

5 December 2019



Roswell and San Antonio Resource Definition Drilling Update *Additional high grade gold intercepts*

- A 60,000 metre resource definition drilling program on the San Antonio and Roswell prospects to the immediate south of the Tomingley Gold Operations (TGO) mine and processing facility is in progress. Assay results have been received for a further ~10,000 metres, and now total 28,868 metres to date.

- Latest significant intercepts from the Roswell prospect include:

RWRC159 3 metres grading 3.31g/t Au from 120 metres;
and 30 metres grading 3.45g/t Au from 180 metres;
incl 3 metres grading 28.3g/t Au from 183 metres;

RWRC172 10 metres grading 32.1g/t Au from 199 metres;
incl 2 metres grading 139.5g/t Au from 199 metres.

- Latest significant intercepts from the San Antonio prospect include:

RWRC141 9 metres grading 4.06g/t Au from 42 metres (base of alluvium);
and 6 metres grading 3.18g/t Au from 66 metres;
incl 3 metres grading 5.98g/t Au from 66 metres;

RWRC151 28 metres grading 2.94g/t Au from 215 metres;
incl 3 metres grading 9.65g/t Au from 222 metres;
also 2 metres grading 10.51g/t Au from 231 metres.

- The drilling is part of an extensive regional exploration program aimed at providing additional ore feed, either at surface or underground, in the future to Tomingley Gold Operations (TGO).
- First phase Roswell drilling is complete, samples are now being prepared and assayed and will form part of an initial resource that is expected to be released in December. San Antonio drilling is continuing.

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Tomingley Gold Project

Alkane Resources Ltd 100%

The Tomingley Gold Project (TGP) covers an area of approximately 440km² stretching 60km north-south along the Newell Highway from Tomingley in the north, through Peak Hill and almost to Parkes in the south. The TGP contains Alkane's currently operating Tomingley Gold Operations (TGO), an open pit mine with a 1Mtpa processing facility that is transitioning to underground through 2019.

Over the last year Alkane has conducted an extensive regional exploration program with the objective of defining additional resources that have the potential to be mined either via open pit or underground operations and fed to TGO. The program yielded broad, shallow high grade intercepts that demonstrate potential for material project life extension and show that a return to open pit mining and / or underground extension is possible with appropriate resource confirmation, landholder agreement and regulatory approvals.

San Antonio - Roswell Prospect Resource Definition Drilling

Significant broad high grade results were reported from the completion of a 17,519 metre RC and diamond core drilling program for the Roswell and San Antonio prospects (ASX announcements 1 February 2019, 29 March 2019 and 12 June 2019) 3km to 4km south of TGO as well as the El Paso prospect (ASX announcement 17 May 2019). A conceptual Exploration Target was subsequently reported (ASX announcement 9 July 2019).

A 60,000 metre resource definition drilling program was initiated in June 2019 at the Roswell and San Antonio prospects. The first three rounds of results for the initial 18,208 metres were announced to the ASX on 12 August 2019, 23 September 2019 and 6 November 2019. Assay results have now been received for a further 10,660 metres of drilling.

The drilling is being undertaken:

- to define an initial inferred resource at the Roswell and San Antonio prospects with a nominal 40 metre by 40 metre drill hole spacing to a minimum 200 metre vertical depth;
- is part of a 60,000 metres drilling program comprising approximately 10,000 metres of diamond core drilling and 50,000 metres of RC drilling.

For the drilling being reported:

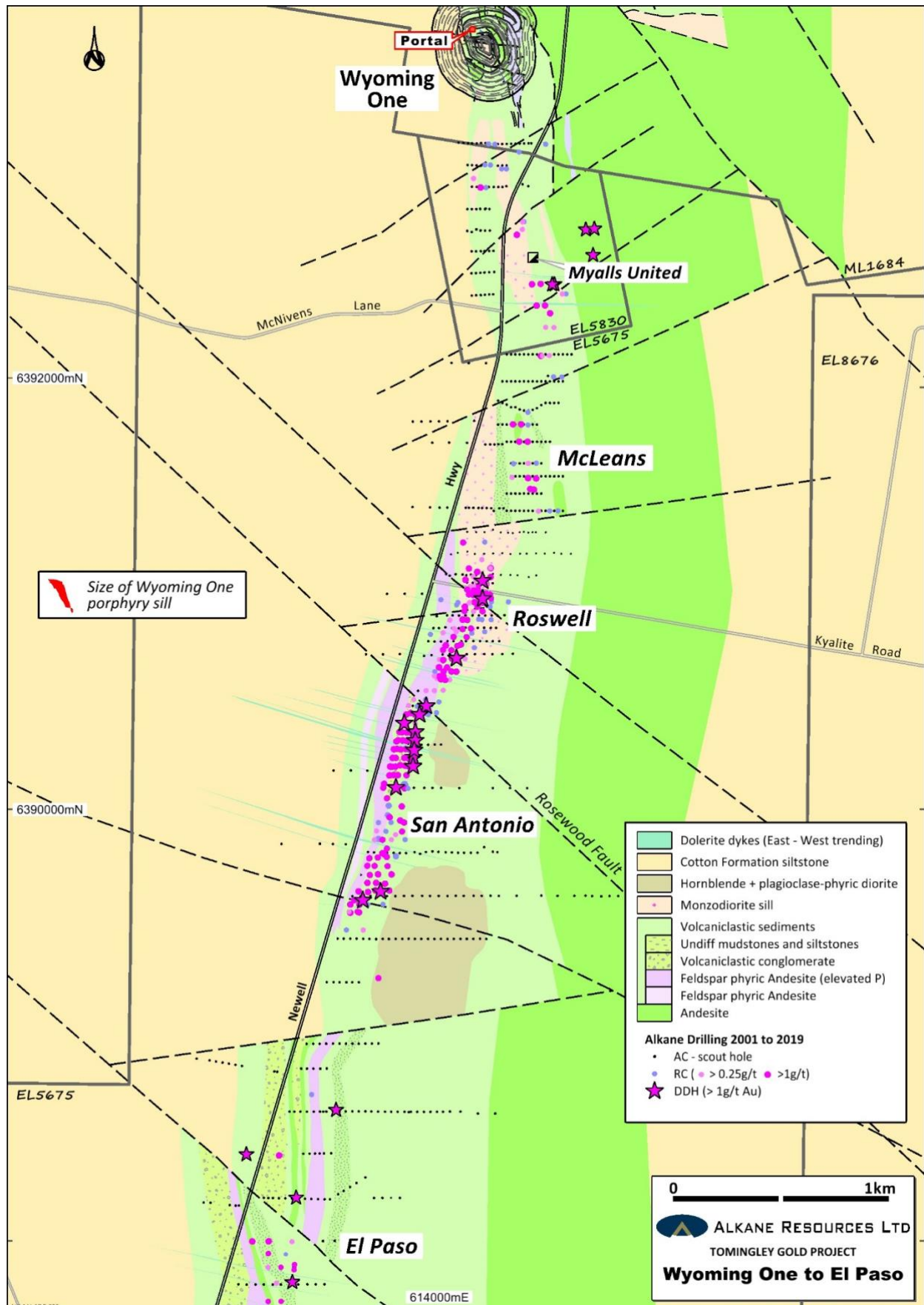
- assay results were received for 10,660 metres targeting the San Antonio and Roswell prospects;
- 3 metre composite samples were assayed however, where strong mineralisation is observed by the site geologist it was directly assayed at 1 metre intervals. Assaying of 1 metre re-split samples of 3 metre composites is ongoing;
- these drilling results comprise of 46 RC holes (9,417m) and 4 diamond core drill holes (1,243m), focused on the Roswell prospect and its northern extensions (MCP series), and the San Antonio prospect; and
- a representative section for San Antonio at N6389780 (RWRC037, 141, 142, 143) is included on page 6.

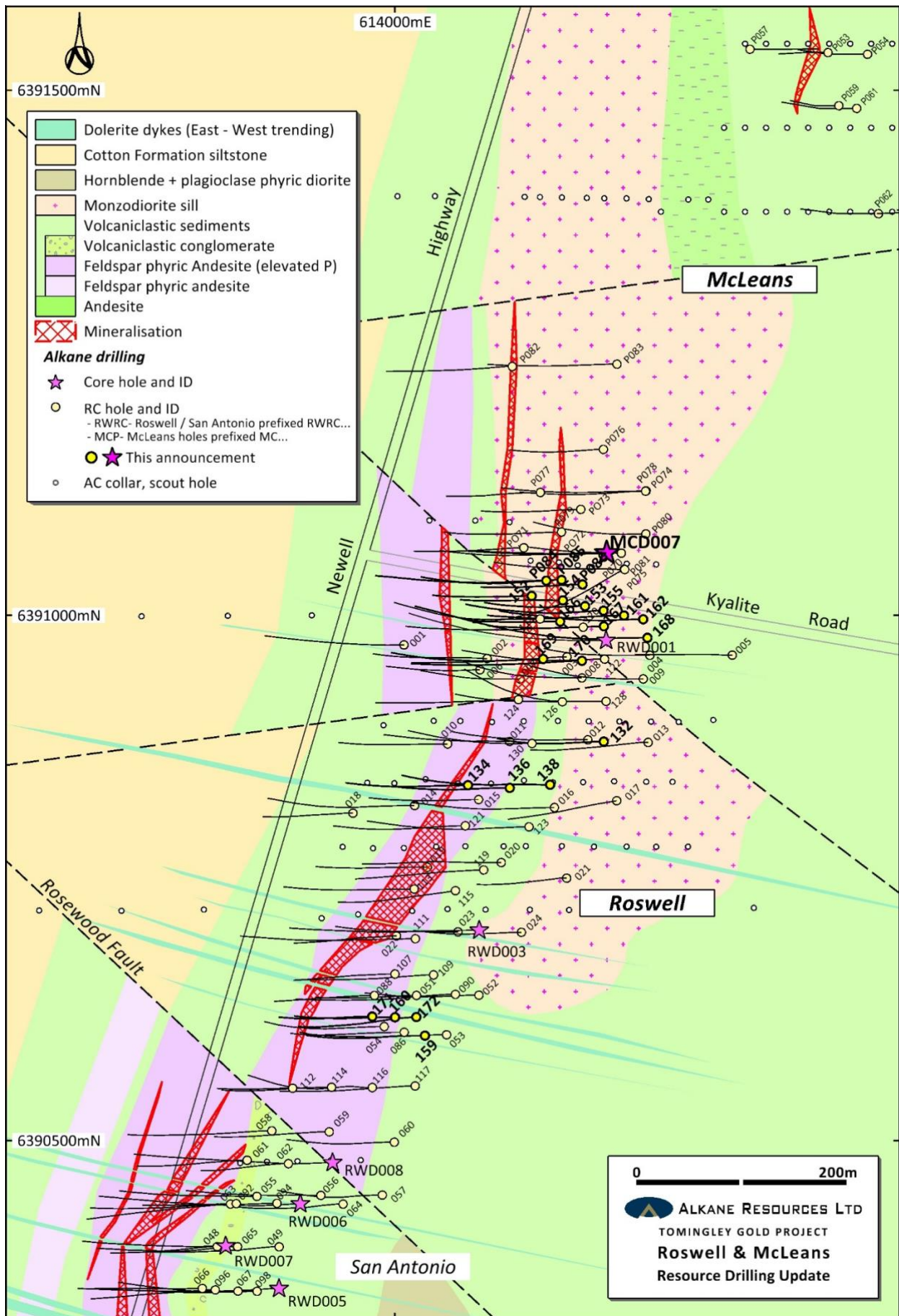
The initial phase of drilling to 40 by 40 metre spacing at Roswell is now complete. Samples are currently being prepared for assay, and results will be incorporated into an initial inferred resource which is expected to be released in December.

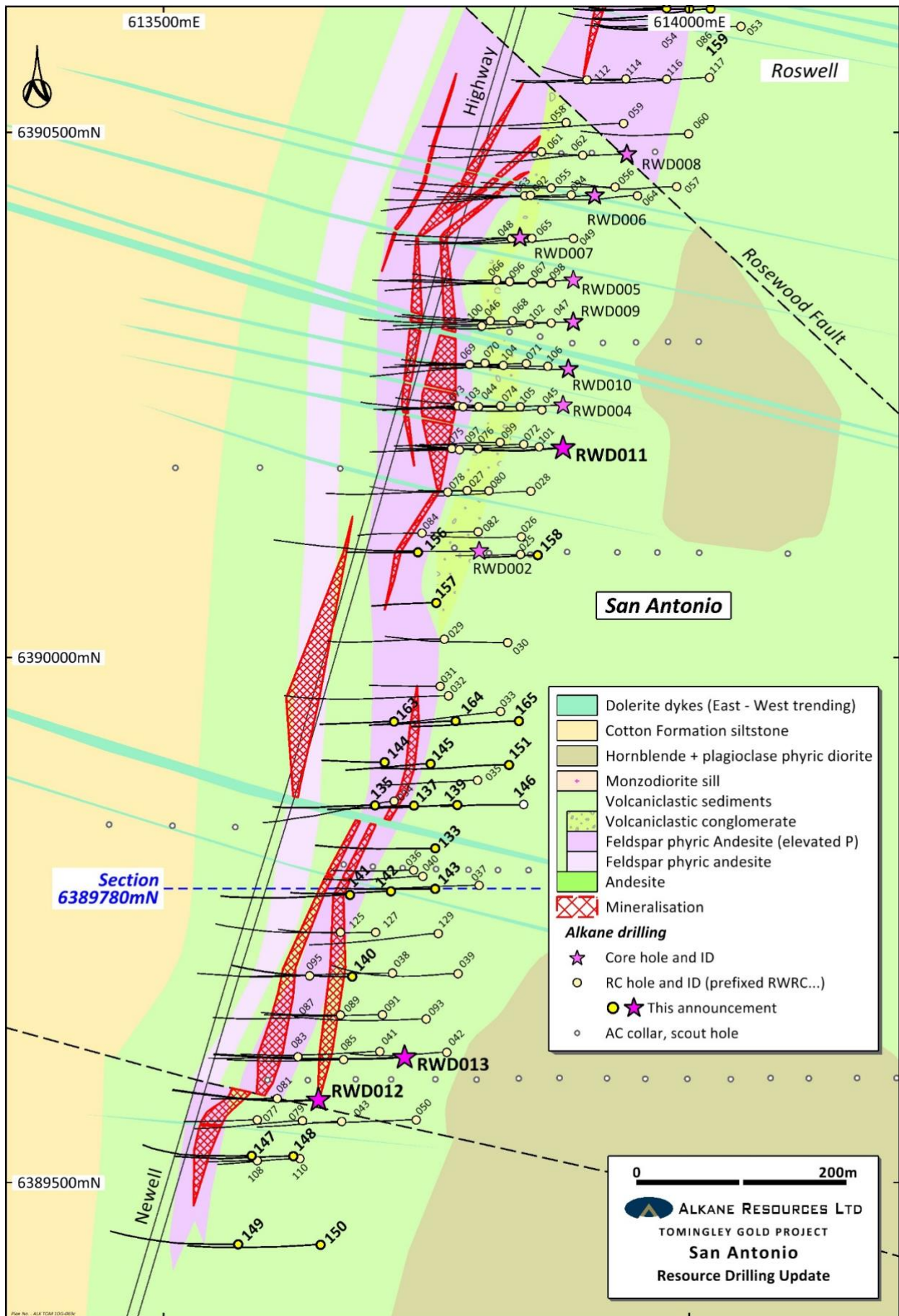
Difficult drilling conditions in the southern portion of San Antonio prospect area have caused early abandonment of some drill holes. A specialist collaring and casing tool has been ordered, and drilling in this area has been postponed. This means that the initial inferred resource for San Antonio is now expected in February 2020. Drilling continues in other areas whilst waiting for arrival of the collaring and casing tool, including some of the 20 metre infill lines that were scheduled for later in the program.



All assay results of >0.5g/t Au are summarised in the Table below. The exploration results detailed below have been prepared and reported in accordance with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.







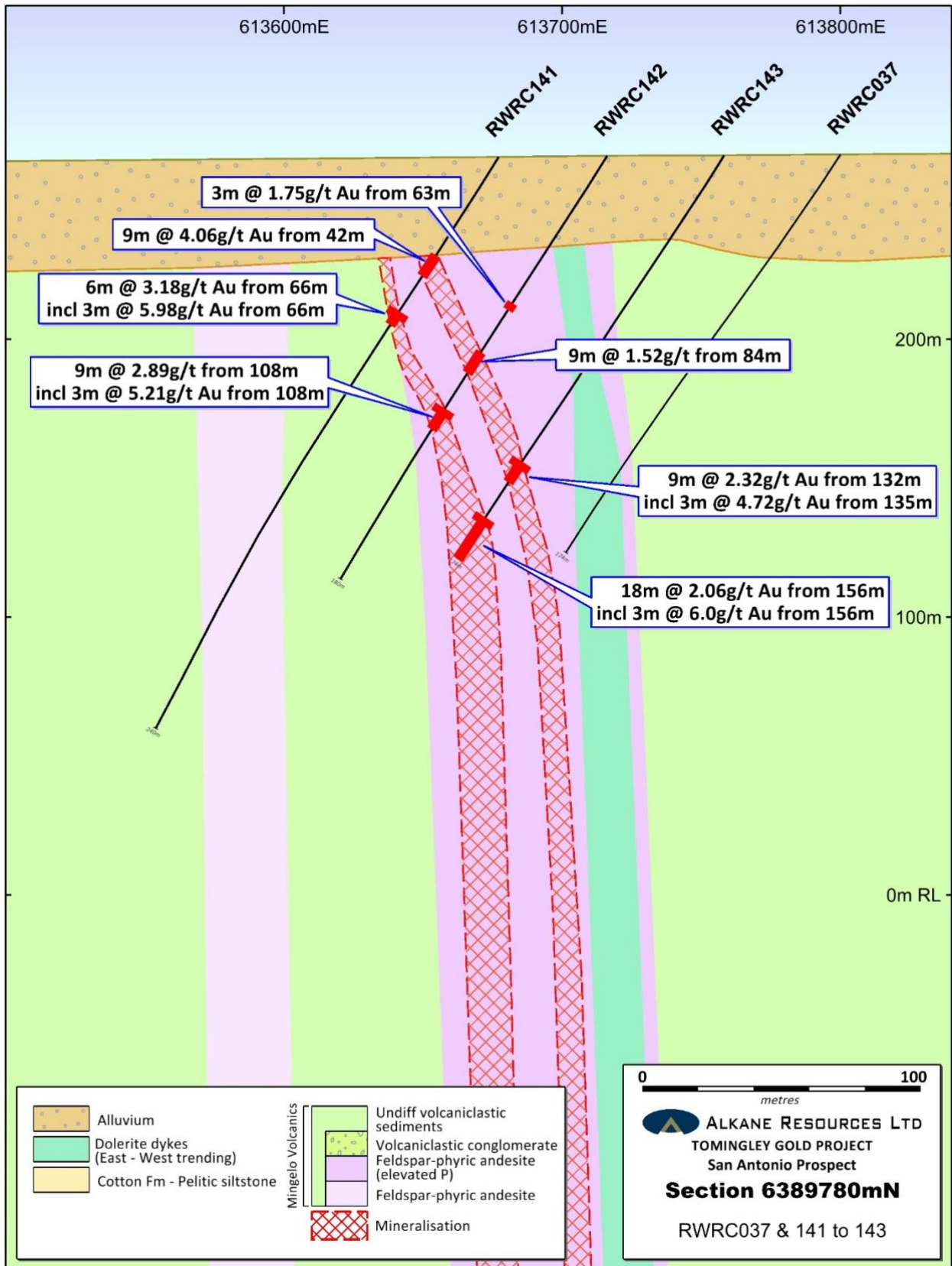




Table 1 - TOMINGLEY GOLD PROJECT RC AND DIAMOND DRILLING – December 2019 (>0.5g/t Au)

Hole ID	Easting (MGA)	Northing (MGA)	RL (m)	Dip	Azimuth (Grid)	Total Depth	Interval From (m)	Interval To (m)	Intercept (m)	Au (g/t)	Prospect
RWD011	613880	6390199	267	-60	270.08	308.8	191	195	4	0.55	San Antonio
<i>and</i>							198	199	1	0.68	
<i>and</i>							200	209	9	2.06	
<i>incl</i>							200.8	202	1.2	5.56	
<i>and</i>							268	271	3	0.72	
RWD012	613647	6389579	266	-60	270	295.8	44	47	3	0.64	
<i>and</i>							197	205	8	1.21	
<i>incl</i>							204	205	1	6.56	
<i>and</i>							211	215	4	0.68	
<i>and</i>							269	270	1	2.72	
<i>and</i>							272	273.9	1.9	0.93	
RWD013	613729	6389619	266	-60	270	380.3	291	297	6	0.65	
<i>and</i>							334	335	1	1.01	
<i>and</i>							337	338	1	0.54	
RWRC133	613758	6389818	266	-58	270	222	99	109	10	0.81	
RWRC135	613701	6389859	265	-58	270	180*	<i>Hole abandoned early</i>				
RWRC137	613738	6389859	266	-58	270	156	57	66	9	1.31	
RWRC139	613779	6389860	266	-58	270	162	139	140	1	0.55	
<i>and</i>							142	143	1	0.54	
RWRC140	613679	6389696	266	-58	270	230	39	51	12	1.3	
<i>incl</i>							42	45	3	3.59	
<i>and</i>							66	81	15	1.52	
RWRC141	613677	6389774	266	-58	270	240	42**	51	9	4.06	
<i>and</i>							66	72	6	3.18	
<i>incl</i>							66	69	3	5.98	
RWRC142	613716	6389777	266	-58	270	180	57	60	3	0.58	
<i>and</i>							63	66	3	1.75	
<i>and</i>							84	93	9	1.52	
<i>and</i>							108	117	9	2.89	
<i>incl</i>							108	111	3	5.21	
<i>and</i>							123	126	3	0.65	
RWRC143	613758	6389780	266	-58	270	174*	132	141	9	2.32	
<i>incl</i>							135	138	3	4.72	
<i>and</i>							156	174*	18	2.06	
<i>incl</i>							156	159	3	6.00	
RWRC144	613710	6389900	266	-58	270	111*	<i>Hole abandoned early</i>				
RWRC145	613754	6389899	266	-58	270	156	<i>No significant results</i>				
RWRC146	613841	6389860	267	-58	270	144*	<i>Hole abandoned early</i>				
RWRC147	613584	6389526	266	-58	270	210	75	78	3	0.65	
<i>and</i>							84	87	3	0.65	
RWRC148	613623	6389525	266	-58	270	210	66	72	6	6.33	
<i>incl</i>							66	69	3	11.75	
<i>and</i>							110	111	1	0.68	
<i>and</i>							113	115	2	5.59	
<i>incl</i>							114	115	1	10.2	
<i>and</i>							122	126	4	1.47	
<i>and</i>							168	171	3	0.54	



Table 1 - TOMINGLEY GOLD PROJECT RC AND DIAMOND DRILLING – December 2019 (>0.5g/t Au)

Hole ID	Easting (MGA)	Northing (MGA)	RL (m)	Dip	Azimuth (Grid)	Total Depth	Interval From (m)	Interval To (m)	Intercept (m)	Au (g/t)	Prospect
<i>and</i>							183	186	3	1.28	San Antonio
RWRC149	613571	6389441	265	-58	270	222	<i>No significant results</i>				
RWRC150	613649	6389441	266	-58	270	240	<i>No significant results</i>				
RWRC151	613829	6389898	267	-58	270	264	204	210	6	1.04	
<i>incl</i>							204	205	1	3.97	
<i>and</i>							215	243	28	2.94	
<i>incl</i>							222	225	3	9.65	
<i>also</i>							231	233	2	10.51	
RWRC156	613742	6390100	266	-58	270	126*	48**	57	9	3.26	
<i>incl</i>							48**	51	3	8.27	
RWRC157	613759	6390052	266	-58	270	115*	78	81	3	1.70	
RWRC158	613856	6390097	267	-58	270	102*	<i>Hole abandoned early</i>				
RWRC163	613719	6389939	266	-58	270	132*	<i>Hole abandoned early</i>				
RWRC164	613778	6389939	267	-58	270	150*	<i>Hole abandoned early</i>				
RWRC165	613838	6389939	267	-58	270	192*	178	181	3	0.81	
<i>and</i>							186	192*	6	8.39	
RWRC132	614199	6390880	268	-58	270	192*	<i>Hole abandoned early</i>				
RWRC134	614069	6390838	268	-58	270	216	106	107	1	0.51	
RWRC136	614109	6390836	268	-58	270	210*	69	84	15	2.09	
<i>and</i>							125	128	3	1.26	
RWRC138	614148	6390839	268	-58	270	264	242	248	6	2.45	
<i>incl</i>							243	245	2	3.70	
RWRC152	614130	6391019	268	-58	270	186	89	102	13	0.57	
<i>incl</i>							101	102	1	2.07	
<i>and</i>							123	153	30	0.79	
<i>incl</i>							141	144	3	2.12	
<i>and</i>							174	177	3	0.82	
<i>and</i>							180	183	3	0.57	
RWRC153	614181	6391009	267	-58	270	192	48	51	3	0.80	Roswell
<i>and</i>							98	99	1	1.13	
<i>and</i>							111	117	6	0.56	
<i>and</i>							177	179	2	0.67	
RWRC154	614160	6391014	268	-58	270	180	99	102	3	0.79	
RWRC155	614198	6391005	267	-58	270	270	81	90	9	1.79	
<i>incl</i>							88	90	2	4.98	
<i>and</i>							96	99	3	0.73	
<i>and</i>							130	133	3	2.46	
<i>and</i>							189	194	5	1.95	
<i>and</i>							249	253	4	0.89	
RWRC159	614029	6390600	267	-58	270	210	120	129	9	1.57	
<i>incl</i>							120	123	3	3.31	
<i>and</i>							150	159	9	0.96	
<i>and</i>							180	210	30	3.45	
<i>incl</i>							183	186	3	28.3	
RWRC160	614000	6390617	267	-58	270	180	66	75	9	0.94	
<i>and</i>							135	144	9	1.76	
<i>incl</i>							138	141	3	4.23	



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Hole ID	Easting (MGA)	Northing (MGA)	RL (m)	Dip	Azimuth (Grid)	Total Depth	Interval From (m)	Interval To (m)	Intercept (m)	Au (g/t)	Prospect
<i>and</i>							150	153	3	0.73	Roswell
RWRC161	614218	6391000	268	-58	270	228	154	158	4	0.67	
<i>and</i>							192	198	6	0.58	
<i>and</i>							200	204	4	0.52	
<i>and</i>							208	210	2	0.91	
<i>and</i>							213	214	1	0.63	
RWRC162	614236	6390996	267	-58	270	276	228	230	2	0.68	
<i>and</i>							240	242	2	1.11	
RWRC166	614157	6390994	268	-58	270	174	75	85	10	2.71	
<i>incl</i>							82	83	1	21.3	
RWRC167	614199	6390990	268	-58	270	216	129	133	4	0.57	
<i>and</i>							139	141	2	0.64	
<i>and</i>							185	186	1	0.80	
<i>and</i>							202	203	1	0.98	
RWRC168	614240	6390979	268	-58	270	432	363	384	21	1.82	
<i>incl</i>							363	366	3	4.36	
<i>also</i>							381	384	3	5.22	
<i>and</i>							396	399	3	1.27	
<i>and</i>							426	429	3	1.16	
RWRC169	614141	6390958	268	-56	270	282	205	208	3	0.53	
<i>and</i>							257	259	2	0.53	
RWRC170	614178	6390957	267	-58	270	297.2	60	70	10	0.72	
<i>and</i>							73	79	6	0.98	
<i>and</i>							83	87	4	0.94	
<i>and</i>							98	99	1	1.81	
<i>and</i>							102	105	3	1.62	
<i>and</i>							263	268	5	1.50	
<i>incl</i>							267	268	1	5.97	
<i>and</i>							273	274	1	0.73	
RWRC171	613978	6390618	267	-58	270	168	72	78	6	0.52	
RWRC172	614020	6390618	267	-58	267	210*	122	126	4	0.77	
<i>and</i>							199	209	10	32.1	
<i>incl</i>							199	201	2	139.5	
MCD007	614201	6391059	268	-60	270	258.1	33	36	3	0.70	McLeans (Roswell North)
<i>and</i>							75	81	6	0.65	
<i>and</i>							104	107	3	1.95	
<i>and</i>							163	166	3	0.56	
MCP084	614144	6391033	268	-58	270	306	107	108	1	0.54	
<i>and</i>							147	148	1	0.58	
<i>and</i>							282	285	3	0.62	
MCP085	614159	6391034	268	-58	270	276	36**	42	6	0.71	
<i>and</i>							48	54	6	0.55	
<i>and</i>							69	72	3	0.72	
MCP086	614178	6391029	268	-58	270	186	45	51	6	1.43	McLeans (Roswell North)
<i>and</i>							81	87	6	1.73	
<i>and</i>							110	112	2	1.13	
<i>and</i>							169	170	1	2.14	



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Hole ID	Easting (MGA)	Northing (MGA)	RL (m)	Dip	Azimuth (Grid)	Total Depth	Interval From (m)	Interval To (m)	Intercept (m)	Au (g/t)	Prospect
MCP087	614318	6392160	268	-58	270	180	82	84	2	1.12	
MCP088	614398	6392159	269	-58	270	168	No significant results				

* hole abandoned early. ** From base of alluvium. True widths are approximately 60%.



Competent Person

Unless otherwise advised above, the information in this report that relates to exploration results being reported for the first time is based on information compiled by Mr David Meates MAIG, (Alkane Senior Exploration Geologist) who has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Meates has provided his prior written consent to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to previously reported exploration results and exploration targets is extracted from the Company's ASX announcements noted in the text of the announcement and are available to view on the Company's website. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcements and that the form and context in which the Competent Person's findings are presented have not been materially altered.

Disclaimer

This report contains certain forward looking statements and forecasts, including possible or assumed reserves and resources, 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 Geoscientists.

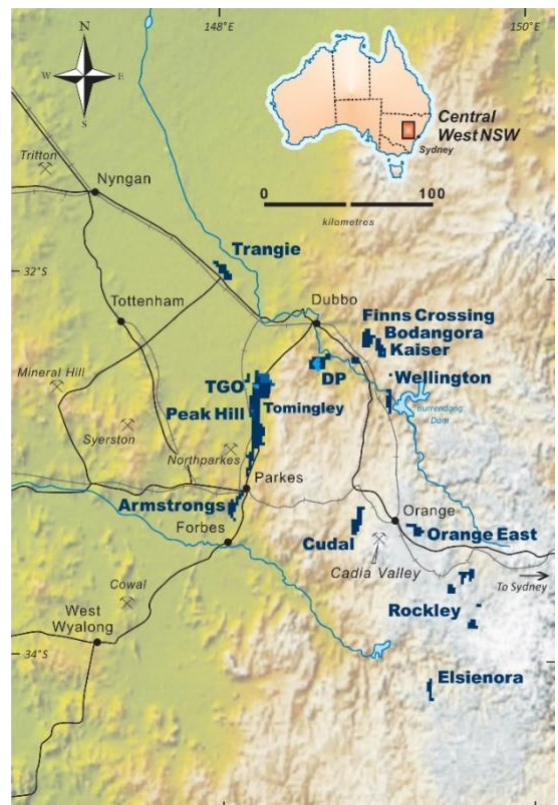
ABOUT ALKANE - www.alkane.com.au - ASX: ALK and OTCQX: ANLKY

Alkane is a gold production company with a multi-commodity exploration and development portfolio. Alkane's projects are predominantly in the Central West region of NSW, but extend throughout Australia through investments in other gold exploration and mining companies.

Alkane's gold production is from the Tomingley Gold Operations (TGO) which has been operating since early 2014 and it's most advanced gold exploration projects are in the 100% Alkane owned tenement area between TGO and Peak Hill and have the potential for sourcing additional ore for TGO.

Alkane has other 100% owned exploration tenements in the Central West NSW prospective for gold and copper. The recently announced significant porphyry gold-copper mineralisation intersected at Boda is an example of this potential.

Alkane's largest non-gold project is the Dubbo Project (DP), a large in-ground resource of zirconium, hafnium, niobium, yttrium and rare earth elements. As it is an advanced polymetallic project outside China, it is a potential strategic and independent supply of critical minerals for a range of sustainable technologies and future industries. It has a potential mine life of 75+ years. The DP is development ready, subject to financing, with the mineral deposit and surrounding land acquired and all major State and Federal approvals in place.



The following tables are provided to ensure compliance with the JORC Code (2012) edition requirements for the reporting of exploration results.

JORC Code, 2012 Edition – Table 1 TOMINGLEY GOLD PROJECT

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"> Nature and quality of sampling (e.g. 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. 	<p>RC samples are collected at one metre intervals via a cyclone on the rig. The cyclone is cleaned regularly to minimise any contamination.</p> <p>Half core samples are collected at generally one metre intervals.</p>
	<ul style="list-style-type: none"> Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 	<p>Drilling, sampling and QAQC procedures are carried out to industry standards.</p>
	<ul style="list-style-type: none"> 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 (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information. 	<p>RC Drilling – the total sample (~20-30kg) is delivered via cyclone into a large plastic bag which is retained for future use if required. A sub-sample of approximately 1kg is spear sampled from each plastic bag and composited to make a 3 metres sample interval. If strong mineralisation is observed by the site geologist this is sampled as a final 1m interval instead. The 1m intervals forming composite samples assaying ≥ 0.20 g/t Au or with high As are resplit using a cone splitter on the rig into a separate calico at the time of drilling and re-submitted to the laboratory for re-assay.</p> <p>Core is cut in half using an Almonte diamond cutting saw.</p> <p>All samples sent to laboratory are crushed and/or pulverised to produce a ~100g pulp for the assay process.</p> <p>Gold was determined by fire assay fusion of a 50g charge with an AAS analytical finish.</p> <p>A multi-element suite was determined using an aqua regia or multi-acid digest with an AES, MS analytical finish.</p>
Drilling techniques	<ul style="list-style-type: none"> Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 	<p>Reverse circulation (RC) drilling using 110mm rods 144mm face sampling hammer.</p> <p>Core drilling completed as an HQ tail on an air-core precollar. Core orientated using a Reflex tool</p>
Drill sample recovery	<ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. 	<p>Sample quality is assessed by the sampler by visual approximation of sample recovery and if the sample is dry, damp or wet.</p>
	<ul style="list-style-type: none"> Measures taken to maximise sample recovery and ensure representative nature of the samples. 	<p>A high capacity RC rig was used to enable dry samples collected. Drill cyclone and sample buckets are cleaned between rod changes and after each hole to minimise cross-hole contamination.</p> <p>Core drilling completed using HQ triple tube to maximise core recovery</p>
	<ul style="list-style-type: none"> 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. 	<p>There is no known relationship between sample recovery and grade.</p>
Logging	<ul style="list-style-type: none"> 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. 	<p>Each one metre interval is 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>
	<ul style="list-style-type: none"> Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. 	<p>All logging is qualitative with visual estimates of the various characteristics.</p>



Criteria	JORC Code explanation	Commentary
		A representative sample of each one metre interval is retained in chip trays for future reference. Half core samples are retained in trays for future reference.
	<ul style="list-style-type: none"> <i>The total length and percentage of the relevant intersections logged.</i> 	All samples have been geologically logged by qualified geologists.
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> <i>If core, whether cut or sawn and whether quarter, half or all core taken.</i> 	Core is cut with half core submitted to the laboratory.
	<ul style="list-style-type: none"> <i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i> 	Each one metre interval is spear sampled with 3m composite samples collected in a calico sample bag and forwarded to the laboratory. Where strong mineralisation is observed by the site geologist, instead of compositing, this is individually sampled from the cone splitter on the RC rig as a 1 metre interval into a calico bag and forwarded to the laboratory. The 1m intervals forming composite samples assaying ≥ 0.20 g/t Au or with high As are resplit using a cone splitter on the rig during the time of drilling and re-submitted to the laboratory for re-assay. Laboratory Preparation – the entire sample (~3kg) is dried and pulverised in an LM5 (or equivalent) to $\geq 85\%$ passing 75 μ m. Bulk rejects for all samples are discarded. A pulp sample (± 100 g) is stored for future reference.
	<ul style="list-style-type: none"> <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i> 	ALK sampling techniques are of industry standard and considered adequate.
	<ul style="list-style-type: none"> <i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i> 	Field duplicate samples collected at every stage of sampling to control procedures - ~1:50 alternating with CRM.
	<ul style="list-style-type: none"> <i>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.</i> 	Duplicate samples are collected for both composite intervals and re-split intervals. Duplicates generally show excellent repeatability.
	<ul style="list-style-type: none"> <i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i> 	Sample sizes are industry standard and considered appropriate.
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i> 	Gold is determined using a 50g charge fused at approximately 1100°C with alkaline fluxes, including lead oxide. The resultant prill is dissolved in aqua regia with gold determined by flame AAS. For other geochemical elements, samples are digested by aqua regia or multi-acid with each element determined by ICP Atomic Emission Spectrometry or ICP Mass Spectrometry. These additional elements are generally only used for geological interpretation purposes, are not of economic significance and are not routinely reported.
	<ul style="list-style-type: none"> <i>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.</i> 	No down hole geophysical logging or hand held XRF analyses undertaken.
	<ul style="list-style-type: none"> <i>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</i> 	Commercially prepared Certified Reference Materials (CRM) are inserted at 1 in 50 samples. CRM's are not identifiable to the laboratory. Field duplicate samples are 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 is reported for each sample submission. Failed standards result in re-assaying of portions of the affected sample batches.



Criteria	JORC Code explanation	Commentary
Verification of sampling and assaying	<ul style="list-style-type: none"> The verification of significant intersections by either independent or alternative company personnel. 	Drill data is 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"> The use of twinned holes. 	No twinned holes have been drilled at this stage of exploration.
	<ul style="list-style-type: none"> Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. 	<p>All drill hole logging and sampling data is entered directly into field data entry spreadsheets for transfer and storage in an industry standard access database with verification protocols in place.</p> <p>All primary assay data is received from the laboratory as electronic data files which are imported into sampling database with verification procedures in place. QAQC analysis is 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 is also verified on import into various software packages.</p>
	<ul style="list-style-type: none"> Discuss any adjustment to assay data. 	No assay data was adjusted.
Location of data points	<ul style="list-style-type: none"> 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. 	Drill holes are laid out using hand held GPS (accuracy $\pm 2m$) then DGPS surveyed accurately ($\pm 0.1m$) on completion.
	<ul style="list-style-type: none"> Specification of the grid system used. 	MGA (Zone 55), GDA94
	<ul style="list-style-type: none"> Quality and adequacy of topographic control. 	As noted above, all drill holes DGPS surveyed accurately ($\pm 0.1m$) on completion.
Data spacing and distribution	<ul style="list-style-type: none"> Data spacing for reporting of Exploration Results. 	The exploration results are part of a 40 metre by 40 metre drill hole grid pattern.
	<ul style="list-style-type: none"> 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. 	No resource estimations have been undertaken yet.
	<ul style="list-style-type: none"> Whether sample compositing has been applied. 	3m sample composites collected as described above.
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. 	<p>Early phase drilling at San Antonio prospect, however core holes RWD002 and RWD004 measured mineralised structures dipping $70^\circ - 85^\circ$ to the east. Drill holes are collared 58° to the west which is considered practical for a drill rig and approximately 60% to intersecting the mineralised structures.</p> <p>Early phase drilling at Roswell prospect, however core holes RWD001 and RWD003 measured mineralised veins dipping 53° to the east. Drill holes are collared 58° to the west which is considered practical for a drill rig and approximately 90% to intersecting the mineralised veins.</p>
	<ul style="list-style-type: none"> 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. 	It is not thought that drilling direction will bias assay data significantly.
Sample security	<ul style="list-style-type: none"> The measures taken to ensure sample security. 	All samples are bagged in tied numbered calico bags, grouped into larger tied polyweave bags and transported 1.5 hour to ALS in Orange by Alkane personnel. All sample submissions are documented via ALS tracking system and all assays are reported via email.



Criteria	JORC Code explanation	Commentary
		Sample pulps are returned to site and stored for an appropriate length of time (minimum 3 years). The Company has in place protocols to ensure data security.
Audits or reviews	<ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. 	The Company does not routinely have external consultants verify exploration data until resource estimation procedures are deemed necessary.

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"> 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. 	Drilling completed on exploration licence number 5675 is owned 100% by Alkane.
	<ul style="list-style-type: none"> 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. 	All exploration licences are in good standing. EL5675 expires on 17 January 2023
Exploration done by other parties	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	Significant exploration has been completed in the area by Alkane since 2001 and the Tomingley Gold Mine was commissioned in 2014. Minor work was completed by previous companies in EL5675 area covered by this announcement but many holes did not penetrate the cover sequence.
Geology	<ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. 	Mineralisation at Tomingley is associated with quartz veining and alteration focused within porphyritic sub-volcanic andesite sills and adjacent volcanoclastic sediments. The deposits appear to have formed as the result of a competency 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. Geological nature of the Tomingley Deposits is well documented elsewhere. Geological nature of Peak Hill is well documented elsewhere. Geological nature of Glen Isla is fine grained low-sulfidation epithermal Au mineralisation that was discovered in Middle Devonian continental felsic volcanic sequences (Dulladerry Volcanics) in the Young Zone. The gold prospective Dulladerry Volcanics host a number of low sulfidation epithermal occurrences including the Mt Aubrey gold deposit (120,000 t @ 3.3 g/t Au) and are broadly similar in age (~370Ma) to dates published (~350 - 360 Ma) for volcanic units that host well known Drummond Basin epithermal Au deposits in north Queensland. Dulladerry Volcanics include flow banded rhyolites and quartz feldspar porphyries and are locally bimodal, with amygdaloidal basalts identified at Glen Isla and Mt Aubrey.
Drill hole Information	<ul style="list-style-type: none"> 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"> easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth 	See body of announcement and figures.



Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> ○ hole length. 	
	<ul style="list-style-type: none"> • 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. 	Required information on all drill holes included in body of announcement.
Data aggregation methods	<ul style="list-style-type: none"> • In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 	Exploration results reported – for uncut gold grades; grades are calculated by length weighted average.
	<ul style="list-style-type: none"> • 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. 	Reported intercepts are calculated using a lower cut of 0.5g/t Au. No top cut has been used.
	<ul style="list-style-type: none"> • The assumptions used for any reporting of metal equivalent values should be clearly stated. 	No metal equivalents are reported.
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> • These relationships are particularly important in the reporting of Exploration Results - If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known'). 	The mineralisation is structurally complex and drilling is reconnaissance in nature and there is currently minimal understanding of the true widths. Down hole lengths reported – true widths estimated to be 60% of the down hole length.
Diagrams	<ul style="list-style-type: none"> • 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. 	Plans and sections are included in the body of the announcement.
Balanced reporting	<ul style="list-style-type: none"> • 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. 	All completed drill holes are listed with samples assaying significant gold of $\geq 0.5\text{g/t Au}$ have been reported.
Other substantive exploration data	<ul style="list-style-type: none"> • 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. 	No other exploration data is available to assist in interpretation
Further work	<ul style="list-style-type: none"> • The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). 	The current drilling is part of a 60,000 metre resource definition program. Further drilling to test lateral extensions are also ongoing.
	<ul style="list-style-type: none"> • Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	See figures included in the announcement.