-style-type: none"> <li><i>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</i></li> </ul>	<p>Estimates were made using Inverse Distance Squared (ID2) and checked using Kriging and the Nearest Neighbour method. Estimates were also compared to a previous Alkane block model.</p>

Criteria	JORC Code explanation	Commentary
		The estimates were verified using several different techniques and checked for local variability by comparing the estimated block grades with the average of the top-cut composites in each block.
Moisture	<ul style="list-style-type: none"> <li>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</li> </ul>	The tonnages were estimated on a dry tonnage basis.
Cut-off parameters	<ul style="list-style-type: none"> <li>The basis of the adopted cut-off grade(s) or quality parameters applied.</li> </ul>	The cut-off grade (0.50 g/t Gold) for open pit resources is relevant for the current mining operation of this deposit.
Mining factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</li> </ul>	<p>The main part of the Caloma deposit is being mined by open pit methods. Some dilution was added when the estimated sub-block model was regularised; this reduced the gold grade above 0.50 g/t cut-off by 11%. The cross-cutting barren dolerite dykes increase the dilution.</p> <p>The resources are depleted for production and limited to above RL 35m.</p>
Metallurgical factors or assumptions	<ul style="list-style-type: none"> <li>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</li> </ul>	<p>The metallurgy of the Caloma deposit was well studied in the Feasibility Study.</p> <p>The Caloma deposit is currently being mined and processed with no significant differences in metallurgical recoveries from those estimated in the feasibility study.</p>
Environmental factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.</li> </ul>	Project approval for the TGP was granted in July 2012 for mining from three open pits (Wyoming One, Wyoming Three and Caloma) and underground from Wyoming One deposit. Mining from the Wyoming Three and Caloma open pits commenced in December 2013 with processing of ore in February 2014.
Bulk density	<ul style="list-style-type: none"> <li>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</li> </ul>	<p>Specific gravity measurements were completed by commercial laboratories on drill core samples of the different material types (alluvium, saprolite, totally oxidised and fresh). Oxidation was far more important than variations in lithology or alteration.</p> <p>The specific gravity measurements were applied on a dry basis.</p>
	<ul style="list-style-type: none"> <li>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</li> </ul>	SG measurements completed on all material types – see above.
	<ul style="list-style-type: none"> <li>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>	No assumptions made – SG determined and individual values applied to each material type based on wire framed surfaces
Classification	<ul style="list-style-type: none"> <li>The basis for the classification of the Mineral Resources into varying confidence categories.</li> </ul>	The resources were classified using kriging variance and search pass; this provides a relative measure of the availability of data during estimation. It also takes into account the clustering of the data. The actual break-points for the different resource classes were chosen by inspection of the model in relation to the drilling density. Any blocks outside the main

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</li> <li>Whether the result appropriately reflects the Competent Person's view of the deposit.</li> </ul>	<p>mineralised domains were classified as Inferred. Measured resources were further restricted to the first search pass.</p> <p>Caloma was estimated using high proportion of Reverse Circulation (RC) drill hole data. The RC drilling was conducted using industry-standard methods and was not affected by high water flows, so there is no reason not to accept the RC results. Statistical studies showed that the RC drilling was of similar grade to the diamond drilling.</p> <p>The classification reflects the Competent Persons view of the deposit and its supporting data</p>
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of Mineral Resource estimates.</li> </ul>	<p>The Wyoming and Caloma resource estimates were reviewed by Behre Dolbear in January 2012 as part of a financing due diligence process. The review raised some questions about the method of resource classification.</p> <p>The Caloma classification scheme was justified in a subsequent LMRC memo to Alkane in February 2012 which reviewed the resource classes in relation to the anisotropic distance to the nearest sample:</p> <ul style="list-style-type: none"> <li>For almost all the Measured Resources, the nearest sample was at less than half the anisotropic search distance of the first estimation pass and the mean anisotropic distance was 20% of the search distance.</li> <li>For Indicated Resources, the nearest sample was no more than 87% of the maximum anisotropic search distance and the mean anisotropic search distance was 40% of the search distance.</li> <li>The mean number of samples used for estimation was 23.4 for Measured Resources, 17 for Indicated Resources and 10.7 for Inferred Resources.</li> <li>All Measured and Indicated Resources were estimated in the first search pass.</li> <li>The resources are in fact estimated using an adequate amount of data.</li> </ul> <p>Subsequent to the Behre Dolbear review, Hellman and Schofield (H&amp;SC) were commissioned by Alkane (at the request of Behre Dolbear) to review the resource categorisation. Their draft report of 14 May, 2012 stated: "H&amp;SC cannot endorse the classification of the published resource because of the risk associated with the geological interpretations of the mineralised domains as well as the classification method. It is recommended that an alternative estimation approach be adopted that uses fewer and larger domains with larger blocks combined with increased data points. The current classification does not adequately reflect the risk associated with the subdivision of the deposit into numerous domains some of which are thin and irregularly shaped and whose continuity appear highly uncertain. In H&amp;SC's view the quoted resource estimates are likely to overstate the grade and understate the tonnage though the contained metal may be similar."</p> <p>The mineralised zone domains and barren dolerite domains used by LMRC for the estimation were modelled by Alkane geologists most familiar with Tomingley mineralisation. Behre Dolbear in their review of the Tomingley deposits stated that: "Although all deposits occur below surficial cover and the database is predominantly open hole drilling, the Alkane interpretations of mineralised boundaries appear generally reasonable". The mineralised zones are narrow and dipping and this in conjunction with the cross-cutting later barren dolerite dykes required that a small block size be used. Some dilution was added when the sub-block model was regularised to 2.5m x 2.5m x 2.5m blocks. As discussed in the section on classification of the resource estimate, the resource classes are supported by the data spacing and number of data used.</p>

Criteria	JORC Code explanation	Commentary
<p><i>Discussion of relative accuracy/confidence</i></p>	<ul style="list-style-type: none"> <li>• <i>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</i></li> </ul>	<p>The Caloma deposit consists of 17 mineralisation zones and 6 barren dolerite dyke domains; consequently there are relatively few drill hole data in most zones. Several of the mineralised domains are parts of the same domain, separated by barren dolerite dyke. Only one domain had an adequate number of composites for variography (1421). The variogram for this domain was used for all mineralised domains. This has limited the accuracy of any fitted variogram models. The use of an approximate variogram model does not greatly affect the accuracy of the kriged grades as kriging is a very robust estimation process. It does, however, limit the accuracy of the variance of the estimates and any confidence limits that might be statistically inferred.</p> <p>No statistical or geostatistical method (non-linear or simulation) was used to quantify the relative accuracy of the estimate within confidence limits. Accuracy of the estimate is strongly dependent on:</p> <ul style="list-style-type: none"> <li>accuracy of the interpretation and geological domaining;</li> <li>accuracy of the drill hole data (location and values);</li> <li>orientation of local anisotropy; and</li> <li>estimation parameters which are reflected in the global resource classification.</li> </ul>
	<ul style="list-style-type: none"> <li>• <i>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</i></li> </ul>	<p>The resources are global, being based on drill hole data at exploration spacing.</p> <p>To ensure the resources have 'reasonable prospects of eventual economic extraction' the resources have been restricted by an indicative optimistic pit shell estimated at a gold price of \$2000 per ounce with the potential open pit component assessed at <math>\geq 0.5\text{g/t}</math> gold cut off and material outside of the indicative pit with potential for eventual extraction by underground mining methods assessed at <math>\geq 1.75\text{g/t}</math> gold.</p>
	<ul style="list-style-type: none"> <li>• <i>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i></li> </ul>	<p>Production of ore commenced from Caloma (and Wyoming Three) in February 2014. Initial mine to mill reconciliation has been positive for both tonnes and grade for the combined production.</p>

## JORC Code, 2012 Edition – Table 1 report – Caloma Two

### Section 1 Sampling Techniques and Data

(Criteria in this section apply 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> </ul>	<p>The Caloma Two area has been evaluated using air core (AC), reverse circulation (RC) and diamond drilling (DD) techniques between May 2007 (early reconnaissance) and March 2012. Not all of this drilling lies within the current resource outline, there is some overlap in drilling with the southern end of Caloma (although there is no overlap in resources) and none of the air core drilling samples were used in the resource calculation.</p> <p>AC - 105 holes for 7,367.5m  RC - 201 holes for 29,078m (inclusive of 2 pre-collar totalling 72m)  DD - 17 holes totaling 4,097.60m</p> <p>RC samples were collected at one metre intervals via a cyclone and riffle or cone splitter.  DD sample intervals were defined by geologist during logging to honour geological boundaries.</p>
	<ul style="list-style-type: none"> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	<p>RC drilling completed to industry standards.  Core was laid out in suitably labelled core trays. A core marker (core block) was placed at the end of each drilled run (nominally 3 or 6m) and labelled with the hole number, down hole depth, length of drill run. Core was aligned and measured by tape, comparing back to this down hole depth consistent with industry standards.</p>
	<ul style="list-style-type: none"> <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>	<p>RC Drilling - approximately 10% (3-4kg) of total sample was delivered via cone or riffle splitter into a calico bag (for shipment to laboratory if required) with the remaining sample delivered into a large plastic bag and retained for future use if required.</p> <p>DD Drilling – sample intervals defined were by geologists during logging to honour geological boundaries and cut in half with a saw.</p> <p>All samples sent to laboratory were crushed and/or pulverised to produce a ~100g pulp for assay process.  All RC and core samples were fire assayed using a 50g charge.  Visible gold was occasionally observed in both core and RC samples</p>
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 (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>	<p>The resource is based on 195 RC drill holes totaling 28,260 metres and 17 diamond core drill (DD) holes totaling 3,631 metres.</p> <p>Detailed resource definition drilling was completed by RC techniques using a 130mm or 140mm diameter face sampling hammer.</p> <p>DD holes were pre-collared using either RC techniques or un-oriented PQ3 (83mm diameter) core drilling. Pre-collars were completed to competent material, with holes cased off and completed to depth using HQ3 (61mm diameter) core. HQ3 core was oriented using the "Ace" (Reflex Act) core orientation tool.</p> <p>Drilling data used in the establishment of resource wireframes and the resource calculation is comprised of:</p> <p>88% RC – 187 holes totalling 27,345m (inclusive of 1 pre-collar totalling 42m)  12% DD – 16 holes totalling 3,848.0m</p>
	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> </ul>	<p>RC sample recovery was visually estimated and was generally very good (&gt;90%) aided by the use of oversized shrouds through oxide material. Samples were even in size. Samples were</p>



Criteria	JORC Code explanation	Commentary
<i>Drill sample recovery</i>		rarely damp or wet. Sample quality was assessed by the sampler by visual approximation of sample recovery and if the sample was dry, damp or wet. Riffle and cone splitters were used to ensure a representative sample was achieved for 1 metre samples.  DD - core loss was identified by drillers and calculated by geologists when logging. Generally $\geq 95\%$ was recovered and any loss was usually in portions of the oxide zone. Triple tube Large diameter, triple tube core (PQ3) was used through the oxide material to ensure the greatest recovery.
	<ul style="list-style-type: none"> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	RC drilling was completed using oversized shrouds to maintain sample return in oxide zone and all samples were split using riffle or cone splitters. Use of RC rigs with high air capacity assists in keeping samples dry.  Triple tube coring was used at all times to maximise core recovery with larger diameter (PQ3) core used in the oxide and saprolite zones.
	<ul style="list-style-type: none"> <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>	There is no known relationship between sample recovery and grade.
<i>Logging</i>	<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 metallurgical studies.</li> </ul>	RC - each one metre interval was geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage).  DD - all core was laid out in core trays and geologically logged for characteristics such as lithology, weathering, alteration (type, character and intensity), veining (type, character and intensity) and mineralisation (type, character and volume percentage). A brief geotechnical log was also undertaken collecting parameters such as core recovery, RQD, fracture count, and fracture type and orientation.
	<ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	All logging was qualitative with visual estimates of the various characteristics. Magnetic susceptibility data is quantitative.  RC - A representative sample of each one metre interval is retained in chip trays for future reference.  DD - Core was photographed and all unsampled core is retained for reference purposes.
	<ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	All DD core and RC chip samples have been geologically and geotechnically logged by qualified geologists.
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> </ul>	DD - zones of visual mineralisation and/or alteration were marked up by the geologist and cut in half using an Almonté (or equivalent) core cutting saw. Samples submitted for analysis were collected from the same side in all cases to prevent bias. Sampling intervals were generally based on geology, were predominantly over 1m intervals but do not exceed 1.2 metres in length. All mineralised zones were sampled, plus $\geq 2\text{m}$ of visibly barren wall rock.  Laboratory Preparation – drill core was oven dried prior to crushing to $< 6\text{mm}$ using a jaw crusher, split to 3kg if required then pulverised in an LM5 (or equivalent) to $\geq 85\%$ passing $75\mu\text{m}$ . Bulk rejects for all samples were discarded. A pulp packet ( $\pm 100\text{g}$ ) is stored for future reference
	<ul style="list-style-type: none"> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	RC – for intervals with visual mineralisation and/or alteration, the calico sample bag (1m samples) were numbered and submitted to the laboratory for analysis. Intervals without visual mineralisation and/or alteration were spear sampled and composited over three metres. For composited intervals returning grades $> 0.2\text{g/t Au}$ the calico bags were retrieved for assay of the individual 1 m intervals. Rare damp or wet samples were recorded by the sampler.

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	Laboratory Preparation – the entire RC sample (3kg) was dried and pulverised in an LM5 (or equivalent) to ≥85% passing 75µm. Bulk rejects for all samples were discarded. A pulp packet (±100g) is stored for future reference.
	<ul style="list-style-type: none"> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	Alkane (ALK) sampling techniques are of industry standard and considered adequate. RC – field duplicate samples collected at every stage of sampling to control procedures. DD – external laboratory duplicates used.
	<ul style="list-style-type: none"> <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>	RC - Duplicate samples were riffle split from the riffle/conical split calico from the drill rig. Duplicates show generally excellent repeatability, indicating a negligible “nugget” effect.
	<ul style="list-style-type: none"> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	Sample sizes are industry standard and considered appropriate.
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> </ul>	Gold was determined using a 50g charge fused at approximately 1100°C with alkaline fluxes, including lead oxide. The resultant prill was dissolved in aqua regia and gold determined by flame AAS. For other geochemical elements, samples were digested in aqua regia with each element concentration determined by ICP Atomic Emission Spectrometry or ICP Mass Spectrometry. These additional elements were generally only used for geological interpretation purposes, are not of economic significance and are not routinely reported.
	<ul style="list-style-type: none"> <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>	Not applicable to this report or deposit.
	<ul style="list-style-type: none"> <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>	Commercially prepared Certified Reference Materials (CRM) and blanks were inserted at 1 in 50 samples. CRM's were not identifiable to the laboratory. Field duplicate samples were inserted at 1 in 50 samples (alternate to CRM's). Laboratory QAQC sampling includes insertion of CRM samples, internal duplicates and screen tests. This data was reported for each sample submission. Failed standards result in re-assaying of portions of the affected sample batches. Screen fire assay checks (75µm mesh) were undertaken on 110 drill core samples. Screen fire assay data overrides all other methods.
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> </ul>	Drill data was compiled and collated, and reviewed by senior staff. External consultants do not routinely verify exploration data until resource estimation procedures are deemed necessary.
	<ul style="list-style-type: none"> <li>The use of twinned holes.</li> </ul>	Twinned holes have not been used at Caloma Two as twinning provides verification only for extremely limited areas of a deposit.
	<ul style="list-style-type: none"> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> </ul>	All drill hole logging and sampling data was hard keyed into Excel spreadsheet for transfer and storage in an access database with verification protocols in place. All primary assay data was received from the laboratory as electronic data files which were imported into sampling database with verification procedures in place. QAQC analysis was undertaken for each laboratory report. Digital copies of Certificates of Analysis (COA) are stored in a central database with regular (daily) backup. Original survey data is stored on site.

Criteria	JORC Code explanation	Commentary
		Data was also verified on import into mining related software.
	<ul style="list-style-type: none"> <li>Discuss any adjustment to assay data.</li> </ul>	No assay data was adjusted. Screen fire assays take precedence over all other assay techniques.
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> </ul>	<p>Drill holes were laid out using hand held GPS (accuracy <math>\pm</math> 2m) then surveyed accurately (<math>\pm</math> 0.1m) by licensed surveyors on completion.</p> <p>RC drill holes were surveyed using a single shot electronic camera at a nominal 30m down hole intervals.</p> <p>DD holes were surveyed at nominal 30m down hole during drilling to maintain drilling direction and then at 6m intervals on retrieval of rod string using a multi shot electronic camera.</p>
	<ul style="list-style-type: none"> <li>Specification of the grid system used.</li> </ul>	All drill holes were originally laid out in AMG66 grid however since mining commenced in February 2014 have been transformed to MGA94 grid system to conform with reporting requirements for mine operations.
	<ul style="list-style-type: none"> <li>Quality and adequacy of topographic control.</li> </ul>	The area is very flat. A site based digital terrain model was developed from accurate ( $\pm$ 0.1m) survey control by licenced surveyors.
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> </ul>	<p>Drilling was completed on north-south sections spaced nominally 20m apart with holes spaced at 20m intervals along the lines. The line spacing was increased to a nominal 40m in zones thought peripheral to the main ore body and to the east.</p> <p>The drill hole spacing is similar to that used at other Tomingley deposits and has been established to be sufficient.</p>
	<ul style="list-style-type: none"> <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> </ul>	The drill hole spacing has been shown to be appropriate by the visible continuity of mineralisation between drill holes.
	<ul style="list-style-type: none"> <li>Whether sample compositing has been applied.</li> </ul>	<p>Sample compositing was not applied until resource estimation stage.</p> <p>RC samples with no visible mineralisation or alteration were composited to 3m with 1m resamples assayed if the composite returned a gold value of <math>&gt;0.2\text{g/t}</math> gold. One metre samples override 3m composites in the database.</p> <p>DD – core was sampled to geology.</p>
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> </ul>	Much care was given to attempt to intersect mineralisation at an optimal angle but in complex ore bodies this can be difficult. The chosen drilling direction (south at inclination of $-60^\circ$ ) is consistent with structural measurements obtained from oriented drill core.
	<ul style="list-style-type: none"> <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>	It is not thought that drilling direction will bias assay data at Caloma Two.
Sample security	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security.</li> </ul>	<p>All samples were bagged in tied numbered calico bags, grouped into larger tied polyweave bags and transported to the laboratory in Orange by Alkane personnel or courier. Sample submission sheets were delivered with the samples and also emailed to the laboratory. All sample submissions were documented via ALS tracking system and all assays were reported via email.</p> <p>Sample pulps were returned to site and were stored for an appropriate length of time (minimum 3 years).</p>

Criteria	JORC Code explanation	Commentary
		The Company has in place protocols to ensure data security.
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li><i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<p>The Company does not routinely have external consultants verify exploration data until resource estimation procedures are deemed necessary.</p> <p>The Caloma Two data has not been audited nor reviewed by external parties however the data for other deposits within the TGP was reviewed in 2010 and 2011 by Behre Dolbear (BDA). BDA did not express any specific concerns with respect to the data other than to recommend the completion of some round robin assaying and completion of additional density determinations, both of which were undertaken for the Caloma Two resource drilling.</p>

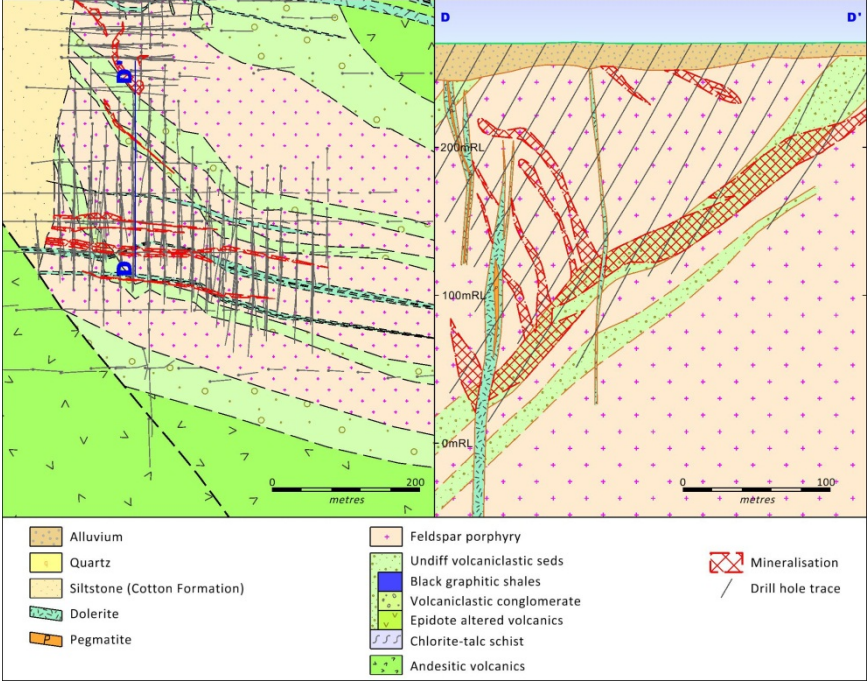
## Section 2 Reporting of Exploration Results

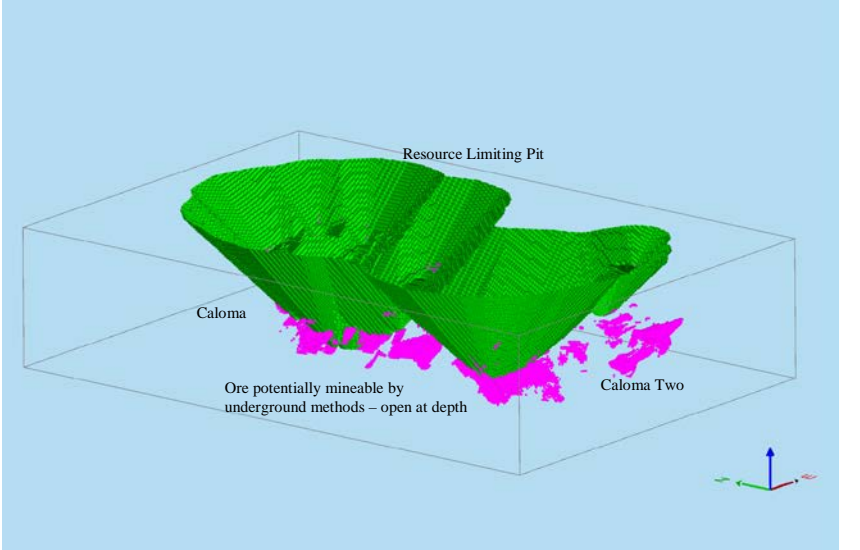
(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	The Caloma Two Deposit lies within ML 1684 which is held in the name of Tomingley Gold Operations Pty Ltd, a wholly owned subsidiary of Alkane Resources Ltd.
	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	ML1684 expires on 11 February 2034.
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li><i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	All reported drilling has been completed by ALK.
<i>Geology</i>	<ul style="list-style-type: none"> <li><i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<p>Geological nature of the Tomingley Deposits is well documented elsewhere.</p> <p>Mineralisation is associated with quartz veining and alteration focused within sub-volcanic basaltic-andesite sills and adjacent volcanoclastic sediments. The deposits appear to have formed as the result of a rheological contrast between the porphyritic sub-volcanic sills and the surrounding volcanoclastic sediments, with the sills showing brittle fracture and the sediments ductile deformation, and have many similarities to well documented orogenic - lode-style gold deposits.</p> <p>Mineralisation at Caloma Two is developed within a series of 'quartz lodes' which dip north at flat to moderate angles and hosted dominantly within the sub-volcanic sills. Mineralisation is also developed along a sediment contact zone which appears to be a potential linking structure with the Caloma mineralisation to the north. There is also evidence for the development of an inverted saddle reef at depth. The lodes are cross cut by a number of post mineralisation dolerite dykes.</p>
<i>Drill hole Information</i>	<ul style="list-style-type: none"> <li><i>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:</i> <ul style="list-style-type: none"> <li><i>easting and northing of the drill hole collar</i></li> <li><i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li><i>dip and azimuth of the hole</i></li> <li><i>down hole length and interception depth</i></li> </ul> </li> </ul>	Too numerous and not practical to summarise all drill hole data used. All drilling results have been reported previously

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>○ hole length.</li> <li>• <i>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.</i></li> </ul>	Exclusion of drill hole data will not detract from the understanding of this report. All drill data has been previously reported, holes are close spaced and in an operating mine area.
<i>Data aggregation methods</i>	<ul style="list-style-type: none"> <li>• <i>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.</i></li> </ul>	Previously reported results have been – For uncut gold grades; Intercepts were defined (bounded) by 0.5g/t gold outer limit and may contain some internal waste; Only intervals grading $\geq 1$ g/t gold were reported; Grades were calculated by length weighted average.
	<ul style="list-style-type: none"> <li>• <i>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.</i></li> </ul>	Exploration results have been previously reported as length weighted average grades with internal high grade intercepts reported separately.
	<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>	No metal equivalents are reported.
<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> <ul style="list-style-type: none"> <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 (eg 'down hole length, true width not known').</i></li> </ul> </li> </ul>	Previously reported exploration results include the drilled width and an estimate of true width. The mineralisation is structurally complex and true widths are variable depending on the ore zone intersected however range between 60% and 80% of drill intersection.
<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>	Cross section and a plan showing geology with drill collars were included with previously reported exploration results. A typical plan and cross section are included below.



Criteria	JORC Code explanation	Commentary
		
<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>	Data relating to all drill holes has been reported in previous documentation of exploration results.
<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 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.</li> </ul>	No additional or new drilling results are being reported at this time.
<i>Further work</i>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> </ul>	No further work is planned in the short term however drilling to test the continuation of mineralised structures at depth for an underground resource definition will be contemplated.
	<ul style="list-style-type: none"> <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>	A pit design has been established and material has been included in the mining schedule.

Criteria	JORC Code explanation	Commentary
		

### Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
<b>Database integrity</b>	<ul style="list-style-type: none"> <li>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</li> <li>Data validation procedures used.</li> </ul>	<p>Logging data is entered into Excel via drop down menus. All raw data is loaded directly to the Access database from the assay, logging and survey derived files.</p> <p>There are validation checks to avoid duplications of data. The data are further validated for consistency when loaded into Datamine and desurveyed.</p>
<b>Site visits</b>	<ul style="list-style-type: none"> <li>Comment on any site visits undertaken by the Competent Person and the outcome of those visits. (If no site visits have been undertaken indicate why this is the case.)</li> </ul>	<p>No site visit was undertaken by Mr Lewis prior to the initial resource estimations as the deposit is covered by a sequence of alluvial material and there is nothing to see at surface. Mr Lewis did visit the site on 25 July 2014 when he was able to view mineralisation in the open pit, view mineralisation and alteration in drill core and assess the drill sampling and QAQC techniques.</p> <p>The quoted resources were compiled by Mr Terry Ransted, Chief Geologist, Alkane Resources Ltd, who has been involved with the project since 2001.</p>
<b>Geological interpretation</b>	<ul style="list-style-type: none"> <li>Confidence in (or conversely, the uncertainty of ) the geological interpretation of the mineral deposit.</li> <li>Nature of the data used and of any assumptions made.</li> </ul>	<p>The geological model is built on structural data from core and lithological logging. The lode strike orientations are similar to Wyoming Three which sits in a similar structural position.</p> <p>Structural measurements from oriented drill core were used to assist in the geological interpretation along with lithological, alteration and mineralisation logging of RC chips and drill core.</p>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li><i>The effect, if any, of alternative interpretations on Mineral Resource estimation.</i></li> </ul>	A steep dipping interpretation was initially proposed however this was inconsistent with structural measurements obtained from oriented drill core.
	<ul style="list-style-type: none"> <li><i>The use of geology in guiding and controlling Mineral Resource estimation.</i></li> </ul>	<p>Geological (lithological) logging was used to develop a geological model. Alteration and mineralisation estimates along with grade guided the interpretation of the ore envelope wireframes at a nominal 0.25g/t Au lower cut-off.</p> <p>The majority of mineralisation is hosted by a quartz veined and altered feldspar ± augite porphyritic andesite of probable sub-volcanic origin.</p> <p>Dolerite dykes post-date mineralisation and all mineralised lodes are terminated at the dolerite contacts.</p>
	<ul style="list-style-type: none"> <li><i>The factors affecting continuity both of grade and geology.</i></li> </ul>	Mineralisation is directly associated with alteration and quartz veining.
<i>Dimensions</i>	<ul style="list-style-type: none"> <li><i>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</i></li> </ul>	<p>Strike length ~ 360m</p> <p>Width ~ 100m</p> <p>Depth ~ 20m from below surface to ~ 250m below surface from deepest drilling intercept.</p>
<i>Estimation and modelling techniques</i>	<ul style="list-style-type: none"> <li><i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</i></li> </ul>	<p>13 mineralisation wireframes (domains) and 5 dolerite wireframes were interpreted and used as constraints for the resource modelling. Four surfaces were also used to separate material types - topography, alluvium, saprolite and base of oxidation surfaces.</p> <p>The drill hole data were flagged by dolerite and mineralised domain wireframes in priority order, to prevent double use the data in the intersecting zones. The samples immediately outside the mineralised zones were re-flagged, if they contained more than 0.25 g/t gold, in order to prevent any overestimation that could be caused by use of assay boundaries. This re-flagging is also useful for the RC samples that are not broken at barren dyke boundaries.</p> <p>The samples were composited to 1m, the most common sample length and flagged by the topography, alluvium, saprolite and base of oxidation surfaces.</p> <p>The top-cut declustered data had Coefficient of Variation (CV's) of less than 1.7 for the mineralised zones, allowing use of Ordinary Kriging for estimation.</p> <p>Average variogram models were fitted for the mineralised zones and dolerite dykes.</p> <p>Estimates were made by Ordinary Kriging, with check estimates by Inverse Distance Squared (ID2) and Nearest Neighbour methods.</p> <p>Datamine Studio 3 V22 was used.</p> <p>The resources are limited by an indicative pit design to ensure they have reasonable prospects for eventual economic extraction.</p>
	<ul style="list-style-type: none"> <li><i>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</i></li> </ul>	There are no previous estimates or any production data to provide any validation.
	<ul style="list-style-type: none"> <li><i>The assumptions made regarding recovery of by-products.</i></li> </ul>	No assumptions made - Estimates were made for gold, arsenic and copper; only gold is of economic significance.
	<ul style="list-style-type: none"> <li><i>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</i></li> </ul>	No deleterious elements identified for estimation
	<ul style="list-style-type: none"> <li><i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i></li> </ul>	<p>The primary block size was small (2.5m x 2.5m x 5m) because of the narrow dipping nature of the mineralisation zones.</p> <p>The average drill hole spacing was 20m and variogram ranges 22m x 26m x 3.5m.</p>

Criteria	JORC Code explanation	Commentary
		<p>The primary search was equal to the variogram ranges; secondary searches were made using 2x and 3x the primary search. Only the material estimated in the primary and secondary searches were included in the resources.</p> <p>Sub-blocks were estimated but these were regularized to 2.5m x 2.5m x 2.5m blocks in March 2014 as this is more compatible with the mine planning software currently in use at the mine and the proposed mining methodology.</p>
	<ul style="list-style-type: none"> <li>Any assumptions behind modelling of selective mining units.</li> </ul>	No assumptions were made.
	<ul style="list-style-type: none"> <li>Any assumptions about correlation between variables.</li> </ul>	No assumptions were made
	<ul style="list-style-type: none"> <li>Description of how the geological interpretation was used to control the resource estimates.</li> </ul>	Only data from the same domain were used to make estimates.
	<ul style="list-style-type: none"> <li>Discussion of basis for using or not using grade cutting or capping.</li> </ul>	<p>The drill hole data were declustered using the polygonal method for statistical analysis and determination of top-cuts.</p> <p>The top cuts were selected using a combination of histograms, probability plots and cutting statistic plots (plots of cut-off grade against Coefficient of Variation (CV) and total metal).</p>
	<ul style="list-style-type: none"> <li>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</li> </ul>	<p>Estimates were made by Ordinary Kriging, with check estimates by Inverse Distance Squared (ID2) and Nearest Neighbour methods.</p> <p>The estimates were verified using several different techniques and checked for local and global variability. The checks included comparison with estimates made by different estimation methods, and against the declustered composites.</p>
Moisture	<ul style="list-style-type: none"> <li>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</li> </ul>	The tonnages were estimated on a dry tonnage basis.
Cut-off parameters	<ul style="list-style-type: none"> <li>The basis of the adopted cut-off grade(s) or quality parameters applied.</li> </ul>	The cut-off grade (0.50 g/t Gold) for open pit resources is being used for the other Tomingley deposits. This takes into account current mining costs and metallurgical recovery for similar material.
Mining factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</li> </ul>	<p>The main part of the Caloma Two deposit is likely to be mined by open pit methods. Some dilution was added when the estimated sub-block model was regularised; this reduced the gold grade above 0.50 g/t cut-off by 16% and increased tonnes by 17%. More dilution may need to be added as part of the mining reserve process.</p> <p>The resources were limited by an indicative pit design to ensure they have reasonable prospects for eventual economic extraction.</p>
Metallurgical factors or assumptions	<ul style="list-style-type: none"> <li>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</li> </ul>	<p>Metallurgical test work on Caloma Two material has not been undertaken to date however, the metallurgy of the other Tomingley deposits is well studied. It is likely that Caloma Two will have similar metallurgical characteristics.</p> <p>The Caloma deposit is currently being mined and processed with no significant differences in metallurgical recoveries from those estimated in the feasibility study.</p>
Environmental factors or assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential</li> </ul>	Project approval for the TGP was granted in July 2012 for mining from three open pits (Wyoming One, Wyoming Three and Caloma) and underground from Wyoming One deposit. Mining from the Wyoming Three and Caloma open pits commenced in December 2013 with processing of ore in February 2014.

Criteria	JORC Code explanation	Commentary
	<i>environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.</i>	Separate environmental approval is required prior to the commencement of mining from the Caloma Two deposit..
Bulk density	<ul style="list-style-type: none"> <li>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</li> </ul>	<p>Specific gravity measurements were completed by commercial laboratories on DD core samples.</p> <p>At least 5 samples if possible were selected for each of the 8 categories; weathered porphyry, weathered mineralised porphyry, fresh porphyry, fresh mineralised porphyry, weathered sediment, weathered mineralised sediment, fresh sediment, and fresh mineralised sediment. The specific gravity measurements were applied on a dry basis.</p>
	<ul style="list-style-type: none"> <li>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</li> </ul>	SG measurements completed on all material types – see above.
	<ul style="list-style-type: none"> <li>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>	No assumptions made – SG determined and individual values applied to each material type based on wire-framed surfaces
Classification	<ul style="list-style-type: none"> <li>The basis for the classification of the Mineral Resources into varying confidence categories.</li> </ul>	<p>The resources were classified using the search pass; only estimates made within the defined mineralisation zones in the first search pass were classified as Indicated Resources. The dimensions of the search pass were based on the variogram ranges.</p> <p>No Measured Resources were defined, because of some uncertainty in the geological interpretation of the mineralisation zones, and the use of a high proportion of Reverse Circulation drilling (RC) for exploration.</p>
	<ul style="list-style-type: none"> <li>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</li> </ul>	The use of RC drilling limits the amount of geological information that can be logged, and boundaries of mineralisation zones cannot be precisely located.
	<ul style="list-style-type: none"> <li>Whether the result appropriately reflects the Competent Person's view of the deposit.</li> </ul>	The classification reflects the Competent Persons view of the deposit and its supporting data
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of Mineral Resource estimates.</li> </ul>	As this is the first mineral resource estimation for this deposit, there have not been any audits or reviews.
Discussion of relative accuracy/confidence	<ul style="list-style-type: none"> <li>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</li> </ul>	<p>The Caloma Two deposit consists of 13 narrow mineralisation zones; consequently there are relatively few drill hole data in each zone. This has limited the accuracy of any fitted variogram model and forced the use of average variogram models. The use of an approximate variogram model does not greatly affect the accuracy of the kriged grades as kriging is a very robust estimation process. It does, however, limit the accuracy of the variance of the estimates and any confidence limits that might be statistically inferred.</p> <p>No statistical or geostatistical method (non-linear or simulation) was used to quantify the relative accuracy of the estimate within confidence limits. Accuracy of the estimate is strongly dependent on:</p> <ul style="list-style-type: none"> <li>accuracy of the interpretation and geological domaining;</li> <li>accuracy of the drill hole data (location and values);</li> <li>orientation of local anisotropy; and</li> <li>estimation parameters which are reflected in the global resource classification.</li> </ul>



Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li><i>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</i></li> </ul>	<p>The resources are global, being based on drill hole data at exploration spacing.</p> <p>To ensure the resources have 'reasonable prospects of eventual economic extraction' the resources have been restricted by an indicative optimistic pit shell estimated at a gold price of \$2000 per ounce with the potential open pit component assessed at <math>\geq 0.5\text{g/t}</math> gold cut off and material outside of the indicative pit with potential for eventual extraction by underground mining methods assessed at <math>\geq 1.75\text{g/t}</math> gold.</p>
	<ul style="list-style-type: none"> <li><i>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i></li> </ul>	<p>There has not been any production from Caloma Two.</p>

## APPENDIX 2

### JORC Code, 2012 Edition – Table 1 Section 4 Estimation and Reporting of Ore Reserves

(Criteria listed in section 1, and where relevant in sections 2 and 3, also apply to this section.)

Criteria	JORC Code explanation	Commentary							
<b>Mineral Resource estimate for conversion to Ore Reserves</b>	<ul style="list-style-type: none"> <li>Description of the Mineral Resource estimate used as a basis for the conversion to an Ore Reserve.</li> </ul>	<p>The mineral resources used as a basis for the conversion to the ore reserve are those outlined in Appendix 1.</p> <p>The following table comprises the Mineral Resources for the Tomingley Gold Project which were compiled by Mr Terry Ransted, Chief Geologist for Alkane.</p>							
<b>TOMINGLEY GOLD PROJECT MINERAL RESOURCES (as at 30 June 2015)</b>									
DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Open Pittable Resources (cut off 0.50g/t Au)									
Wyoming One	2,171	1.7	442	1.5	735	1.1	3,348	1.5	167
Wyoming Three	206	1.7	122	1.7	2	1.1	330	1.7	18
Caloma	2,167	1.9	582	1.7	2,008	1.5	4,757	1.7	259
Caloma Two	-	-	1,085	2.4	704	1.3	1,789	2.0	112
<b>Sub Total</b>	<b>4,543</b>	<b>1.8</b>	<b>2,231</b>	<b>2.0</b>	<b>3,450</b>	<b>1.4</b>	<b>10,224</b>	<b>1.7</b>	<b>556</b>
Underground Resources (cut off 2.50g/t Au)									
Wyoming One	168	4.8	205	4.4	361	4.2	735	4.4	104
Wyoming Three	12	3.6	20	4.5	25	3.3	57	3.8	7
Caloma	0	3.1	4	2.9	81	3.2	84	3.2	9
Caloma Two	-	-	92	3.5	63	3.2	155	3.3	17
<b>Sub Total</b>	<b>180</b>	<b>4.7</b>	<b>321</b>	<b>4.1</b>	<b>530</b>	<b>3.9</b>	<b>1,031</b>	<b>4.1</b>	<b>136</b>
<b>TOTAL</b>	<b>4,724</b>	<b>1.9</b>	<b>2,552</b>	<b>2.3</b>	<b>3,979</b>	<b>1.7</b>	<b>11,255</b>	<b>1.9</b>	<b>692</b>
<b>Site visits</b>	<ul style="list-style-type: none"> <li>Comment on any site visits undertaken by the Competent Person and the outcome of those visits.</li> <li>(If no site visits have been undertaken indicate why this is the case.)</li> </ul>					<p>The Competent Person for the Ore Reserves, Mr. John Millbank is an independent consultant engaged by Tomingley Gold Operations Pty Ltd (TGO), a whole owned subsidiary of Alkane. Mr Millbank has contributed to the mine planning processes at TGO since commencement of operations in 2013, and has been closely involved with site operations since this time.</p> <p>A specific site visit for the Ore Reserves calculations was completed from the 24<sup>th</sup> to the 28<sup>th</sup> of August 2015.</p>			
<b>Study status</b>	<ul style="list-style-type: none"> <li>The type and level of study undertaken to enable Mineral Resources to be converted to Ore Reserves.</li> <li>(The Code requires that a study to at least Pre-Feasibility Study level has been undertaken to convert Mineral Resources to Ore Reserves. Such studies will have</li> </ul>					<p>The Tomingley Gold Mine is an operational open pit mining operation with an operating CIP processing plant based on the mining and treatment of ore from two open pits – Caloma and Wyoming Three. It is planned to mine ore from two further open pits being Wyoming One and Caloma Two. The TGO processing plant utilises two stage crushing, single stage</p>			

	<p><i>been carried out and will have determined a mine plan that is technically achievable and economically viable, and that material Modifying Factors have been considered.)</i></p>	<p>grinding and a gravity/CIL gold recovery circuit. The plant has a designated throughput of 1.25mtpa of oxide ore and 1.0mtpa of fresh (sulphide) ore. Construction of the treatment plant ended in January 2014 with first gold poured as part of commissioning in February 2014.</p> <ul style="list-style-type: none"> <li>• The Tomingley Gold Mine was subject to a Definitive Feasibility Study (DFS) including the estimation of an initial Mineral Resource and Ore Reserve for the Wyoming One, Wyoming Three and Caloma open pits (2009, 2009 and 2012 respectively). The current Ore Reserve has been calculated by the Competent Person using the designed pits and associated depletion as at the end of 30 June 2015.</li> <li>• Pre-strip mining of waste within the Wyoming Three and Caloma open pits commenced in November 2013 and the mining of ore in January 2014. The pre stripping was completed by a Contractor and the mining fleet is dry hired and operated by TGO personnel.</li> <li>• Pre strip mining of waste for Wyoming 1 open pit has commenced using the dry hire mining fleet and TGO personnel</li> <li>• The Site has been operational since January 2014 and is achieving the design objectives set out in the DFS. The Modifying Factors in the DFS are being achieved. The end of June 2015 mine survey information has been used to differentiate material mined from in-situ material.</li> </ul>
<p><b>Cut-off parameters</b></p>	<ul style="list-style-type: none"> <li>• <i>The basis of the cut-off grade(s) or quality parameters applied.</i></li> </ul>	<ul style="list-style-type: none"> <li>• A lower block cut off grade of 0.5g/t Au has been applied to the 'diluted' resource block model in calculating this Ore Reserve. The lower cut has been selected with consideration to mineability, and incremental cash operating margins (i.e. processing costs).</li> <li>• The lower cutoff has been calculated based upon, <ul style="list-style-type: none"> <li>- a \$1600 per ounce gold price net of royalties,</li> <li>- using lower than average metallurgical recoveries, and</li> <li>- estimated processing and administration costs for the life of mine plan.</li> </ul> </li> </ul>
<p><b>Mining factors or assumptions</b></p>	<ul style="list-style-type: none"> <li>• <i>The method and assumptions used as reported in the Pre-Feasibility or Feasibility Study to convert the Mineral Resource to an Ore Reserve (i.e. either by application of appropriate factors by optimisation or by preliminary or detailed design).</i></li> <li>• <i>The choice, nature and appropriateness of the selected mining method(s) and other mining parameters including associated design issues such as pre-strip, access, etc.</i></li> <li>• <i>The assumptions made regarding geotechnical parameters (eg pit slopes, stope sizes, etc), grade control and pre-production drilling.</i></li> <li>• <i>The major assumptions made and Mineral Resource model used for pit and stope optimisation (if appropriate).</i></li> </ul>	<p>Open cut truck excavator mining, with some free dig material in the upper oxide zones and drill and blast in the lower oxide and fresh materials.</p> <ul style="list-style-type: none"> <li>• Equipment size and methods selected typical of moderate scale open pit gold mining. 190 and 120 tonne class excavators, 90 tonne mechanical drive haul trucks.</li> <li>• Both the Caloma and the Wyoming Three pits were pre stripped by a mining contractor.</li> <li>• Dual lane in pit ramps at 24 m wide and 1:8.5 gradient for the majority of the pits. Single lane ramps at 15m wide have been designed to access the final stages of the mine.</li> <li>• Mining is on five metre high benches and is mined in two, two and a half metre high flitches, to reduce mining dilution. These flitch heights are typical for gold mining and match the size of mining equipment selected.</li> <li>• In Pit ore boundaries are defined by Reverse Circulation Grade control drilling on 10 metre by 10 metre to 10 metre by 5 metre patterns depending on the size and quality of the mineralisation being grade controlled.</li> <li>• Geotechnical parameters as advised by specialised geotechnical consultants for Wyoming One, Wyoming Three and Caloma. No geotechnical studies have been undertaken at Caloma Two however given the proximity to the Caloma open pit and the very similar geological environment, parameters are expected to be similar.</li> </ul> <p>Pit Optimisation parameters have been confirmed to an appropriate level of accuracy through subsequent mining operations. Parameters have been applied directly to designs, and these designs have then been subjected to financial analysis, to confirm profitability.</p>

	<ul style="list-style-type: none"> <li>The mining dilution factors used.</li> </ul>	<ul style="list-style-type: none"> <li>Ore reserve is based on a sub blocked resource model that has been regularised to allow for dilution and ore loss.</li> <li>On comparison with the sub-block resource model, the regularised models have the following inherent dilutions. <ul style="list-style-type: none"> <li>-Wyoming One – 6%,</li> <li>-Wyoming Three – 10%,</li> <li>-Caloma – 12% and</li> <li>-Caloma Two - 19%.</li> </ul> </li> </ul> <p>The regularisation takes into account the overall dimensions and geometry of the individual ore zones and assigns grade based on a 2.5m vertical extent.</p> <p>Wyoming 3 has been based on a grade control model that uses closely spaced drilling for the last 40 vertical metres of mining. Reconciliation of grade control drilling versus mill production to date in Wyoming 3 shows the drilling underestimates by approximately 10% on ounces fed.</p>
	<ul style="list-style-type: none"> <li>The mining recovery factors used.</li> </ul>	Assumed 100% recovery of the regularised model, due to large dilution from regularised models and the ore lost in the regularisation process.
	<ul style="list-style-type: none"> <li>Any minimum mining widths used.</li> </ul>	Mining assumes facing up ore zones. Ore block mining size of 2.5 metre X 2.5 metre X 2.5 metre, based upon the regularised block size in the ore reserve model.
	<ul style="list-style-type: none"> <li>The manner in which Inferred Mineral Resources are utilised in mining studies and the sensitivity of the outcome to their inclusion.</li> </ul>	<ul style="list-style-type: none"> <li>Inferred resources contained in the mineralised ore wireframes are included in the current life of mine schedule. Proportion of inferred in pit resource at commencement for total project – 24% of the total ore tonnes and 16% the total ounces.</li> </ul> <p>Reconciliations to date for Caloma and Wyoming 3 show the regularized models are generally under reporting tonnes, grade and contained ounces against mill feed and recovered gold. This is based on total material mined, including the inferred component of the resource. Consequently, excluding the inferred component from any mining studies and schedules will show significant under reporting of contained metal in that study.</p>
	<ul style="list-style-type: none"> <li>The infrastructure requirements of the selected mining methods.</li> </ul>	<ul style="list-style-type: none"> <li>All required infrastructure is currently in place. Tailings storage facilities will require continued uplifts, and these have been allowed for in process costs.</li> </ul>
<b>Metallurgical factors or assumptions</b>	<ul style="list-style-type: none"> <li>The metallurgical process proposed and the appropriateness of that process to the style of mineralisation.</li> </ul>	Ore from the Tomingley Project will be treated at the Tomingley Gold Plant which is described above.
	<ul style="list-style-type: none"> <li>Whether the metallurgical process is well-tested technology or novel in nature.</li> </ul>	The technology is well tested
	<ul style="list-style-type: none"> <li>The nature, amount and representativeness of metallurgical test work undertaken, the nature of the metallurgical domaining applied and the corresponding metallurgical recovery factors applied.</li> </ul>	The LOM plan uses 96% metallurgical recovery for oxide and 91% for fresh for an overall recovery of 93%. Each pit, except Caloma Two, has had specific metallurgical test work undertaken for the DFS which is made up of leach and gravity recovery. The metallurgical test work is representative of all material types and areas of the ore bodies. The range of recoveries used are within the parameters of the individual pit recoveries. Caloma Two has no known reason to have different metallurgical characteristics to Caloma.
	<ul style="list-style-type: none"> <li>Any assumptions or allowances made for deleterious elements.</li> </ul>	No deleterious elements extracted
	<ul style="list-style-type: none"> <li>The existence of any bulk sample or pilot scale test work and the degree to which such samples are considered representative of the ore body as a whole.</li> </ul>	The most recent operational recoveries were 93.4% for material from Caloma and Wyoming Three. This includes a combination of fresh and oxide material, and confirms the overall recovery of 93%
	<ul style="list-style-type: none"> <li>For minerals that are defined by a specification, has the ore reserve estimation been based on the appropriate mineralogy to meet the specifications?</li> </ul>	N/A – no minerals defined by a specification

<p><b>Environmental</b></p>	<ul style="list-style-type: none"> <li>The status of studies of potential environmental impacts of the mining and processing operation. Details of waste rock characterisation and the consideration of potential sites, status of design options considered and, where applicable, the status of approvals for process residue storage and waste dumps should be reported.</li> </ul>	<ul style="list-style-type: none"> <li>All environmental approvals are in place for operating within the Wyoming One, Wyoming Three and Caloma pit.</li> <li>Development approval is required prior to commencement of the Caloma Two open pit, and also the recently included Caloma Cutback.</li> <li>The waste dump for Caloma Cutback and Caloma Two will be incorporated into WRE3, the Caloma waste dump. A variation to the Mine Operating Plan may be required to extend the height or footprint of the existing waste rock emplacement depending on final volumes mined. Alternative storage such as placing backfill into existing voids may be investigated. Subsequent approval to any variation on the Mine Operating Plan will be required.</li> <li>The proposed Caloma Cutback and Caloma Two operations are within the existing granted mining lease.</li> <li>There is sufficient volume in the RSF design to allow for the material defined in the original DFS. (Caloma, Wyoming 1, and Wyoming 3). A variation to the Mine Operating Plan may be required to extend the height or footprint of the existing RSF to accommodate Caloma Two and Caloma Cutback material, depending on final volumes mined. Alternative storage such as placing backfill into existing voids may be investigated, along with technologies to increase tailings density into the existing RSF. Subsequent approval to any variation on the Mine Operating Plan will be required.</li> </ul>
<p><b>Infrastructure</b></p>	<ul style="list-style-type: none"> <li>The existence of appropriate infrastructure: availability of land for plant development, power, water, transportation (particularly for bulk commodities), labour, accommodation; or the ease with which the infrastructure can be provided, or accessed.</li> </ul>	<ul style="list-style-type: none"> <li>Infrastructure has already been constructed for open pit mining and processing. Works to site included access road, a water pipeline, a 66 KV power line, site drainage, topsoil stockpiling, waste dump construction, Residue Storage Dams, Process Water Dams, associated offices, workshops, fuel and laydown areas. Sufficient site infrastructure has been constructed to process ore at 1.25 MTPA.</li> <li>There are no additional major works for Caloma Two, or the Caloma Cutback may require expansion of the existing waste rock and residue storage facilities. Costs have been allowed in the cut off grade calculations for these.</li> <li>The site relies upon local employment drawing employees from Tomingley, Peak Hill, Dubbo and Parkes Region.</li> </ul>
<p><b>Costs</b></p>	<ul style="list-style-type: none"> <li>The derivation of, or assumptions made, regarding projected capital costs in the study.</li> <li>The methodology used to estimate operating costs.</li> <li>Allowances made for the content of deleterious elements.</li> <li>The source of exchange rates used in the study.</li> <li>Derivation of transportation charges.</li> </ul>	<p>No allowance was made for capital costs in this ore reserve analysis although pre-stripping of waste may be capitalised. The economic analysis is based on total cash costs. Expansion of WRE and RSF facilities are included in operating costs.</p> <ul style="list-style-type: none"> <li>Operating costs – Mining and Process <ul style="list-style-type: none"> <li>Current wage rates.</li> <li>Projected fuel price for 2015/16</li> <li>Current contract rates for equipment hire, drilling contractor and explosive supplier.</li> <li>Current explosives costs and estimates of requirements for blast hole drilling, blasting, excavation and processing based on the varying rock types.</li> <li>Current work rates and OEM specs for excavator productivity.</li> <li>Truck hours based on OEM specs and projected haul cycles from mine plan.</li> <li>Contract Prices for Processing Consumables</li> <li>Current contract prices for power and estimated usage</li> <li>Associated onsite administration cost and a portion of head office costs.</li> </ul> </li> </ul> <p>N/A – No deleterious elements extracted</p> <p>Gold price is expressed in Australian dollars and no exchange rate is required.</p> <p>No transportation charges have been applied in economic analysis as these are included in the mining costs. Ore will be delivered directly from the pit to the ROM beside the existing</p>



		plant within estimated mining costs. Gold transportation costs to the Mint are included in the refining component of the milling charges assumed in the study.
	<ul style="list-style-type: none"> <li>The basis for forecasting or source of treatment and refining charges, penalties for failure to meet specification, etc.</li> <li>The allowances made for royalties payable, both Government and private.</li> </ul>	Processing operating costs outlined above.  Royalties payable at rate of 4% ex-mine value to the NSW State Government have been considered. There are no other royalties due.
<b>Revenue factors</b>	<ul style="list-style-type: none"> <li>The derivation of, or assumptions made regarding revenue factors including head grade, metal or commodity price(s) exchange rates, transportation and treatment charges, penalties, net smelter returns, etc.</li> <li>The derivation of assumptions made of metal or commodity price(s), for the principal metals, minerals and co-products.</li> </ul>	<ul style="list-style-type: none"> <li>Assume 100% ore mining recovery of the regularised Model.</li> <li>Selling costs and Royalties included in costs to give a net revenue per ounce.</li> <li>No deleterious metals present that incur smelter penalties.</li> <li>A base gold price of AUD\$1,450/oz in this ore reserve assessment.</li> <li>Exchange rates, royalties and transport charges dealt with above.</li> </ul> No assumptions made
<b>Market assessment</b>	<ul style="list-style-type: none"> <li>The demand, supply and stock situation for the particular commodity, consumption trends and factors likely to affect supply and demand into the future.</li> <li>A customer and competitor analysis along with the identification of likely market windows for the product.</li> <li>Price and volume forecasts and the basis for these forecasts.</li> <li>For industrial minerals the customer specification, testing and acceptance requirements prior to a supply contract.</li> </ul>	<ul style="list-style-type: none"> <li>There is a transparent quoted derivative market for the sale of gold;</li> <li>The Dore Gold is sent to the Perth Mint at commercial rates for refining.</li> <li>The Tomingley Gold Operations Pty Ltd sell the gold into the open market for the majority of metal produced, however the Company currently has contracts in place to sell approximately 25,000 ounces at \$1597 per ounce.</li> </ul> N/A There is a transparent quoted derivative market for the sale of gold  N/A There is a transparent quoted derivative market for the sale of gold  N/A – not assessing industrial minerals
<b>Economic</b>	<ul style="list-style-type: none"> <li>The inputs to the economic analysis to produce the net present value (NPV) in the study, the source and confidence of these economic inputs including estimated inflation, discount rate, etc.</li> <li>NPV ranges and sensitivity to variations in the significant assumptions and inputs.</li> </ul>	<ul style="list-style-type: none"> <li>The operation is currently operating at a processing rate of 1.1 MTPA and has built up 4 months of ore grade stockpile.</li> <li>The preliminary analysis carried out did not estimate the NPV but rather simple cash flow based on a variety of possible gold prices; or</li> <li>For all deposits the optimal pit shell was chosen as that with the highest discounted cash flow from the Whittle Four-X pit Optimisation. The pits were designed from the chosen shell. The Whittle optimisation have low variations across the AUD1200-1600 Revenue range. Pit designs were then back calculated for undiscounted return using the Whittle input costs to ensure profitability within limits.</li> </ul> Sensitivity analysis was included in the Whittle optimisation and simple cash flow analysis. As noted above there were very low variations in the Whittle optimisations for gold prices ranging from \$1200 - 1600 per ounce.
<b>Social</b>	<ul style="list-style-type: none"> <li>The status of agreements with key stakeholders and matters leading to social licence to operate.</li> </ul>	<ul style="list-style-type: none"> <li>The TGO site is located on flat farm land with the Newell Highway separating Caloma and the Wyoming (pits and processing) side of operations. Surrounding the site is the village of Tomingley (600 m to the north) and local operating farms.</li> <li>All key stakeholder agreements are in place, including a Voluntary Planning Agreement (VPA) with the Narromine Shire Council. The Company has close working relationships with the local communities.</li> </ul>
<b>Other</b>	<ul style="list-style-type: none"> <li>To the extent relevant, the impact of the following on the project and/or on the estimation and classification of the Ore Reserves:</li> <li>Any identified material naturally occurring risks.</li> </ul>	A risk analysis was undertaken as part of the Feasibility Study and Environmental Assessment and no naturally occurring risks were identified.

	<ul style="list-style-type: none"> <li>• <i>The status of material legal agreements and marketing arrangements.</i></li> <li>• <i>The status of governmental agreements and approvals critical to the viability of the project, such as mineral tenement status, and government and statutory approvals. There must be reasonable grounds to expect that all necessary Government approvals will be received within the timeframes anticipated in the Pre-Feasibility or Feasibility study. Highlight and discuss the materiality of any unresolved matter that is dependent on a third party on which extraction of the reserve is contingent.</i></li> </ul>	<p>Majority of production is sold into the spot gold market.</p> <p>The operation is situated on a granted Mining Lease which expires in 2021. All statutory and government approvals have been obtained. A development approval is required prior to the commencement of mining at Caloma Two, and the Caloma Cutback.</p>
<b>Classification</b>	<ul style="list-style-type: none"> <li>• <i>The basis for the classification of the Ore Reserves into varying confidence categories.</i></li> <li>• <i>Whether the result appropriately reflects the Competent Person's view of the deposit.</i></li> <li>• <i>The proportion of Probable Ore Reserves that have been derived from Measured Mineral Resources (if any).</i></li> </ul>	<p>The classification of the Tomingley Gold Project Ore Reserve (June 2015) has been carried out in accordance with the recommendations of the JORC code 2012.</p> <p>Current operating performance indicates a low level of risk for achieving the stated ore reserves. This is shown by the current reconciliations with the regularised models versus the mill performance.</p> <p>No probable reserves have been derived from Measured Resources – all measured resources converted to Proved Reserves.</p>
<b>Audits or reviews</b>	<ul style="list-style-type: none"> <li>• <i>The results of any audits or reviews of Ore Reserve estimates.</i></li> </ul>	<p>The Ore Reserves have been derived from work undertaken by mining consultants prior to 2015. The current designs are in line with the work undertaken by the consulting firms.</p>
<b>Discussion of relative accuracy/confidence</b>	<ul style="list-style-type: none"> <li>• <i>Where appropriate a statement of the relative accuracy and confidence level in the Ore Reserve estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the reserve within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors which could affect the relative accuracy and confidence of the estimate.</i></li> <li>• <i>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</i></li> <li>• <i>Accuracy and confidence discussions should extend to specific discussions of any applied Modifying Factors that may have a material impact on Ore Reserve viability, or for which there are remaining areas of uncertainty at the current study stage.</i></li> </ul>	<ul style="list-style-type: none"> <li>• The resource block models from which the mining ore reserve has been derived was based on a geostatistical estimation completed by Lewis Mineral Resource Consultants who were satisfied with the resource categories quoted. Within the ore reserve estimation process the effects of included dilution have been accounted for to produce an anticipated selective mining unit grade. The effects of this dilution are more pronounced in narrow zones of mineralisation, leading to overall grade reduction and loss of some narrow zones to waste through a drop below cut off grade. <ul style="list-style-type: none"> <li>○ The material included in the LOM schedule is only material that has been estimated inside of designated ore zones. The estimated material outside of the ore zones has not been included.</li> <li>○ The Reconciliation of Proved and Probable Ore Reserve and the material mined and processed to date has exceeded the Ore Reserve in both grade and ore tonnes. The reconciliation has also been exceeded when the inferred material within the ore zones has been added to the Ore Reserve Figures. This exceedance has been based on recovered gold and as such negates any effect on ore tonnes by possible mining dilution. <ul style="list-style-type: none"> <li>• The assumption that the high grade (plus 1 g/t) and the low grade (0.5-1.0 g/t) could be wholly separated has not been proved, although low grade material is being recovered. This has resulted in more high grade material and less low grade material than as predicted in the DFS. This will affect the stockpiling strategy as set out in the DFS.</li> <li>• The materials mined and processed for the year ending June 30 2015 have included oxide and fresh materials. Approximately 20% of mill feed for the year has been fresh material. So far there has been no indication that feeding fresh material will have a negative impact on mine reconciliation. Mill performance has been within limits for the fresh material fed to date.</li> <li>• Indications to date are that the Ore Reserve should be considered to be conservative in both tonnes and grade. It is likely that the pits will recover more tonnes and possibly grade than what is contained in the Proved and Probable Ore Reserve. There is a case that the inferred material inside of the outlined ore zones should be considered in the LOM calculations.</li> </ul> </li> </ul> </li> </ul>

- *It is recognised that this may not be possible or appropriate in all circumstances. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.*

Current operating performance indicates a low level of risk for achieving the stated ore reserves. This is shown by the current reconciliations with the regularised models versus the mill performance.

**Caloma 1 Reconciliation**

	Predicted Tonnes	Grade (g/t)	Contained Ounces
Regularised Resource Model versus Mill	-9%	+3%	-6%

**Wyoming3 Reconciliation**

	Predicted Tonnes	Grade (g/t)	Contained Ounces
Regularised Resource Model versus Mill	-12%	-18%	-27%