ASX Announcement



Kin Mining NI

342 Scarborough Beach Road Osborne Park WA 6017 P +61 9 9242 2227 E info@kinmining.com.au

kinmining.com.au

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ASX: KIN

PRE-FEASIBILITY STUDY AND UPDATED ORE RESERVE FOR CARDINIA GOLD PROJECT

CAUTIONARY STATEMENT

As the Pre-Feasibility Study (PFS) for the Cardinia Gold Project (Project or CGP) utilises a portion of Inferred Mineral Resources, the ASX Listing Rules require a cautionary statement be included in this announcement.

The PFS referred to in this announcement is based upon a JORC Compliant Mineral Resource Estimate (ASX: Mineral Resource Update 9 July 2019) (inclusive of the Proved and Probable Ore Reserve referred to in this announcement). The Company advises that the Proved and Probable Ore Reserve provides 70% of the total milled tonnage and 70% of the total contained gold metal. The Proved and Probable Ore Reserve is based on Measured and Indicated Mineral Resource material only with appropriate modifying factors applied. The Inferred Mineral Resources with the same modifying factors as applied to the Proved and Probable Ore Reserve makes up 30% of the total milled tonnage and 30% of the total contained gold metal. There is a lower level of geological continuity associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of additional Indicated Mineral Resources or that the production targets reported in this announcement will be realised. The Company confirms that the use of Inferred Mineral Resources is not a determining factor of the Project's viability.

The Ore Reserve Estimate and Mineral Resource Estimate underpinning the PFS have been prepared by Competent Persons with Competent Persons' Statements attached.

The Company has concluded that it has a reasonable basis for providing the forward looking statements included in this announcement. The reasons for this conclusion are outlined throughout this announcement.



Pre-Feasibility Study Highlights (All dollar figures are A\$ unless noted otherwise):

Study demonstrates positive project returns for an 8+ year mine life producing an average 51koz gold per annum for the first five years – options to improve economics and extend mine life being pursued

- Pre-tax NPV_{8%} **\$66.8M** and an IRR of **17%** (before corporate costs) at **\$2,000/oz** gold price
- Pre-tax NPV_{8%} \$118.0M and an IRR of 29% (before corporate costs) at \$2,200/oz gold price
- LOM revenue of \$736.2M and surplus operating cash-flow of \$128.4M at \$2,000/oz gold price
- LOM revenue of \$809.8M and surplus operating cash-flow of \$199.8M at \$2,200/oz gold price
- Payback period of 44 months from production start based on a A\$2,000/oz gold price
- Payback period of 29 months from production start based on a A\$2,200/oz gold price
- Pre-production capital cost of \$76.9M
- LOM All-In Sustaining Cost (AISC) of \$1,442/oz
- Probable Ore Reserve Estimate of 283koz (7.9Mt @ 1.1g/t)
- Processing 11.4Mt at 1.09g/t Au (398koz) to deliver 368koz of recovered gold over Life of Mine (LOM)
- Initial LOM of 8.2 years which has clear potential to increase further with additional exploration
- Development based on two open pit mining centres at Cardinia and Mertondale which feed a 1.5Mtpa conventional CIL processing plant located at Cardinia

Development Strategy

- PFS outcomes demonstrate a technically sound project underpinned by robust mineral resource and cost estimation and conservative assumptions which are expected to be readily deliverable
- Clear opportunity to materially improve forecast returns and surplus cashflow by displacing lower margin ore trucked from Mertondale to Cardinia from project year three with higher value processing plant feed
- Potential for accretive regional consolidation to support this objective also being actively considered, along
 with other strategic options which generate additional value to Kin shareholders
- Resumption of exploration within the 414km² tenement package being evaluated with a focus on the 60% of the tenement package located under shallow, transported cover with minimal previous exploration
- PFS review underway to identify potential cost-saving measures from forecast capital and operating expenditure
- Front End Engineering Design and Definitive Feasibility Study work to follow programs outlined above

Management Comment

Following completion of the PFS and Ore Reserve, Kin Mining Managing Director Andrew Munckton said:

"Over the past 12 months Kin has successfully reset the Cardinia Gold Project on a strong foundation of reliable technical and financial estimates which underpin the Pre-Feasibility Study. I would like to thank the Kin team and our host of consultants for the work which has gone into completing the PFS.

"The outcomes show we have a project with production potential and significant leverage to the currently strong Australian dollar gold price, however the Board has determined to prioritise opportunities to add higher margin ore feed while development studies continue at an appropriate rate.

"Exploration completed by Kin and previous explorers at the CGP has focused on historic mining centres in areas of surface outcrop. Around 60% of the tenement area is located under shallow, transported cover and



has been subject to little modern exploration. A program of mapping, geochemical sampling and geophysics is under development to target new discoveries in these underexplored parts of proven mining corridors.

"The potential to enhance our mineral inventory through regional consolidation opportunities will also be evaluated given Kin's location in the active Leonora region with processing infrastructure which has been purchased and partially developed. Other alternative strategic options may also be considered.

"The Board acknowledges and appreciates the support of Kin's shareholders in this strategy."

PFS EXECUTIVE SUMMARY

Kin Mining NL ("Kin" or "Company") (ASX:KIN) is pleased to announce the completion of the Pre-Feasibility Study ("PFS") for the Company's 100% owned Cardinia Gold Project ("CGP" or the "Project") in the North-Eastern Goldfields of Western Australia. The 2019 PFS confirms the CGP as being both technically sound and capable of generating solid free cash flows with significant leverage to the Australian dollar gold price.

The CGP is comprised of a 414km² tenement position in the Minerie Greenstone Belt which captures more than 45km of the Minerie Formation (Figure 1). The Kin tenement holding is divided into the central Cardinia region, the southern Raeside region and the northern Mertondale region.

The PFS is based on two open pit mining centres at Cardinia and Mertondale which supply a 1.5Mtpa conventional CIL processing plant centrally located at Cardinia. The PFS is based on an Ore Reserve Estimate of 7.9Mt @ 1.1g/t Au for 283koz (Table 1) and a Production Estimate of 11.4Mt @ 1.09g/t Au for 398koz which delivers a forecast 368koz of recovered gold. The CGP contains Measured, Indicated and Inferred Mineral Resources of 18.2Mt @ 1.44g/t gold for 841,000oz of contained gold (Table 3).

The mining schedule has been prepared by Entech Mining to supply a blend of oxide, transition and fresh ores that will maximise the utilisation of the processing facility. The Project has an initial mine life in excess of eight years, with considerable potential upside from the addition of higher margin ore from successful exploration, acquisitions or corporate transactions.

The pre-production capital requirement for the Project of \$76.9M includes relocation and refurbishment of the Lawlers Processing Facility (primarily a crushing circuit and 0.6MW ball mill components) and refurbishment of the 2.5MW ANI ball mill at Cardinia. The new components for the plant include the cyclone and gravity circuits, leach tanks (already purchased) and the thickener, tails disposal, carbon and elution circuits throughout the remainder of the CGP Processing Facility. The capacity of the plant is estimated to treat a nominal 1.5Mtpa on a blend of oxide, transitional and fresh ores. The pre-production capital cost estimate of \$76.9M and has been estimated primarily by Como Engineering and Kin following an extensive review of the existing and required new processing facilities and CGP infrastructure establishment costs.

The PFS provides a LOM C1 Cash Costs (C1) of 1,284/oz and an All-In Sustaining Cost (AISC) of 1,442/oz for the life of the Project. The CGP delivers a Pre-Tax NPV_{8%} of \$66.8M (before corporate costs) and an Internal Rate of Return (IRR) of 17% at a gold price of A\$2,000/oz. The forecast LOM revenue is \$736.2M with a projected operating cash-flow surplus of \$128.4M based from within pits designed to a more conservative \$1,800/oz gold price.

The inclusion of the Mertondale ores in the PFS from year three adds 78.3koz of recovered gold (from 16% of project ore tonnes) at an average AISC cost of \$1,825/oz. Significant potential to improve the CGP could be realised from displacing Mertondale ores with other, higher margin ore at a lower AISC. For comparison, the Cardinia deposits have an average AISC of \$1,339/oz and a margin of \$661/oz at a \$2,000/oz gold price compared to an AISC margin of \$175/oz for Mertondale ores.

Kin is confident that potential remains to grow the CGP Mineral Resources via exploration of targets which present near-mine extensional opportunities within the project area.



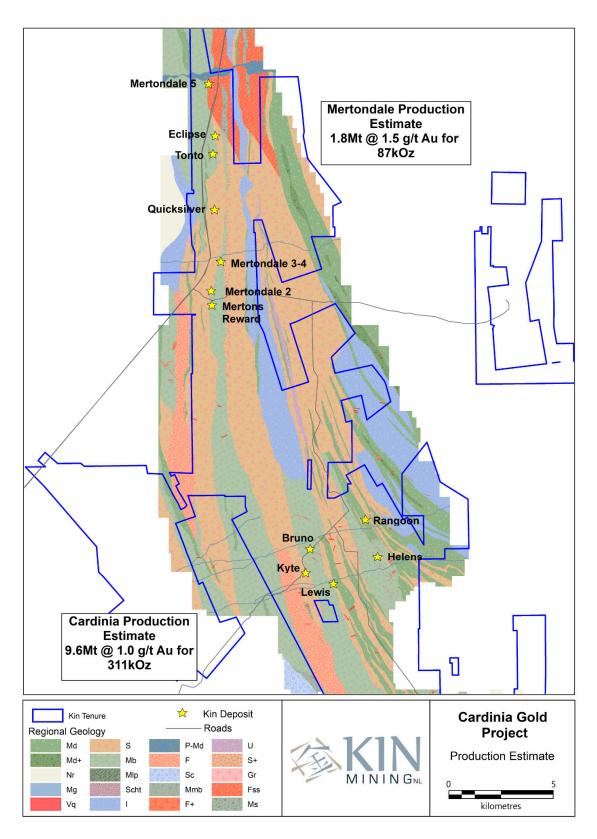


Figure 1. Location, Production Estimate and Pit Locations of the Cardinia Gold Project



EXPLORATION AND DEVELOPMENT STRATEGY

Following completion of the PFS, Kin intends to consider consolidation and strategic options within the region and evaluate exploration opportunities across its tenement package.

The CGP is located within an active gold mining region with significant established mining infrastructure and numerous undeveloped gold deposits (Figure 2). This presents potential consolidation opportunities which will be examined by the Company, along with other strategic options with potential to deliver additional value for Kin shareholders.

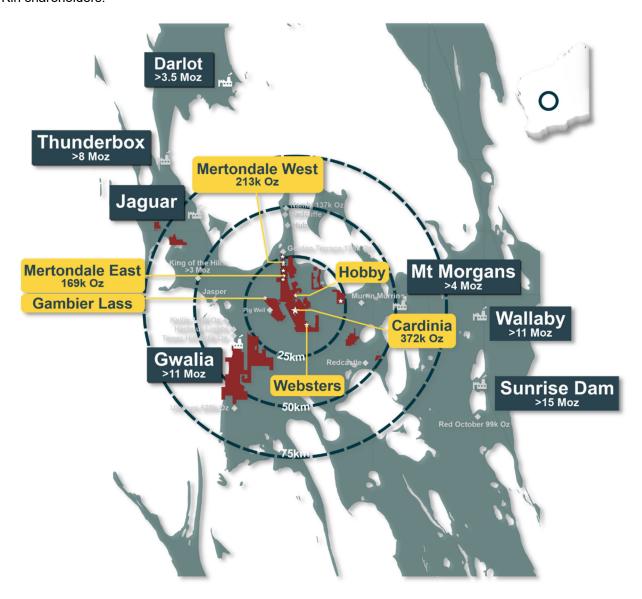


Figure 2. Regional location of the Cardinia Gold Project including major mineral deposits

Kin has a controlling 414km² landholding across the underexplored Minerie Greenstone Belt which has yielded multiple gold deposits in recent decades. The CGP area captures +45km strike of the entire Minerie Formation sequence which contains large alteration systems related to gold mineralisation.

Exploration completed by the Company during the past 18 months has significantly advanced geological understanding of the Cardinia region. These learnings are being applied to advance new discoveries within the tenement area which have potential to improve the CGP outcomes by displacing higher cost mining inventory.



Gold mineralisation is concentrated around five sequences linked to four bi-modal, felsic-mafic volcanic flow events. Three gold mineralising styles have been identified:

- Low-sulphidation epithermal deposits
- Volcanogenic massive sulphide (VMS) deposits
- Orogenic structurally controlled lode style deposits

The majority of drilling completed at the CGP focused on shallow oxide targets in areas of historic workings and sub-crop. Through this drilling extensive areas of known +5g/t Au mineralisation outside the current 841Moz Mineral Resource have been identified. It is also apparent a large proportion of the regional historic drilling has not effectively tested the regolith for mineralisation and primary mineralisation potential below 100 meters remains largely untested.

Reconnaissance of the CGP tenement area has confirmed more than 60% of the tenure is under recently transported cover (alluvial, colluvial and aeolian gravels, sands and soils) and these areas have seen little modern exploration (Figure 3) and represent a key area of future focus for Kin's exploration at the CGP. These areas present significant opportunity to apply the current CGP geological understanding to identify new deposits within this proven region for gold mineralisation.

The geological model and physical property testing of core from deposits within the CGP confirms modern geophysical techniques can effectively be applied to identify the new styles of mineralisation at depth. Southern Geoscience is now assisting Kin to develop a program of Induced Polarisation and Sub-Audio Magnetic surveying which will be deployed to assist with drill targeting.

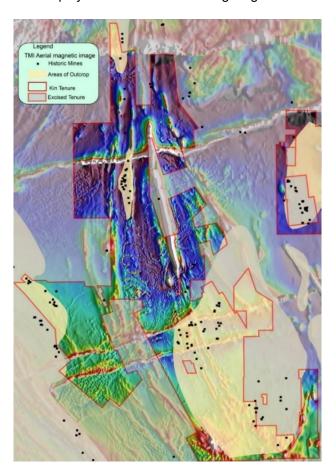


Figure 3. Regional magnetics map of the CGP, areas under shallow cover shown in coloured shades. Historical mines shown as black points.



CARDINIA GOLD PROJECT PRE-FEASIBILITY STUDY

2019 PFS TEAM

The 2019 PFS was managed by Kin working with a number of in-house specialists and external consultants. Key contributors are listed below:

- John Kelly (Kin Mining Manager) Study Manager
- Independent Metallurgical Operations Metallurgical Testwork
- Como Engineering Processing Plant, Water and Power Infrastructure (including process and plant design & Lawlers Plant dismantling and relocation to Cardinia)
- CMW Geosciences Tailings Storage Design and cost estimate
- Patterson & Cooke Tailings thickener test work
- Groundwater Development Services Water supply Bummer and Cardinia Creek
- Rockwater Hydrogeology and surface water modelling
- Stantec Subterranean Fauna, environmental, waste rock classification
- Stantec Environmental permitting
- Peter O'Bryan Geotechnical Assessment Open Pit Mining
- Lindsay Dynan Road Design and Cost Estimate
- Entech Mining design, Optimisations, Mine Plan and Schedule, Mine cost estimate and Ore Reserve Estimate
- Jamie Logan, Glenn Grayson & Carras Mining Mineral Resource estimates
- Entech and Stephen Jones (Kin CFO) Financial modelling

ORE RESERVE

In conjunction with the 2019 PFS, Kin has completed an Ore Reserve Estimate for the CGP based on the 2019 Mineral Resources (see ASX announcement *Mineral Resource Update* 9 July 2019). The Ore Reserve Estimate is supported by the 2019 PFS and has been completed by independent mining consultants Entech Pty Ltd (Entech).

A detailed financial model for the CGP was generated as part of the PFS process which has been used by Entech to determine the economic viability of the Ore Reserve Estimate and Kin to estimate the viability of the Project.

The Probable Ore Reserve (Table 1) has been completed in accordance with the JORC Code (2012). The Probable Ore Reserve is based on the Measured and Indicated portion of the Mineral Resource Estimate (see Table 3). It should be noted that none of the Inferred portion of the Mineral Resource Estimate has been incorporated into the Proved and Probable Ore Reserve.

Table 1 presents a summary of the Proved and Probable Ore Reserve based on the open pits being designed around an \$1,800/oz gold price optimisation. A sale price of \$2,000/oz gold has been adopted for the financial model. Refer to Annexure 1, Table 1. Section 4, for full details on the Ore Reserve Estimate.



Table 1. Cardinia Gold Project – Ore Reserve Estimate^{1, 2, 3}

Open Pit Mine	Classification	Tonnes (t)	Grade (g/t)	Metal (oz. Au)
Kyte	Probable	280,000	1.6	14,000
Bruno Lewis	Proved	430,000	0.9	13,000
Di ullo Lewis	Probable	4,790,000	0.8	127,000
Helens	Probable	480,000	1.8	28,000
Rangoon/Fiona	Probable	490,000	1.6	25,000
Mertondale 2/3/4/Reward	Probable	750,000	1.9	45,000
Mertondale 5	Probable	150,000	2.7	13,000
Eclipse	Probable	220,000	1.1	8,000
Tonto	Probable	300,000	1.2	12,000
	Proved	430,000	0.9	13,000
All Pits	Probable	7,460,000	1.1	272,000
	Total	7,890,000	1.1	283,000

¹ Calculations have been rounded to the nearest 10,000t of ore, 0.1g/t Au grade and 1,000oz Au metal. ² Assumes a gold price of A\$1,800/oz for Pit Design and A\$2000 for Financial analysis ³ Totals vary due to rounding.



KEY PROJECT PARAMETERS

Table 2 summarises the key CGP 2019 PFS parameters which include Ore Reserves, the proportion of Inferred Mineral Resource used in the Mine Plan, capital costs, production summary and project financials.

Table 2. Key Project Parameters

CGP MINERAL RESOURCES	Tonnage	Grade	Ounces					
Measured Mineral Resources ¹	0.4Mt	1.04g/t	12,000					
Indicated Mineral Resources	11.3Mt	1.49g/t	541,000					
Inferred Mineral Resources ¹	6.6Mt	1.36g/t	289,000					
Total Mineral Resources	18.2Mt	1.44g/t	841,000					
MATERIAL IN MINE PLAN								
Proved and Probable Ore Reserve	7.9Mt	1.10g/t	(70%)					
Inferred Mineral Resource	ferred Mineral Resource 3.5Mt 1.08g/t							
Total (may vary due to rounding)	11.4Mt	1.09g/t	(100%)					
CAPITAL COSTS								
1.5Mtpa Processing Plant (including L	awlers relocation and refurbishme	ent)	\$44.26M					
Infrastructure Capital (Borefield, Road	ications)	\$26.57M						
Pre-Production Mining & Mine Establis	\$6.02M							
Sub-Total (Pre-production Capital)			\$76.85M					
Mining Haul Roads (post commissioni	ng)		\$5.30M					
Tailings Storage Facility Construction	(post commissioning)		\$6.02M					
Plant and Infrastructure Sustaining Ca	apital		\$11.30M					
Sub-Total (Sustaining Capital)			\$22.62M					
TOTAL CAPITAL (LOM)			\$99.47M					
PRODUCTION SUMMARY								
Key Outcome								
Life of Mine Production	8.2 years							
LOM Open Pit Strip Ratio (Waste:Ore	5.2:1							
Nominal Processing Rate	1.5Mtpa							
LOM Processing Recovery 92.4%								
Total Recovered Gold			368koz.					



Table 2. Key Project Parameters (continued)

PROJECT ECONOMICS		
Base Case gold price (A\$)	\$2,000/oz	\$2,200/oz
Exchange Rate (US\$:A\$)	0.70	0.70
Life of Mine Revenue (A\$)	\$736.2M	\$809.8M
C1 Cash Costs ²	\$1,284/oz	\$1,284/oz
Adjusted Operating Costs ³	\$1,349/oz	\$1,349/oz
All-In-Sustaining Costs ⁴	\$1,442/oz	\$1,442/oz
Pre-Tax Operating Cash Surplus	\$128.4M	\$199.8M
Net Present Value (NPV _{8%})	\$66.8M	\$118.0M
Internal Rate of Return (IRR)	17%	29%

¹ Cut-off grade 0.5 g/t Au

Totals may vary due to rounding

PROJECT SUMMARY

The Cardinia Gold Project is located 30km northeast of Leonora, and approximately 250km north of the main regional town of Kalgoorlie, Western Australia. The area is well serviced by infrastructure including a network of high quality roads, an airstrip at Leonora with regular services to Perth and close to an established mining supply network.

A series of studies have been completed by Kin on the CGP with the previous study being released on 2 October 2017 (2017 DFS). A comparison of the outcomes of the PFS and 2017 DFS are contained in Appendix 1 for completeness. The Company cautions, it does not have a reasonable basis to believe the outcomes contained in the 2017 DFS were reliable or achievable. This view has been supported by an independent appraisal of key aspects of the 2017 DFS by Como Engineers. Previous studies included mining and treatment of Raeside Mineral Resources, however mining at Raeside would require disposal of a considerable volume of hypersaline water and the means of achieving that remains unresolved. Mining, transport and treatment of Raeside Mineral Resources has been excluded from the 2019 PFS. The 2019 PFS investigated the potential economic viability of the CGP based on the mining and on-site treatment of the Cardinia and Mertondale Mineral Resources only.

In 2017, the Company purchased the decommissioned 800ktpa Lawlers processing plant and associated infrastructure owned by Gold Fields. The Lawlers plant is located approximately 160km to the north northwest of the CGP. The 2019 PFS incorporates the deconstruction, refurbishment and upgrade of the crushing circuit, 0.6MW ball mill and other parts of the Lawlers plant. In addition, a refurbished 2.5MW ball mill, six new 1,500m³ CIL tanks and new tails thickener and elution circuits have been incorporated in the 1.5Mtpa Gold Processing Plant design to be located at Cardinia.

The proposed CGP plant incorporates a two-stage crushing circuit feeding the 2.5MW and 0.6MW ball mills (combined capacity of 3.1MW), with gold extracted by gravity and CIL processes. The Lawlers processing plant is in generally good condition and comes with a large inventory of spares and infrastructure. The 2019 PFS contemplates deconstruction and relocation of the Lawlers plant components to the centrally located Cardinia mining centre with construction of the infrastructure and processing plant estimated by Como Engineers to take 12 months.

² C1 Cash Costs (C1) includes all mining, surface haulage, processing, refining, by-product credits and onsite overhead costs

³ Adjusted Operating Costs (AOC) includes C1 costs plus royalties

⁴ All-In-Sustaining Costs (AISC) includes AOC plus closure costs and sustaining capital, but excludes head office corporate costs and Tax



Pre-production infrastructure construction includes a new access road, water supply from Cardinia Creek (including pit dewatering) and Bummer Creek, gas pipeline from the Murrin Murrin lateral to the plant site power station and overhead power reticulation to the mining hub, water supply bores and accommodation village.

A new accommodation village will be constructed 5km south of the processing plant to accommodate a workforce of approximately 100 people (65-70 at site at any time) who will be employed on a Fly-In Fly-Out (FIFO) and/or Leonora residential arrangement.

Early mining operations commence at the Cardinia area in month 7 to produce sufficient suitable waste material for ROM pad and TSF Lift #1 construction. Mining during this pre-production phase results in sufficient ore production to allow plant commissioning. The production ramp up schedule is based on a mill throughput of 30% (month 13), 60% (month 14), 90% (month 15 and 16) and 100% of design thereafter. Plant throughput is dependent upon the blend of ores to utilise the installed grinding power of 3.1MW. Mining operations commence at the Mertondale area from month 25 under the PFS schedule.

Capital and operating costs have been estimated to ±20%. The PFS has determined the CGP can produce an average of 45kozpa for eight years (average 51kozpa for the first five years) with a maximum production of 54koz in year five. The LOM AISC estimate for the CGP is A\$1,442/oz. Project cashflow is expected to result in a payback period of 56 months. Gold production and sales commence in month 13 and conclude in month 111 in the absence of further mine life extensions.

The Pre-production capital cost is estimated at \$76.9M. LOM capital cost is estimated at \$99.5M (Table 8) which includes the sustaining capital costs of the plant and infrastructure, subsequent lifts to the TSF, satellite pit dewatering and construction of haul roads as the Mertondale pits are developed.

Closure costs are estimated at \$11.7M with progressive rehabilitation of disturbances as mining areas are completed and a final remediation cost at the end of the LOM for removal and rehabilitation of the plant site and infrastructure.

The Company anticipates there is a high likelihood of future exploration success in its large landholding surrounding the CGP and expects the CGP to continue beyond its initial eight year PFS mine life. No benefit has been incorporated in the PFS for this anticipated success.

GEOLOGY

Gold deposits in the CGP occur in three main mining centres – Cardinia, Mertondale and Raeside. Cardinia and Mertondale are located within the Minerie Greenstone Belt while the Raeside deposits occur in the Malcolm Greenstone Belt.

The CGP has approximately 45km of strike of the Minerie greenstone and is composed of four bi-modal, felsic-mafic volcanic flows. Gold mineralisation occurs in a number of styles: low sulphidation epithermal deposits, volcanogenic massive sulphide deposits, and orogenic style gold deposits. All mineralisation styles result in zones of supergene enrichment within the oxide profile above each deposit.

The Minerie Greenstone has gold mineralisation at several stratigraphic levels within the CGP.

The Mertondale prospects extend over a strike length from Merton's Reward in the south to Mertondale 5 (32.0koz mined in 1991) 12km to the north. Merton's Reward (60.5koz previously mined), Mertondale 2 (2.7koz mined in 1987 and 2010) and Mertondale 3-4 (179.3koz mined between 1986 and 1993) are contained within the eastern branch of the Mertondale Shear Zone and extend over approximately 3km of strike. Quicksilver, Tonto, Eclipse and Mertondale 5 are all contained within the western shear zone and extend over approximately 9km of strike. The Mertondale area consists of an eastern mafic flow (mafic flow 3), a central felsic volcanic sequence which is overlain by a volcanoclastic sequence of rocks which include schists and carbonaceous shales, and topped by another mafic volcanic flow (mafic flow 4).



The Eastern shear is present on the contact of mafic flow 3 and the younger felsic volcanic, or within the mafic unit. These orebodies are typically orogenic lode style deposits and are related to brittle fracturing and quartz veining and porphyritic intrusions. The Western shear is present within the volcaniclastic sediments just below the base of mafic flow 4. Mineralisation appears to be related to late stage shortening (isoclinal folding) and shearing along this major structure. Merton's Reward, Mertondale 2, 3 and 4, Tonto, Eclipse and Mertondale 5 are included in the Ore Reserve Estimate.

The Cardinia deposits occur within the younger sequence of intermediate-mafic and felsic volcanic lithologies and locally derived epiclastic sediments, and are related to mafic flows 1 and 2. Minor felsic porphyries and lamprophyre lithologies have been recognised within the project. At Lewis, these intrusive rocks are often associated with lithologically discordant structures. Primary gold mineralisation at Lewis is consistent with volcanogenic massive sulphide mineralisation and sulphidic sediments as well as later, cross cutting, low sulphidation epithermal mineralisation. Helens consists of sulphide replacement mineralisation in a slightly discordant structure and appears to be a deeper part of the mineralising system. Historic production within the Cardinia mineral field includes Eagle, Kyte, Bruno, Lewis, Pride of the North, Pelsart, English and Scottish, Nevertire, Black Chief, White Chief, Comedy King, Faye Marie, Helens, Fiona, Rangoon, East Lynn, Triangle and Hobby. All these historic workings were high grade gold producers and occur across all of the Minerie stratigraphy.

Mineralisation within the Raeside project is hosted by a mixed package of fine-grained sediments and a quartz dolerite unit. The dolerite is sill-like in nature, and roughly conforms to bedding. The dolerite is fine to medium grained and is extensively chlorite altered. The gold mineralisation is generally constrained within the dolerite and certain sedimentary horizons.

MINERAL RESOURCES

The CGP has a total of 18.2Mt @ 1.44g/t gold for 841koz in Mineral Resources to JORC Code (2012) standard (Table 3). All resources are within a 30km radius of the proposed centrally located Cardinia process plant. Of this total, 66% or 11.7Mt @ 1.47g/t gold for 553koz is in the Measured & Indicated Mineral Resource category and 34% or 6.6Mt @ 1.36g/t for 289koz is in the Inferred Mineral Resource category.



Table 3. CGP Mineral Resources

			Cardi	nia Gold	Project	t: Miner	al Resou	ırces: Ju	ine 201	9					
	Resource	Lower	Meas	ured Reso	urces	Indic	ated Reso	urces	Infe	rred Resou	irces	Tot	Total Resources		
Project Area	Gold Price (AUD)	Cut off (g/t Au)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	
Mertondale	(AOD)	(g/ t Au)	(ivie)	(B) C Au	(K 02)	(IVIC)	(g/ t Au)	(K OZ)	(IVIC)	(S/ t Au)	(K OL)	(ivie)	(B) C Au)	(R OZ)	
	ć2.000	0.5				0.00	2.20	60	0.44	4.04	45	4.25	4.06	74	
Mertons Reward	\$2,000	0.5				0.80	2.30	60	0.44	1.01	15	1.25	1.86	74	
Mertondale 3-4	\$2,000	0.5				1.17	1.99	75	0.45	1.36	20	1.62	1.82	95	
Tonto*	\$2,000	0.5				1.79	1.31	75	0.00	1.27	0	1.79	1.31	75	
Mertondale 5*	\$2,000	0.5				0.57	2.18	40	0.04	2.23	3	0.61	2.19	43	
Eclipse **	\$2,200	0.5							1.23	1.39	55	1.23	1.39	55	
Quicksilver **	\$2,200	0.5							0.81	1.54	40	0.81	1.54	40	
Subtotal Mertondale						4.34	1.80	250	2.97	1.38	132	7.31	1.63	383	
Cardinia															
Bruno	\$2,000	0.5				0.87	1.02	28	1.90	1.28	78	2.77	1.20	106	
Lewis	\$2,000	0.5	0.36	1.04	12	3.59	0.93	108	0.98	1.06	33	4.93	0.97	153	
Kyte	\$2,000	0.5				0.32	1.57	16	0.05	1.30	2	0.37	1.54	18	
Helens	\$2,000	0.5				0.68	2.18	47	0.24	1.83	14	0.91	2.09	61	
Fiona*	\$2,000	0.5				0.22	1.80	13	0.06	1.48	3	0.28	1.73	16	
Rangoon*	\$2,000	0.5				0.31	1.51	15	0.05	1.15	2	0.37	1.46	17	
Subtotal Cardinia			0.36	1.04	12	5.99	1.18	228	3.27	1.25	132	9.63	1.20	372	
Raeside															
Michaelangelo*	\$2,000	0.5				0.82	2.04	53				0.82	2.04	53	
Leonardo*	\$2,000	0.5				0.12	2.33	9				0.12	2.33	9	
Forgotten Four **	\$2,200	0.5						0	0.21	2.12	14	0.21	2.12	14	
Krang **	\$2,200	0.5						0	0.15	2.11	10	0.15	2.11	10	
Subtotal Raeside						0.94	2.08	63	0.36	2.12	24	1.30	2.09	87	
TOTAL			0.4	1.04	12	11.3	1.49	541	6.6	1.36	289	18.2	1.44	841	

NOTES:

Table 1. Mineral Resource Table June 2019

Mineral Resources estimated by Jamie Logan of Kin Mining NL, and reported in accordance with JORC 2012 using a 0.5g/t Au cut-off

Totals may not tally due to rounding

within Entech \$2,000 optimisation shells.

* Mineral Resources estimated by Carras Mining Pty Ltd in 2017, and reported in accordance with JORC 2012 using a 0.5g/t Au cut-off within Entech \$2,000 optimisation shells.

^{**} Mineral Resources estimated by McDonald Speijers in 2009, audited by Carras Mining Pty Ltd in 2017 and reported in accordance with JORC 2012 using a 0.5g/t Au cut-off within Entech \$2,200 optimisation shells.



OVERALL MINING STRATEGY

KIN plans to use conventional open pit mining methods to extract gold ore from nine deposits at the CGP divided into two mining centres; Cardinia and Mertondale (incorporating Mertondale East and Mertondale West deposits). See Figure 4 for the General Arrangements of open pits and infrastructure in the Cardinia area. Each area consists of the following:

- Mertondale East: Mertondale 2, 3, 4 and Merton's Reward
- Mertondale West: Mertondale 5, Eclipse, Tonto and Quicksilver
- Cardinia: Bruno/Lewis, Helens, Kyte and Rangoon/Fiona

Kin engaged Entech to carry out:

- Production Estimate and Ore Reserve optimisations for each deposit
- Open pit mine designs
- Development of a mining schedule
- Cost modelling.

Open Pit mining is planned on a double shift continuous roster basis, using 120t excavators and 100t dump trucks (i.e. Komatsu PC1250-8SP excavator and Caterpillar 777F trucks or similar), with mining benches approximately 5m in height. Two mining fleets will be required to meet the scheduled processing plant feed requirements for the initial four years of mining.

Open Pit mining costs were taken from Entech's database and derived using a "zero based budget" approach and 2019 pricing, these cost estimates are considered to be sufficiently accurate for evaluation and PFS purposes. Future work will include a Request for Quotation sent out to a minimum of three reputable mining contractors. This will occur in the Definitive Feasibility Study and Front End Engineering Design stage of the project.

It is proposed to engage a mining contractor to execute the mine plan and schedule. It is considered by Kin that mining contractors provide a more certain outcome and clearly defined cost estimates during project execution period. Best practice is to award tenders on a hard dollar basis as it is considered that each party's responsibilities are well defined and clear, whilst being the most straightforward form of contract to manage.



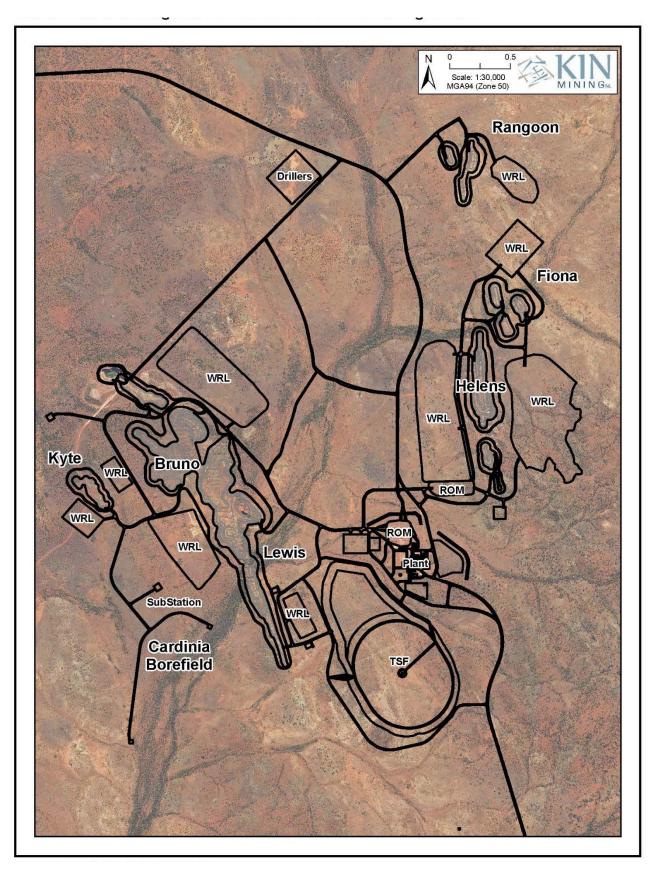


Figure 4. Cardinia Area open pits and infrastructure General Arrangement



It is proposed to mine the Bruno Lewis deposit over the life of the project, supplying 70% of the processing plant feed on a continuous basis, with the remainder of the plant feed being supplied from other Cardinia pits and Mertondale.

The following parameters were used to develop a mining schedule:

- A maximum of two pits will be operating simultaneously
- Mining campaigns at satellite pits will be a minimum of three months duration to maximise equipment utilisation
- Pits have been scheduled to maintain an optimal blend or ores to the processing plant feed over the life of the project
- A minimum of 20% hard rock is required in the plant feed to facilitate material flows through the crushing and grinding circuits
- A maximum ROM stockpile of 200kt has been set.

Grade control will be by RC drilling program conducted on 20m horizons in advance of the mining program, or trenching as flitches are being mined progressively. Mining areas will be scheduled in the pits to enable the grade control program and production to occur unhindered. Grade control cost estimates vary from pit to pit dependent on ore style and orientation but average of \$1.19/t of ore mined.

Entech's work is the basis for the mining costs in the financial model which underpin the assessment of the economics of the project.

A number of pits on the CGP leases have been previously mined, including a small trial pit at Bruno-Lewis, Mertondale 2 (Merton's Reward), Mertondale 3, 4 and 5. In previously mined pits, cutbacks have been designed to take into account existing voids.

A detailed list of the tasks that were carried out for the mining study:

- Selection and refinement of Modifying Factors for optimisation and pit design
- Ore Reserve optimisations for each pit based on \$1,800/oz gold price
- Reporting of Production Estimate based on Mineral Resources, \$1,800/oz gold price and appropriate Modifying Factors
- Reporting of Ore Reserves
 - Functional mine designs with the following parameters:
 - 18.3 m wide ramps to allow single lane haulage with 777 dump trucks
 - Ramps with a gradient of 1:10
 - Geotechnical parameters as per Peter O'Bryan's (Geotechnical Consultant) recommendations
 - Minimum mining width of 20m
 - Passing bays wherever practicable
- Financial model including a summary of operating and capital cost estimates.



Optimisation inputs:

- Gold price in Australian dollars
- Mining cost
- Transport cost where applicable
- Treatment cost
- General and Administrative costs
- WA Govt and Pit specific royalties
- Geotechnical parameters

Entech used Datamine NPV Scheduler for optimisation, Datamine Studio OP (Open Pit) for mine design, and Surpac Minesched for scheduling.

Several optimisation runs were carried out using a range of parameters in order to converge on a favourable result.

Modifying factors were determined for each deposit by reviewing the physical characteristics of rock type by dip, thickness, whether mining was possible with visual control, and if blasting was required.

The development of pit designs from optimisation shells was undertaken as a two-stage process. Firstly, optimisation shells are generated using the optimisation inputs. Then a desirable shell is selected, usually at around 80-90% of maximum NPV. The selected optimisation shell is used as a guideline to design a functional open pit, incorporating geotechnical slopes, batter angles, pit ramps, and minimum mining widths. The final pit design is then assessed for contained ounces and waste movement requirements.

Pit design parameters are governed by fleet size and required production rate. To produce sufficient ore to continuously feed the nominal 1.5Mtpa processing plant, a total movement of between 7Mtpa and 10Mtpa of waste is be required. Experience indicates that this can be achieved by a fleet of 125t excavator and 90t trucks.

The selected mining fleet was modelled to operate with the following parameters:

- Ramp gradient of 1:10
- Bench height of 5m
- Minimum mining width of 20m

Ore Reserve optimisations have been carried out taking the ramp widths and minimum mining widths into consideration, in addition to mining cost, treatment cost, transport cost, and mill recovery. Drill and blast activities will be carried out from surface on 5m benches and then excavated in 2.5m passes. A 5% drill and blast estimate has been assumed for oxide, 60% for transition material and 100% for fresh material.

The resulting Mining Schedule is summarised in Table 4 and Figure 5 by year and quarter of operation. Years 1 to 4 have a Total Volume requirement to provide sufficient ore to the ROM to maximise project cashflows. This higher than average annual Waste Volume removal requires two mining fleets during this period. After year 4 a single mining fleet has sufficient capacity to deliver the required Ore Volume. In year 8 mining reverts to a single shift only operation due to availability of sufficient working areas in the Bruno/Lewis pit.



Table 4. CGP Production Estimate

Description	Units	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
MINING												
Tonnes	('000t)	11,404	750	1,420	1,564	1,543	1,304	1,089	1,440	1,281	1,014	-
Ounces	(koz)	398.3	24.8	58.6	49.4	57.3	61.2	39.9	42.3	36.1	28.5	-
Grade Au	(g/t)	1.09	1.03	1.28	0.98	1.16	1.46	1.14	0.91	0.88	0.87	-
Ore Volume	('000bcm)	5,062	361	638	748	694	571	485	637	532	396	-
Waste Volume	('000bcm)	26,457	1,852	5,146	5,031	4,842	3,232	2,359	2,210	1,254	531	-
Strip Ratio (waste:ore)	(bcm:bcm)	5.2	5.1	8.1	6.7	7.0	5.7	4.9	3.5	2.4	1.3	-
Total Volume	('000bcm)	31,519	2,213	5,784	5,779	5,536	3,803	2,844	2,848	1,786	927	-
PROCESSING												
Tonnes	('000t)	11,404	-	1,530	1,627	1,412	1,222	1,447	1,418	1,310	1,185	253
Feed Grade	(g/t)	1.09	-	1.13	1.06	1.16	1.36	1.26	1.00	0.84	0.91	0.85
Recovered Grade	(g/t)	1.00	-	1.07	0.98	1.08	1.24	1.16	0.93	0.77	0.82	0.73
Metallurgical Recovery	%	92.4%	-	94.9%	92.5%	92.8%	90.8%	92.3%	93.4%	92.3%	90.5%	86.8%
Recovered Au	(koz)	368.1	-	52.6	51.5	49.0	48.5	54.1	42.5	32.6	31.3	6.0

Totals and estimates may not tally due to rounding

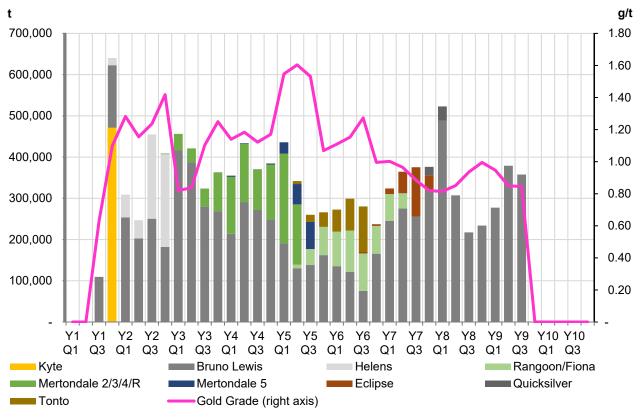


Figure 5. Mined Ore Source (Quarterly)



GEOTECHNICAL

Geotechnical studies were completed for all proposed open pits by Peter O'Bryan & Associates (POB). These studies were updated from previous work by POB incorporating more recent drilling and geotechnical logging of diamond drill core. Entech has taken the recommendations from POB and used them as an input parameter in optimisations and to develop functional pit designs.

The geotechnical studies conducted by POB have been based on geological and drill-hole data provided by Kin and a previous site visit by POB.

Geotechnical review of ground conditions influencing pit wall design and excavation requirements was based on geotechnical assessment of additional data from recent investigation boreholes; updated rock weathering surface interpretations; updated geological and hydrogeological interpretations; revised pit designs; existing geotechnical data; and previous geotechnical assessment.

WATER SUPPLY

Raw water will be supplied from bores at Cardinia (low TDS) and Bummer Creek (very low TDS), with the largest volume of water sourced from Bummer Creek bore field located approximately 13.5km from the processing plant.

The raw water from the Cardinia bore field will be pumped directly to the 5,000m³ capacity process water pond at the plant.

At Bummer Creek, each of the four bores will pump to a 2,300m³ transfer tank located at the bore field. A transfer pump will pump from this transfer tank to the raw water tank located at the processing plant.

The raw water tank has a volume of 950m³ and will provide raw water to the plant. An overflow pipe transfers excess raw water from the raw water tank to the process water dam. The raw water tank will also supply the Reverse Osmosis (RO) plant which will supply potable water to the camp, stripping circuit, admin building, and safety showers around the plant.

Como Engineers has prepared a water flow balance for the commencement of the operations with 0% tailings water return and normal operations with 40% tailings water return. Water is anticipated to start returning from the tailings dam 3 months from the start of the plant operations.

HYDROGEOLOGY

GDS (Groundwater Development Services) was engaged to carry out the investigation for water supply to the CGP. Investigation was completed in two stages. The first stage was completed in August 2018, and the second stage was completed during February 2019.

GDS provided a H2 Level Hydrogeological Report of its work and findings prepared in accordance with DOW (2009) Operational policy no 5.12 – Hydrogeological reporting associated with a groundwater license. Kin has received approval for extraction of up to 3.2GLpa of groundwater for the CGP.

Investigations identified a sustainable supply of 30L/s from Cardinia Creek and 40L/s at Bummer Creek. Individual bore yields are summarised below in Tables 5 and 6.

In both areas, test pumping indicated that extraction of groundwater at the design rate will impact aquifer drawdown to some degree. GDS recommended that individual bores may be operated intermittently for the first six months until the degree of aquifer drawdown can be measured.



Table 5. Cardinia Bore Yields

Name	Total Cased Depth (mbgl)	Maximum Recommended Pumping Rate (L/s)	Maximum Potential Pumping Level (mbgl)	Recommended Pump Inlet Depth (mbgl)	Recommendations			
PB1	90	10	31 to 84	85				
PB4	90	6	39 to 85	85	Causia an anadustion have			
PB6	89.6	8	37.5	40	Equip as production bore			
PB7	89.6	4	53.4	58				
PB8	46	<1		NA				

Table 6. Bummer Creek Bore Yields

Name	Total Cased Depth (mbgl)	Maximum Recommended Pumping Rate (L/s)	Maximum Potential Pumping Level (mbgl)	Recommended Pump Inlet Depth (mbgl)	Recommendations			
PB2	90	10	12 to 30	30				
PB3	19.5	10	10.5 to 17	17	Equip on production here			
PB5	90	10	30	35	Equip as production bore			
PB9	35.8	10	31	35				

Both Cardinia Creek and Bummer Creek show potential for borefield expansion if more water is required.

In June 2019, Como Engineers completed a Process and Infrastructure Pre-Feasibility Study which included assessment of water requirements for operation of the processing plant. The Como study concludes that the CGP will have sufficient water supply for all operations from the Cardinia Creek and Bummer Creek borefields. The water supply is sufficient for construction and operation of the processing plant, mining camp construction, camp daily usage, construction of Integrated Waste Landform/Tailings Storage Facility (IWL/TSF), ROM Pad construction, and mining dust suppression purposes.

It is anticipated that the water supply requirement will reduce once tailings water starts returning from the IWL/TSF approximately three months after start up.

GDS has completed a study for Cardinia Creek pit dewatering. Dewatering of pits was simulated with dewatering from established bores to 10m below planned mining depths. The Cardinia pits will be dewatered with surface sumps supplemented by the network of Production bores along Cardinia Creek.

Dewatering of the Mertondale pits was reviewed by Rockwater in July 2017. Rockwater concluded that dewatering at a rate of up to 20L/s will be required for Mertondale 2, 3, 4, Merts Reward and Tonto. Water disposal will be to previously mined open pit storage.



PROCESS PLANT

A Carbon-in-Leach (CIL) process plant was designed for the CGP by Como Engineers.

The CGP plant has been designed using significant components from the decommissioned Lawlers process plant, particularly the crushing and conveying circuits, 0.6MW Ball Mill, infrastructure and spares. A second hand 2.5MW ANI-Ruwolt primary ball mill in also incorporated. New components include six new 1,500m³ CIL tanks, new cyclone and gravity circuits and new pre-tails thickener, all designed to complement the second-hand components to process ore at a nominal rate of 1.5Mtpa.

Plant throughput and operating cost estimates are dependent upon ore feed blend, where metallurgical testwork has determined the grinding power requirements of various blends of ore supply over the LOM of the project.

The process plant general arrangement at Cardinia is shown in Figure 6.

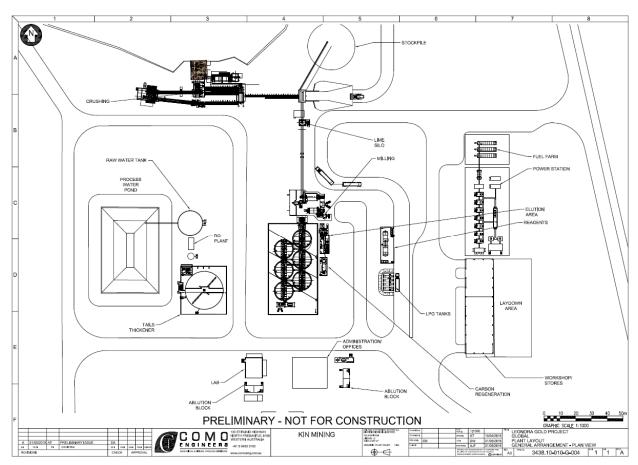


Figure 6. Process Plant General Arrangement

Process Design Flowsheet

The process flow diagram for the 1.5Mtpa processing plant is illustrated in Figure 7. All main elements that comprise the processing plant are typical of conventional CIL plants operating throughout the Western Australian Goldfields. The CGP treatment circuit has been designed to produce a grind averaging P_{80} 106 μ m and total circuit residence time of 32 hours.



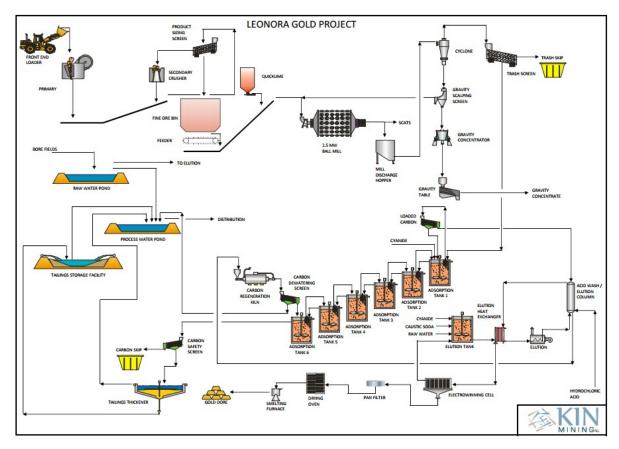


Figure 7. Process Design Flowsheet

METALLURGY

Head analysis results for 34 composite ore samples prepared for metallurgical testing were completed by IMO metallurgical consultants over 2017, 2018 and 2019. The results of the 34 Composites tested are listed in Table 7a, 7b & 7c. In addition, where little reliable testwork exists (Mertondale 5, Eclipse, Quicksilver and Tonto Oxides and Transition ores) the Treatment results from previous mining and processing operations at Mertondale 5 have been applied to the applicable ore types.

A comprehensive testwork program has been undertaken to provide Como Engineers with crushing, grinding, materials handling, thickening and tails disposal data on which a reliable plant design, equipment selection throughput estimate can be based.

Gravity and Cyanide Leach Recovery

Overall gravity recoveries range from 5.4% to 46.3% with an average gravity gold recovery of 17.8%. Como Engineers have incorporated a large capacity gravity circuit with a high intensity leach reactor as the design for gravity gold recovery. Leach reactor tails are recycled to the primary grinding circuit following gold recovery.

An average grind size of P_{80} 125 μ m is sufficient for the oxide and transitional ores composites tested, with a high average oxide ore gravity-leach recovery of between 93.3%-94.5%. Individual sample composites varied from 89.5%-98.3% recovery. Transitional ore composites tested averaged 94.5%-95.0% recovery with individual composites varying between 88.0%-98.3%. Some grind sensitivity was encountered at Mertondale samples for transitional ores.

Fresh ore lithology was grind sensitive and occasionally partially refractory. Mertondale ores were tested at P_{80} 75 μ m and 106 μ m grind, resulting in average 24-hour recoveries of 76.3% and 88% for fresh lithology.



Helens fresh ores were tested at P_{80} 75 µm and 150um grind with recovery dependent more on individual lodes tested rather than directly from grind size. Overall gold recovery varied between 63.5% and 90.5%. Bruno Lewis fresh ores showed less grind sensitivity than either Helens or Mertondale fresh ores with overall recoveries ranging from 77.6% to 91.2%

The weighted average gravity plus leach recovery of all ore types tested for a 24hr leach residence time was 92.1% for the LOM blend. This Overall Recovery rises to 93.4% with 48hr leach time.

Given the partially refractory nature of the fresh material and therefore likely less than testwork derived gravity recovery in an operating plant and average LOM recovery of 92.4% has been adopted for the PFS. This assumption sits within the 24hr and 48hr leach residence time average results.

Table 7a. Combined Gravity/Leach Laboratory Test Results for Oxide Ore in CGP deposits

Ore Sample Oxide	P ₈₀ Grind	Overall F	Recovery	Calc' Head	Assay Head	Assay Tails	Gravity	NaCN Consumption	Lime Consumption
Duration		24hrs	48hrs	Grade	Grade	Grade			
Units	μm	%	%	g/t	g/t	g/t	%	kg/t	kg/t
Kyte Oxide	125	97.1	97.5	0.91	0.81	0.02	13.9	0.38	4.16
Kyte Transitional	125	98.3	99.0	1.16	1.29	0.01	5.4	0.21	2.41
Bruno Oxide	125	93.7	96.6	7.28	6.56	0.25	12.3	0.22	2.48
Lewis Oxide	150	96.3	95.3	1.41	1.44	0.07	7.0	0.09	1.96
Lewis South Oxide	125	89.2	92.4	1.81	1.67	0.14	11.3	0.27	2.1
Helens North Oxide	125	97.9	95.8	1.55	1.79	0.07	7.5	0.26	2.73
Helens South Oxide	125	89.9	90.8	1.36	1.73	0.13	15.6	0.25	2.44
Rangoon Oxide	125	94	93.6	2.2	1.97	0.14	6.8	0.26	2.27
Mertondale 3 Oxide	125	92.1	93.8	1.78	2.09	0.11	19.2	0.37	3.89
Mertondale 5 Oxide /Trans	106	89.5	89.5	3.06	3.06	0.32			Pit results
Weighted Average Ox		93.3	94.5	2.97	2.80	0.15	10.6	0.21	2.25

Table 7b. Combined Gravity/Leach Laboratory Test Results for Transitional Ore in CGP deposits

Ore Sample Transitional	P ₈₀ Grind	Overall F	Recovery	Calc' Head	Assay Head	Assay Tails	Gravity	NaCN Consumption	Lime Consumption
Duration		24hrs	48hrs	Grade	Grade	Grade			
Units	μm	%	%	g/t	g/t	g/t	%	kg/t	kg/t
Kyte Transitional	125	98.3	99.0	1.16	1.29	0.01	5.4	0.21	2.41
Bruno Transitional	125	95.7	96.3	1.00	0.95	0.04	15.6	0.19	4.06
Lewis Transitional	150	96.2	96.7	3.81	5.82	0.13	30.9	0.11	1.78
Lewis South Transitional	125	93.2	94.1	1.30	1.49	0.08	11.5	0.23	1.77
Helens South Transitional	75	88.7	89.6	1.26	1.79	0.13	17.4	0.28	2.36
Tonto Transitional CIL	125	90.4	90.4	2.55	2.35	0.25	7.0	0.41	2.73
Merton's Reward Transitional	75	88.0	85.0	1.61	1.60	0.24	26.0	0.42	3.45
Mertondale 3 Transitional	75	95.1	95.3	1.42	1.58	0.07	12.5	0.43	3.72
Weighted Average Trans		94.5	95.0	2.01	2.61	0.10	22.5	0.21	2.57



Table 7c. Combined Gravity/Leach Laboratory Test Results for Fresh Ore in CGP deposits

Ore Sample Fresh	P ₈₀ Grind	Overall F	Recovery	Calc' Head	Assay Head	Assay Tails	Gravity	NaCN Consumption	Lime Consumption
Duration		24hrs	48hrs	Grade	Grade	Grade			
Units	μm	%	%	g/t	g/t	g/t	%	kg/t	kg/t
Lewis Fresh	150	91.2	91.1	4.31	15.9	0.38	46.3	0.39	2.60
Lewis South Fresh	75	77.6	76.6	3.18	3.87	0.74	38.1	0.26	2.53
Bruno Fresh	150	82.6	81.6	1.02	1.07	0.19	10.8	0.30	2.41
Bruno_Lewis Master Composite	106	88.3	90.2	2.00	1.48	0.20	20.3	0.34	2.55
Helens South Fresh	150	84.9	82.4	4.55	3.71	0.80	17.0	0.30	1.71
Helens North Transitional	75	65.7	63.5	1.56	1.43	0.57	9.5	0.26	2.4
Helens North Fresh	150	77.6	77.6	2.71	3.00	0.61	10.5	0.25	1.80
Helens Regional Fresh	75	90.5	91.1	2.14	2.08	0.19		0.35	2.2
Helens Paris Fresh	150	69.0	69.8	3.05	3.09	0.92	18.0	0.26	1.83
Helens East Fresh	150	87.7	86.4	2.68	2.38	0.37	35.3	0.26	1.67
Helens Troy Fresh	150	63.5	68.7	0.49	0.58	0.15	12.9	0.24	2.02
Merton's Reward Fresh	75	82.7	82.4	2.16	3.05	0.38	8.5	0.48	3.34
Merton's Reward Deep	75	76.3	77.7	2.54	2.5	0.57	25.5	0.52	3.18
Merton's Reward Hard (M3)	106	77.0	85.0	1.53	0.97	0.23	26.5	0.26	1.20
Mertondale 3 Fresh	75	89.8	89.9	3.57	3.26	0.36	10.0	0.4	3.27
Mertondale 3 Hard (M2)	106	87.3	89.4	3.83	4.85	0.41	38.1	0.19	1.35
Mertondale 3 Hard (M8)	106	83.4	85.3	3.51	4.19	0.52	9.0	0.23	1.11
Weighted Average Fresh		84.5	85.4	2.59	3.56	0.38	24.4	0.33	2.35
Weighted Average All Ore		92.1	93.4	2.51	2.84	0.17	17.8	0.23	2.40

Como previously conducted a detailed review of metallurgical testwork results when conducting the Fatal Flaw Analysis for Kin in April 2018. Further metallurgical testwork has since been conducted in late 2018 and early 2019 for the purpose of supporting this PFS. This recent work focussed on the fresh ore types from the Cardinia and Mertondale East mining centres (Helens, Lewis and Mertondale 3,4).

Metallurgical recoveries for the different ore sources have been derived from the testwork interpretation and used in the process design adopted by Como. The overall life of mine (LOM) metallurgical recovery based on the weighted average tonnes and grade included in the Production Estimate is 92.4% as calculated from the individual test results shown in tables 7a to 7c.

It is recognised by both Como and Kin that the average head grade of the metallurgical samples tested exceeds the production estimate head grade. In particular the Bruno Lewis production estimate has a significantly lower head grade than the testwork data from this pit. Further metallurgical testwork will be undertaken during the FEED phase to determine the sensitivity of metallurgical recovery to low grade oxide feeds. Como and Kin remain confident of achieving the weighted average metallurgical recovery estimated in the PFS.



TAILINGS STORAGE FACILITY (TSF)

The design, construction, and operation of the proposed Tailings Storage Facility (TSF) to dispose of and store tailings from the processing plant at the CGP is outlined below. This TSF design is based on a 10-year life, with a nominal ore processing rate of 1.5Mtpa. The design meets the requirements of the WA Department of Mines, Industry, Regulation and Safety (DMIRS), for an Integrated Waste Landform/Tailings Storage Facility (IWL/TSF).

The combined IWL/TSF will be referred to as the TSF. A site plan showing the location of the TSF in relation to other proposed infrastructure is presented in Figure 8 below.

The capacity of the TSF is 12.4Mt of tailings over 8.2 year LOM, which includes excess capacity of 1.0Mt. Further capacity beyond 12.4Mt may be achieved by an additional TSF wall raise. The TSF has a basal area of approximately 55ha and will have a maximum embankment height of 22m. A starter embankment will be constructed to provide a nominal two years of storage life at the commencement of processing. The TSF construction will be to raise the TSF walls along with the surrounding waste dump using downstream lift methods.

The design for the IWL/TSF is based on the following:

- Annual tailings production 1.5Mtpa.
- Tailings deposited at 50% to 60% solids.
- Total tailings production of 12.4Mt for a minimum Life of Mine of 8.2 years.
- Design in general accordance with ANCOLD Guidelines (2012). The consequence category will determine
 the water management (e.g. freeboard and stormwater storage capacity required) and geotechnical
 embankment design requirements.

The following operational considerations have been incorporated into the design:

- Tailings in the form of slurry will be discharged sub-aerially and cyclically into the facility in thin discrete layers, not exceeding 300mm thickness, in order to allow optimum density and strength gain by subjecting each layer to a drying cycle. Deposition will take place via multiple spigots located on the upstream perimeter embankment crest.
- Spigotting is to be carried out such that the supernatant pond is maintained within and around the rock ring decant. The pond is to be maintained away from the perimeter embankments at all times.
- Water will be removed from the facility and pumped back to the process plant via a decant pump located within the rock ring decant.
- On eventual decommissioning, the facility will remain as a permanent feature of the landscape and drain to become an increasingly stable mass.



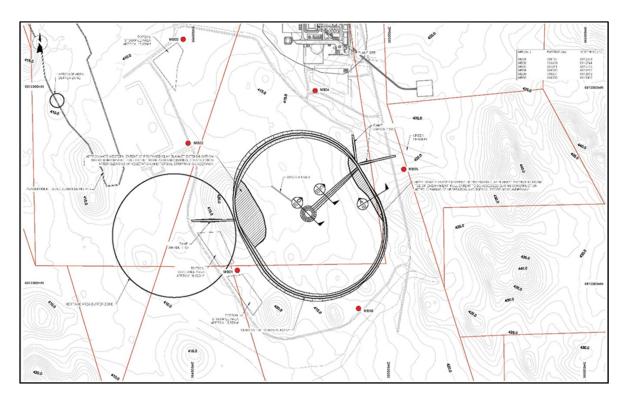


Figure 8. CGP Infrastructure highlighting the TSF

POWER SUPPLY

Power will be generated by an LNG fuelled Build-Own-Operate contract power station located at the Cardinia process plant site and distributed to the required locations. LNG will be sourced from the Murrin Murrin pipeline and piped to the power station.

The Pre-production capital cost includes all of the following power lines:

- Process Plant to Mining Hub.
- Process Plant to Cardinia Creek Bores.
- Process Plant to Bummer Creek Borefield.
- Accommodation Camp tee off from Bummer Creek line.

ROADS, TRANSPORT AND ACCOMMODATION

Road access to the CGP from Perth is 592km via the Great Eastern Highway to Kalgoorlie, then north a further 235km through Menzies to the Leonora townsite. Access to the Project is via the Leonora to Laverton Road and entering the southern end of the property via the proposed Site Access Road.

The CGP will be accessed via a new 13.5km unsealed Site Access Road to be developed from the Leonora to Laverton Road to the plant site. The Site Access Road will include access to the accommodation camp site and a branch to the Bummer Creek borefield.

A haul road will be developed from the Processing Plant Site at Cardinia north to Mertondale. This will be developed when required in advance of mining activities at Mertondale.

Roads to facilitate mining of the various locations will be developed as and when required by the mining contractor and will form part of their scope of works.



Alternative access to the site can be achieved via the Lewis Dirt Road. The existing 10m wide, unsealed access road is in operational condition for light vehicles during dry weather and can be used as an alternative route if required.

Capital construction costs of the Site Access Road, accommodation camp access, Mertondale Haul Road and Pit Access roads has been estimated by Lindsay Dynan after investigation of available borrow pits road alignment and quotations from suitable road construction contractors. The road designs are suitable for the required duty.

The CGP workforce and its contractors will be accommodated at a new 100 bed accommodation camp to be constructed on site. Catering and camp services will be provided by a camp contractor who will provide all meals, janitorial services and laundry services and will be paid on a person day basis.

The contractor will manage and co-ordinate camp building maintenance with equipment, materials and labour provided by the owner. The camp contractor will also provide the janitorial services for the site buildings and offices.

Capital supply and construction costs have been estimated by Kin from quotations received from suppliers of camps operating in the Goldfields region. Catering and camp services costs were estimated by Kin from these quotations.

PERMITTING AND ENVIRONMENTAL

Kin holds all the tenure that the CGP requires for execution of its activities. All mining areas and infrastructure areas are on existing granted mining leases. All studies to support the lodgement of the required approvals have been completed. Kin have used a range of consultants best suited to provide the following studies:

- Flora and fauna surveys completed across all project areas
- Soil and waste characterisation and management
- Subterranean field survey and laboratory assessments
- Surface hydrology
- Proposed plant, TSF and waste dump site sterilisation drilling
- Refreshed discussions with participants of previous ethnographic surveys

There have been no issues identified in these studies that are expected to delay the submission and approval of the required consents.

Following the 2017 DFS, Kin prepared and lodged a Mining Proposal and Works Approval for the first of two planned stages for the approvals for the CGP. The first stage, which was for the Construction of Processing Plant and Access Roads was approved by both the Department of Mines, Industry Regulation and Safety (DMIRS) and the Department of Water and Environmental Regulation (DWER) in early 2018, allowing commencement of the CGP processing plant construction (see ASX announcement dated 5 February 2018).

The proposed processing plant included in the 2019 PFS is sufficiently the same as the proposal in the 2017 DFS Stage 1 approval, already received.

In any event Kin proposes issuing new approval documents for a Mining Proposal and Works Approval for all required aspects of the CGP including all mining, processing and related activities (previous Stage 1 plus all other elements).

Kin is currently preparing those documents for a planned lodgement in the December 2019 half.



HERITAGE / NATIVE TITLE

Kin has conducted extensive heritage surveys and consultation over the past two years with archaeological and ethnographical consultants and Traditional Owners. Following those activities, Kin lodged a Section 18 request to relocate or disturb 19 heritage sites within the CGP disturbance footprint. The Section 18 request resulted in the removal of 18 sites from the Department of Planning and Land Heritage (DPLH) database and approval to relocate and or disturb the one remaining site.

Two native titles claims have been lodged over the CGP project area. The first, lodged in May 2018, has since failed to pass the registration test.

The second group, the Nyalpa Pirniku claimants, lodged a claim in February 2019 and had their registration accepted on 15th May 2019. While the claim has been registered no Native Title has yet been granted.

CAPITAL COSTS

Kin and its specialist consultants have derived the processing capital cost estimate (± 20% nominal accuracy) to provide cost estimates suitable for use in assessing the economics of the project and to provide the initial estimates of capital expenditure. The estimated LOM project capital cost is \$99.47million, inclusive of \$76.85M in Pre-production capital, \$5.30M in sustaining mining capital and \$17.32M in sustaining plant and infrastructure capital as summarised in Table 8.

The processing capital expenditure has been prepared by Como Engineers. This includes all aspects of the dismantling, relocation and refurbishment of the crushing, crushed ore delivery and 0.6MW ball mill components from the Lawlers Processing Plant, the refurbishment of the companies 2.5MW ball mill (already at Cardinia), and new components for the remainder of the Processing Facility which will have the capacity to treat up to 1.5Mtpa.

The PFS Pre-production capital cost estimate has been prepared on the basis of a robust deliverable project. Como have advised that during the FEED process that definitive cost estimates on all Pre-production capital costs will be provided inclusive of contingency. The PFS estimate has been prepared in the expectation of this and is considered sufficient to cover all reasonable costs.

Table 8. LOM Capital Cost Estimate Summary

CAPITAL COSTS	
1.5Mtpa Processing Plant (including Lawlers relocation and refurbishment)	\$44.26M
Infrastructure Capital (Borefield, Roads, TSF "Lift 1", power, Camp, Communications etc)	\$26.57M
Pre-Production Mining & Mine Establishment (Personnel, First Fill & Spares, Prestrip)	\$6.02M
Sub-Total (Pre-production Capital)	\$76.85M
Mining Haul Roads (post commissioning)	\$5.30M
Tailings Storage Facility Construction (post commissioning)	\$6.02M
Plant and Infrastructure Sustaining Capital	\$11.30M
Sub-Total (Sustaining Capital)	\$22.62M
TOTAL CAPITAL (LOM)	\$99.47M

Totals vary due to rounding.



OPERATING COSTS

The key operating cost estimates have been prepared by Entech Mining, Como Engineering and the Kin Project team. The mining costs (prepared by Entech Mining) have been estimated from first principles built from a "zero based budget" and 2019 pricing. These are considered to be sufficiently accurate for evaluation and PFS purposes. The processing costs (prepared by Como Engineers) were derived using the design criteria, equipment list, vendor quotations and historical data from Como Engineers' database. The operating costs for road, water and power have been based on information provided by suppliers of these services.

The LOM average AISC is \$1,442/oz. The operating costs over the LOM is summarised in Table 9.

Table 9. Operating LOM Cost Estimate

ltem	LOM Cost (\$M)	LOM Cost/oz	LOM Cost/Ore t
OP Mining	\$258.1	\$701.27	\$22.63
Surface Haulage	\$7.6	\$20.73	\$0.67
Processing	\$186.2	\$505.82	\$16.33
Refining	\$0.3	\$0.85	\$0.03
Silver Credits	(\$3.3)	(\$8.99)	(\$0.29)
Royalties	\$23.9	\$64.85	\$2.09
Onsite Overheads	\$23.8	\$64.75	\$2.09
Closure Costs	\$11.7	\$31.70	\$1.02
Sustaining Capital Costs	\$22.6	\$61.44	\$1.98
Total	\$530.9	\$1,442.44	\$46.56

Totals vary due to rounding.

ECONOMIC EVALUATION AND SENSITIVITY

The financial assessment is based on a base case using a US\$1,400/oz gold price, a USD:AUD exchange rate of 0.70 resulting in a \$2,000/oz gold price and capital and operating costs as described above.

Table 10 identifies the changes in the primary financial results assuming a range of USD gold prices at a consistent exchange rate. The Project's financial outcomes are more sensitive to revenue factors than operating cost factors or capex, highlighting the leverage to a rising or falling gold price.

Table 10. Economic Evaluation with varying Gold Price

Gold price (\$/oz)	Cumulative Cashflow (\$M)	NPV (A\$M) based on 8% discount rate	IRR	Payback Years	Gold Price (US\$/oz)
\$2,300	235.5	143.6	34%	3.1	1,610
\$2,200	199.8	118.0	29%	3.4	1,540
\$2,100	164.1	92.4	23%	4.0	1,470
\$2,000	128.4	66.8	17%	4.7	1,400
\$1,900	92.7	41.2	11%	5.1	1,330
\$1,800	57.0	15.6	4%	5.6	1,260



Figure 9 outlines the quarterly and cumulative Base Case cash flows modelled for the Project at the assumed \$2,000/oz gold price. The commencement of mining and trucking ore from Mertondale ore sources in year three has a notable impact on cash flow, underscoring the potential to improve forecast economics by introducing higher value ore.

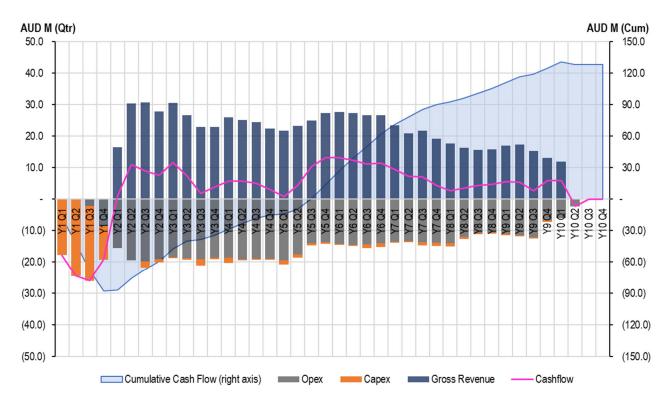


Figure 9. Project Cashflow (Quarterly), Base Case

Figure 10 demonstrates the level of sensitivity of the Net Free Cashflows from the base case of \$128.4M. The revenue factors have the greatest risk of impact. A 10% increase in operating costs will have a similar impact on free cash and NPV as a US\$100/oz fall in the gold price.

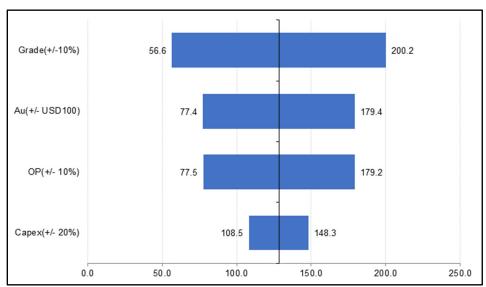


Figure 10. Sensitivity of Net Free Cashflow (Base case = \$128.4M) to changes in inputs



PROJECT FINANCE

The financing required to construct and commission the CGP is an estimated \$90 million. Kin intends to finance the construction of the CGP infrastructure and the mine establishment costs for the open pit operations through a combination of project debt and equity. The Company will take a measured approach in setting the level of debt whilst minimising shareholder dilution.

ESTIMATED TIME TO PRODUCTION

The PFS estimates gold production would commence 13 months after the commencement of construction. This assumes a 12 month construction period. Preceding construction there is a financing, Front End Engineering and Design (FEED) and Definitive Feasibility Study phase. All statutory approvals are expected to be granted within this timeline to allow the development to proceed as planned, subject to a future decision to mine by the Kin Board.

RISKS AND OPPORTUNITIES

Key risks identified during the 2019 PFS work include, but are not limited to:

- Access to project funding.
- Timely project approvals from government authorities.
- Adverse movements in the Australian gold price.
- Adverse movements in USD:AUD exchange rates.
- Not achieving the planned gold grade, mining production rates, dilution assumptions and metallurgical recovery rates.
- Adverse movement in energy prices including diesel and gas.

Key opportunities identified during the 2019 PFS work include, but are not limited to:

- Exploration success which may be incorporated into the future mine plan. The displacement of ore from Mertondale starting in year 3 has potential to significantly impact forecast financial returns.
- Accretive regional consolidation to support additional higher margin ore supply
- Market enquiry on mining costs relative to the Entech mining cost estimate.
- Identification of potential cost-saving measures from forecast capital and operating expenditure

-ENDS-

For further information, please contact:

Investor enquiries

Andrew Munckton Managing Director, Kin Mining NL +61 8 9242 2227 Media enquiries

Michael Vaughan Fivemark Partners +61 422 602 720



FORWARD LOOKING STATEMENTS AND REASONABLE BASIS

This release contains "forward-looking information" that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to the feasibility and definitive feasibility studies, the Company's' business strategy, plan, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral reserves and resources, results of exploration and operational expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'likely',' believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein.

This list is not exhausted of the factors that may affect our forward-looking information. These and other factors should be considered carefully and readers should not place undue reliance on such forward-looking information. The Company disclaims any intent or obligations to or revise any forward-looking statements whether as a result of new information, estimates, or options, future events or results or otherwise, unless required to do so by law. Statements regarding plans with respect to the Company's mineral properties may contain forward-looking statements in relation to future matters that can be only made where the Company has a reasonable basis for making those statements. This announcement has been prepared in compliance with the JORC Code 2012 Edition and the current ASX Listing Rules. The Company believes that it has a reasonable basis for making the forward-looking statements in this announcement, including with respect to any mining of mineralised material, modifying factors and production targets and financial forecasts.

COMPETENT PERSON'S STATEMENT (MINERAL RESOURCES)

The information contained in this report relating to Resource Estimation results for Bruno Lewis, Kyte, Helens and Mertondale East relates to information compiled by Mr. Jamie Logan. Mr. Logan is a member of the Australian Institute of Geoscientists and is a full time employee of the company. Mr. Logan has sufficient experience of relevance to the styles of mineralisation and the types of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Logan consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

The information in this report that relates to 2017 Mineral Resources for Mertondale 5, Tonto, Rangoon (including Fiona) and Leonardo / Michaelangelo is based on information reviewed and compiled by Dr. Spero Carras of Carras Mining Pty Ltd (CM). Dr. Carras is a Fellow of the Australasian Institute Mining and Metallurgy (AusIMM) and has over 40 years' experience 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. Mark Nelson, Consultant Geologist to CM with over 30 years' experience and is a Member of the Australasian Institute Mining and Metallurgy (AusIMM) with sufficient experience in 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. Gary Powell Consultant Geologist to CM with over 30 years' experience and is a Member of the Australasian Institute Mining and Metallurgy (AusIMM) and the AIG with sufficient experience in 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".

CM also acted as auditors of the 2009 McDonald Speijers resource estimates for Eclipse, Quicksilver, Forgotten Four and Krang. Dr. S. Carras, Mr. Mark Nelson and Mr. Gary Powell consent to the inclusion in the report of the matters based on their information in the context in which it appears.



The information contained in this report relating to exploration results relates to information compiled or reviewed by Glenn Grayson. Mr. Grayson is a member of the Australasian Institute of Mining and Metallurgy and is a full-time employee of the company. Mr. Grayson has sufficient experience of relevance to the styles of mineralisation and the types of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves".

Mr. Grayson consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

COMPETENT PERSON'S STATEMENT (ORE RESERVES)

The information contained in the report that relates to ore reserves at the Cardinia Gold Project is based on information compiled or reviewed by Mr. Craig Mann who is a fulltime employee of Entech Pty Ltd. Mr. Mann confirms that he has read and understood the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012 JORC Edition). He is a Competent Person as defined by the JORC Code 2012 Edition, having five years' experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which he is accepting responsibility. He is a Member of The Australasian Institute of Mining and Metallurgy, he has reviewed the Report to which this consent statement applies, for the period ended 31st August 2019. He verifies that the Report is based on and fairly and accurately reflects in the form and context in which it appears, the information in his supporting documentation relating to Ore Reserves.



Appendix 1 - 2019 PFS VS 2017 DFS

The 2019 PFS varies in a number of ways from the 2017 DFS, as announced to the ASX on 2 October 2017, including:

- Mineral Resources reduced by 18% or 3.6Mt equating to 182,000oz resulting from reinterpretation of the geological models
- Ore Reserve average grade decreased from 1.5g/t Au to 1.1g/t Au by a combination of re-interpretation of geological models, shallower pits (driven by mining cost estimate increases) and increased mining dilution assumptions
- LOM Revenue increased to A\$736M resulting from increased Gold price offset by lower LOM gold production
- Increased Pre-production Capital Cost as a result of Processing Plant Construction estimate by Como Engineers and increased Pre-production Infrastructure spend to establish access, water supply, power supply, roads, mobilisation, ROM pad and Tails Dam lift #1.
- Increased Operating Cost estimate by \$115.8M due to 2019 labour rates, 2019 diesel price, realistic and current contractor mining pricing, treatment of additional 2.8Mt ore, extension of LOM by 1.5 years and inclusion of closure costs - offset by lower stripping ratio and lower unit processing costs.
- Increased Sustaining LOM Capital cost estimate in line with Como Engineering estimate of Process Plant sustaining costs and LOM tails dam lifts.

Table 1. 2019 PFS vs 2017 DFS

Leonora Gold Project 2019 PFS V 2017 [FS Parameters			
	2017 DFS	2019 PFS	Variance	Change
Mineral Resources ¹	22.3Mt at 1.43g/t	18.7Mt at 1.44g/t	(182,000) oz	(18)%
Ore Reserves ²	7.9Mt at 1.5g/t Au	7.9Mt at 1.1g/t Au	(93,000) oz	(25)%
Gold Price – Pit Design/Revenue (A\$)	\$1600/\$1600	\$1800/\$2000	+\$200/+\$400	12.5%/25%
Average Stripping Ratio W:O	8.0	5.2	(2.8)	(35)%
Production Estimate Milled Tonnes	8.6Mt	11.4Mt	2.8Mt	33%
Production Estimate Plant Feed Grade	1.46g/t	1.09g/t	(0.37)g/t	(25)%
Production Estimate Metallurgical Recovery	91.5%	92.4%	0.9%	1%
Total Recovered Gold Production	372koz	368koz	(4) koz	(1) %
Maximum Processing Rate	1.5Mtpa	1.5Mtpa	-	-
LOM	6.7 Years	8.2 years	1.5 years	+22%
Revenue (A\$)	\$596M	\$736M	\$140.0M	+23%
Pre-Production Capital Cost	\$35.4M	\$76.9M	+\$41.5M	+117%
Project Operating Costs (C1)	\$357.0M	\$472.8M	+\$115.8M	+32%
Sustaining Capital	\$9.5M	\$22.6M	+\$13.1M	+138%
Pre-Tax Operating Cash Surplus	\$167.9M	\$128.4M	(\$39.6)M	(24)%
NPV (8%)	\$107.4M	\$66.8M	(\$40.6)M	(38)%
All in Sustaining Cost (A\$/oz)	\$1,054	\$1,442	\$388	+37%
IRR	77%	17%	(60)%	-

¹ See Table 3

² See Table 1

Totals vary due to rounding.



Annexure 1 – JORC Code Table 1



JORC 2012 TABLE 1 REPORT CARDINIA GOLD PROJECT

Appendix A

JORC 2012 TABLE 1 REPORT

Cardinia Gold Project - Section 1 & 2

Bruno-Lewis, Helens, Kyte, Mertondale East

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	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. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Diamond Historic (pre-2014) diamond core (DD) sampling utilised half core or quarter core sample intervals; typically varying from 0.3m to 1.4m in length. 1m sample intervals were favoured and sample boundaries principally coincided with geological contacts. Recent (2014-2018) diamond core (DD) samples, either HQ3 or NQ2 in size diameter, were either cut in half longitudinally or further cut into quarters, using a powered diamond core drop saw centered over a cradle holding core in place. Core sample intervals varied from 0.2 to 1.25m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected geological contacts. 2019 diamond core samples, either HQ3 or NQ2 in size diameter, were either cut in half longitudinally or a third longitudinally, using an automated Corewise core saw Core was placed in boats, holding core in place. Core sample intervals varied from 0.3 to 1.3m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected geological contacts. RC Historic reverse circulation (RC) drill samples were collected over 1m downhole intervals beneath a cyclone and typically riffle split to obtain a sub-sample (typically 3-4kg). 1m sub-samples were typically collected in prenumbered calico bags and 1m sample rejects were commonly stored at the drill site. 3m or 4m composited interval samples were often collected by using a scoop (dry samples) or spear (wet samples). If composite



Criteria	JORC Code explanation	Commentary
	Aspects of the determination of mineralisation that are Material to	samples returned anomalous results once assayed, the single metre sub-samples of the anomalous composite intervals were retrieved and submitted for individual gold analysis.
	the Public Report. In cases where 'industry standard'	Recent reverse circulation (RC) drill samples were collected by passing through a cyclone, a sample collection box, and riffle or cone splitter. All RC sub-samples were collected over one metre downhole intervals and averaged 3-4kg.
	work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3	2019 RC drilling samples were collected in 1m downhole intervals by passing through a cyclone, a collection box and then dropping through a cone splitter. All RC sub-samples were collected over one metre downhole intervals and averaged 3-4kg.
	kg was pulverised to produce a	AC/RAB
	30g 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	Historic air core (AC) and rotary air blast (RAB) were typically collected at 1 metre intervals and placed on the ground with 3-4kg sub-samples collected using a scoop or spear. Three metre or four metre composited interval samples were often collected by using a scoop (dry samples) or spear (wet samples). If composite samples returned anomalous results once assayed, the single metre sub-samples of the anomalous composite intervals were retrieved and submitted for individual gold analysis.
	commodities or mineralisation	Assay Methodology
	types (eg submarine nodules) may warrant disclosure of detailed information.	Historic sample analysis typically included a number of commercial laboratories with preparation as per the following method, oven drying (90-110°C), crushing (<-2mm to <-6mm), pulverizing (<-75μm to <-105μm), and riffle split to obtain a 30, 40, or 50gram catchweight for gold analysis. Fire Assay fusion, with AAS finish was the common method of analysis however, on occasion, initial assaying may have been carried out via Aqua Regia digest and AAS/ICP finish. Anomalous samples were subsequently re-assayed by Fire Assay fusion and AAS/ICP finish.
		Recent sample analysis typically included oven drying (105-110°C), crushing (<-6mm & <-2mm), pulverising (P90% <-75µm) and sample splitting to a representative 50gram catchweight sample for gold only analysis using Fire Assay fusion with AAS finish.
		All recent drilling, sample collection and sample handling procedures were conducted and/or supervised by KIN geology personnel to high level industry standards. QA/QC procedures were implemented during each drilling program to industry standards.
Drilling techniques	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).	Drilling carried out since 1986 and up to the most recent drill programs completed by KIN Mining was obtained from a combination of reverse circulation (RC), diamond core (DD), air core (AC), and rotary air blast (RAB) drilling.
		Data prior to 1986 is limited due to lack of exploration.
		Diamond
		Historic DD was carried out using industry standard 'Q' wireline techniques, with the core retrieved from the inner tubes and placed in core trays. Core sizes include NQ/NQ3 (Ø 45-48mm) and HQ/HQ3 (Ø 61-64mm). At the end of each core run, the driller placed core blocks in the tray, marked with hole number and depth. Core recovery was usually measured for each core run and recorded onto the geologist's drill logs.
		2017 – 2018 DD was carried out by contractor Orbit Drilling Pty Ltd ("Orbit Drilling") with a Mitsubishi truck-mounted Hydco 1200H 8x4 drill rig, using industry standard 'Q' wireline techniques. 2019 DD was carried out y Topdrill Pty



Criteria	JORC Code explanation	Commentary
		Ltd. With a Sandvick DE840 mounted on a Mercedes Benz 4144 Actros 8x8 Carrier. The rig is fitted with Sandvik DA555 hands free diamond drilling rod handler and Austex hands free hydraulic breakout.
		Drill core is retrieved from the inner tubes and placed in plastic core trays and each core run depth recorded onto core marker blocks and placed at the end of each run in the tray. Core sizes include NQ2 (Ø 47mm) and HQ3 (Ø 64mm).
		Recent DD core recovery and orientation was obtained for each core run where possible, using electronic core orientation tools (e.g. Reflex EZ-ACT) and the 'bottom of core' marked accordingly.
		2017 -18 drilling was measured at regular downhole intervals, typically at 10-15m from surface and then every 30m to bottom of hole, using electronic multi-shot downhole survey tools (i.e. Reflex EZ-TRAC or Camteq Proshot). Independent programs of downhole deviation surveying were also carried out to validate previous surveys. These programs utilised either electronic continuous logging survey tool (AusLog A698 deviation tool) or gyroscopic survey equipment.
		2019 DD was surveyed at regular downhole intervals using electronic gyroscopic survey equipment.
		RC
		Historic RC drilling used conventional reverse circulation drilling techniques, utilising a cross-over sub, or face- sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm.
		2017-18 RC drilling was carried out by Orbit Drilling's truck-mounted Hydco 350RC 8x8 Actross drill rigs with 350psi/1250cfm air compressor, with auxiliary and booster air compressors (when required). Drilling utilised mostly downhole face-sampling hammer bits (Ø 140mm), with occasional use of blade bits for highly oxidized and soft formations. The majority of drilling retrieved dry samples, with the occasional use of the auxiliary and booster air compressors beneath the water table, to maintain dry sample return as much as possible. RC drillhole deviations were surveyed downhole, typically carried out inside a non-magnetic stainless steel (s/s) rod located above the hammer, using electronic multi-shot downhole tool (e.g. Reflex EZ-TRAC). In some instances, drillholes were surveyed later in open hole. Independent programs of downhole deviation surveying were also carried out to validate previous surveys. These programs utilised either electronic continuous logging survey tool (AusLog A698 deviation tool) or gyroscopic survey equipment.
		2019 RC drilling was carried out by Swick Mining Services truck-mounted Swick version Schramm 685 RC Drill Rig (Rod Handler & Rotary Cone Splitter) with support air truck and dust suppression equipment. Drilling utilised downhole face-sampling hammer bits (Ø 140mm). The majority of drilling retrieved dry samples, with the occasional use of the auxiliary and booster air compressors beneath the water table, to maintain dry sample return as much as possible.
		AC/RAB
		Historic AC drilling was conducted by Navigator utilising suitable rigs with appropriate compressors (eg 250psi/600cfm). AC holes were drilled using 'blade' or 'wing' bits, until the bit was unable to penetrate ('blade refusal'), often near the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate further into the fresh rock profile or through notable "hard boundaries" in the regolith profile. No downhole surveying is noted to have been undertaken on AC drillholes.
		Historic RAB drilling was carried out using small air compressors (eg 250psi/600cfm) and drill rods fitted with a percussion hammer or blade bit, with the sample return collected at the drillhole collar using a stuffing box and



Criteria	JORC Code explanation	Commentary
		cyclone collection techniques. Drillhole sizes generally range between 75-110mm. No downhole surveying is noted to have been undertaken on RAB drillholes.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 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.	Diamond Historic core recovery was recorded in drill logs for most of the diamond drilling programs since 1985. A review of historical reports indicates that core recovery was generally good (>80%) with lesser recoveries recorded in zones of broken ground and/or areas of mineralisation. Overall recoveries are considered acceptable for resource estimation. Recent core recovery data was recorded for each run by measuring total length of core retrieved against the downhole interval actually drilled and stored in the database. KIN representatives continuously monitor core recovery and core presentation quality as drilling is conducted and issues or discrepancies are rectified promptly to maintain industry best standards. Core recoveries averaged >95%, even when difficult ground conditions were being encountered. RC/AC/RAB Historic sample recovery information for RC, AC, and RAB drilling is limited. Recent RC drilling samples are preserved as best as possible during the drilling process. At the end of each 1 metre downhole interval, the driller stops advancing, retracts from the bottom of hole, and waits for the sample to clear from the bottom of the hole through to the sample collector box fitted beneath the cyclone. The sample is then released from the sample box. Drilling prior to 2018 utilised riffle split collection whereas sample collection via a cone splitter was conducted for drilling undertaken since March 2018; cyclone cleaning processes remained the same. Sample reject is collected in plastic bags, and a 3-4kg sub-sample is collected in pre-marked calico bags for analysis. Once the samples have been collected, the cyclone, sample collector box and riffle splitter are flushed with compressed air, and the splitter cleaned by the off-sider using a compressed air, hose at both the end of each 6 metre drill rod and then extensively cleaned at the completion of each hole. This process is maintained throughout the entire drilling program to maximise drill sample recovery and to maintain a high level of re
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation,	Logging data coded in the database, prior to 2014, illustrates at least four different lithological code systems, a legacy of numerous past operators (MEGM, Pacmin, SOG, and Navigator). Correlation between codes is difficult to establish however, based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time. KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.



Criteria	JORC Code explanation	Commentary
	mining studies and metallurgical studies.	Diamond
		Diamond core logging is typically logged in more detail compared to RC, AC, and RAB drilling.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Historical diamond core logging procedures are not well documented however core logging was recorded into drill logs for most of the diamond drilling programs since 1985. A review of historical reports indicates that logging noted core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features. Core was then marked up for cutting and sampling.
	The total length and percentage of the relevant intersections logged.	Navigator's procedure for logging of diamond core included firstly marking of the bottom of the core (for successful core orientations), then recording of core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features. Core was then marked up for cutting and sampling. Navigator DD logging is predominantly to geological contacts.
		Navigator logging information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.
		Drill core photographs, for drilling prior to 2014, are available only for diamond drillholes completed by Navigator.
		KIN DD logging is carried out at the KIN yard in Leonora once geology personnel retrieve core trays from the drill rig site. These are relocated to the KIN yard in Leonora each day. Drill core is photographed at the Leonora yard, prior to any cutting and/or sampling, and then stored in this location.
		Recorded data includes lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded. KIN DD logging is to geological contacts.
		Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, veining, and in addition, logging of diamond drilling includes geotechnical data, RQD and core recoveries.
		KIN logging is inclusive of the entire length of each drillhole from surface to 'end of hole'. Diamond core logging is typically logged in more detail compared to RC drilling.
		Photographs are available for every diamond drillhole completed by KIN and a selection of various RC drillholes.
		All information collected is entered directly into laptop computers or tablets, validated in the field, and then transferred to the database.
		The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies, and metallurgical studies.
		Diamond drillholes completed for geotechnical purposes were independently logged for structural data by geotechnical consultants.
		RC/AC/RAB
		Historical RC, AC, and RAB logging was entered on a metre by metre basis. Logging consisted of lithology, alteration, texture, mineralisation, weathering, and other features
		Navigator RC and AC logging was entered on a metre by metre basis. Logging consisted of lithology, alteration, texture, mineralisation, weathering, and other features.



Criteria	JORC Code explanation	Commentary
		Navigator logging information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.
		For the majority of historical drilling (pre-2004) the entire length of each drillhole have been logged from surface to 'end of hole'.
		KIN RC logging of was carried out in the field and logging has predominantly been undertaken on a metre by metre basis. KIN logging is inclusive of the entire length of each RC drillhole from surface to 'end of hole'.
		Recorded data includes lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded.
		Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, and veining.
		Photographs are available for a selection of recent KIN RC drillholes.
		All information collected is entered directly into laptop computers or tablets, validated in the field, and then transferred to the database.
		The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies, and metallurgical studies.
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	Historical reports for drill programs prior to 2004, are and have not always been complete in the description of subsampling techniques, sample preparation, and quality control protocols. Errors may be present in the following commentary as a direct result of this however this is deemed relatively immaterial to the final mineral estimation.
	If non-core, whether riffled, tube	Diamond
	sampled, rotary split, etc and whether sampled wet or dry.	Historic diamond drill core (NQ/NQ3 or HQ/HQ3) samples collected for analysis were longitudinally cut in half, and occasionally in quarters for the larger (HQ/HQ3) diameter holes, using a powered diamond core drop saw
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	centered over a cradle holding the core in place. Half core or quarter core sample intervals typically varied from 0.3m to 1.4m in length. 1m sample intervals were favoured and are the most common method of sampling, however sample boundaries do principally coincide with geological contacts. The remaining core was retained in core trays.
	Quality control procedures adopted for all sub-sampling stages to	Where historical reports do not describe the sampling protocol for sampling of drill core, it is assumed that drill core was sampled as described above.
	maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including	2017-18 diamond drill core samples collected for analysis were longitudinally cut in half, with some samples cut into quarters, using a powered diamond core drop saw blade centered over a cradle holding the core in place. Core sample intervals varied from 0.2 to 1.25m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected geological contacts. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference. All KIN diamond drill core is securely stored at the KIN Leonora Yard.
for instance results for field duplicate/second-half sampling.	2019 diamond drill core samples collected for analysis were longitudinally cut in half, with some samples cut into thirds, using an automated Corewise powered diamond core saw with the blade centered over a boat holding the core in place. Core sample intervals varied from 0.2 to 1.25m in length but were predominantly aligned to 1m	



Criteria	JORC Code explanation	Commentary
	Whether sample sizes are appropriate to the grain size of the material being sampled.	intervals or with sample boundaries which respected geological contacts. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference. All KIN diamond drill core is securely stored at the Cardinia coreyard.
	being sampled.	All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of drilled material. QA/QC procedures implemented during each drilling program are to industry standard practice.
		Samples sizes are considered appropriate for this style of gold mineralisation and as an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia.
		RC/AC/RAB
		Historic sampling was predominantly conducted by collecting 1m samples from beneath a cyclone and either retaining these primary samples or passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split samples being retained at the drill site as spoil or in sample bags. If composite sample assays returned anomalous results, the single metre samples for this composite were retrieved and submitted for analysis. RC/AC/RAB sampling procedures are believed to be consistent with the normal industry practices at the time.
		Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.
		The vast majority of Reverse Circulation (RC) drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in pre-numbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
		Navigator obtained sub-samples from wet samples using the spear or tube method.
		There are no sample rejects available from RC drilling prior to 2014 as most drill sites have been rehabilitated and the sample bags either removed or destroyed.
		Navigator included standards, fields duplicate splits (since 2009), and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples.
		Recent RC sub-samples were collected over 1 metre downhole intervals and retained in pre-marked calico bags, after passing through a cyclone and either a riffle splitter, prior to March 2018, or cone splitter, after March 2018. The majority of RC sub-samples consistently averaged 3-4kg. Sample reject from the riffle splitter were retained and stored in plastic bags, and located near each drillhole site. When drilling beneath the water table, the majority of sample returns were kept dry by the use of the auxiliary and booster air compressors. Very few wet samples were



Criteria	JORC Code explanation	Commentary
		collected through the splitter, and the small number of wet or damp samples is not considered material for resource estimation work.
		KIN RC drill programs utilise field duplicates, at regular intervals at a ratio of 1:25, and assay results indicate that there is reasonable analytical repeatability; considering the presence of nuggety gold.
		All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of drilled material. QA/QC procedures implemented during each drilling program are to industry standard practice.
		Samples sizes are considered appropriate for this style of gold mineralisation and as an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia.
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used	Numerous assay laboratories and various sample preparation and assay techniques have been used since 1981. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.
	and whether the technique is considered partial or total.	Assay data obtained prior to 2001 is incomplete and the nature of results could not be accurately quantified due to the combinations of various laboratories and analytical methodologies utilised.
	For geophysical tools, spectrometers, handheld XRF instruments, etc,	Since 1993, the majority of samples submitted to the various laboratories were typically prepared for analysis firstly by oven drying, crushing and pulverizing to a nominal 85% passing 75µm.
the parameters use determining the and instrument make ar	the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors	In the initial exploration stages, Aqua Regia digest with AAS/ICP finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS/ICP finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 30, 40 or 50 gram catchweights) with AAS/ICP finish.
	applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks,	Approximately 15-20% of the sampled AC holes may have been subject to Aqua Regia digest methods only, however AC samples were predominantly within the oxide profile, where aqua regia results would not be significantly different to results from fire assay methods.
	duplicates, external laboratory	Limited information is available regarding check assays for drilling programs prior to 2004.
le an	checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	During 2004-2014, Navigator utilised six different commercial laboratories during their drilling programs, however Kalgoorlie Assay Laboratories conducted the majority of assaying for diamond, RC, and AC samples using Fire Assay fusion on 40 gram catchweights with AAS/ICP finish.
		Since 2009 Navigator regularly included field duplicates and Certified Reference Material (CRM), standards and blanks, with their sample batch submissions to laboratories at average ratio of 1 in 20 samples. Sample assay repeatability and blank and CRM standard assay results were typically within acceptable limits.
		KIN sample analysis from 2014 to 2018 was conducted by SGS Australia Pty Ltd's ("SGS") Kalgoorlie and Perth laboratories. Sample preparation included oven drying (105°C), crushing (<6mm), pulverising (P90% passing 75µm) and riffle split to obtain a 50 gram catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish (SGS Lab Code FAA505).
		 KIN regularly insert blanks and CRM standards in each sample batch at a ratio of 1:50. This allows for at least one blank and one CRM standard to be included in each of the laboratory's fire assay batch of 50 samples. Field duplicates are typically collected at a ratio of 1:50 samples and test sample assay repeatability. Blanks and CRM



Criteria	JORC Code explanation	Commentary
		standards assay result performance is predominantly within acceptable limits for this style of gold mineralisation.
		 KIN requests laboratory pulp grind and crush checks at a ratio of 1:50 or less since May 2018 in order to better qualify sample preparation and evaluate laboratory performance. Samples have generally illustrated appropriate crush and grind size percentages since the addition of this component to the sample analysis procedure.
		 SGS include laboratory blanks and CRM standards as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are typically within acceptable limits.
		From late 2018 samples have been analysed by Intertek Genalysis, with sample preparation either at their Kalgoorlie prep laboratory or the Perth Laboartory located in Maddington Sample preparation included oven drying (105°C), crushing (<6mm), pulverising (P90% passing 75µm) and split to obtain a 50 gram catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish.
		 KIN regularly insert blanks and CRM standards in each sample batch at a ratio of 1:25. Kin accepts that this ratio of QAQC is industry standard. Field duplicates are typically collected at a ratio of 1:25 samples and test sample assay repeatability. Blanks and CRM standards assay result performance is predominantly within acceptable limits for this style of gold mineralisation.
		 KIN requests laboratory pulp grind and crush checks at a ratio of 1:50 or less since May 2018 in order to better qualify sample preparation and evaluate laboratory performance. Samples have generally illustrated appropriate crush and grind size percentages since the addition of this component to the sample analysis procedure.
		 Genalysis include laboratory blanks and CRM standards as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are typically within acceptable limits.
		The nature and quality of the assaying and laboratory procedures used are considered to be satisfactory and appropriate for use in mineral resource estimations.
		Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay technique with AAS or ICP finish. AAS and ICP methods of detection are both considered to be suitable and appropriate methods of detection for this style of mineralisation
		Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.
		No other analysis techniques have been used to determine gold assays.
		Ongoing QAQC monitoring program identified one particular CRM returning spurious results. Further analysis demonstrated that the standard was compromised and was subsequently removed and destroyed. A replacement CRM of similar grade was substituted into the QAQC program.
		KIN continues to both develop and reinforce best practice QAQC methods for all drilling operations and the treatment and analysis of samples. Regular laboratory site visits and audits have been introduced since April 2018 and will be conducted on a quarterly basis. This measure will ensure that all aspects of KIN QAQC practices are adhered to and align with industry best practice.



Criteria	JORC Code explanation	Commentary
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	Verification of sampling, assay techniques, and results prior to 2004 is limited due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories.
	The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data.	In 2009, Runge Ltd ("Runge") completed a mineral resource estimate report for the Cardinia Project area, including the Helens and Rangoon deposits. Runge's database verification included basic visual validation in Surpac and field verification of drillhole positions in February 2009. Runge did not report any significant issues with the database. Since 2014, significant drill intersections have been verified by KIN company geologists during the course of the drilling programs. During 2017, Carras Mining Pty Ltd ("CM") carried out an independent data verification. 10,499 assay records for KIN 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 6 errors were found, which are not considered material and which represented only 0.015% of all database records verified for KIN 2014-2017 drilling programs No adjustments, averaging or calibrations are made to any of the assay data recorded in the database. QA/QC protocol is considered industry standard with standard reference material submitted on a routine basis. Recent (2014-2018) RC and diamond drilling by KIN included twinning of some historical holes within the Helens and Rangoon resource areas. There is no significant material difference between historical drilling information and KIN drilling information. No material difference of a negative nature exists between historical drilling information and KIN drilling information. KIN diamond holes drilled for metallurgical and geotechnical test work illustrate assay results with adequate correlation to both nearby historical and recent drilling results.
		No adjustment or calibration has been made to assay data.
Location of data points	Accuracy and quality of surveys used to locate drill holes (collar and	Several local grids were established and used by previous project owners. During the 1990s, SOG transformed the surface survey data firstly to AMG and subsequently to MGA (GDA94 zone51).
	down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used.	Drilling was carried out using these various local grids. Since 2004, All Navigators drill hole collars were surveyed on completion of drilling in the Australian MGA94, Zone51 grid using RTK-DGPS equipment by licensed surveyors, with more than 80% of the pickups carried out by independent contractors.
		Almost all the diamond and at least 70% of Navigator RC holes were downhole surveyed. Pre-Navigator, single shot survey cameras were used, with typical survey intervals of 30-40 metres.
	Quality and adequacy of topographic control.	Recent KIN drill hole collars are located and recorded in the field by a contract surveyor using RTK-DGPS (with a horizontal and vertical accuracy of ±50mm). Location data was collected in the GDA94 Zone51 grid coordinate system.
		Downhole surveying was predominantly carried out by the drilling contractor; Orbit Drilling Pty Ltd. KIN recognised that some of the downhole survey data appeared to be spurious, and commissioned an independent downhole surveying program by a survey contractor (BHGS, Perth) to check several drillholes at Helens and Rangoon. The



Criteria	JORC Code explanation	Commentary
		check survey found occasional spurious results with the initial surveys. This can be explained by the fact that when the drilling company's survey tool is run inside the drill rods, the tool's sensors need to be located exactly in the middle of the bottom stainless steel (s/s) RC rod to obtain accurate readings. Check readings by KIN personnel at different locations within the s/s rod found that variation in azimuth can be measured up to 2°, within 1 metre from the centre of the rod, and up to 10° further away from the centre. The positioning of the tool by the drilling contractor is assumed to be within 1 metre of the centre of the s/s rod for the majority of the drilling program. Therefore, given the nature of the mineralisation and the shift in apparent position of up to 5 metres (for 2° variation) along 'strike' for open pit depths (<140 metres), the occasional errors are not considered material for this resource estimation work.
		Downhole durveying in 2019 has been conducted by the drilling contractors (Topdrill Pty Ltd and Swick Mining Services Pty Ltd) utilizing electronic gyroscopic survey tools. These are considered very accurate with no further surveying required to check drill hole deviation.
		In addition, if the downhole survey tool is located within 15 metres of the surface, there is risk of influence from the drill rig affecting the azimuth readings. This was observed for the survey readings, which include total magnetic intensity (TMI) measurements, where TMI is spurious for readings taken at downhole depths less than 20 metres. These spurious readings are included in the database, but are not used.
		A small selection of drillhole collars, which do not have DGPS collar surveys, were picked up with a handheld GPS and individually appraised in regards to their location prior to modelling; the position of these collars is deemed appropriate for the resource estimation work.
		Considering the history of grid transformations and surviving documentation, there might be some residual risk of error in the MGA co-ordinates for old drillholes, however this is not considered to be material for the resource estimation.
		Azimuth data was historically recorded relative to magnetic north. Much of the historical drilling data was recorded relative to magnetic north. Variation in magnetic declination for the Cardinia Project area is calculated at +0.823° East (1985) to +1.301° East (2017), with a maximum variation of +1.575° in 2005. The difference between true north and magnetic north, and the annual variation in magnetic declination since 1985 is not significant, therefore magnetic north measurements have been used, where true north data is unavailable, for all survey data used in resource estimation processes.
		The accuracy of drill hole collars and downhole data are located with sufficient accuracy for use in resource estimation work.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Drill hole spacing patterns vary considerably throughout the Cardinia Project area and are deposit specific, depending on the nature and style of mineralisation being tested.
	Whether the data spacing and distribution is sufficient to establish	Drill hole spacing within the resource area is sufficient to establish an acceptable degree of geological and grade continuity and is appropriate for both the mineral resource estimation and the resource classifications applied.
	the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	Sample compositing of 1m was conducted for the resource estimation. The vast majority (95%) of primary assay intervals are 1 metres interval for RC drill samples with diamond drilling illustrating a greater degree of sample interval length variation. AC and RAB assay data was not included in the resource estimation and was only utilised for geological interpretation.



Criteria	JORC Code explanation	Commentary
	Whether sample compositing has been applied.	
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. 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.	The sheared Cardinia greenstone sequence displays a NNW to NW trend. Drilling and sampling programs were carried out to obtain unbiased locations of drill sample data, generally orthogonal to the strike of mineralisation. Mineralisation is structurally controlled in sub-vertical shear zones within the Cardinia area, with supergene components of varying lateral extensiveness present in the oxide profile. The vast majority of historical drilling, pre-Navigator (pre-2004), and KIN drilling is orientated at -60°/245° (WSW) and -60°/065° (ENE). The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in data thus far.
Sample security	The measures taken to ensure sample security.	No sample security details are available for pre-Navigator (pre-2004) drill or field samples. Navigator drill samples (2004-2014) were collected in pre-numbered calico bags at the drill rig site. Samples were then collected by company personnel from the field and transported to the secure Navigator yard in Leonora. Samples were then batch processed (drillhole and sample numbers logged into the database) and then packed into 'bulkabag sacks'. The bulkabags were tied off and stored securely in the Navigator yard until being transported to the selected laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site to delivery to the laboratory. 2017 -18 KIN RC drill samples were collected in pre-numbered calico bags at the drill rig site. The samples were then batch processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at the secure KIN yard location in Leonora. Bulkabags were tied off and stored securely in the yard until being transported to the laboratory. 2019 RC drill samples were collected in pre-numbered calico bags at the drill rig site. The samples were then batch processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at the Cardinia office. 2017-18 KIN DD samples were obtained by KIN personnel in pre-numbered calico bags at the KIN yard location in Leonora. Samples were then stacked into 'bulkabag sacks' at the yard location and stored securely until being transported to the laboratory. 2019 DD samples were obtained by KIN personnel in pre-numbered calico bags at the core yard located at the Cardinia office. Samples were then stacked into 'bulkabag sacks' at the yard location and stored securely until being transported to the laboratory.



Criteria	JORC Code explanation	Commentary
		On receipt of the samples, the laboratory independently checked the sample submission form to verify samples received and readied the samples for sample preparation. SGS and Genalysis sample security protocols are of industry standard and deemed acceptable for resource estimation work.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to current standards. Inhouse reviews of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to industry best practice and standards of the day.
		Independent geological consultants Runge Ltd completed a review of the Cardinia Project database, drilling and sampling protocols, and so forth in 2009. The Runge report highlighted issues with bulk density and QA/QC analysis within the supplied database. Identified issues were subsequently addressed by Navigator and KIN.
		Carras Mining Pty Ltd (CM), an independent geological consultant, reviewed and carried out an audit on the field operations and database in 2017. Drilling and sampling methodologies observed during the site visits were to industry standard. No issues were identified for the supplied databases which could be considered material to a mineral resource estimation
		CM logged the oxidation profiles ('base of complete oxidation' or "BOCO", and 'top of fresh rock' or "TOFR") for each of the deposit areas, based on visual inspection of selected RC drill chips from KIN's recent drilling programs, and a combination of historical and KIN drillhole logging. Final adjustments were made with input from KIN geologists. The oxidation profiles were used to assign bulk densities and metallurgical recoveries to the 2017 resource models.
		Past bulk density test work has been inconsistent with incorrect methods employed, to derive specific gravity or in-situ bulk density, rather than dry bulk density. Navigator (2009) and recent KIN (2017) bulk density test work was carried out using the water immersion method on oven dried, coated samples to derive dry bulk densities for different rock types and oxidation profiles. This information has been incorporated into the database for resource estimation work. CM conducted site visits during 2017 to the laboratory to validate the methodology.
		Additional density measurements were undertaken by KIN throughout 2018 utilising an onsite water immersion specific gravity station. Core specimens delineated as overlying the fresh rock boundary were wrapped in plastic film prior to being immersed while fresh rock specimens were emplaced without plastic film. Results to date have quite accurately represented previous laboratory results from dry bulk density testing and, whilst these results were not included for the purpose of mineral resource estimation, they do provide clear indicators for the weathering profile boundaries for geological interpretation.
		RC and diamond drilling conducted by KIN from 2014 to 2018 include some twinning of historical drillholes within the Cardinia Project area. In addition, KIN infill drilling density is considered sufficiently close enough to enable comparison with surrounding historic information, and there is no material difference of a negative nature between historical drilling information and the KIN drilling information. KIN diamond holes drilled for metallurgical and geotechnical test work illustrate assay results with adequate correlation to both nearby historical and recent drilling results.
		Drilling, sampling methodologies, and assay techniques used in these drilling programs are considered to be appropriate and to mineral exploration industry standards of the day.



Criteria	JORC Code explanation	Commentary
		KIN is in the process of completing validation of all historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one, and converting all historical logging into the standardized code system. This is an ongoing process and is not yet completed.
		Laboratory site visits and audits have been introduced since April 2018 and will be conducted on a quarterly basis. This measure will ensure that all aspects of KIN QAQC practices are adhered to and align with industry best practice.

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	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. The security of the tenure held at the time of reporting along with any known	The Cardinia Project's Helens and Rangoon areas includes granted mining tenements M37/316 and M37/317, centered some 35-40km NE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. The Cardinia Project is managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields. There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the outlined current resource areas, and there are no current impediments to obtaining a licence to operate in the area.



Criteria	JORC Code explanation	Commentary
	impediments to obtaining a licence to operate in the area.	
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Limited data is available prior to 1986 due to the level of exploration completed in the area, however marginal exploration was conducted during the late 1960's for nickel and throughout the 1970's targeting base metals.
		From 1980-1985, Townson Holdings Pty Ltd ("Townson") mined a small open pit over selected historical workings at the Rangoon prospect. Localised instances of drilling relating to this mining event are not recorded and are considered insubstantial and immaterial for resource modelling.
		Companies involved in the collection of the majority of the gold exploration data since 1986 and prior to 2014 include: Mt Eden Gold Mines (Aust) NL (also Tarmoola Aust Pty Ltd "MEGM") 1986-2003; Pacmin Mining Corporation Ltd ("Pacmin") 1998-2001; Sons of Gwalia Ltd ("SOG") 2001-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.
		In 2009 Navigator commissioned Runge Limited ("Runge") to complete a Mineral Resource estimate for the Helens and Rangoon deposits. Runge reported a JORC 2004 compliant Mineral Resource estimate, at a low cut-off grade of 0.7g/t Au, totaling 1.45Mt @ 1.3 g/t au (61,700 oz Au), comprising total Indicated Resources of 1.0Mt @ 1.4 g/t Au and total Inferred Resources of 0.446Mt @ 1.2 g/t Au.
		In 2017 KIN commissioned Carras Mining ("CM") to complete a reviewed Mineral Resource estimate for the Helens and Rangoon deposits. CM reported a JORC 2012 compliant Mineral Resource estimate, at a low cut-off grade of 0.5g/t Au, of 1.27Mt @ 1.5g/t (61,000oz Au), comprising total Indicated Resources of 0.99Mt @ 1.53g/t Au and total Inferred Resources of 0.29Mt @ 1.39g/t Au for the Helens resource. CM reported a JORC 2012 compliant Mineral Resource estimate, at a low cut-off grade of 0.5g/t Au, of 0.60Mt @ 1.31g/t (25,000oz Au), comprising total Indicated Resources of 0.41Mt @ 1.37g/t Au and total Inferred Resources of 0.19Mt @ 1.18g/t Au for the Rangoon resource.
		KIN exploration drilling and continued mineral investigation is primarily focused in areas proximal to and hosting the Helens and Rangoon deposits, together with regions of immediate lateral strike extension, and historical drilling conducted by the as mentioned operators.
Geology	Deposit type, geological setting and style of mineralisation.	The Cardinia Project area is located 35km NE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
		The regional geology comprises a suite of NNE-North trending greenstones positioned within the Mertondale Shear Zone (MSZ) a splay limb of the Kilkenny Lineament. The MSZ denotes the contact between Archaean felsic volcanoclastics and sediment sequences in the west and Archaean mafic volcanics in the east. Proterozoic dolerite dykes and Archaean felsic porphyries have intruded the sheared mafic/felsic volcanoclastic/sedimentary sequence.
		Locally within the Cardinia Project area, the stratigraphy consists of intermediate, mafic and felsic volcanic and intrusive lithologies and locally derived epiclastic sediments, which strike NNW with a sub-vertical attitude. Structural foliation of the areas stratigraphy predominantly dips steeply to the east but localised inflections are common and structural orientation can vary between moderately (50-75°) easterly to moderately westerly dipping.



Criteria	JORC Code explanation	Commentary
		At Helens and Rangoon, the stratigraphy comprises a sequence of intermediate-mafic and felsic volcanic lithologies and locally derived epiclastic sediments, intruded in places by narrow felsic porphyry dykes. Carbonaceous shales often mark the mafic/felsic contact. These lithologies are located on the western limb of the regionally faulted south plunging Benalla Anticline.
		Primary mineralised zones at the Helens and Rangoon areas are north-south trending with a sub-vertical attitude. Mineralisation is hosted predominantly in mafic rock units, adjacent to the felsic volcanic/sediment contacts, where it is associated with increased shearing, intense alteration and disseminated sulphides.
		Minor supergene enrichment occurs locally within mineralised shears throughout the regolith profile.
		In some areas, gold mineralisation is highly variable in the regolith profile. In these areas, closer spaced drilling was carried out by KIN to improve confidence in the mineral resource.
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: • easting and northing of the drill hole collar • elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar • dip and azimuth of the hole • down hole length and interception depth • hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	Material drilling information used for the resource estimation has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2014) and KIN since 2014.
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are	When exploration results have been reported for the resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports.
	usually Material and should be stated. Where aggregate intercepts incorporate short	Since 2014, KIN have reported RC drilling intersections with low cut off grades of >= 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of <0.5g/t Au.
	lengths of high grade results and longer	There is no reporting of metal equivalent values.



Criteria	JORC Code explanation	Commentary
	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. The assumptions used for any reporting of	
	metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and	These relationships are particularly important in the reporting of Exploration Results.	The orientation, true width, and geometry of mineralised zones have been primarily determined by interpretation of historical drilling and continued investigation and verification of KIN drilling.
intercept lengths	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	The majority of drill holes prior to 2018 are inclined at -60° toward 245° (WSW). 2018 drilling included holes orientated both at -60° toward 065° (ENE) and -60° toward 245° (WSW) to more accurately account for and target localised zones of structural inflection along the larger mineralised structural trends of the resource area.
	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').	Mineralisation is typically steeply dipping and, as such, drill intercepts are reported as downhole widths not true widths. Accompanying dialogue to reported intersections normally describes the attitude of mineralisation.
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Appropriate maps and sections are included in the main body of this report.
Balanced reporting	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.	Public reporting of exploration results by KIN and past tenement holders and explorers for the resource areas are considered balanced. Representative widths typically included a combination of both low and high grade assay results. All meaningful and material information relating to this mineral resource estimate is or has been previously reported.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment;	During 2018 a campaign of determining Bulk Densities was undertaken. Water displacement method was used on samples selected by the logging geologist. These measurements are input to the logging software interface and loaded to the Datashed database.



Criteria	JORC Code explanation	Commentary
	metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	
(eg tests for lateral extension	The nature and scale of planned further work (eg tests for lateral extensions or depth	The potential to increase the existing resources as reported is viewed as probable. Further work does however not guarantee an upgrade in resources will be achieved.
	extensions or large-scale step-out drilling).	KIN intend to continue exploration and drilling activities at Cardinia in the resource areas, with intention to increase Cardinia Project's resources and convert Inferred portions to the Indicated category.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	

Appendix B

JORC 2012 TABLE 1 REPORT

Bruno Lewis Section 3



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	•	Measures taken to ensure that data has not been corrupted by, for	•	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
		example, transcription or keying errors, between its initial collection and its use for Mineral Resource	•	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological field)
	•	estimation purposes. Data validation procedures used.	•	Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
			•	Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
			•	Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	•	Comment on any site visits undertaken by the Competent Person	•	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
 and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	•	Mr. Jamie Logan conducted a formal site visit during July of 2018 and again in February of 2019, where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.		
			•	No data quality issues were noted.
Geological interpretation	•	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	•	Confidence in the interpretation is directly reflected in the classification. During 2018 and 2019 a large component of the drilling campaign included diamond core drilling. This information (especially structural data, and core photographs) have played an important role in increasing the confidence in the controls of gold mineralisation at Bruno Lewis.
	•	Nature of the data used and of any assumptions made	•	Lithological, structural, alteration and grade information were used to determine this interpretation.
	•	The effect, if any, of alternative interpretations on Mineral Resource estimation.	•	Alternate interpretations (including the previous interpretaion) have been considered, however the current interpretation is considered robust, and conforms to the current thinking, and observed controls.
	•	The use of geology in guiding and controlling Mineral Resource estimation.	•	The interpretation is directly based on geological observations, particular the presence of lithologies, structural features and fabrics. Domains represent mineralised zones assoiciated with lithologies and/or structural features. Most boundaries are hard, with most soft-boundaries exisiting at the lode - supergene confluences.
	•	The factors affecting continuity both of grade and geology.	•	Continuity is structurally and/or stratigraphicly controlled. The supergenes zones are charateristicly highly variable.



Criteria	JORC Code explanation	Commentary
Dimensions	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.	 The Bruno Lewis Mineral Resource estimate (MRE) covers most of the Bruno Lewis system. It strikes for approximately 2,500m, to a depth of 100m, with an average width of 140m. The Mineral Resource estimate extends from surface to a maximum depth of 240m below surface.
Estimation and modelling		Only Diamond and RC drilling included.
techniques	estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and	 Lodes assigned and wireframes created in Datamine RM. Weathering surfaces and Lithological Model constructed in Leapfrog Geo. These wireframes re-imported to Datamine RM, and validated. All other work takes place in Datamine RM.
	maximum distance of extrapolation from data points. If a computer assisted estimation method was	 Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained
	chosen include a description of computer software and parameters used.	 Individual lodes assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material. Caps range between 3g/t to 10g/t.
		 No sub-domaining undertaken, however numerous lodes intersect Supergenes zones. These relationships reviewed and aften shared volume assigned to one or another domain. On two occations a soft boundary implemented with these domains
		Variography undertaken on lodes with sufficient samples.
		 Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters.
		 Parent cells of 5m x 5m x 5m estimated using Ordinary Kriging.
		 Search distances and directions generally aligned with maximum variogram ranges and rotations.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	The estimate was compared to the previous estimates, to understand changes.
	 The assumptions made regarding recovery of by-products. 	 No assumptions were made regarding recovery of by-products No potential by products noted in drill logs.
	Estimation of deleterious elements or	 No estimates of deleterious elements or other non-grade variables were done.
	other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).	No deleterious elements noted in drill logs.



Criteria	JORC Code explanation	Commentary
	In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.	 Drill spacing varies greatly in the Bruno-Lewis area, from 8m x 6m in the Grade controlled areas, to 30m x 30m in the lesser informed areas. A nominal drill spacing of 15m x15m was deemed most approrpriote when assesing the entire project. This led to parent cells of 5mE x 5mN x 5mRL used. These then allowed to subcell to 0.2mE x 1mN x 1mRL for effective filling of domain wireframes. Search distances and directions generally aligned with maximum variogram ranges and
	A nove a novembre man hashing through this parts	rotations.
	 Any assumptions behind modelling of selective mining units. 	No assumptions were made on selective mining units.
	 Any assumptions about correlation between variables. 	No assumptions were made on the correlation between variables.
	 Description of how the geological interpretation was used to control the resource estimates. 	Lodes are modeled to represent material mineralised by fluid flow through planar structural and/or straigraphic features. Estimates constrained by lode wireframes
	The process of validation, the	Model validation is a combined review including:
	checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reliable reconciliation data available.
Moisture	 Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content. 	Tonnages estimated on a dry basis only.
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.
Mining factors or assumptions	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	No mining method assumptions were made for the estimation of this model.



Criteria	JORC Code explanation	Commentary
	methods, but the assumptions made regarding mining methods and parameters when estimating Mineral	Assumption were made for the pit optimisation used to constrain the Mineral Resource for reporting. Unit 1903 Resources
	Resources may not always be rigorous. Where this is the case, this should be reported with an	Gold Price \$/t ore \$2,000
	explanation of the basis of the mining assumptions made.	Mining Dilution % 10.0% Mining Cost Assumptions Mining Recovery % 90.0% Mining Cost \$/bcm Calculated
	assumptions made.	Recovery Oxide % 92.5%
		Oxide deg 50 Geotechnical Assumptions Transitional deg 60 Fresh deg 65
		General Assumptions Throughput t/yr 1,500,000 Annual Discounting % 0%
Metallurgical factors or assumptions	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.	 No Metallurgical assumptions were made for the estimation of this model. A range of recoveries were used for the optimisation to constrain the MRE, depending on material type. (See table above)
Environmental factors or assumptions	Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining	No environmental assumptions have been made for the estimation of this model.



Criteria	JORC Code explanation	Commentary
	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.	
Bulk density	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.	 During 2018 measuring specific gravity was intergrated into normal sampling procedures. Water displacement method was used on samples selected by the logging geologist. These measurements are input to the logging software interface and loaded to the Datashed database. These are simplified for the deposit, but largely consistant with previous works. The mean of these measurements are then assigned to a weathering profile (Oxide, Transition, Fresh rock). Sample count 2019 model Oxide 57 2 Transitional 114 2.34 Fresh 463 2.77
	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.	Previous work considered void spaces and were sealed prior to the wet measurement. For the more recent work, all measurements have been on fresh rock, where vugs and voids are absent.
	 Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	Density has been assigned to differing material: Oxide, Transitional and Fresh.
Classification	The basis for the classification of the Mineral Resources into varying	Classification is based on a combination of drillspacing, geological confidence and estimation quality. The classification is applied to the model on a lode by lode basis.



Criteria	JORC Code explanation	Commentary
	confidence categories.	 Measured: 10m x 10m x 10m drillspacing with > 50% Kriging Efficiency and > 75% Slope of regression Indicated: 30m x 30m x 30m drillspacing with > 50% Kriging Efficiency and > 75% Slope of regression. Inferred: up to 40m x40m x 40m drillspacing with Positive kriging efficiency and > 50% Slope of regression. Classification discussed with interpreting Geologists to ensure classification represents geological confidence as well as statistical confidence.
	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.	All relevant factors effecting classification have been considered.
	 Whether the result appropriately reflects the Competent Person's view of the deposit. 	The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	No audits and reviews have completed on this Mineral Resource estimate.
Discussion of relative accuracy/ confidence	• 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.	The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code
	The statement should specify whether	Global estimate for the Bruno Lewis area



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. These statements of relative accuracy and confidence of the estimate should be compared with production data,	Criteria	JORC Code explanation	Commentary
and confidence of the estimate should be compared with production data,		and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the	
where available.		and confidence of the estimate should	Production Data is not available



Appendix C

JORC 2012 TABLE 1 REPORT

Helens Section 3

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	Measures taken to ensure that data has not been corrupted by, for	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
	example, transcription or keying errors, between its initial collection and its use for Mineral Resource	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological field)
	estimation purposes.Data validation procedures used.	Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
		• Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	 Mr. Jamie Logan conducted a formal site visit during July of 2018 where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.
		No data quality issues were noted.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification. During 2018 a large component of the drilling campaign included diamond core drilling. This information (especially structural data, and core photographs) have played an important role in increasing the confidence in the controls of gold mineralisation at Helens.
		A confirmitory drill program was undertaken in early 2019, and all targeted lodes intersected at the expected depth, further increasing confidence.



Criteria	JORC Code explanation	Commentary
	Nature of the data used and of any assumptions made	Lithological, structural, alteration and grade information were used to determine this interpretation.
	 The effect, if any, of alternative interpretations on Mineral Resource estimation. 	Alternate interpretations have been considered, however the current interpretation is considered robust, and conforms to the observed controls.
	 The use of geology in guiding and controlling Mineral Resource estimation. 	The interpretation is directly based on geological observations, particular the presence of structural features and fabrics. Domains represent mineralised fault horizons/zones. All boundaries are hard, with sub-domains existing within the larger Helens and Paris lodes.
	The factors affecting continuity both of grade and geology.	Continuity is structurally controlled with a stratigraphic component also present. A central intrusion drives fluid flow through the system, concordantly along stratigraphy and discordantly to stratigraphy along extensive local structures.
Dimensions	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.	The Helens Mineral Resource estimate covers part of the Helens-Rangoon system. It strikes for approximately 1,300m, to a depth of 200m, with an average thickness of 2.5m. The Mineral Resource estimate extends from surface to a maximum depth of 230m below surface.
Estimation and modelling	The nature and appropriateness of the	Only Diamond and RC drilling included.
techniques	estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining,	 Lodes assigned in Datamine RM and wireframes constructed in Leapfrog Geo. These wireframes re-imported to Datamine RM, and validated. All other work takes place in Datamine RM.
	interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was	Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained
	chosen include a description of computer software and parameters used.	 Individual lodes assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Generally, only one or two samples from each lode were capped. Capping effect is not believed to be material. The Helens main lode has a cap of 40g/t while the other lodes have caps between 10g/t and 15g/t.
		Sub-domaining of Helens and Paris lode was required due to a mixed high and medium grade This was achieved through a Categorical Indicator approach using a 2nth system.
		 population. This was achieved through a Categorical Indicator approach using a 3g/t cutoff. Variography undertaken on lodes with sufficient samples.
		 Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters.
		Parent cells of 5m x 5m x 5m estimated using Ordinary Kriging.
		Search distances and directions aligned with maximum variogram ranges and rotations.



Criteria	•	JORC Code explanation		Commentary
	٠	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	•	The estimate was compared to the previous estimate, to understand changes.
	•	The assumptions made regarding recovery of by-products.	•	No assumptions were made regarding recovery of by-products No potential by products noted in drill logs.
	٠	Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).	•	No estimates of deleterious elements or other non-grade variables were done. No deleterious elements noted in drill logs.
	•	In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.	•	Nominal Drill spacing of 15m x15m in well informed areas led to parent cells of 5mE x 5mN x 5mRL used. These then allowed to subcell to 0.2mE x 1mN x 1mRL for effective filling of domain wireframes.
			•	Search distances and directions aligned with maximum variogram ranges and rotations.
	•	Any assumptions behind modelling of selective mining units.	•	No assumptions were made on selective mining units.
	•	Any assumptions about correlation between variables.	•	No assumptions were made on the correlation between variables.
	•	Description of how the geological interpretation was used to control the resource estimates.	•	Lodes are modeled to represent material mineralised by fluid flow through planar structural features. Estimates constrained by lode wireframes
	٠	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	•	Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reconciliation data available.
Moisture	•	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	•	Tonnages estimated on a dry basis only.



Criteria	•	JORC Code explanation	С	Commentary										
Cut-off parameters	•	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.											
Mining factors or assumptions	Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It			 No mining method assumptions were made for the estimation of this model. Assumptions were made for the pit optimisation used to constrain the Mineral Resource for reporting. 										
		is always necessary as part of the process of determining reasonable		Revenue Assumptions	Gold Price		\$/t ore	\$2,000						
		prospects for eventual economic extraction to consider potential mining methods, but the assumptions made		Mining Cost Assumptions	Revenue Mining Dilution Mining Recovery Mining Cost		\$/g % % \$/bcm	\$64.30 10.0% 90.0% Calculated						
		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.		Processing Recovery and Cost Assumptions	Recovery Processing Cost G & A Cost	Oxide Trans Fresh Oxide Trans Fresh	% \$/t ore \$/t ore	92.5% 95.0% 90.0% \$14.00 \$16.50 \$20.00						
									Geotechnical Assumptions	G & A COST	Oxide Transitional Fresh	deg deg deg	50 60 65	
				Unit										
				General Assumptions	Throughput Annual Discounting		t/yr %	1,500,000 0%						
Metallurgical factors or		The basis for assumptions or	• \	lo Metallurgical assumptions v	were made for the	estimation o	of this n	nodel.						
assumptions		predictions regarding metallurgical amenability. It is always necessary as	 As noted in the table above, recoveries ranging from 90% in fresh rock to 92.5 in oxide were used for the optimisation which constrains the Mineral Resource estimate. 											
	rea	part of the process of determining reasonable prospects for eventual economic extraction to consider		 A full suite of metallurgical test work is currently in progress with the information (drilling and interpretation) derived from this model. 										
		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	Previous (2017) metallurgical test work indicated recoveries between 90.5% and 95.4 for Helens fresh material.											



Criteria	JORC Code explanation	Commentary
	metallurgical assumptions made.	
Environmental factors or assumptions	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.	No environmental assumptions have been made for the estimation of this model.
Bulk density	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.	During 2018 a campaign of determining Bulk Densities was undertaken. Water displacement method was used on samples selected by the logging geologist. These measurements are input to the logging software interface and loaded to the Datashed database. The mean of these measurements are then assigned to a weathering profile (Oxide, Transition, Fresh rock). Sample count 2019 model Oxide 69 2.34 Transitional 32 2.66 Fresh 343 2.9
	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.	Previous work considered void spaces and were sealed prior to the wet measurement. For the more recent work, all measurements have been on fresh rock, where vugs and voids are absent.



Criteria	JORC Code explanation Commentary
	Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. • Density has been assigned to differing material: Oxide, Transitional and Fresh.
Classification	 Classification of the Mineral Resources into varying confidence categories. Classification is based on a combination of drillspacing, geological confidence and estimation quality. The classification is applied to the model on a lode by lode basis. Indicated: 15m x 15m x 15m drillspacing with > 50% Kriging Efficiency and > 75% Slope of regression. Inferred: up to 40m x40m x 40m drillspacing with Positive kriging efficiency and > 50% Slope of regression.
	 Classification discussed with interpreting Geologists to ensure classification represents geological confidence as well as statistical confidence.
	 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. All relevant factors effecting classification have been considered.
	Whether the result appropriately reflects the Competent Person's view of the deposit. • The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits or reviews	 The results of any audits or reviews of Mineral Resource estimates. The previous model MRE (Helens_1810) was formally reviewed by external consultant Optiro. The estimate was endorsed by Optiro. A number of improvements were recommended, none of which were deemed material. These recommendations have been reviewed, largely accepted and implemented for this update.
Discussion of relative accuracy/ confidence	 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 The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code



Criteria	JORC Code explanation Code	ommentary
	such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.	
	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.	lobal estimate for the Helens area
	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. P	roduction Data is not available



Appendix D

JORC 2012 TABLE 1 REPORT

Mertondale East Section 3

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	Measures taken to ensure that data has not been corrupted by, for example,	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
	transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological fields)
	Data validation procedures used.	Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
		Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person and the	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	 Mr. Jamie Logan conducted a formal site visit during February of 2019 where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.
		No data quality issues were noted.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification. Exploration, and mining, in this area has been ongoing for over a century, so confidence in the geology is high. During 2017 and 2018 eight Diamond holes were drilled which further supports this.
	Nature of the data used and of any assumptions made	Lithological, structural, and grade information were used to determine this interpretation.
	The effect, if any, of alternative interpretations on Mineral Resource	Alternate interpretations have been considered, however the current interpretation is considered robust, and conforms to the observed controls. A change from the previous interpretation shows a simplification, but the overall interpretation is consistant with previous.



Criteria	JORC Code explanation	Commentary
	estimation.	work.
	The use of geology in guiding and controlling Mineral Resource estimation.	 The interpretation is directly based on geological observations, as well as the presence or anbsence of mineralisation. Domains in the Mertons Reward area represent mineralised fault horizons/zones within the shear host, while in the M34 area the domain represents an area mineralisaed by fluid flow up and through the shear/porpary system. A high grading sub-domain was noted in Lode 2 in Mertons Rewards area. This sub-domain was isololated and a soft boundary used.
	The factors affecting continuity both of grade and geology.	Continuity is largely contrained within large scale structures (shears/faults) which are in turn contrained within the large north-south trending Mertondale shear.
Dimensions	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.	The Mertondale East MRE includes the Mertons Reward (MR), Mertondale 2 (M2), 3 and 4 (M34)deposits. It strikes for approximately 2,600m, to a depth of 150m The shear zone strikes with an average thickness of 50m, while the individual lodes range from 3m to 20m. The Mineral Resource estimate extends from surface to a maximum depth of 270m below surface.
Estimation and modelling	The nature and appropriateness of the	Only Diamond and RC drilling included.
techniques	estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data	Lodes assigned in Datamine RM and wireframes constructed in Leapfrog Geo. These wireframes re-imported to Datamine RM, and validated. All other work takes place in Datamine RM. Catagorical indicator approach used to create the mineralised domain within the Mertondale 'Three-Four' area.
	points. If a computer assisted estimation method was chosen include a description of computer software and	 Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained
	parameters used.	 Individual lodes assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material, with amount of samples capped in the 1% to 2% range. The caps range from 5g/t to 25g/t, with the main lodes in the MR and M34 capped at 25g/t and 20g/t respectively.
		Sub-domaining of Lode 2 within the MR deposit was required due to a mixed high and medium grade population. This was achieved by isolating and area using a string method.
		Variography undertaken on lodes with sufficient samples.
		 Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters.
		Parent cells of 5m x 5m x 5m estimated using Ordinary Kriging.
		Search distances and directions aligned with maximum variogram ranges and rotations.
	 The availability of check estimates, previous estimates and/or mine production records and whether the 	The estimate was compared to the previous estimate, to understand changes.



Criteria	JORC Code explanation	Commentary
	Mineral Resource estimate takes appropriate account of such data.	
	 The assumptions made regarding recovery of by-products. 	 No assumptions were made regarding recovery of by-products No potential by products noted in drill logs.
	 Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation). 	 No estimates of deleterious elements or other non-grade variables were done. No deleterious elements noted in drill logs.
	In the case of block model interpolation, the block size in relation to the average sample spacing and the search	 Nominal Drill spacing of 15m x15m in well informed areas led to parent cells of 5mE x 5mN x 5mRL used. These then allowed to subcell to 0.2mE x 1mN x 1mRL for effective filling of domain wireframes.
	employed.	Search distances and directions aligned with maximum variogram ranges and rotations.
	 Any assumptions behind modelling of selective mining units. 	No assumptions were made on selective mining units.
	 Any assumptions about correlation between variables. 	No assumptions were made on the correlation between variables.
	 Description of how the geological interpretation was used to control the resource estimates. 	Lodes are modeled to represent material mineralised by fluid flow through planar structural features. Estimates constrained by lode wireframes
	The process of validation, the checking	Model validation is a combined review including:
	process used, the comparison of model data to drill hole data, and use of	 Visual review of blocks values vs composite values, by section and plan.
	reconciliation data if available.	 Visual review of Kriging efficiencies and Slope of regression outputs.
		Review of global means by domain vs declustered cut composite means.
		 Swath plots showing block means vs composite means in space.
		Review of Change of Support plots against idealised scenario.
		No reliable reconciliation data available.
Moisture	 Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content. 	Tonnages estimated on a dry basis only.
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.



Criteria	JORC Code explanation		Com	ımentary					
Mining factors or assumptions	mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It	•	No mining method assumptions were made for the estimation of this model. Assumption were made for the pit optimisation used to constrain the Mineral Resource for reporting.						
	is always necessary as part of the process of determining reasonable prospects for eventual economic			Revenue Assumptions	Gold Price Revenue		Unit \$/t ore \$/g	1903 Resources \$2,000 \$64.30	
	extraction to consider potential mining methods, but the assumptions made regarding mining methods and			Mining Cost Assumptions	Mining Dilution Mining Recovery Mining Cost		% % \$/bcm	10.0% 90.0% Calculated	
	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.			Processing Recovery and Cost Assumptions	Recovery Processing Cost Haulage G & A Cost	Oxide Trans Fresh Oxide Trans Fresh	% \$/t ore \$/t ore \$/t ore	\$16.50 \$22.00 \$2.87	
				Geotechnical Assumptions		Oxide Transitional Fresh	deg deg deg Unit	50 60 65	
				General Assumptions	Throughput Annual Discounting		t/yr %	1,500,000 0%	
Metallurgical factors or assumptions	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.	•	As no 92.5°	Metallurgical assumptions oted in the table above, p % in the oxide material, w ource estimate.	rocessing recov	eries, ran	ging fr	rom 85% in fr	



Criteria	JORC Code explanation	Commentary
Environmental factors or assumptions	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.	No environmental assumptions have been made for the estimation of this model.
Bulk density	 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. 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. Discuss assumptions for bulk density actimates used in the evaluation. 	 During 2017 extensive work was carried out looking at densities. Despite a measurement step being added to Kin regular sampling processes, insufficient samples have been aquired to change the current estimates of densities in the Mertondale East are, therefore the densities for this work have stayed consistant with previous works Water displacement method was used. Densities assigned to a weathering profile (Oxide, Transition, Fresh rock). Densities 2018 model Oxide 1.8/2 Transitional 2.2 Fresh 2.8 Previous work considered void spaces and were sealed prior to the wet measurement. Density has been assigned to differing material: Oxide, Transitional and Fresh.
	estimates used in the evaluation process of the different materials.	2 5.1.5.1, 1.2.5 256.1 document to distribution of the following materials. Oxido, Translational and Troom.



Criteria	JORC Code explanation	Commentary
Classification	The basis for the classification of the Mineral Resources into varying confidence categories.	 Classification is based on a combination of drillspacing, geological confidence and estimation quality. The classification is applied to the model on a lode by lode basis. Indicated: 15m x 15m x 15m drillspacing with > 50% Kriging Efficiency and > 75% Slope of regression. Inferred: up to 40m x40m x 40m drillspacing with Positive kriging efficiency and > 50% Slope of regression.
		Classification discussed with interpreting Geologists to ensure classification represents geological confidence as well as statistical confidence.
	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.	All relevant factors effecting classification have been considered.
	Whether the result appropriately reflects the Competent Person's view of the deposit.	The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	No audits and reviews have completed on this Mineral Resource estimate.
Discussion of relative accuracy/ confidence	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.	The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code
	The statement should specify whether it relates to global or local estimates, and,	Global estimate for the Mertondale East area



Criteria	JORC Code explanation	Commentary
	if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.	
	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.	Production Data is not available



Appendix E JORC 2012 TABLE 1 REPORT

Kyte Section 3

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	 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. Data validation procedures used. 	 Data is uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological fields) Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results. Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent). Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	 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. 	 KIN's geological team (or previous companies) have an onsite presence which includes supervision and management of drill programs within each of the Resource areas. Mr. Jamie Logan conducted a formal site visit during July of 2018 and again in February 2019 where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated. Mr Glenn Grayson regularly visits site as part of his normal duties. No data quality issues were noted.
Geological interpretation	 Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. Nature of the data used and of any assumptions made 	 Confidence in the interpretation is directly reflected in the classification. The vast majority of the mineralisation within this model is contained within the supergene zone, and is modelled accordingly. Alteration, weathering and grade information were used to determine this interpretation. Lithological and structural imformation lacking due to the predominate use of RC drilling and the strongly weathered host (supergene)



Criteria	JORC Code explanation	Commentary	
	The effect, if any, of alternative interpretations on Mineral Resource estimation.	Alternate interpretations have been considered, however the current interpretation is considered robust, and conforms to the observed controls.	
	The use of geology in guiding and controlling Mineral Resource estimation.	The interpretation is largely based on gold grades, as well as its presence and association with the weathering horizons.	
	The factors affecting continuity both of grade and geology.	Continuity is typical of secondary supergene mineralisation. The primary mineralisation is poorly understood, however shares similarities in orientation to mineralisation seen locally at the Lewis and Bruno deposits	
Dimensions	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.	The Kyte MRE covers part of the Bruno-Lewis system. It strikes for approximately 550m, to a depth of 35m, with an average thickness of 12m. The Mineral Resource estimate extends from surface to a maximum depth of 40m below surface.	
Estimation and modelling techniques	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.	 Diamond, RC and Aircore drilling included. Domain wireframes create in Datamine RM using a Catagorical Indicator approach, using Dynamic Anisotropy (DA) with directions derived from weathering surfaces and apparent primary mineralisation orienetation. Drillholes composited to 1m, which is based on the majority of samples being 1m or below. All lengths retained. Domains assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material. The outer domain has a cap of 10g/t, while the inner domain has a cap of 14g/t. The previously reported MRE had a cap of 15g/t. Variography undertaken on both domain's as well as the 'waste' material. Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters. Parent cells of 7.5mE x 7.5mN x 2.5mRL estimated using Ordinary Kriging. 	
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	 Search distances and directions aligned with maximum variogram ranges and rotations. The estimate was compared to the previous estimate, to understand changes. Several internal iterations of this model have been created during the past year, to review sensitivities to the statistical parameters. 	



Criteria	JORC Code explanation	Commentary		
	 The assumptions made regarding recovery of by-products. Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation). 	 No assumptions were made regarding recovery of by-products No potential by products noted in drill logs. No estimates of deleterious elements or other non-grade variables were done. No deleterious elements noted in drill logs. 		
	 In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed. 	 Nominal Drill spacing of 10m x7m in well informed areas led to parent cells of 7.5mE x 7.55mN x 2.5mRL used. Search distances and directions aligned with maximum variogram ranges and rotations. 		
	 Any assumptions behind modelling of selective mining units. 	No assumptions were made on selective mining units.		
	 Any assumptions about correlation between variables. 	No assumptions were made on the correlation between variables.		
	• Description of how the geological interpretation was used to control the resource estimates.	Domains are modeled to represent material mineralised by supergene enrichment processes from a inferred primary structure. Estimates constrained by domain wireframes, however a soft boundary was used between the inner and outer mineralised domains.		
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reconciliation data available. 		
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	Tonnages estimated on a dry basis only.		
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this MRE and deemed reasonable.		



Criteria	JORC Code explanation	Commentary				
Mining factors or assumptions	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	 No mining method assumptions were made for the estimation of this model. Assumption were made for the pit optimisation used to constrain the Mineral Resource for reporting. 				
	process of determining reasonable prospects for eventual economic extraction to consider	Unit 1903 Resources				
	potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous.	Mining Dilution % 10.0% Mining Cost Assumptions Mining Recovery % 90.0% Mining Cost \$/bcm Calculated				
	Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	Recovery				
		Oxide deg 50 Geotechnical Assumptions Transitional deg 60 Fresh deg 65				
		Unit Throughput t/yr 1,500,000				
		General Assumptions Annual Discounting % 0%				
Metallurgical factors or assumptions	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.	 No Metallurgical assumptions were made for the estimation of this model. As noted in the table above, an overall recovery between 90% and 92.6%, depending on material type, was used for the optimisation which constrains the Mineral Resource estimate. 				
Environmental factors or assumptions	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	No environmental assumptions have been made for the estimation of this model.				



Criteria	JORC Code explanation	Commentary
	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.	
Bulk density	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.	During 2017 a campaign of determining Bulk Densities was undertaken for use in the 2017 DFS. These values were maintained in this model due to no new drilling being undertaken in this area since. 1708 Model 1901 Model Oxide
	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.	Previous work considered void spaces and were sealed prior to the wet measurement.
	 Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	Density has been assigned to differing materials: Oxide, Transitional and Fresh.
Classification	The basis for the classification of the Mineral Resources into varying confidence categories.	Classification is based on a combination of drillspacing, geological confidence and estimation quality. The classification is applied to the model on a domain by domain basis.
		 Indicated: 15m x 15m x 15m drillspacing with > 50% Kriging Efficiency and > 75% Slope of regression.
		 Inferred: up to 40m x40m x 40m drillspacing with Positive kriging efficiency and > 50% Slope of regression.
		Classification discussed with interpreting Geologists to ensure classification represents geological confidence as well as statistical confidence.



Criteria	JORC Code explanation	Commentary
	 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. Whether the result appropriately reflects the Competent Person's view of the deposit. 	 All relevant factors effecting classification have been considered. The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	A previous iteration of the Kyte MRE (1810) was formally reviewed by external consultant Optiro. The estimate was endorsed by Optiro. A number of improvements were recommended ,none of which were deemed material. These recommendations have been reviewed, largely accepted and implemented for this update.
Discussion of relative accuracy/ confidence	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.	The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code
	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.	Global estimate for the Kyte area
	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.	Production Data is not available

ASX Announcement



Kin Mining NI

342 Scarborough Beach Road Osborne Park WA 6017 P +61 9 9242 2227 E info@kinmining.com.au

kinmining.com.au

30 August 2019

ASX: KIN

Appendix F

JORC 2012 TABLE 1 REPORT MERTONDALE PROJECT Mertondale 5, Tonto

Mertons Reward and Mertondale 3 4 removed

Mining and Processing assumptions adjusted to reflect this update.

SECTION 1 – Sample Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Commentary		
Sampling techniques	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried at Mertondale out since 1981. Data was obtained predominantly from Reverse Circulation ('RC') drilling, and to a lesser extent, diamond core ('Diamond' or 'DD') drilling and Air Core ('Aircore' or 'AC') drilling.		
	Companies involved in the collection of the majority of the exploration data prior to 2014 include: Nickelore NL ("Nickelore") 1981-1982; Hunter Resources Ltd ("Hunter") 1984-1988; Harbour Lights Mining Ltd (a joint owned company of Ashton Gold WA Ltd and Carr Boyd Minerals Pty Ltd - "HLML") 1988-1993; Mining Project Investors Pty Ltd ("MPI") 1993-1996; Sons of Gwalia Ltd ("SOG") 1996-2004; Navigator Resources Ltd ("Navigator") 2004-2014.		
	Kin Mining Ltd ("KIN") acquired the Mertondale Project in 2014.		
	HISTORIC SAMPLING (1981-2014)		
	Drill samples were generally obtained from 1m downhole intervals and riffle split to obtain a 3-4kg representative sub-sample, which were submitted to a number of commercial laboratories for a variety of sample preparations methods, including oven drying (90-110°C), crushing (-2mm to -6mm), pulverizing (-75µm to -105µm), and generally riffle split to obtain a 30, 40 or 50 gram catchweight for gold analysis, predominantly by Fire Assay fusion, with AAS finish. On occasions, initial assaying have been carried out using Aqua Regia digest and AAS/ICP finish, with anomalous samples re-assayed by Fire Assay fusion and AAS/ICP finish.		
	Diamond Drilling		
	Half core (or quarter core) sample intervals varied from 0.15 to 1.46m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in marked core trays and stored in a secure yard for		



Criteria	Commentary
	future reference. The only known available drill core from these programs and stored at KIN's Leonora Exploration Yard, are those drilled by Navigator.
	RC Drilling
	The vast majority of Reverse Circulation (RC) drill samples were collected over 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
	Navigator obtained sub-samples from wet samples using the spear method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop. Assay results from these samples are not used for resource estimation work, however they do sometimes provide a guide in interpreting geology and mineralisation continuity.
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques. Aircore sample assay results were only used for resource estimation work if the 1m sub-samples were obtained by riffle splitting of the primary sample, prior to placing on the ground.
	There are no sample rejects available from AC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	RAB Drilling
	Sample returns from Rotary Air Blast (RAB) drilling are collected from the annulus between the open hole and drill rods, using a stuffing box and cyclone. Samples are usually collected at 1 metre intervals and placed on the ground with 3-4kg sub-samples collected using a scoop or spear. Up-hole contamination of the sample is commonplace, therefore this type of drilling and sampling is regarded as reconnaissance in nature and the samples indicative of geology and mineralisation. The qualities of samples are not appropriate for resource estimation work and are only sometimes used as a guide for interpreting geology and mineralisation.
	KIN MINING (2014-2017)
	Diamond drilling
	Diamond drill core (HQ3) samples collected for analysis were longitudinally cut in half, and then in quarters, using a powered diamond core saw blade centered over a cradle



Criteria	Commentary				
	holding the core in place. Half core (or quarter core) sample intervals varied from 0.3 to 1.11m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in their respective core trays and securely stored in KIN's yard in Leonora for future reference.				
	RC drilling				
	During drilling, sample return is passed through a cyclone and stored in a sample collection box. At the end of each metre, the cyclone underflow is closed off, the underside of the sample box is opened and the sample passed down through a riffle splitter.				
		t from the riffle	splitter were ret		le intervals and averaged 3- stored in marked plastic
		geology perso	onnel to today's	industry sta	ures were conducted and/or andards. QA/QC procedures standards.
	<u>Analysis</u>				
	Once received at the assay laboratory, diamond core and RC samples were oven dried (105-110°C), crushed (-6mm and -2mm), pulverised (P85% -75µm) and split to obtain a representative 50 gram sample catchweight for gold only analysis using Fire Assay fusion with AAS finish.				
	COMMENT				
	For some earlier (pre-2004) drilling programs, RC and Aircore samples were obtained at 1.5 or 3 metre downhole intervals and a substantial portion of the historical MPI holes were composite sampled over 2-4m intervals.				
	where appropriate sometimes used a	 RAB drilling as an interpreta rly for Mertons ag methods are 	data was not us ative guide only. s Reward, were ι	ed for reso A proportio used in the	ore drilling data was used urce estimation but was n of the 1.5m sample resource estimation, only ey sit within the
Drilling techniques	Numerous programs comprising various types of drilling have been conducted by several companies since 1981. The Mertondale database encompasses the various deposits and prospects within the Mertondale Project area, and consists of 6,974 drillholes for a total of 345,635 metres, viz:				
	Hole Type	Drill holes	Metres (m)	%(m)	
	DD	192	27,129	7.8	
	RC	1,244	125,874	36.4	
	AC	1,343	83,508	24.2	
	RAB	4,195	109,124	31.6	
	Total	6,974	345,635	100%	



Criteria	Commentary
	HISTORIC DRILLING (1981-2014)
	Diamond Drilling
	Diamond drilling was carried out using industry standard 'Q' wireline techniques, with the core retrieved from the inner tubes and placed in core trays. Core sizes include NQ/NQ3 (Ø 45-48mm), HQ/HQ3 (Ø 61-64mm), minimal NDBGM (Ø 50-51mm) and some PQ/PQ3 (Ø 83-85mm). At the end of each core run, the driller placed core blocks in the tray, marked with hole number and depth. Core recovery was usually measured for each core run and recorded onto the geologist's drill logs.
	RC Drilling
	RC drilling used conventional reverse circulation drilling techniques, utilising a cross-over sub, until the late 1980s, when the majority of drilling companies started changing over to using face-sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm. Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination (e.g. smearing of grades), especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be more reliable and representative.
	Aircore Drilling
	Aircore drilling is a form of RC drilling, but generally utilizing smaller rigs and smaller air compressors, compared to standard RC drill rigs of the times. Aircore bits are hollow in the centre, with the kerf comprising cutting blades or 'wings' with tungsten-carbide inserts. Drill bit diameters usually range between 75-110mm.
	The vast majority of Aircore drilling (98%) was conducted by Navigator utilising suitable rigs with appropriate compressors (eg 250psi/600cfm). Aircore holes were drilled mostly into the weathered regolith using 'blade' or 'wing' bits, until the bit was unable to penetrate further ('blade refusal'), often near to the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate harder rock types. Holes were typically no deeper than 60 metres.
	RAB Drilling
	RAB drilling is carried out using small air compressors (eg 250psi/600cfm) and drill rods fitted with a percussion hammer or blade bit, with the sample return collected at the drillhole collar using a stuffing box and cyclone collection techniques. Drillhole sizes generally range between 75-110mm.
	KIN MINING (2014-2017)
	Diamond Drilling
	Diamond drilling was carried out by contractor Orbit Drilling Pty Ltd ("Orbit Drilling") with a truck-mounted Hydco 1200H drill rig, using industry standard 'Q' wireline techniques. Drill core is retrieved from the inner tubes and placed in plastic core trays and each core



Criteria	Commentary				
	run depth recorder tray.	d onto core	marker blocks and	placed at the end of each run in the	
	Drillhole deviation was measured at regular downhole intervals, typically at 10m from surface, thence every 30m to bottom of hole, using electronic multi-shot downhole survey tools (e.g. Reflex EZ-TRAC, Camteq Proshot), or in some instances a separate independent program of downhole deviation surveying was carried out to validate previous surveys, utilizing an electronic continuous logging survey tool (AusLog A698 deviation tool).				
				where possible, using electronic core ottom of core' marked accordingly.	
	RC Drilling				
	350psi/1250cfm at required). Drilling occasional use of drilling retrieved drilling retrieved drilling retrieved	ir compresse utilised mos blade bits fo ry samples,	or, with auxiliary ar tly downhole face- or highly oxidized a with the occasiona	ck-mounted Hydco 350RC drill rigs with and booster air compressors (when sampling hammer bits (Ø 140mm), with and soft formations. The majority of all use of the auxiliary and booster air and ry sample return as much as	
	electronic multi-sh were surveyed late surveying was cor drilling programs, steel (s/s) rod, loce of the stainless ste separate independent	ot downhole in open he in open he inpleted with downhole stated above eel rod, azindent prograr surveys, utili	e tool (e.g. Reflex E ole. Where stopes in the steel rods to urveying was carrie the hammer. Provi- nuth and dip readin n of downhole devi	aring drilling operations, using an EZ-TRAC). In some instances, drillhold and cavities were encountered, obtain dip only readings. In the latered out inside a non-magnetic stainless ding the tool was located in the middle ags were successfully recorded. A liation surveying was carried out to continuous logging survey tool (AusLo	
	The following tables summarise drilling totals for the entire Mertondale Project area, fo DD, RC and AC only (i.e. excluding open-hole drilling such as RAB): Mertondale Project – Historical Drilling Summary (Pre-2014)				
	Hole Type	Holes	Metres		
	DD	188	26,666		
	RC	1,131	112,215		
	AC	1,343	83,508		

2,662

Total

222,389



Criteria	Commentary					
	Mertondale Proj	ect – Drilling Su	mmary – KIN (20	014-2017)		
	Hole Type	Holes	Metres			
	DD	4	463			
	RC	113	13,659			
	Total	117	14,122			
	KIN's assay data the entire Merto			ys and 6% of all DD/RC/AC assays for		
	The drilling database supplied includes depths of some RC precollars for diamond drillholes, but is incomplete. Historical reports indicate that drill core sizes were predominantly HQ/HQ3 or NQ/NQ3, with minimal PQ/PQ3, however database details are incomplete. Most historical reports recorded core recoveries, although these details are not included in the database. Review of some historical reports indicate that core recoveries were generally good, although recoveries were typically less in highly fractured zones and some highly weathered mineralised zones in the transition and oxide zones, however this information is not recorded in the supplied database.					
	RC drilling is the dominant drill type at all sites. RC drilling information is generally described in varying detail in historical reports to the DMP, including drilling companies used and drilling rig types, however it's not all recorded in the database supplied. Review of the historical reports indicates that reputable drilling companies were typically contracted and the equipment supplied was of an acceptable standard for those times. During the 1990s, and 2000s, suitable large drill rigs with on-board compressors were probably complimented with auxiliary and booster air compressors for drilling to greater depths and/or when groundwater was encountered. KIN's drilling was conducted with modern rigs equipped with auxiliary and booster compressors and face sampling hammers with bit diameters typically 140mm.					
	RC samples, whonly used in res	nen implementin ource estimatior was considered	g same sampling n work, where the	oles should be of a comparable quality to g techniques. Aircore drilling data was e in-field and laboratory sampling limited to a number of selected		
Drill sample	HISTORIC DRIL	LING (1981-20	14)			
recovery	Diamond drilling	L				
	programs since historical reports recorded in zone	1981, but is not s indicates that g es of broken gro	recorded in the generally core re	gs for most of the diamond drilling supplied database. A review of some covery was good with lesser recoveries of mineralisation. Overall recoveries on.		



Criteria	Commentary
	RC drilling
	There is limited information recorded for sample recoveries for historical RC and Aircore drilling. However there has been an improvement in sample recoveries and reliability following the introduction of face sampling hammers and improved drilling technologies and equipment, since the mid-1980s.
	KIN MINING (2014-2017)
	Diamond Drilling
	Core recovery was recorded for each run by measuring total length of core retrieved against the downhole interval actually drilled.
	Diamond core recoveries were recorded in the database, and averaged 100%. Independent field reviews by the Competent Persons (SC and GP) in 2017 of the diamond drilling rig in operation and core integrity at the drill sites, demonstrated that diamond drill core recoveries were being maximised by the driller, and that core recoveries were consistently > 95%, even when difficult ground conditions were being encountered.
	RC drilling
	Integrity of each one metre RC sample is preserved as best as possible. At the end of each 1 metre downhole interval, the driller stops advancing the rods, retracts from the bottom of hole, and waits for the sample to clear from the bottom of the hole through to the sample collector box fitted beneath the cyclone. The sample is then released from the sample collector box and passed through the 3-tiered riffle splitter fitted beneath the sample box. Sample reject is collected in plastic bags, and a 3-4kg sub-sample is collected in pre-marked calico bags for analysis. Once the samples have been collected, the cyclone, sample collector box and riffle splitter are flushed with compressed air, and the riffle splitter cleaned by the off-sider using a compressed air hose, and if necessary a scraper. This process is maintained throughout the entire drilling program to maximise drill sample recovery and to maintain a highly representative level of the material being drilled.
	RC drill sample recoveries are not recorded in the supplied database, however a review by the Competent Person (GP) in May 2017 of RC drill samples stored in the field, and observations of the two RC drilling rigs in operation, suggests that RC sample recoveries were mostly consistent and very good, with the samples themselves being reliable and representative of the material being drilled.
	COMMENT
	Due to the lack of detailed information in the database regarding historic (pre-2014) Aircore and RC drilling, no quantitative or semi-quantitative impression of sample recovery or sample quality is available. It's assumed to be satisfactory given that several deposits were mined in the past, by open pit methods, in the Mertondale area (i.e. Mertondale 2, Mertondale 3-4 and Mertondale 5), where the open pits were mined to their original design limits, based on the historical drill data. This suggests that the amount of metal recovered was probably not grossly different from pre-mining drill data based expectations.
	During Navigators drill programs wet samples were spear sampled instead of riffle split. This is regarded as poor sampling procedure and these samples are regarded as unreliable however the total number of wet samples is considered to be very low.



Criteria	Commentary
	No indication of sample bias is evident nor has it been established. That is, no relationship has been observed to exist between sample recovery and grade.
	The amount of Aircore drilling data used in the Mertondale resource estimation process is minimal and regarded as not material.
Logging	HISTORIC DRILLING (1981-2014)
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (Hunter, MPI, SOG and Navigator). Correlation between codes is difficult to establish, however it can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	Navigator's procedure for logging of diamond core included firstly marking of the bottom of the core (for successful core orientations), core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features, and then marked up for cutting and sampling. Several diamond drillholes were completed for geotechnical purposes and were independently logged for structural data by geotechnical consultants. All diamond drill core has been photographed, and currently stored at KIN's yard in Leonora.
	Navigator RC and Aircore logging was entered on a metre by metre basis, recording lithology, alteration, texture, mineralisation, weathering and other features. The information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.
	The entire length of all drillholes is logged in full from surface to bottom of hole.
	Logging is qualitative on visual recordings of lithology, oxidation, colour, texture and grain size. Logging of mineralogy, mineralisation and veining is quantitative.
	Drill core photographs are only available for Navigator's diamond drillholes.
	KIN MINING (2014-2017)
	KIN's logging of drill samples was carried out in the field (RC drilling) or at the Leonora Yard (diamond core) and entered onto a portable computer, on a metre by metre basis for RC, and by sample intervals and/or geological contacts for diamond core. Data recorded included lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded in the drill logs in the field.
	KIN geological personnel retrieved the core trays from the drill rig site and relocated them to KIN's yard in Leonora at the end of each day. Drill core was photographed in the field or at the Leonora yard, prior to cutting using a diamond core saw to obtain quarter core samples for analysis.
	All information collected was entered directly into laptop computers or tablets, and transferred to the database to be validated.
	COMMENT
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Criteria	Commentary		
	KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.		
	The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies and metallurgical studies.		
	Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, veining, and in addition, logging of diamond drilling included geotechnical data, RQD and core recoveries.		
	For the majority of historical drilling (pre-2004), and all of the more recent drilling, the entire length of drillholes have been logged from surface to 'end of hole'. Diamond core logging is typically logged in more detail compared to RC and Aircore drilling.		
Sub-	HISTORIC DRILLING (1981-2014)		
sampling techniques and sample preparation	Historical reports for drilling programs prior to 2004, are not always complete in the description of sub-sampling techniques, sample preparation and quality control protocols.		
preparation	Diamond drilling		
	Diamond drill core (NQ/NQ3, HQ/HQ3 or PQ/PQ3) samples collected for analysis were longitudinally cut in half, and occasionally in quarters for the larger (HQ/HQ3 or PQ/PQ3) diameter holes, using a powered diamond core saw blade centered over a cradle holding the core in place.		
	Half core (or quarter core) sample intervals varied from 0.15 to 1.46m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining half (quarter) core was retained in core trays.		
	Where historical reports do not describe the sampling protocol for sampling of drill core, it is assumed that drill core was sampled as described above.		
	RC drilling		
	Prior to 1996, limited historical information indicates most RC sampling was conducted by collecting 1m samples from beneath a cyclone and passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. RC sampling procedures are believed to be consistent with the normal industry practices at the time. The vast majority of samples were dry and riffle split, however spear or tube sampling techniques were used for wet samples.		
	Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.		
	The vast majority of Reverse Circulation (RC) drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site		



Criteria	Commentary
	in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
	Navigator obtained sub-samples from wet samples using the spear or tube method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Navigator included standards and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples. Since 2009, Navigator adopted a stricter sampling regime with the additional submission of field split duplicate samples at a rate of 1 for every 50 primary samples.
	Aircore drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop.
	Navigator included standards and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples. Since 2009, Navigator adopted a stricter sampling regime with the submission of field split duplicate samples at a rate of 1 for every 50 primary samples.
	A variety of laboratories were used for analysis. Prior to 2009, duplicate samples were not routinely collected and submitted from RC and Aircore drilling to the same laboratory consequently overall sampling and assay precision levels can't be quantified for that period.
	While QC protocols were not always comprehensive, the results indicate that assay results from Navigators exploration programs were reliable. Results from pre-Navigator operators are regarded as consistent with normal industry practices of the time.
	KIN MINING (2014-2017)
	Diamond drilling
	Diamond drill core samples (HQ3) collected for analysis were longitudinally cut in half and quarters, using a powered diamond core saw blade centered over a cradle holding the core in place. Core sample intervals varied from 0.3 to 1.11m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference.
	At the time of resource estimation, assays had not yet been received for KIN's diamond core samples.
	RC drilling



Criteria	Commentary		
	All RC sub-samples were collected over 1 metre downhole intervals and retained in premarked calico bags, after passing through a cyclone and riffle splitter configuration. The majority of RC sub-samples consistently averaged 3-4kg. Sample reject from the riffle splitter were retained and stored in plastic bags, and located near each drillhole site. When drilling beneath the water table, the majority of sample returns were kept dry by the use of the auxiliary and booster air compressors. Very few wet samples were collected through the riffle splitter, and the small number is not considered material.		
	Field duplicates were taken at regular intervals at a ratio of 1:50 and assay results indicate that there is reasonable analytical repeatability, considering the presence of nuggety gold.		
	COMMENT		
	All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of the material being drilled. QA/QC procedures implemented during each drilling program are to industry standard practice.		
	Samples sizes are considered appropriate for this style of gold mineralisation, and is an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia		
Quality of assay data and laboratory tests	Numerous assay laboratories and various sample preparation and assay techniques have been used since 1981. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.		
10010	HISTORIC DRILLING (1981-2014)		
	For assay data obtained prior to 1996, the incomplete nature of the data results could not be accurately quantified in terms of the data derived from the combinations of various laboratories and analytical methodologies.		
	Since 1996, the majority of samples submitted to the various laboratories were typically prepared for analysis firstly by oven drying, crushing and pulverizing to a nominal 85% passing 75µm.		
	In the initial exploration stages, Aqua Regia digest with AAS/ICP finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS/ICP finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 30, 40 or 50 gram catchweights) with AAS/ICP finish.		
	Approximately 15-20% of the sampled Aircore holes may have been subject to Aqua Regia digest methods only, however Aircore samples were obtained predominantly within the oxide profile, where aqua regia results are not expected to be significantly different to results from fire assay methods.		
	In 1989, Hunter tabulated significant RC oxide zone intercepts from Merton's Reward and Mertondale 3-4, and recorded average grades for both Aqua Regia (AR) and Fire Assay (FA), confirming that there was no significant bias between AR/AAS and FA techniques. Length weighted grades were almost identical for 800m of aggregate intercepts suggesting very low risk of bias associated with the portion of utilised Aqua Regia results.		



Criteria	Commentary			
	Hunter also carried out a comparison of 18 assays results in 1985, between standard fire assay and screen fire assay results from five RC holes. There was a reasonably good correlation between assays for the two methods for values < 5ppm Au, considering the presence of nuggety gold.			
	During 2004-2014, Navigator utilised six different commercial laboratories during their drilling programs, however Kalgoorlie Assay Laboratories conducted the majority of assaying for diamond, RC and Aircore samples using Fire Assay fusion on 40 gram catchweights and AAS/ICP finish.			
	Navigator regularly included, Certified Reference Material (CRM) standards and blanks with their sample batch submissions to the laboratories at average ratio of 1 in every 20 samples. Sample assay repeatability, and blank and CRM standards assay results are within acceptable limits. Since 2009, Navigator adopted a stricter sampling regime with the submission of field split duplicate samples at a rate of 1 for every 50 primary samples.			
	KIN MINING (2014-2017)			
	Sample analysis was conducted by SGS Australia Pty Ltd's ("SGS") Kalgoorlie and Perth laboratories. Sample preparation included oven drying (105°C), crushing (-6mm), pulverising (P85% -75µm) and riffle split to obtain a 50 gram catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish (SGS Lab Code FAA505).			
	KIN regularly insert blanks, field duplicate and CRM standards in each sample batch at a ratio of 1:20. This allows for at least one blank and one CRM standard to be included in each of the laboratory's fire assay batch of 50 samples. Field duplicate sample assay repeatability, blank standards and CRM standards assay results are within acceptable limits for this style of gold mineralisation.			
	SGS include blanks and CRMS as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are within acceptable limits.			
	COMMENT			
	The nature and quality of the historical assaying and laboratory procedures used are considered to be satisfactory and appropriate for use in mineral resource estimations.			
	Fire Assay fusion or Aqua Regia digestion techniques were conducted on diamond, RC and Aircore samples, with AAS or ICP finish.			
	Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay technique with AAS or ICP finish. AAS and ICP methods of detection are both considered to be suitable and appropriate methods of detection.			
	Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.			
	No other analysis techniques have been used to determine gold assays.			
	KIN's ongoing QA/QC monitoring program identified one particular CRM that was returning spurious results. Further analysis demonstrated that the standard was			



Criteria	Commentary
	compromised and subsequently removed and destroyed. A replacement CRM of similar grade was substituted into the QA/QC program.
Verification of sampling and assaying	Verification of sampling and assaying techniques and results prior to 2004 has limitations due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories, over a twenty year period.
	During 2009, a selection of significant intersections had been verified by Navigator's company geologists and an independent consultant McDonald Speijers ("MS"). MS were able to validate 92% of the assay records in 50 randomly selected check holes, and only 6 assay discrepancies were detected (< 0.2%), only 2 of those were considered significant. MS concluded that the very small proportion of discrepancies indicated that the assay database was probably reliable at that time.
	Since 2014, significant drill intersections have been verified by KIN's company geologists during the course of the drilling programs.
	During 2017, Carras Mining Pty Ltd ("CM") carried out an independent data verification. 8,991 assay records for KIN's 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 3 errors were found, which are not considered material and which represents less than 0.01% of all database records verified for KIN's 2014-2017 drilling programs.
	COMMENT
	There is always a risk with legacy data that sampling or assaying biases may exist between results from different drilling programs due to differing sampling protocols, different laboratories and different analytical techniques.
	Repeated examinations of historic reports on phases of diamond, RC and Aircore drilling have been conducted from time to time. Assay results from KIN's recent drilling are consistent with surrounding information and as a result the information obtained from the various diamond, RC and Aircore drilling programs (where sampling protocols are appropriate) have been accepted.
	Recent (2014-2017) RC and diamond drilling by KIN included some twinning of historical drillholes in several locations predominantly within the Mertondale 3-4 resource area. There is no material difference observed between historical drilling information and the KIN drilling information. In the areas that were not drilled with twin holes, the drill density is considered sufficiently close enough to enable comparison with surrounding historic information, and there is no material difference of a negative nature between historical drilling information and the KIN drilling information. KIN's diamond holes were drilled for metallurgical and geotechnical test work, and assay results received to date for these holes also show good correlation with nearby historical results.
	Where sampling protocols are appropriate, diamond, RC and Aircore samples, are of equal importance in the resource estimation process.
	There has been no adjustments or calibrations made to the assay data recorded in the supplied database.



Criteria	Commentary		
Location of data points	HISTORIC DATA (1981-2014)		
data points	A local survey grid was originally established in 1981 at Mertons Reward, and subsequently extended by Hunter during 1985-1988. During the 1990s, SOG identified a small angular error in the base line, which resulted in substantial errors, particularly in the northern portion of the project. Surface survey data were transformed firstly to AMG and subsequently to MGA (GDA94 zone51). This resulted in different grid transformations being applied in the northern and southern parts of the Mertondale area.		
	Navigator recognised errors in the collar co-ordinates resulting from these transformations and as a result, a significant number of holes were resurveyed and a new MGA grid transformation generated. This exercise largely appeared to eliminate the offset. Historical collars have been validated against the original local grid co-ordinates and independently transformed to MGA co-ordinates and checked against the database. Navigator's MGA co-ordinates were checked against the surveyor's reports. Where variations in the MGA co-ordinate system were detected, Navigator's geologists deemed the errors were not large enough to have a material impact on the resource estimation work in 2009.		
	All survey work carried out by Navigator was conducted in GDA94 Zone 51 using differential GPS equipment and a network of survey controls.		
	Almost all the diamond and at least 80% of Navigator's RC holes were downhole surveyed. Pre-Navigator, single shot survey cameras were used, with typical survey intervals of 30-40 metres. There were some variation between magnetic and grid azimuths noted (up to 2°) for pre-Navigator drillholes, however the variations are small enough to be within acceptable limits. Aircore holes and the majority of pre-Navigator RC holes were not surveyed down hole, as was the general practice of the day.		
	Navigator carried out down hole survey using a single shot or multi-shot survey camera.		
	KIN MINING (2014-2017)		
	KIN's drill hole collars were located and recorded in the field by a contract surveyor using RTK-DGPS (with a horizontal and vertical accuracy of ±50mm). Location data was collected in the GDA94 Zone51 grid coordinate system. During this program the surveyor also located one historic Navigator diamond and 13 RC drillhole collars using the database collar positions. The collar positions were verified using RTK-DGPS within 1 metre.		
	Downhole surveying during KIN's drilling programs was predominantly carried out by the drilling contractor. KIN recognised that some of the downhole survey data appeared to be spurious, and commissioned an independent downhole surveying program by a survey contractor (BHGS, Perth) to check several drillholes at Mertons Reward, Mertondale 3-4 and Tonto. The check survey found occasional erroneous results with the initial surveys. This can be explained by the fact that when the drilling company's survey tool is run inside the drill rods, the tool's sensors need to be located exactly in the middle of the bottom s/s RC rod to obtain accurate readings. Check readings by KIN personnel at different locations within the s/s rod found that variation in azimuth can be measured up to 2°, within 1 metre from the centre of the rod, and up to 10° further away from the centre. The positioning of the tool by the drilling contractor is assumed to be within 1 metre of the centre of the s/s rod for the majority of the drilling program. Therefore, given the nature of the mineralisation and the shift in apparent position of up to 5 metres (for 2° variation) along 'strike' for open pit depths (<140 metres), the occasional errors are not considered material for this resource estimation work.		



		Commentary				
	In addition, if the downhole survey tool is located within 15 metres of the surface, there is risk of influence of the drill rig affecting the azimuth readings. This was observed for the survey readings, which include total magnetic intensity (TMI) measurements, where TMI is spurious for readings taken at downhole depths less than 20 metres. These spurious readings are included in the database, but are not used.					
	One RC hole at Mertons Reward (MT17RC037) was found to have an elevation error of approximately 8 metres at the end of hole (204 metres depth), which appears to be related to an incorrect inclination setup of the rig's drilling angle at commencement of drilling.					
	KIN supplied one di hole collar data, and two DTM surfaces of and vertical control,	d the second correlate suff	l from a rece ficiently close	ent aerial ort e and within	hophotograi acceptable	mmetry survey. The
	COMMENT					
	The accuracy of the accuracy for use in				are located	with sufficient
	Some historical Navigator drillhole collar positions at Mertons Reward, Mertonda and Tonto have recently been independently located and verified in the field, and checked against the database.					
Considering the history of grid transformation surviving documentation there might be some ordinates for old drillholes, particularly in the considered to be material for the resource es				ne residual r e northern ai	isk of error i ea, howeve	in the MGA co- er this is not
	Much of the historic magnetic declinatio (1985) to +1.301° E difference between declination since 19 been used, where the estimation processes	n for the Me ast (2017), v true north a 85 is not sig ue north da	rtondale Pro with a maxin nd magnetic pnificant, the	ject area is num variation north, and the refore magn	calculated a n of +1.575° the annual v letic north m	at +0.823° East of in 2005. The variation in magnetic neasurements have
Data spacing and	Drill hole spacing pa specific, depending					area, and is deposit tested.
distribution	The following table summarises the general range of drilling grid spacings and drill hole spacings for each of the resource areas.					
	Pasouroa	Drill Crid	Spacina	Drillbolo	Spacina	
	Aroac	from (m)	to (m)	from (m)	to (m)	_
]	Martane Paward		25	12.5	25	
	Mortondolo 2	25	2E	25	25	
	Mortondala 2.1	12.5	25	12.5	25	
]	Mortandala 5	12.5	25	12.5	25	
]	Tonto	20	25	10	20	Ĵ



Criteria	Commentary
	Mineralised areas have typically been drilled at hole spacings of 10-25 metres and 12.5-25 metre drill grid spacings. The majority of the holes were drilled at an average dip of -60°, and orthogonal to the strike of mineralisation.
	Drill hole and sample interval spacing is sufficient to establish an acceptable degree of geological and grade continuity appropriate for mineral resource estimations and classifications applied.
	There has been no sample compositing, other than a few historical compositing of field samples for some Aircore and RC samples to 1.5m, 2m and few 4m intervals. The vast majority of primary assay intervals are 1 metre intervals for RC and Aircore samples, and predominantly 1 metre intervals for core samples.
Orientation of data in relation to geological structure	The four recognised deposits and all the known mineralisation is located within the north trending Mertondale Shear Zone (MSZ), located within the Mertondale greenstone sequence, which is orientated in a NNE to Northerly direction. The stratigraphy and mineralisation generally dips sub-vertically to steeply dipping to the east or west. The majority of drilling and sampling programs were carried out to intersect mineralisation orthogonal to strike and as close to orthogonal to dip as practical.
	Geological interpretation of Mertons Reward is largely based on drill data together with information retrieved from historic mapping and mine plans of the old workings, and thus there is a high level of confidence in the interpretation.
	At Mertondale 3-4 gold mineralisation is associated with the intrusive porphyry contact, where the contact can be used as a mineralisation guide or 'marker' horizon.
	The majority of holes were inclined at -60° and drilled orthogonal to the interpreted strike of the target mineralisation (i.e. towards 245° to 270°). In some areas, historical vertical drillholes were completed, as initial reconnaissance drilling, or specifically targeting interpreted flat- to shallow-dipping mineralisation.
	The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in the data thus far.
Sample	HISTORIC DRILLING (1981-2014)
security	No sample security details are available for pre-Navigator (pre-2004) drill samples.
	Navigator's drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. Samples were collected by company personnel from the field and transported to Navigator's secure yard in Leonora, where the samples were then batch processed (drillhole and sample numbers logged into the database) and then packed into 'bulkabag sacks'. The bulkabags were tied off and stored securely in Navigator's yard, until transporting to the laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site, to delivery to the laboratory.
	KIN MINING (2014-2017)
	KIN's RC drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. The samples were then batch processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at KIN's secure yard in Leonora. The bulkabags were tied off and stored securely in the yard. The laboratory's (SGS) transport contractor was utilized to transport the bulkabags to the laboratory. There was no perceived opportunity



Criteria	Commentary
	for the samples to be compromised from collection of samples at the drill site, to delivery to the laboratory, where they were stored in their secure compound, and made ready for processing.
	On receipt of the samples, the laboratory (SGS) independently checked the sample submission form to verify samples received, and readied the samples for sample preparation. SGS's sample security protocols are of industry acceptable standards.
Audits or reviews	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to today's current standards. A review of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to the best practice industry standards of the day.
	A review of the Mertondale Project's database, drilling and sampling protocols, and so forth, was conducted and reported on by independent geological consultants MS in 2009. Their report highlighted various issues, which had subsequently been mostly rectified by Navigator prior to 2014, and most recently by KIN.
	During 2017, CM have reviewed and carried out an audit on the field operations and database. Drilling and sampling methodologies observed during the site visits are to today's industry standard. Similarly there were no issues identified for the supplied databases, which would be considered material.
	KIN is in the process of completing validation of all historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one, and converting all historical logging into the standardized code system. This is an ongoing process and is not yet completed.
	During the review, CM logged the oxidation profiles ('base of complete oxidation' or "BOCO", and 'top of fresh rock' or "TOFR") for each of the deposit areas, based on visual inspection of selected RC drill chips from KIN's recent drilling programs, and a combination of historical and KIN's drillhole logging, with final adjustments made with input from KIN geologists. The oxidation profiles were used to assign bulk densities and metallurgical recoveries to the resource models.
	Bulk density testwork in the past has been inconsistent with incorrect methods employed, to derive specific gravity or in-situ bulk density, rather than dry bulk density. Navigator (2009) and recent KIN (2017) bulk density testwork was carried out using the water immersion method on oven dried, coated samples to derive dry bulk densities for different rock types and oxidation profiles. This information has been incorporated into the database for resource estimation work. CM conducted site visits during 2017 to the laboratory to validate the methodology.
	Recent (2014-2017) RC and diamond drilling by KIN include some twinning of historical drillholes within the Mertondale Project area. In addition, KIN's infill drilling density is considered sufficiently close enough to enable comparison with surrounding historic information, and there is no material difference of a negative nature between historical drilling information and the KIN drilling information. KIN's diamond holes were drilled for metallurgical and geotechnical test work, and assay results for these holes also show good correlation with nearby historical results.
	Drilling, Sampling methodologies and assay techniques used in the historical and recent drilling programs are considered to be appropriate and to mineral exploration industry standards of the day.



SECTION 2 – Reporting of Exploration Results

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

Criteria	Commentary					
Mineral tenement and land tenure status	The Mertondale Project area includes granted mining tenements M37/1284 (Mertons Reward), M37/81 and M37/82 (Mertondale 3-4) and M37/233 (Mertondale 5 and Tonto), centered some 40km NNE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. These tenements are managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields of Western Australia.					
	The following royalty and compensation payments may be applicable to the areas within the Mertondale Project that comprise the deposits being reported on: 1. Aurora Gold (WA) Pty Ltd (subsidiary company of Harmony Gold Mining Company Ltd					
	in respect of M37/82, M37/231, M37/232 and M37/233 - \$0.25 production royalty per dry tonne of ore mined and processed. 2. Aurora Gold (WA) Pty Ltd in respect of M37/81 and M37/82 - \$1.00 production royalty per dry tonne of ore mined and processed.					
	3. Technomin Australia Pty Ltd in respect of M37/82, M37/231, M37/232 and M37/233 - \$0.75 production royalty per dry tonne of ore mined and milled, and					
	4. Higherealm Pty Ltd (Mertondale Pastoral Leaseholder) in respect of M37/81, M37/82, M37/231, M37/232 and M37/233 - \$10,000 per annum, indexed to CPI, for the year(s) when extraction activities are being carried out.					
	There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.					
Exploration done by other parties	Gold was initially discovered in the Mertondale area in 1899 by Mr. Fred Merton. The Mertons Reward (MR) underground gold mine (M37/1284) was the direct result of his discovery. The main mining phase at MR was carried out from 1899 to 1911. Historic underground production records to 1942 totalled 88,890t @ 21.0g/t Au (60,520oz) which represents the only recorded mining conducted at Mertons Reward.					
	Between 1981-1984 Telluride Mining NL, Nickel Ore NL, International Nickel (Aust) Ltd and Petroleum Securities Mining Co Pty Ltd conducted exploration programs in the Mertondale area. Hunter Resources Ltd began actively exploring the region 1984-1989, Hunter submitted a Notice of Intent (NOI) to mine in 1986 and established a JV with Harbour Lights to treat ore from the Mertondale 2 (M37/1284) and Mertondale 3 pits (M37/82). Between 1986 and 1993 the adjoining Mertondale 4 pit (M37/82 and 81) was mined. Harbour Lights acquired the project in 1989 from Hunter. Ashton Gold eventually gained control of Harbour Lights. Large scale mining in the region was completed in 1993 with the mining of the Mertondale 2 and Mertondale 3-4 pits (M37/81 and M37/82). In 1993 Ashton's interest was transferred to Aurora Gold who established a JV with MPI followed by Sons of Gwalia who entered into a JV with Aurora.					
	Historic gold production from the Mertondale Mining Centre.					



Criteria	Commentary								
	Mine	Date	Company	Tonnes	Rec. Grade	Ounces			
	Mertondale			(t)	(Au g/t)	(000)			
	Mertondale 5 Pit	1991	HUV	385,537	2.60	32,290			
	Mertondale 3-4 Pit	1986 – 1993	Hunter/HLJV	1,300,000	4.29	179,300			
	Mertondale 2 Pit	1986 – 1993	Hunter/HLJV	20,000	3.50	2,250			
	Mertondale 2 Pit Mertondale Pits Sub-Total	Feb – Jul 2010	NAV	14,000 1,719,537	1.03 3.87	460 214,300			
	Merton's Reward UG	1899 – 1942	Various	88,891	21.00	60,524			
	Mertondale Total			1,808,428	4.73	274,724			
	Sons of Gwalia (SOG) eventually obtained control of the project in 1997 but conducted limited exploration drilling. In 2004 Navigator Mining Pty Ltd (Navigator) acquired the entire existing tenement holding from the SOG administrator. Navigator conducted the majority of recent exploration drilling in the Mertondale area. KIN acquired the project from Navigator's administrator in late 2014. Historic production from the Mertondale Mining Centre totals 274,724 oz of gold. KIN's drilling is focused in areas comprising historical drilling conducted by the above mentioned previous operators.								
Geology	The Mertondale Project area is located 35-45km NNE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600 km on a NNW trend across the Archean Yilgarn Craton of Western Australia. In broad terms the stratigraphy consists of a central felsic volcanic sequence bounded by tholeiltic basalt, dolerite, and carbonaceous shale ± felsic porphyry sequences.								
	The four recognised of trending Mertondale S			neralisation is	located with	nin the north			
	Two distinct north trei western zone include zone includes the Me	s Quicksilver,	Fonto, Eclipse	and Mertonda	le 5, while th	ne eastern			
	Within the Mertondale sheared mafics, with units are graphitic, no	local porphyry	bodies and sed	diment units.					
	Eastern Mineralised Z	<u>Zone</u>							
	In the Mertons Rewar		e 2 area, two di	stinct types of	high grade	lodes were			
			ing structures ely disseminat						
	 Intershear Lodes: Narrow, flat to moderately dipping auriferous quartz veins up to about 40cm thick, enveloped in carbonate-altered zones up to +10m thick, which contain pyrite and arsenopyrite and lower grades of Au. These are usually truncated to the east and west by the steep dipping shear lodes. 								
	Geological interpretation of Mertons Reward is largely based on historic mapping and mine plans of the historic workings, and thus there is a high level of confidence in the interpretation.								



Criteria	Commentary					
	At Mertondale 3-4 gold mineralisation is associated with the intrusive porphyry contact, where the contact can be used as a mineralisation guide or 'marker' horizon.					
	Western Mineralised Zone					
	The western mineralised zone typically comprises dark mafic mylonites, sedimentary units including carbonaceous shales, mafic intrusives and mafic-intermediate and felsic volcanics. Felsic porphyry intrusives occur irregularly within the shear zone. The black sulphide-rich mafic mylonite typically contains anomalous gold values up to 0.5 g/t Au in the resource areas.					
	Lithologies at Tonto are black mafic mylonite, a black shale, shale, quartz-dolerite, basalt, basaltic andersite and felsic volcanics. The steeply dipping high grade lode at Tonto is more than likely structurally controlled and appears to potentially have a shallow southerly plunge. Visually the grade still remains very difficult to pick with no obvious association with sulphide content, quartz veining or alteration of either graphite or sericite.					
	The footwall consists of the massive quartz dolerite. This dolerite has a noticeable bleached or carbonated halo along its immediate contact with the mylonite but grades into a strongly chloritic massive barren quartz dolerite.					
	The Western mineralised zone at Mertondale 5 typically comprises dark mafic mylonites, sedimentary units including carbonaceous shales, mafic intrusives and mafic-intermediate and felsic volcanics. Felsic porphyry intrusives occur irregularly within the shear zone. The black sulphide-rich mafic mylonite typically contains anomalous gold values in the resource areas.					
Drill hole Information	Material drilling information used for the resource estimation has previously been publicly reported in numerous announcements to the ASX by previous operators of the Mertondale Project, including Navigator (2004-2014) and KIN since 2014.					
Data Aggregation methods	When exploration results have been reported for the resource areas, the intercepts are generally reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without any high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports.					
	Since 2014, KIN have reported RC drilling intersections with low cut off grades of greater than or equal to 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of <0.5g/t Au.					
	There is no reporting of metal equivalent values.					
Relationship Between	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling and verified by KIN's drilling. The majority of drill holes are inclined at -60° towards 270° (west), which is regarded as the optimum					
Mineralisation	orientation to intersect the target mineralisation. Since the mineralisation is steeply dipping, drill intercepts are reported as downhole widths, and not true widths.					



Criteria	Commentary
intercept lengths	
Diagrams	A plan and type sections for each resource area are included in the main body of the report.
Balanced Reporting	Public reporting of exploration results by KIN and past explorers for the resource areas are considered balanced and included representative widths of low and high grade assay results.
Other Substantive exploration data	Comments on recent bulk density and metallurgical information are included in Section 3 of this Table 1 Report. There is no other new substantive data acquired for the resource areas being reported on. All meaningful and material information is or has been previously reported.
Further work	The potential to increase the existing resources is viewed as probable. Further work does not guarantee that an upgrade in the resource would be achieved, however KIN intend to drill more holes at Mertondale 3-4, Mertons Reward, Mertondale 2, Mertondale 5 and Tonto with the intention of increasing the Mertondale resources and converting the Inferred portions of the resources to the Indicated category.



SECTION 3 – Estimation and Reporting of Mineral Resources

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

Criteria	Commentary
Database	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1981. Data was obtained predominantly from Reverse Circulation (RC) drilling, and to a lesser extent, diamond core (Diamond) drilling and Air Core (Aircore) drilling.
Integrity	Companies involved in the collection of the majority of the exploration data prior to 2014 include: Nickelore NL ("Nickelore") 1981-1982; Hunter Resources Ltd ("Hunter") 1984-1988; Harbour Lights Mining Ltd (a joint owned company of Ashton Gold WA Ltd and Carr Boyd Minerals Pty Ltd - "HLML") 1988-1993; Mining Project Investors Pty Ltd ("MPI") 1993-1996; Sons of Gwalia Ltd ("SOG") 1996-2004; Navigator Resources Ltd ("Navigator") 2004-2014.
	KIN exploration data from 2014 to 2017 has been acquired predominantly from RC and some diamond drilling, representing approximately 6% of the supplied Mertondale Project database.
	The database could not be fully verified regarding the reliability and accuracy of a substantial portion of the historical data, however the recent drilling by KIN has enabled comparison with the historical data and there is no material differences observed of a negative nature.
	Database checks conducted by KIN and others are within acceptable limits. There is missing data, however it is regarded as minimal. It is not possible to identify errors that might have occurred prior or during digital tabulation of historic (pre-2004) data, however the amount of historic data used in the resource estimation is minimal and the effect would not be material.
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (Hunter, MPI, SOG and Navigator). Correlation between codes is difficult to establish, however can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	KIN has attempted to validate historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	Drilling conducted by Navigator and KIN has been used to scrutinize and calibrate historic logging data. This has enabled KIN to establish good geological control, which has been used to derive the geological interpretations in current resource work.
	Navigator uploaded the original assay files received from the labs via a database administrator using Datashed to minimise loading errors. An export of the data was then used to create a Microsoft Access ("Access") database for use in Surpac.
	In 2009, MS ("MS") completed a mineral resource estimate report for the Mertondale Project area, including the Mertons Reward, Mertondale 2, Mertondale 3-4 and Mertondale 5 deposits. MS carried out extensive database verification, which included checks of surface survey positions, downhole surveys and assay data against original



Criteria	Commentary					
	records. MS reported on verification of 92% of the assay records in 50 randomly selected check holes with < 0.2% discrepancies. Identified issues were then addressed by Navigator.					
	Since 2014, KIN geologists have conducted verification of historic drilling, assays, geological logs and survey information against the digital database, and in the field, including reviewing historic reports and visual confirmations of Datashed, Surpac and Access databases. KIN have not reported any significant issues with the database.					
	KIN has validated the database in Datashed and in Surpac prior to Resource estimation. These processes checked for holes that have missing data, missing intervals, overlapping intervals, data beyond end-of-hole, holes missing collar co-ordinates, and holes with duplicate collar co-ordinates.					
	CM carried out continuous database review during the 2017 resource estimation process.					
	During 2017, CM also carried out an independent data verification. 8,991 assay records for KIN's 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 3 errors were found, which are not considered material and which represents less than 0.01% of all database records verified for KIN's 2014-2017 drilling programs.					
Site Visit	KIN's geological team have conducted multiple site visits including supervision and management of drill programs within each of the Resource areas.					
	Dr Spero Carras (Competent Person) of CM, was involved in the Leonora district at the Harbour Lights and Mertondale areas during the 1980s, and is familiar with the geology and styles of gold mineralisation within the Mertondale Project area. He revisited the Leonora area during 2017 to review the projects, drilling, sampling and general geology.					
	Messrs Mark Nelson and Gary Powell (Competent Persons) also conducted site visits to the resource areas, and they have independently reviewed drill core, existing open pits, surface exposures, drilling, logging and sampling procedures. Mr Nelson also collected representative rock samples of mineralisation from the Mertondale 3 pit for bulk density determination.					
Geological Interpretation	The Mertondale Project area is located 20-40km NE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600 kilometres on a NNW trend across the Archean Yilgarn Craton of Western Australia.					
	In broad terms the stratigraphy consists of a central felsic volcanic sequence bounded by tholeiitic basalt, dolerite, and carbonaceous shale ± felsic porphyry sequences.					
	The four recognised deposits and all the known mineralisation is located within the north trending Mertondale Shear Zone (MSZ).					
	Two distinct north trending mineralised zones are recognized within the MSZ. The western zone includes Quicksilver, Tonto, Eclipse and Mertondale 5, while the eastern zone includes the Merton's Reward, Mertondale 2 and Mertondale 3-4 deposits.					



Criteria	Commentary					
	Within the Mertondale Project area, most of the known mineralisation is hosted in sheared mafics, with local porphyry bodies and sediment units. Some of the sediment units are graphitic, notably in the western mineralised zone.					
	Eastern Mineralised Zone					
	In the Mertons Reward - Mertondale 2 area, two distinct types of high grade lodes were historically recognized:					
	Shear Lodes: Steeply dipping structures containing abundant quartz-carbonate veinlets accompanied by finely disseminated pyrite-arsenopyrite, and					
	 Intershear Lodes: Narrow, flat to moderately dipping auriferous quartz veins up to about 40cm thick, enveloped in carbonate-altered zones up to +10m thick, which contain pyrite and arsenopyrite and lower grades of Au. These are usually truncated to the east and west by the steep dipping shear lodes. 					
	Geological interpretation of Mertons Reward is largely based on historic mapping and mine plans of the historic (pre-1980) workings, and thus there is a high level of confidence in the interpretation.					
	At Mertondale 3-4 gold mineralisation is associated with the intrusive porphyry contact, where the contact can be used as a mineralisation guide or 'marker' horizon.					
	Western Mineralised Zone					
	The western mineralised zone typically comprises dark mafic mylonites, sedimentary units including carbonaceous shales, mafic intrusives and mafic-intermediate and felsic volcanics. Felsic porphyry intrusives occur irregularly within the shear zone. The black sulphide-rich mafic mylonite typically contains anomalous gold values up to 0.5 g/t Au in the resource areas.					
	Geological interpretation used a combination of drilling data, such as lithology, mineral percentages (e.g. quartz veining and sulphides), weathering codes, rock colour, texture and structure to identify mineralisation envelopes for resource estimation of each deposit.					
	Prescribed geological codes are assumed to have been used consistently in logging by various geologists, though it is probable that some variations between drillholes may be a result of different logging styles or interpretations.					
	The 3D wire frame interpretations of the mineralisation envelopes were produced by CM and validated by KIN. Slight modifications to previous interpretations by independent consultants were made before regenerating the wireframes. The 'base of complete oxidation' and the 'top of fresh rock' DTM surfaces were produced by CM based on geological logs, and adjusted where necessary in consultation with KIN geological staff.					
	Alternative interpretations of the mineralisation may have an effect on the estimation, however it is unlikely that there would be a gross change in the interpretation, based on current information. The resource estimation is controlled by all available data in an attempt to quantify the mineralisation with the highest level of confidence.					
Dimensions	The dimensions of the mineralized area for Tonto are 1300m (N-S) x 50m (E-W). The Tonto area includes a total of 35,772m of drilling. The drilling in the mineralized area for Tonto includes 6 DD holes for 148m, 194 RC holes for 4,557m and 51 AC holes for 509m.					
	The dimensions of the mineralized area for Mertondale 5 are 900m (N-S) x 50m (E-W). The Mertondale 5 area includes a total of 18,390m of drilling. The drilling in the					



Criteria	Commentary								
	mineralized area for Mertondale 5 includes 3 DD holes for 106m, 134 RC holes for 2,440m and 8 AC holes for 70m.								
	Even though historic mining has taken place at Mertons Reward, Mertondale 3-4 and Mertondale 5, mined drillhole data has been used in the interpretation of structure.								
Estimations and Modelling	The following outlines the estimation and modelling technique used for producing Resources for the following deposits in the Mertondale area:								
Techniques	Mertondale 5								
	Deposit Orebody Dimensions Nominal Drill Mineralised Metres Spacing of Drilling (m)								
	Tonto 1300m x 50m x 350m 25m x 20m 5,214								
	Mertondale 900m x 50m x 200m 25m x 12.5m 2,616								
	Wireframes were provided by KIN for:								
	 a. Topography based on drill collar data b. Bottom of Oxidation (BOCO) c. Top of Fresh Rock (TOFR) d. Wireframes of pre-existing pits and some waste dumps e. Historic workings 								
	3. CM carried out an Independent Review of the weathering surfaces and where necessary, based on new drilling (both RC and diamond), geological relogging and bulk density information, the surfaces were modified to reflect the additional information.								
	4. Based on geology, statistical analysis and intersection selection, domainal shapes were wireframed at a 0.3g/t nominal edge cut-off grade. These domainal shapes could contain values less than 0.3g/t within the wireframes although this was minimized to prevent smoothing dilution being incorporated into the final models. The parameters used for intersection selection were 3m downhole, which equates to an approximate 2.5m bench height. The intersections could include 1m of internal dilution.								
	5. The wireframed shapes were audited by KIN geological staff who had previous experience in the Mertondale area whilst working for Navigator Resources Ltd.								
	6. Historically mined volumes were removed from the model. These shapes were based on historical workings obtained from Mines Department information. The historical underground shapes were expanded to be larger than that shown on Mines Department records to allow for any overmining, which may have taken place and had not been recorded and included.								
	7. Each wireframe had an assigned strike, dip and plunge.								



Criteria	Commentary						
	Compositing from the top of each shape was carried out at 1m within each wireframe. The majority of composites (98%) were greater than 1m.						
	9. The domainal shapes were passed into ISATIS Software with specified strike, dip and plunge.						
	10. The number of shapes used was as follows:						
	Deposit Number of Shapes						
	Tonto 51 Mertondale 17 5						
	11. A breakdown of pre-Resource volume for each shape was measured. This was to ensure that modelling did not over dilute shapes due to block sizes being used.						
	12. The declustering program DECLUS (ISATIS) was used to produce the weights to be assigned to each composite for statistical analysis.						
	13. For each shape a detailed set of weighted statistics was produced. Based on the statistics, high grade cuts were determined for every shape and the percentage metal cut was estimated for each deposit as shown in the below table:						
	Deposit Maximum Percentage Cut (g/t) Metal Cut %						
	Tonto 40 7 Mertondale 30 4 5						
	14. Where a data point belonged to 2 shapes the cut allocated was determined for each domain and independently allocated.						
	15. Variograms were run for each domain using ISATIS. The variograms were of very poor quality with the dowhole variograms being the basis of fitted models. Directional variograms were produced for downhole, down dip, down plunge. Where the downhole variograms were calculated on an individual hole basis, variograms were not normalized. Variograms were normalized for down dip and plunge. Raw variograms were used in subsequent work.						
	16. The Author, Dr. S. Carras had extensive experience in the Leonora Belt during the 1980's and has had familiarity with the nature of the mineralisation. The shears are made up of plunging Boudins. The nature of Boudins is such that there is a central high grade core. This means that once inside a Boudin the grades are relatively homogenous and the nugget effect is small. Horsetail splays which occur on the periphery of Boudins give rise to the "string problem" in Ordinary Kriging (OK) where samples on edges are given abnormally high values. To overcome the "string problem" three estimations were produced, OK, Inverse Distance Squared (ID2) and Inverse Distance Cubed (ID3). Distance weighting methods do not suffer from the "string problem".						
	17. The following parameters were used in modelling OK, ID2 and ID3:						
	 A minimum number of samples were as follows: Tonto: 12 Mertondale 5: 2 A maximum number of samples of 32 						



Criteria	Commentary							
	 The discretisation parameters were 2 x 2 x 2 A maximum of 2 samples per hole Note: for blocks that did not meet these requirements, the parameters w relaxed and the search radii were increased. To minimize the striping effect created by estimation in narrow shapes, t downhole search radii were increased. 							
	The aim was to produce adequate data to produce	8. The ranges of search and directions used were applied on a shape by shape basis. The aim was to produce OK results for the majority of shapes where there had been adequate data to produce meaningful variography. Small shapes where there was inadequate data were estimated using distance weighting squared methodology rather than OK.						
	19. The fundamental block s	size used was:						
	Deposit Mertondale 5 Tonto	Small Blocks 3.125m x 1.5625m x 2.5 tonnes) 3.125m x 1.0m x 2.5m (tonnes)						
	Small blocks were us were narrow.	sed to ensure adequate volume	e estimation where shapes					
	20. Scatter plots were then p small blocks.	produced which compared OK,	anisotropic ID2 and ID3 for the					
	21. The models were then visually checked on a 'section by section' basis of block versus drillholes and ID2 proved to be the best fit, which clearly defined the Boudins and eliminated the "string problem".							
			sited to form medium (quarter) medium (quarter) sized blocks					
	Deposit	Medium (Quarter) Blocks	Panels					
	Mertondale 5	6.25m x 3.125m x 2.5m (approximately 130 tonnes)	12.5m x 6.25m x 5.0m (approximately 1,015 tonnes)					
	Tonto	6.25m x 4.0m x 2.5m (approximately 162 tonnes)	12.5m x 8.0m x 5.0m (approximately 1,300 tonnes)					
	23. Plots were produced of f	requency histograms in domair	ns for point data and for blocks.					
	was carried out compari	ng the interpolated blocks to the	noured the drill data, validation e sample composite data. The drill data was honoured by the					
		nes were determined and these plumes within those wireframes	were then compared with the son a shape by shape basis to					



Criteria	Commentary								
	ensure that volumes estimated were correct.								
	26. Classification was carried out using a combination of drillhole density, drillhole quality, and geology as the guide.								
	27. Operating cost estimates developed by KIN indicated that a break even mill feed cut- off grade for deposits in the Mertondale area was likely to be 0.5g/t Au.								
Moisture	Tonnages and grades were estimated on a dry basis only. Bulk Density determinations of diamond drill core included measurements of moisture content.								
Cut-off Parameters		Operating cost estimates provided by KIN's engineering consultants indicate a break even mining grade for open pit deposits in the Mertondale area is likely to be 0.5g/t Au.							
					Unit	Tonto	Mert 5		
1		Revenue Assumptions	Gold Price		\$/t ore	\$2,000	\$2,000	I	
Mining		Mining Cost Assumptions	Revenue Mining Dilution Mining Recovery		\$/g % %	\$64.30 10.0% 90.0%	\$64.30 10.0% 90.0%		
Factors or Assumptions			Mining Cost Recovery	Oxide Trans Fresh	\$/bcm %	92.5% 92.0% 50.0%	92.5% 92.0% 85.0%		
		Processing Recovery and Cost Assumptions	Processing Cost	Oxide Trans Fresh	\$/t ore \$/t ore	\$14.00 \$16.50 \$20.00 \$3.13	\$14.00 \$16.50 \$20.00 \$4.17		
		Geotechnical Assumptions	G & A Cost	Oxide Transitional Fresh	\$/t ore deg deg deg	\$2.06 50 60 65	\$2.06 50 60 65		
				•	Unit			i	
		General Assumptions	Throughput Annual Discounting		t/yr %	1,500,000 0%	1,500,000 0%		
Metallurgical Factors or Assumptions	In 2016 – 2017 KIN's drilling program included a series of RC and DD drillholes to collect samples for geotechnical and metallurgical testwork.								
	In the Mertondale Project area, recoveries for oxide material were generally high (approximately mid-nineties), however in the Mertons Reward area, slightly lower recoveries were returned for transition and fresh material (mid-eighties). This was associated with the presence of a minor amount of sulphides (e.g. pyrite, arsenopyrite).								
	Tonto, recoveries were high for oxide (mid-nineties) and transition (+90%), and high sixties for fresh. The lower recoveries experienced for fresh material in Tonto is due to the presence of preg-robbing graphitic shales. Testwork has shown that the use of modified activated carbon has increased the recovery.								
	It is known that within Mertondale 5 graphitic shales occur, and while these are present within the MSZ, recent testwork by KIN has shown that they can be passivated to an extent through the use of modified activated carbon.								



Criteria	Commentary
	During the mining process, and where necessary, selective extraction of the graphitic shales is envisaged to be possible so that successful segregation and quarantining of the shale material can be achieved, so as to mitigate potential contamination of ore in the process plant.
Environmental Factors or Assumptions	Three open pits and their associated waste rock landforms (i.e. Mertons Reward, Mertondale 3-4 and Mertondale 5), the historical Mertons Reward underground workings and battery tailings are encompassed by the current mineral resource estimate work. The Tonto resource area has not been subjected to any previous mining activity. Historical mining at each of the Mertondale deposits sites, including waste rock landforms have not demonstrated any impacts that cannot be managed in normal operations. Studies completed to date, on ore and waste characterisations for previous and potential mining and processing operations, have not identified any potential environmental impacts that cannot be managed by normal operations. In addition, Navigator's environmental bonds lodged with the DMP for previous operations have since been
Bulk Density	Prior to 2014, there have been numerous programs of bulk density testwork conducted by several companies at different times on diamond drill core and/or RC drill chips for some of the various deposits. Generally the testwork has not been conclusive, since the testwork methodology has not been adequately described in the historical reports, or when it has, the testwork itself was not carried out using an acceptable method to determine dry bulk density. Often, when described, the testwork measured specific gravity, not bulk density, and in cases where bulk density was reported, the moisture content was not taken into account.
	In 2009 Navigator Resources Ltd submitted 189 half or whole diamond core samples to Amdel Mineral Laboratories Ltd's ("Amdel") Kalgoorlie laboratory for bulk density determination by the water immersion method. The core samples were a mixture of half core and whole core samples ranging from 10cm to 30cm in length, and were taken at downhole intervals of roughly every 2 to 3 metres. The samples were firstly weighed, oven dried overnight at 110°C, and weighed again to determine moisture content. Those samples that were likely to absorb water were then sealed, using hairspray, prior to immersion in water. It is not known what proportion of samples were not sealed, however it is likely that only fresh, non-porous samples were not sealed.

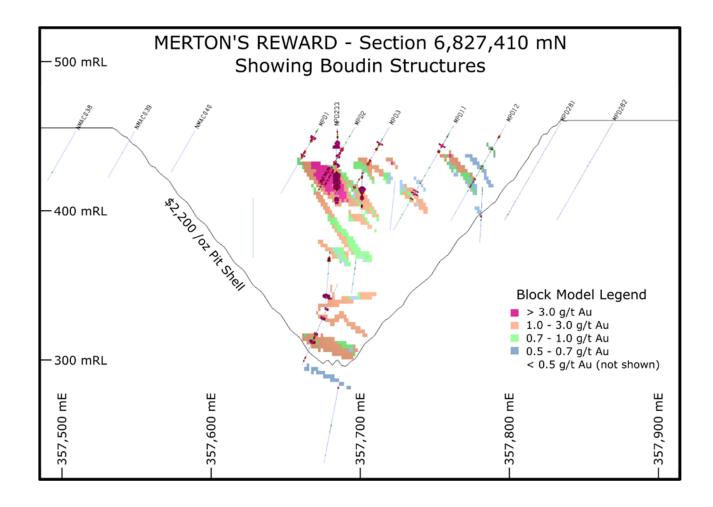


Criteria	Commentary				
	In 2017, KIN carried out a diamond drilling program to include obtaining samples for bul density testwork. Four diamond drill holes were drilled into the major parts of mineralise zones at Mertons Reward and Tonto.			g samples for bulk parts of mineralised	
	A total of 484 half or quarter core samples, of varying lengths (5-20cm) were submitted to an independent laboratory in Perth for bulk density determinations by the water immersion method. The core samples were a mixture of half core and quarter core samples ranging from 5cm to 20cm in length, and were taken at downhole intervals of roughly every 1 metre. The samples were firstly weighed, oven dried overnight at 110°C, and weighed again to determine moisture content. The samples were then sealed, using hairspray, prior to immersion in water.				
	In addition, Mr M Nelson (Consultant to CM) also took representative samples of mineralised material from the Mertondale 3-4 pit and submitted to the laboratory for bulk density determination. During the 2017 bulk density testwork and estimation process, Dr S Carras and Mr G Powell (Consultant to CM) visited the laboratory and identified some improvements for consideration in the bulk density determination process, particularly for small core pieces to give better precision of measurements. The suggested improvements were implemented and precision improved. When estimating the bulk density for pieces of diamond drill core, it was found that the larger sized samples gave more repeatable results and these were mostly used in assigning the bulk densities. Based on measurements the following bulk density parameters were used for the Mertondale area:				
				nprovements for r small core pieces	
				used for the	
	Deposit Name	Oxide	Transition	Fresh]
	Mertondale 5	2.0	2.2	2.5	
	Tonto	1.9	2.3	2.7	
	For Mertondale 5 the bu	lk densities are	based on histori	c open pit perf	formance.
Classification	Classification was based confidence in geological nominal grids (N x E):				
	Tonto:Mertondale 5:	25m x 25m x			
	In general drillhole spac Indicated.	ing of 25m x 20	m resulted in mir	neralisation be	ing classified as
	Drillhole spacing general mostly allocated to the li			a result deepe	r mineralisation is
	The Mineral Resource e	stimate approp	riately reflects the	e view of the C	Competent Person.



Criteria	Commentary	
Audits and Reviews	Navigator Resources had worked with McDonald Speijers (January 2009) to produce estimates for the Mertondale deposits using the recovered fraction technique. KIN personnel carried out audits and internal reviews of the data, assay, survey, wireframes and geological interpretations used by CM in carrying out the Resource estimation for Tonto and Mertondale 5. CM also carried out detailed reviews of all data. Bulk density determination methodology was audited by S Carras and G Powell (Consultant to CM) through visitation of the independent laboratory.	
Discussion	KIN embarked on a program of infill drilling, including twinning of historical drillholes. The drilling largely substantiated the position and tenor of mineralisation. It also validated the information obtained from various drilling campaigns.	
of Relative Accuracy and Confidence	In the modelling process every attempt has been made to eliminate the "string effect" problem associated with the estimation of narrow vein structures through the use of ordinary kriging. This has been achieved through the use of distance weighting estimates correlated back to ordinary kriging estimates. This method, although heuristic has been validated by extensive review of the block models and the drillhole data.	
	Every attempt has been made in the modelling to reduce the smoothing effect which results when using a low cut-off grade to determine boundary positions and limit the amount of dilution in the Resource so that it can be correctly diluted for Reserve.	
	In all high coefficient of variation orebodies, local estimation is very difficult to achieve due to the high nugget effect of the gold. This means that small parcels of ore are difficult to estimate without further information such as closer spaced grade control drilling.	







Appendix G

JORC 2012 TABLE 1 REPORT CARDINIA PROJECT Fiona and Rangoon

Fiona added

Mining and Processing assumptions adjusted to reflect this update.

SECTION 1 – Sample Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Commentary
Sampling techniques	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1986. Data was obtained predominantly from Reverse Circulation (RC) drilling, and to a lesser extent, diamond core (Diamond) drilling and Air Core (Aircore) drilling.
	There is limited exploration data available prior to 1986, where exploration for nickel was carried out in the late 1960s and for base metals in the 1970s. During 1980-1985, Townson Holdings Pty Ltd ("Townson") mined a small open pit over some old workings at the Rangoon prospect.
	Companies involved in the collection of the majority of the gold exploration data since 1986 and prior to 2014 include: Mt Eden Gold Mines (Aust) NL (also Tarmoola Aust Pty Ltd "MEGM") 1986-2003; Pacmin Mining Corporation Ltd ("Pacmin") 1998-2001; Sons of Gwalia Ltd ("SOG") 2001-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.
	Kin Mining Ltd ("KIN") acquired the Cardinia Project in 2014.
	HISTORIC SAMPLING (1986-2014)
	Drill samples were generally obtained from 1m downhole intervals and riffle split to obtain a 3-4kg representative sub-sample, which were submitted to a number of commercial laboratories for a variety of sample preparations methods, including oven drying (90-110°C), crushing (-2mm to -6mm), pulverizing (-75μm to -105μm), and generally riffle split to obtain a 30, 40 or 50 gram catchweight for gold analysis, predominantly by Fire Assay fusion, with AAS finish. On occasions, initial assaying have been carried out using Aqua Regia digest and AAS/ICP finish, with anomalous samples re-assayed by Fire Assay fusion and AAS/ICP finish.
	Diamond Drilling
	Half core (or quarter core) sample intervals varied from 0.3 to 1.4m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in marked core trays and stored in a secure yard for



Criteria	Commentary
	future reference. The only known available drill core from these programs and stored at KIN's Leonora Exploration Yard, are those drilled by Navigator.
	RC Drilling
	The vast majority of Reverse Circulation (RC) drill samples were collected over 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for gold analysis.
	Navigator obtained sub-samples from wet samples using the spear method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop. Assay results from these samples are not used for resource estimation work, however they do sometimes provide a guide in interpreting geology and mineralisation continuity.
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques, therefore Aircore sample assay results were only used for resource estimation work if the 1m sub-samples were obtained by riffle splitting of the primary sample, prior to placing on the ground.
	There are no sample rejects available from AC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	RAB Drilling
	Sample return from Rotary Air Blast (RAB) drilling are collected from the annulus between the open hole and drill rods, using a stuffing box and cyclone. Samples are usually collected at 1 metre intervals and placed on the ground with 3-4kg sub-samples collected using a scoop or spear. Up-hole contamination of the sample is commonplace, therefore this type of drilling and sampling is regarded as reconnaissance in nature and the samples indicative of geology and mineralisation. The qualities of samples are not appropriate for resource estimation work and are only sometimes used as a guide for interpreting geology and mineralisation.
	KIN MINING (2014-2017)
	Diamond Drilling
	Diamond drill core (HQ3) samples collected for analysis were longitudinally cut in half, and then in quarters, using a powered diamond core saw blade centered over a cradle



Criteria	Commentary
	holding the core in place. Core sample intervals varied from 0.2 to 1.25m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in their respective core trays and securely stored in KIN's yard in Leonora for future reference.
	RC Drilling
	During drilling, sample return is passed through a cyclone and stored in a sample collection box. At the end of each metre, the cyclone underflow is closed off, the underside of the sample box is opened and the sample passed down through a riffle splitter.
	All RC sub-samples were collected over one metre downhole intervals and averaged 3-4kg. Sample reject from the riffle splitter were retained and stored in marked plastic bags, and located near to each drillhole collar.
	All drilling, sample collection and sampling handling procedures were conducted and/or supervised by KIN geology personnel to high level industry standards. QA/QC procedures were implemented during each drilling program to industry standards.
	<u>Analysis</u>
	Once received at the assay laboratory, diamond core and RC samples were oven dried (105-110°C), crushed (-6mm & -2mm), pulverised (P85% -75µm) and split to obtain a representative 50 gram sample catchweight for gold only analysis using Fire Assay fusion with AAS finish.
	COMMENT
	For some earlier (pre-2004) drilling programs, RC and Aircore samples were obtained at 1.5, 2 or 4 metre downhole intervals.
	For resource estimation work, Diamond, RC and some Aircore drilling data was used where appropriate. RAB drilling data was not used for resource estimation but was sometimes used as an interpretative guide only. A small proportion of the 2m sample intervals, particularly for Helens-Rangoon, were used in the resource estimation, only where the sampling methods are appropriate, and where they sit within the mineralisation interpretations.
Drilling techniques	Numerous programs comprising various types of drilling have been conducted by several companies since 1985. The Cardinia database encompasses the various deposits and prospects within the Cardinia Project's Helens and Rangoon areas, and consists of 1,077 drillholes for a total 46,753 metres, excluding RAB drilling, viz:
	Diamond drilling: 17 drillholes 956 metres
	RC drilling: 755 drillholes 36,231 metres
	Aircore drilling: 305 drillholes 9,566 metres
	HISTORIC DRILLING (1986-2014)
	<u>Diamond Drilling</u>
	Diamond drilling was carried out using industry standard 'Q' wireline techniques, with the core retrieved from the inner tubes and placed in core trays. Core sizes include NQ/NQ3



Criteria	Commentary
	(Ø 45-48mm) and HQ/HQ3 (Ø 61-64mm). At the end of each core run, the driller placed core blocks in the tray, marked with hole number and depth. Core recovery was usually measured for each core run and recorded onto the geologist's drill logs.
	RC Drilling
	RC drilling used conventional reverse circulation drilling techniques, utilising a cross-over sub, until the late 1980s, when the majority of drilling companies started changing over to using face-sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm. Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination (e.g. smearing of grades), especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be more reliable and representative.
	Aircore Drilling
	Aircore drilling is a form of RC drilling, but generally utilizing smaller rigs and smaller air compressors, compared to standard RC drill rigs of the times. Aircore bits are hollow in the centre, with the kerf comprising cutting blades or 'wings' with tungsten-carbide inserts. Drill bit diameters usually range between 75-110mm.
	All Aircore drilling (100%) was conducted by Navigator utilising suitable rigs with appropriate compressors (eg 250psi/600cfm). Aircore holes were drilled mostly into the weathered regolith using 'blade' or 'wing' bits, until the bit was unable to penetrate further ('blade refusal'), often near to the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate harder rock types. Hole depths ranged from 4m to 78m, averaging approximately 30 metres.
	RAB Drilling
	RAB drilling is carried out using small air compressors (eg 250psi/600cfm) and drill rods fitted with a percussion hammer or blade bit, with the sample return collected at the drillhole collar using a stuffing box and cyclone collection techniques. Drillhole sizes generally range between 75-110mm.
	KIN MINING (2014-2017)
	Diamond Drilling
	Diamond drilling was carried out by contractor Orbit Drilling Pty Ltd ("Orbit Drilling") with a truck-mounted Hydco 1200H drill rig, using industry standard 'Q' wireline techniques. Drill core (HQ3) is retrieved from the inner tubes and placed in plastic core trays and each core run depth recorded onto core marker blocks and placed at the end of each run in the tray.
	Drillhole deviation was measured at regular downhole intervals, typically at 10m from surface, thence every 30m to bottom of hole, using electronic multi-shot downhole survey tools (i.e. Reflex EZ-TRAC or Camteq Proshot).
	Core orientation was obtained for each core run where possible, using electronic core orientation tools (e.g. Reflex EZ-ACT) and the 'bottom of core' marked accordingly.
	RC Drilling



Criteria Commentary

RC drilling was carried out by Orbit Drilling's truck-mounted Hydco 350RC drill rigs with 350psi/1250cfm air compressor, with auxiliary and booster air compressors (when required). Drilling utilised mostly downhole face-sampling hammer bits (Ø 140mm), with occasional use of blade bits for highly oxidized and soft formations. The majority of drilling retrieved dry samples, with the occasional use of the auxiliary and booster air compressors beneath the water table, to maintain dry sample return as much as possible.

Drillhole deviations were surveyed downhole, during drilling operations, using electronic multi-shot downhole tool (e.g. Reflex EZ-TRAC). In some instances, drillholes were surveyed later in open hole. In the later drilling programs, downhole surveying was carried out inside a non-magnetic stainless steel (s/s) rod, located above the hammer. Providing the tool was located in the middle of the stainless steel rod, azimuth and dip readings were successfully recorded. A separate independent program of downhole deviation surveying was carried out to validate previous surveys, utilizing an electronic continuous logging survey tool (AusLog A698 deviation tool).

The following tables summarise drilling totals for the Cardinia Project's Helens and Rangoon areas, for DD, RC and AC only (i.e. excluding open-hole drilling such as RAB):

Cardinia Project, Helens & Rangoon – Historical Drilling Summary (Pre-2014)

TOTAL	Holes	Metres	%(m)
DD	11	423	44.2%
RC	505	21,952	60.6%
AC	305	9,566	100.0%
Total	821	31,941	68.3%

Cardinia Project, Helens & Rangoon – Drilling Summary – KIN (2014-2017)

TOTAL	Holes	Metres	%(m)
DD	6	534	55.8%
RC	250	14,279	39.4%
Total	256	14,813	31.7%

COMMENT

Historical reports indicate that drill core sizes were predominantly HQ/HQ3 or NQ/NQ3, however database details are incomplete. Most historical reports recorded core recoveries, although these details are not included in the database. Review of some



Criteria	Commentary
	historical reports indicate that core recoveries were generally good, although recoveries were typically less in highly fractured zones and some highly weathered mineralised zones in the transition and oxide zones, however this information is not recorded in the supplied database.
	RC drilling is the dominant drill type at all sites. RC drilling information is generally described in varying detail in historical reports to the DMP, including drilling companies used and drilling rig types, however it's not all recorded in the database supplied. Review of the historical reports indicates that reputable drilling companies were typically contracted and the equipment supplied was of an acceptable standard for those times. During the 1990s, and 2000s, suitable large drill rigs with on-board compressors were probably complimented with auxiliary and booster air compressors for drilling to greater depths and/or when groundwater was encountered. KIN's drilling was conducted with modern rigs equipped with auxiliary and booster compressors and face sampling hammers with bit diameters typically 140mm.
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques. Aircore drilling data was only used in resource estimation work, where the in-field and laboratory sampling methodologies was considered appropriate and limited to a number of selected Navigator drillholes.
Drill .	HISTORIC DRILLING (1986-2014)
sample recovery	Diamond Drilling
	Core recovery has been recorded in most drill logs for most of the diamond drilling programs since 1985, but is not recorded in the supplied database. A review of some historical reports indicates that generally core recovery was good with lesser recoveries recorded in zones of broken ground and/or areas of mineralisation. Overall recoveries are considered acceptable for resource estimation.
	RC Drilling
	There is limited information recorded for sample recoveries for historical RC and Aircore drilling. However there has been an improvement in sample recoveries and reliability following the introduction of face sampling hammers and improved drilling technologies and equipment, since the mid-1980s.
	KIN MINING (2014-2017)
	Diamond Drilling
	Core recovery was recorded for each run by measuring total length of core retrieved against the downhole interval actually drilled.
	Diamond core recoveries were recorded in the database. Independent field reviews by the Competent Persons (SC & GP) in 2017 of the diamond drilling rig in operation and core integrity at the drill sites, demonstrated that diamond drill core recoveries were being maximised by the driller, and that core recoveries averaged >95%, even when difficult ground conditions were being encountered.
	RC Drilling
	Integrity of each one metre RC sample is preserved as best as possible. At the end of each 1 metre downhole interval, the driller stops advancing the rods, retracts from the



Criteria	Commentary
	bottom of hole, and waits for the sample to clear from the bottom of the hole through to the sample collector box fitted beneath the cyclone. The sample is then released from the sample collector box and passed through the 3-tiered riffle splitter fitted beneath the sample box. Sample reject is collected in plastic bags, and a 3-4kg sub-sample is collected in pre-marked calico bags for analysis. Once the samples have been collected, the cyclone, sample collector box and riffle splitter are flushed with compressed air, and the riffle splitter cleaned by the off-sider using a compressed air hose, and if necessary a scraper. This process is maintained throughout the entire drilling program to maximise drill sample recovery and to maintain a high level of representivity of the material being drilled.
	RC drill sample recoveries are not recorded in the supplied database, however a review by the Competent Person (GP) in May 2017 of RC drill samples stored in the field, and observations of the two RC drilling rigs in operation, suggests that RC sample recoveries were mostly consistent and very good, with the samples themselves being reliable and representative of the material being drilled.
	COMMENT
	Due to the lack of detailed information in the database regarding historic (pre-2014) Aircore and RC drilling, no quantitative or semi-quantitative impression of sample recovery or sample quality is available. Given that much of the drilling at Cardinia was conducted by the same companies and at the same times as that carried out for the Mertondale Project, where it is assumed to be satisfactory given that the Mertondale deposits were mined in the past, by open pit methods, where the open pits were mined to their original design limits, based on the historical drill data. This suggests that the amount of metal recovered was probably not grossly different from pre-mining drill data based expectations.
	During Navigators drill programs wet samples were spear sampled instead of riffle split. This is regarded as poor sampling procedure and these samples are regarded as unreliable however the total number of wet samples is considered to be very low.
	No indication of sample bias is evident nor has it been established. That is, no relationship has been observed to exist between sample recovery and grade.
	The amount of Aircore drilling data used in the Cardinia resource estimation process is low and regarded as not material.
Logging	HISTORIC DRILLING (1986-2014)
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (MEGM, Pacmin, SOG & Navigator). Correlation between codes is difficult to establish, however it can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	Navigator's procedure for logging of diamond core included firstly marking of the bottom of the core (for successful core orientations), core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features, and then marked up for cutting and sampling.
	Navigator RC and Aircore logging was entered on a metre by metre basis, recording lithology, alteration, texture, mineralisation, weathering and other features. The



Criteria	Commentary
	information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.
	The entire length of all drillholes are logged in full from surface to bottom of hole.
	Logging is qualitative on visual recordings of lithology, oxidation, colour, texture and grain size. Logging of mineralogy, mineralisation and veining is quantitative.
	Drill core photographs are only available for Navigator's diamond drillholes.
	KIN MINING (2014-2017)
	KIN's logging of drill samples was carried out in the field (RC drilling) or at the Leonora Yard (diamond core) and entered onto a portable computer, on a metre by metre basis for RC, and by sample intervals and/or geological contacts for diamond core. Data recorded included lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded in the drill logs in the field.
	Several diamond drillholes were completed for geotechnical purposes and were independently logged for structural data by geotechnical consultants. All diamond drill core has been photographed, and currently stored at KIN's yard in Leonora.
	KIN geological personnel retrieved the core trays from the drill rig site and relocated them to KIN's yard in Leonora at the end of each day. Drill core was photographed in the field or at the Leonora yard, prior to cutting using a diamond core saw to obtain quarter core samples for analysis.
	All information collected was entered directly into laptop computers or tablets, and transferred to the database to be validated.
	COMMENT
	KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies and metallurgical studies.
	Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, veining, and in addition, logging of diamond drilling included geotechnical data, RQD and core recoveries.
	For the majority of historical drilling (pre-2004), and all of the more recent drilling, the entire length of drillholes have been logged from surface to 'end of hole'. Diamond core logging is typically logged in more detail compared to RC and Aircore drilling.
Sub- sampling techniques and	HISTORIC DRILLING (1986-2014)



Criteria	Commentary
sample preparation	Historical reports for drilling programs prior to 2004, are not always complete in the description of sub-sampling techniques, sample preparation and quality control protocols.
	<u>Diamond Drilling</u>
	Diamond drill core (NQ/NQ3 or HQ/HQ3) samples collected for analysis were longitudinally cut in half, and occasionally in quarters for the larger (HQ/HQ3) diameter holes, using a powered diamond core saw blade centered over a cradle holding the core in place.
	Core sample intervals varied from 0.3 to 1.4m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in core trays.
	Where historical reports do not describe the sampling protocol for sampling of drill core, it is assumed that drill core was sampled as described above.
	RC Drilling
	Prior to 1996, limited historical information indicates most RC sampling was conducted by collecting 1m samples from beneath a cyclone and passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. RC sampling procedures are believed to be consistent with the normal industry practices at the time. The vast majority of samples were dry and riffle split, however spear or tube sampling techniques were used for wet samples.
	Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.
	The vast majority of Reverse Circulation (RC) drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
	Navigator obtained sub-samples from wet samples using the spear or tube method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Navigator included standards, fields duplicate splits (since 2009), and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples.



Criteria	Commentary
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop.
	A variety of laboratories were used for analysis. Prior to 2009, duplicate samples were not routinely collected and submitted from RC and Aircore drilling to the same laboratory consequently overall sampling and assay precision levels can't be quantified for that period. Since 2009, Navigator adopted a stricter sampling regime with the submission of duplicate samples at a rate of 1 for every 50 primary samples.
	While QC protocols were not always comprehensive, the results indicate that assay results from Navigators exploration programs were reliable. Results from pre-Navigator operators are regarded as consistent with normal industry practices of the time.
	KIN MINING (2014-2017)
	Diamond Drilling
	Diamond drill core samples collected for analysis were longitudinally cut in half and quarters, using a powered diamond core saw blade centered over a cradle holding the core in place. Core sample intervals varied from 0.2 to 1.25m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference.
	All of KIN's diamond drill core is securely stored at their Leonora Yard.
	RC Drilling
	All RC sub-samples were collected over 1 metre downhole intervals and retained in premarked calico bags, after passing through a cyclone and riffle splitter configuration. The majority of RC sub-samples consistently averaged 3-4kg. Sample reject from the riffle splitter were retained and stored in plastic bags, and located near each drillhole site. When drilling beneath the water table, the majority of sample returns were kept dry by the use of the auxiliary and booster air compressors. Very few wet samples were collected through the riffle splitter, and the small number is not considered material.
	Field duplicates were taken at regular intervals at a ratio of 1:50 and assay results indicate that there is reasonable analytical repeatability, considering the presence of nuggety gold.
	COMMENT
	All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of the material being drilled. QA/QC procedures implemented during each drilling program are to industry standard practice.
	Samples sizes are considered appropriate for this style of gold mineralisation and is an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia



Criteria	Commentary
Quality of assay data and laboratory tests	Numerous assay laboratories and various sample preparation and assay techniques have been used since 1981. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.
16313	HISTORIC DRILLING (1986-2014)
	For assay data obtained prior to 2001, the incomplete nature of the data results could not be accurately quantified in terms of the data derived from the combinations of various laboratories and analytical methodologies.
	Since 1993, the majority of samples submitted to the various laboratories were typically prepared for analysis firstly by oven drying, crushing and pulverizing to a nominal 85% passing 75µm.
	In the initial exploration stages, Aqua Regia digest with AAS/ICP finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS/ICP finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 30, 40 or 50 gram catchweights) with AAS/ICP finish.
	Approximately 15-20% of the sampled Aircore holes may have been subject to Aqua Regia digest methods only, however Aircore samples were predominantly within the oxide profile, where aqua regia results would not be significantly different to results from fire assay methods.
	Limited information is available regarding check assays for drilling programs prior to 2004.
	During 2004-2014, Navigator utilised six different commercial laboratories during their drilling programs, however Kalgoorlie Assay Laboratories conducted the majority of assaying for diamond, RC and Aircore samples using Fire Assay fusion on 40 gram catchweights and AAS/ICP finish.
	Since 2009 Navigator regularly include field duplicates, Certified Reference Material (CRM) standards and blanks with their sample batch submissions to the laboratories at average ratio of 1 in every 20 samples. Sample assay repeatability, and blank and CRM standards assay results are within acceptable limits.
	KIN MINING (2014-2017)
	Sample analysis was conducted by SGS Australia Pty Ltd's ("SGS") Kalgoorlie and Perth laboratories. Sample preparation included oven drying (105°C), crushing (-6mm), pulverising (P85% -75µm) and riffle split to obtain a 50 gram catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish (SGS Lab Code FAA505).
	KIN regularly insert blanks, field duplicate and CRM standards in each sample batch at a ratio of 1:20. This allows for at least one blank and one CRM standard to be included in each of the laboratory's fire assay batch of 50 samples. Field duplicate sample assay repeatability, blank standards and CRM standards assay results are within acceptable limits for this style of gold mineralisation.
	SGS include blanks and CRMS as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are within acceptable limits.



Criteria	Commentary
	COMMENT
	The nature and quality of the assaying and laboratory procedures used are considered to be satisfactory and appropriate for use in mineral resource estimations.
	Fire Assay fusion or Aqua Regia digestion techniques were conducted on diamond, RC and Aircore samples, with AAS or ICP finish.
	Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay technique with AAS or ICP finish. AAS and ICP methods of detection are both considered to be suitable and appropriate methods of detection.
	Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.
	No other analysis techniques have been used to determine gold assays.
	KIN's ongoing QA/QC monitoring program identified one particular CRM that was returning spurious results. Further analysis demonstrated that the standard was compromised and subsequently removed and destroyed. A replacement CRM of similar grade was substituted into the QA/QC program.
Verification of sampling and assaying	Verification of sampling and assaying techniques and results prior to 2004 has limitations due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories, over a twenty year period.
	In 2009, Runge Ltd ("Runge") completed a mineral resource estimate report for the Cardinia Project area, including the Helens and Rangoon deposits. Runge's database verification included basic visual validation in Surpac and field verification of drillhole positions in February 2009. Runge did not report any significant issues with the database.
	Since 2014, significant drill intersections have been verified by KIN's company geologists during the course of the drilling programs.
	During 2017, Carras Mining Pty Ltd ("CM") carried out an independent data verification. 10,499 assay records for KIN's 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 6 errors were found, which are not considered material and which represents only 0.015% of all database records verified for KIN's 2014-2017 drilling programs
	COMMENT
	There is always a risk with legacy data that sampling or assaying biases may exist between results from different drilling programs due to differing sampling protocols, different laboratories and different analytical techniques.
	Repeated examination of historic reports on phases of diamond, RC and Aircore drilling have been conducted from time to time. Assay results from KIN's recent drilling are consistent with surrounding information and as a result the information obtained from the



Criteria	Commentary
	various diamond, RC and Aircore drilling programs (where sampling protocols are appropriate) have been accepted.
	Recent (2014-2017) RC and diamond drilling by KIN included some twinning of historical drillholes at the Helens and Rangoon resource areas, comprising historic information. There is no material difference between historical drilling information and the KIN drilling information. In the areas that were not drilled with twin holes, the drill density is considered sufficiently close enough to enable comparison with surrounding historic information, and there is no material difference of a negative nature between historical drilling information and the KIN drilling information. KIN's diamond holes were drilled for metallurgical and geotechnical test work, and assay results for these holes also show adequate correlation with nearby historical results.
	Where sampling protocols are appropriate, diamond, RC and Aircore samples, are of equal importance in the resource estimation process.
	There has been no adjustments or calibrations made to the assay data recorded in the supplied database.
Location of data points	HISTORIC DATA (1986-2014)
uata points	Several local grids were established and used by previous project owners. During the 1990s, SOG transformed the surface survey data firstly to AMG and subsequently to MGA (GDA94 zone51).
	Drilling was carried out historically using various local grids. Since 2004, All Navigators drill hole collars were surveyed on completion of drilling in the Australian MGA94, Zone51 grid using RTK-DGPS equipment by licensed surveyors, with more than 80% of the pickups carried out by independent contractors.
	Almost all the diamond and at least 70% of Navigator's RC holes were downhole surveyed. Pre-Navigator, single shot survey cameras were used, with typical survey intervals of 30-40 metres.
	KIN MINING (2014-2017)
	KIN's drill hole collars were located and recorded in the field by a contract surveyor using RTK-DGPS (with a horizontal and vertical accuracy of ±50mm). Location data was collected in the GDA94 Zone51 grid coordinate system.
	Downhole surveying during KIN's drilling programs was predominantly carried out by the drilling contractor. KIN recognised that some of the downhole survey data appeared to be spurious, and commissioned an independent downhole surveying program by a survey contractor (BHGS, Perth) to check several drillholes at Helens and Rangoon. The check survey found occasional spurious results with the initial surveys. This can be explained by the fact that when the drilling company's survey tool is run inside the drill rods, the tool's sensors need to be located exactly in the middle of the bottom stainless steel (s/s) RC rod to obtain accurate readings. Check readings by KIN personnel at different locations within the s/s rod found that variation in azimuth can be measured up to 2°, within 1 metre from the centre of the rod, and up to 10° further away from the



Criteria	Commentary
	centre. The positioning of the tool by the drilling contractor is assumed to be within 1 metre of the centre of the s/s rod for the majority of the drilling program. Therefore, given the nature of the mineralisation and the shift in apparent position of up to 5 metres (for 2° variation) along 'strike' for open pit depths (<140 metres), the occasional errors are not considered material for this resource estimation work.
	In addition, if the downhole survey tool is located within 15 metres of the surface, there is risk of influence from the drill rig affecting the azimuth readings. This was observed for the survey readings, which include total magnetic intensity (TMI) measurements, where TMI is spurious for readings taken at downhole depths less than 20 metres. These spurious readings are included in the database, but are not used.
	KIN supplied two digital terrain models (DTM) of the topography: one DTM constructed from drill hole collar data, and the second from a recent aerial orthophotogrammetry survey. The two DTM surfaces correlate sufficiently close and within acceptable limits for horizontal and vertical control, and appropriate for resource estimations.
	COMMENT
	The accuracy of the drill hole collar and downhole data are located with sufficient accuracy for use in resource estimation work.
	Some historical Navigator drillhole collar positions at Helens and Rangoon have recently been independently located and verified in the field, and checked against the database.
	Considering the history of grid transformations and surviving documentation, there might be some residual risk of error in the MGA co-ordinates for old drillholes, however this is not considered to be material for the resource estimations, subject of this report.
	Azimuth data was historically recorded relative to magnetic north. Much of the historical drilling data was recorded relative to magnetic north. Variation in magnetic declination for the Cardinia Project area is calculated at +0.823° East (1985) to +1.301° East (2017), with a maximum variation of +1.575° in 2005. The difference between true north and magnetic north, and the annual variation in magnetic declination since 1985 is not significant, therefore magnetic north measurements have been used, where true north data is unavailable, for all survey data used in resource estimation processes.
Data spacing and	Drill hole spacing patterns vary considerably throughout the Project area, and is deposit specific, depending on the nature and style of mineralisation being tested.
distribution	Drill hole and sample interval spacing is sufficient to establish an acceptable degree of geological and grade continuity appropriate for mineral resource estimations and classifications applied.
	There has been no sample compositing, other than a few historical compositing of field samples for some Aircore and RC samples to 1.5m, 2m, 3m, 4m and a few 5m intervals. The vast majority (>90%) of primary assay intervals are 1 metre intervals for RC and Aircore samples, and predominantly 1 metre intervals for core samples.
Orientation of data in relation to geological	The sheared Cardinia greenstone sequence displays a NNW to NW trend. The drilling and sampling programs were carried out to obtain an unbiased location of drill sample data, generally orthogonal to the strike of mineralisation.
structure	Mineralisation is structurally controlled in sub-vertical shear zones within the Cardinia area, with a supergene component in the oxidised profile.



Criteria	Commentary
	The vast majority of historical and KIN's drilling is orientated at -60°/245° (WSW) and -60°/065° (ENE), generally orthogonal to the strike of mineralisation.
	The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in the data thus far.
Sample security	HISTORIC DRILLING (1986-2014)
	No sample security details are available for pre-Navigator (pre-2004) drill samples.
	Navigator's drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. Samples were collected by company personnel from the field and transported to Navigator's secure yard in Leonora, where the samples were then batch processed (drillhole and sample numbers logged into the database) and then packed into 'bulkabag sacks'. The bulkabags were tied off and stored securely in Navigator's yard, until transporting to the laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site, to delivery to the laboratory.
	KIN MINING (2014-2017)
	KIN's RC drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. The samples were then batch processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at KIN's secure yard in Leonora. The bulkabags were tied off and stored securely in the yard. The laboratory's (SGS) transport contractor was utilized to transport the bulkabags to the laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site, to delivery to the laboratory, where they were stored in their secure compound, and made ready for processing.
	On receipt of the samples, the laboratory (SGS) independently checked the sample submission form to verify samples received, and readied the samples for sample preparation. SGS's sample security protocols are of industry acceptable standards.
Audits or reviews	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to today's current standards. A review of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to the best practice industry standards of the day.
	A review of the Cardinia Project's database, drilling and sampling protocols, and so forth, was conducted and reported on by independent geological consultants Runge Ltd in 2009. Their report highlighted issues with bulk density and QA/QC analysis of the database, which have since been identified and addressed by Navigator and most recently by KIN during the 2017 drilling campaign.
	During 2017, CM have reviewed and carried out an audit on the field operations and database. Drilling and sampling methodologies observed during the site visits are to today's industry standard. Similarly there were no issues identified for the supplied databases, which would be considered material.
	KIN is in the process of completing validation of all historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one, and converting all historical logging into the standardized code system. This is an ongoing process and is not yet completed.



Criteria	Commentary
	During the review, CM logged the oxidation profiles ('base of complete oxidation' or "BOCO", and 'top of fresh rock' or "TOFR") for each of the deposit areas, based on visual inspection of selected RC drill chips from KIN's recent drilling programs, and a combination of historical and KIN's drillhole logging, with final adjustments made with input from KIN geologists. The oxidation profiles were used to assign bulk densities and metallurgical recoveries to the resource models.
	Bulk density testwork in the past has been inconsistent with incorrect methods employed, to derive specific gravity or in-situ bulk density, rather than dry bulk density. Navigator (2009) and recent KIN (2017) bulk density testwork was carried out using the water immersion method on oven dried, coated samples to derive dry bulk densities for different rock types and oxidation profiles. This information has been incorporated into the database for resource estimation work. CM conducted site visits during 2017 to the laboratory to validate the methodology.
	Recent (2014-2017) RC and diamond drilling by KIN include some twinning of historical drillholes within the Cardinia Project area. In addition, KIN's infill drilling density is considered sufficiently close enough to enable comparison with surrounding historic information, and there is no material difference of a negative nature between historical drilling information and the KIN drilling information. KIN's diamond holes were drilled for metallurgical and geotechnical test work, and assay results for these holes also show good correlation with nearby historical results.
	Drilling, Sampling methodologies and assay techniques used in these drilling programs are considered to be appropriate and to mineral exploration industry standards of the day.



SECTION 2 – Reporting of Exploration Results

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

Criteria	Commentary
Mineral tenement and land tenure status	The Cardinia Project's Helens and Rangoon areas includes granted mining tenements M37/316 and M37/317, centered some 35-40km NE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. The Cardinia Project is managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields. There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.
Exploration done by other parties	There is limited exploration data available prior to 1986, where exploration for nickel was carried out in the late 1960s and for base metals in the 1970s. During 1980-1985, Townson Holdings Pty Ltd ("Townson") mined a small open pit over some old workings at the Rangoon prospect. Companies involved in the collection of the majority of the gold exploration data since 1986 and prior to 2014 include: Mt Eden Gold Mines (Aust) NL (also Tarmoola Aust Pty Ltd "MEGM") 1986-2003; Pacmin Mining Corporation Ltd ("Pacmin") 1998-2001; Sons of Gwalia Ltd ("SOG") 2001-2004, and Navigator Resources Ltd ("Navigator") 2004-2014. In 2009, Navigator commissioned Runge Limited ("Runge") to complete a Mineral Resource estimate for the Helens and Rangoon deposits. Runge reported a JORC 2004 compliant Mineral Resource estimate, at a low cut-off grade of 0.7g/t Au, totaling 1.45Mt @ 1.3 g/t au (61,700 oz Au), comprising total Indicated Resources of 1.0Mt @ 1.4 g/t Au and total Inferred Resources of 0.446Mt @ 1.2 g/t Au. KIN's drilling is focused in areas hosting the Helens and Rangoon deposits together with the strike extensions and historical drilling conducted by the above mentioned operators.
Geology	The Cardinia Project area is located 35km NE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia. The regional geology comprises a suite of NNE-North trending greenstones positioned within the Mertondale Shear Zone (MZN) a splay limb of the Kilkenny lineament. The MSZ denotes the contact between Archaean felsic volcanoclastics and sediment sequences in the west and Archaean mafic volcanics in the east. Proterozoic dykes and Archaean felsic porphyries have intruded the sheared mafic/felsic volcanoclastic/sedimentary sequence. Locally within the Cardinia Project area, the stratigraphy consists of intermediate, mafic and felsic volcanic and intrusive lithologies and locally derived epiclastic sediments, which strike NNW with a sub-vertical attitude. Structural foliation of the stratigraphy dips moderately to the east. At Helens and Rangoon, the stratigraphy comprises a sequence of intermediate-mafic and felsic volcanic lithologies and locally derived epiclastic sediments, intruded in places by narrow felsic porphyry dykes. Carbonaceous shales often mark the mafic/felsic contact. These lithologies are located on the western limb of the regionally faulted south plunging Benalla Anticline.



Criteria	Commentary
	Primary mineralised zones at the Helens and Rangoon areas are north-south trending with a sub-vertical attitude. Mineralisation is hosted predominantly in mafic rock units, adjacent to the felsic volcanic/sediment contacts, where it is associated with increased shearing, intense alteration and disseminated sulphides.
	Minor supergene enrichment occurs within the mineralised shears within the regolith profile.
	In some areas, gold mineralisation is highly variable in the regolith. In these areas, closer spaced drilling was carried out by KIN to provide a high level of confidence in the interpretations.
Drill hole Information	Material drilling information used for the resource estimation has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2014) and KIN since 2014.
Data Aggregation methods	When exploration results have been reported for the resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without any high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports.
	Since 2014, KIN have reported RC drilling intersections with low cut off grades of >= 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of <0.5g/t Au.
	There is no reporting of metal equivalent values.
Relationship Between Mineralisation widths and	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling and verified by KIN's drilling. The majority of drill holes are inclined at -60° towards 245° (WSW), which is regarded as the optimum orientation to intersect the target mineralisation, and some at -60° towards 065° (ENE). Since the mineralisation is steeply dipping, drill intercepts are reported as downhole widths, not true widths. Accompanying dialogue to reported intersections normally describe the attitude of the mineralisation.
intercept lengths	
Diagrams	A plan and type sections for each resource area are included in the main body of the report.
Balanced Reporting	Public reporting of exploration results by KIN and past explorers for the resource areas are considered balanced and included representative widths of low and high grade assay results.
Other Substantive exploration data	Comments on recent bulk density and metallurgical information is included in Section 3 of this Table 1 Report. There is no other new substantive data acquired for the resource areas being reported on. All meaningful and material information is or has been previously reported.



Criteria	Commentary
Further work	The potential to increase the existing resources is viewed as probable. Further work does not guarantee that an upgrade in the resource would be achieved, however KIN intend to drill more holes at the Helens and Rangoon resource areas with the intention of increasing the Cardinia Project's resources and converting the Inferred portions of the resources to the Indicated category.



SECTION 3 – Estimation and Reporting of Mineral Resources

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

Criteria	Commentary
Database Integrity	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1986. Data was obtained predominantly from Reverse Circulation (RC) drilling, and to a lesser extent, diamond core (Diamond) drilling and Air Core (Aircore) drilling.
	Companies involved in the collection of the majority of the gold exploration data since 1986 and prior to 2014 include: Mt Eden Gold Mines (Aust) NL (also Tarmoola Aust Pty Ltd "MEGM") 1986-2003; Pacmin Mining Corporation Ltd ("Pacmin") 1998-2001; Sons of Gwalia Ltd ("SOG") 2001-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.
	KIN exploration data from 2014 to 2017 has been acquired predominantly from RC and some diamond drilling.
	The database could not be fully verified regarding the reliability and accuracy of a substantial portion of the historical data, however the recent drilling by KIN has enabled comparison with the historical data and there is no material differences observed of a negative nature.
	Database checks conducted by KIN and others are within acceptable limits. There is missing data, however it is regarded as minimal. It is not possible to identify errors that might have occurred prior or during digital tabulation of historic (pre-2004) data, however the amount of historic data used in the resource estimation is minimal and the effect would not be material.
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (MEGM, Pacmin, SOG & Navigator). Correlation between codes is difficult to establish, however can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	KIN has attempted to validate historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	The drilling by Navigator and KIN has been used to scrutinize and calibrate historic logging data. This has enabled KIN to establish good geological control, which has been used to derive the geological interpretations in current work.
	Navigator uploaded the original assay files received from the labs via a database administrator using Datashed to minimise loading errors. An export of the data was then used to create an access database for use in Surpac.
	In 2009, Runge Ltd ("Runge") completed a mineral resource estimate report for the Cardinia Project area, including the Helens and Rangoon deposits. Runge carried out database verification, which included basic visual validation in Surpac and field verification of drillhole positions in February 2009. Runge did not report any significant issues with the database.



Criteria	Commentary
	Since 2014, KIN geologists have conducted verification of historic drilling, assays, geological logs and survey information against the digital database, and in the field, including reviewing historic reports and visual confirmations of Surpac and Access databases. KIN have not reported any significant issues with the database.
	KIN has validated the database in Datashed and in Surpac prior to Resource estimation. These processes checked for holes that have missing data, missing intervals, overlapping intervals, data beyond end-of-hole, holes missing collar coordinates, and holes with duplicate collar co-ordinates.
	During 2017, CM carried out an independent data verification. 10,499 assay records for KIN's 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 6 errors were found, which are not considered material and which represents only 0.015% of all database records verified for KIN's 2014-2017 drilling programs.
Site Visit	KIN's geological team have conducted multiple site visits including supervision and management of drill programs within each of the Resource areas.
	Dr Spero Carras (Competent Person) was involved in the Leonora area at the Harbour Lights and Mertondale areas during the 1980s, and is familiar with the geology and styles of mineralisation within the Leonora Project area. He revisited the Leonora area during 2017 to review the projects, drilling, sampling and general geology.
	Messrs Mark Nelson and Gary Powell (Competent Persons) also conducted site visits to the resource areas, and they have independently reviewed drill core, existing open pits, surface exposures, drilling and sampling procedures.
Geological Interpretation	The Cardinia Project area is located 35km NE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
	The regional geology comprises a suite of NNE-North trending greenstones positioned within the Mertondale Shear Zone (MZN) a splay limb of the Kilkenny lineament. The MSZ denotes the contact between Archaean felsic volcanoclastics and sediment sequences in the west and Archaean mafic volcanics in the east. Proterozoic dykes and Archaean felsic porphyries have intruded the sheared mafic/felsic volcanoclastic/sedimentary sequence.
	Locally within the Cardinia Project area, the stratigraphy consists of intermediate, mafic and felsic volcanic and intrusive lithologies and locally derived epiclastic sediments, which strike NNW with a sub-vertical attitude. Structural foliation of the stratigraphy dips moderately to the east.
	At Helens, Fiona and Rangoon, the stratigraphy comprises a sequence of intermediate-mafic and felsic volcanic lithologies and locally derived epiclastic sediments, intruded in places by narrow felsic porphyry dykes. Carbonaceous shales



Criteria	Commentary				
	often mark the mafic/felsic contact. These lithologies are located on the western limb of the regionally faulted south plunging Benalla Anticline.				
	trending with a so	ub-vertical attitude. Mi ent to the felsic volcan	ns and Rangoon areas are neralisation is hosted pred ic/sediment contacts, whe tion and disseminated sulp	lominantly in mafic re it is associated	
	Minor supergene profile.	enrichment occurs wi	thin the mineralised shear	s within the regolith	
Dimensions	area includes a to Helens includes	otal of 27,830m of drill	a for Helens are 1700mN a ing. The drilling in the mir 418 RC holes for 5,473m a iona Deposit.	neralized area for	
	Rangoon area in	cludes a total of 12,35	a for Rangoon are 900mN 6m of drilling. The drilling for 24m, 175 RC holes for	in the mineralized	
Estimations and Modelling		or the following deposi	on and modelling techniqu ts in the Helens/Rangoon		
Techniques					
	Depo sit Orebody Nominal Drill Spacing Mineralised Metro of Drilling (m)				
	Helen s 1700m x 50m x 25m x 12.5m 5,748				
	Rang oon	900m x 50m x 100m	25m x 12.5m	1,762	
	 29. Wireframes were provided by KIN Mining NL (KIN) for: a. Topography based on drill collar data b. Bottom of Oxidation (BOCO) c. Top of Fresh Rock (TOFR) 30. CM carried out an Independent Review of the weathering surfaces and where necessary, based on new drilling (both RC and diamond), geological relogging and bulk density information, the surfaces were modified to reflect the additional information. Surface topography was also adjusted due to new information obtained in an April 2017 drone survey. 31. Based on geology, statistical analysis and intersection selection, domainal shapes were wireframed at a 0.3g/t nominal edge cut-off grade. These domainal shapes could contain values less than 0.3g/t within the wireframes although this was minimized to prevent smoothing dilution being incorporated into the final models. 				



Criteria		Commentary					
	A minimum of 5m downhole at a 0.4g/t cut-off grade was also used as a guide for wireframing. This could include internal waste.						
		ere audited by KIN geological area whilst working for Navigato					
	33. Each wireframe had an ass	signed strike, dip and plunge.					
		of each shape was carried composites (98%) were greater					
	35. The domainal shapes were and plunge.	e passed into ISATIS Software v	vith specified strike, dip				
	36. The number of shapes use	d was as follows:					
	Deposit	Number of Shapes	1				
	Helens/Fion	72	-				
	а	00	- -				
	Rangoon	38	J				
	ensure that modelling did n	rce volume for each shape was not over dilute shapes due to blo DECLUS (ISATIS) was used to	ck sizes being used.				
	statistics, high grade cuts	39. For each shape a detailed set of weighted statistics was produced. Based on the statistics, high grade cuts were determined for every shape and the percentage metal cut was estimated for each deposit as shown in the below table:					
	Deposit	Maximum Cut (g/t)	Percentage Metal Cut %				
	Helens,	70	4				
	Fiona Rangoon	30	28				
	Note that the metal cut appears high however it is due to one outlier assay value of 551g/t.						
	40. Where a data point belonged to 2 shapes the cut allocated was determined for each domain and independently allocated.						
	41. Variograms were run for each domain using ISATIS. The variograms were of very poor quality with the downhole variograms being the basis of fitted models. Directional variograms were produced for downhole, down dip, down plunge. Where the downhole variograms were calculated on an individual hole basis, variograms were not normalized. Variograms were normalized for down dip and plunge. Raw variograms were used in subsequent work.						
	are made up of plunging en	nad extensive experience in the arity with the nature of the mine -echelon structures. Three estinated (ID2) and Inverse Distance	eralisation. The shears mations were produced,				

43. The following parameters were used in modelling OK, ID2 and ID3:



Criteria	Commentary				
	 A minimum number of samples of 4 and a maximum number of samples of 32 The discretisation parameters were 1 x 1 x 2 A maximum of 2 samples per hole Note: for blocks that did not meet these requirements, the parameters were relaxed and the search radii were increased. To minimize the striping effect created by estimation in narrow shapes, the downhole search radii were increased. 				
	44. The ranges of search and department basis. The aim was to produce had been adequate data to where there was inadequate weighting squared methodo	luce OK resu produce me e data were	ults for the majority of aningful variography. estimated using an a	shapes where there Small shapes	
	45. The fundamental block size	used was:			
	Deposit		Small Block		
	Helens,Fiona,Rang Combined	joon	1.25mN x 0 1.25mRL	.5mE x	
	Small blocks were used were narrow.	I to ensure a		nation where shapes	
	46. Scatter plots were then pro blocks.	duced which	compared OK, ID2	and ID3 for the small	
	47. The models were then visually checked on a section by section basis of block versus drillholes and ID2 proved to be the best fit.				
	48. The small blocks produced be sized blocks and panels. blocks and panels were:				
	Deposit		dium (Quarter) cks	Panels	
	Helens,Fiona,Rangoon Combined		N x 5mE x 2.5mRL	10mN x 8mE x 5mRL	
	 49. Plots were produced of fre blocks. 50. To check that the interpolati was carried out comparing The validation plots showed by the block model. 51. Volumes within wireframes 	on of the bloothe interpolating good correl	ck model honoured thated blocks to the sare ation thus the raw dr	ne drill data, validation mple composite data. ill data was honoured	
	the block estimates of the v basis to ensure that volume	olumes withi	n those wireframes o		



Criteria	Commentary					
	52. Classification was carried out using a combination of drillhole density, drillhole quality, and geology as the guide.					ole density, drillhole
		rating cost estimates de off grade for deposits in t				t a break even mill feed be 0.5g/t Au.
Moisture		es and grades were estinations of diamond drill o				
Cut-off Parameters		ng cost estimates providening grade for open pit o				
Mining						
Mining			Gold Price	ı	Unit \$/t ore	1903 Optimisations \$2,000
Factors or		Revenue Assumptions	Revenue		\$/r ore \$/g	\$64.30
Assumptions		Mining Cost Assumptions	Mining Dilution Mining Recovery Mining Cost		% % \$/bcm	10.0% 90.0% Calculated
		Processing Recovery and Cost Assumptions	Recovery Processing Cost	Oxide Trans Fresh Oxide Trans Fresh	% \$/t ore	92.5% 92.0% 90.0% \$14.00 \$16.50 \$20.00
		Geotechnical Assumptions	G & A Cost	Oxide Transitional Fresh	\$/t ore deg deg deg	\$2.06 50 60 65
			Throughout	1	Unit t/yr	1,500,000
		General Assumptions	Throughput Annual Discounting		%	1,300,000
Metallurgical Factors or Assumptions	In 2017 KIN's drilling program included a series of RC and DD drillholes to collect samples for geotechnical and metallurgical testwork.					
	Metallurgical testwork in the Helens-Rangoon area has shown metallurgical recoveries of mid-nineties in oxide, lower nineties in transition and in fresh material. See table above					
	During the mining process, and where necessary, selective extraction of the graphitic shales is envisaged to be possible so that successful segregation and quarantining of the shale material can be achieved, so as to mitigate potential contamination of ore in the process plant.					
Environment	No assu	imptions have been mad	le regarding en	vironmen	tal fac	ctors.
al	Historica	· al mining at the nearby E dforms have not demons	Bruno deposit a	nd Lewis	trial p	oit sites, including waste



previous and potential mining and processing operations, have not identified any potential environmental impacts that cannot be managed by normal operations. **Bulk Density** Prior to 2014, there have been numerous programs of bulk density testwork conducted by several companies at different times on diamond drill core and/or RC drill chips for the some of the various deposits. Generally the testwork has not been conclusive, since the testwork methodology has not been adequately described in the historical reports, or when it has, the testwork itself was not carried out using an acceptable method to determine dry bulk density. Often, when described, the testwork measured specific gravity, not bulk density, and in cases where bulk density was reported, the moisture content was not taken into account. In 2009 Navigator Resources Ltd submitted 144 half or whole diamond core samples to Amdel Mineral Laboratories Ltd's ("Amdel") Kalgoorlie laboratory for bulk density determination by the water immersion method. The core samples were a mixture of half core and whole core samples ranging from 10cm to 30cm in length, and were taken at downhole intervals of roughly every 2 to 3 metres. The samples were firstly weighed, own dried overnight at 110°C, and weighed again to determine moisture content. Those samples that were likely to absorb water were then sealed, using hairspray, prior to immersion in water. It is not known what proportion of samples were not sealed. In 2017, KIN carried out a diamond drilling program to include obtaining samples for bulk density testwork. Six diamond drilling program to include obtaining samples for bulk density testwork. Six diamond drill holes were drilled into the major parts of mineralised zones at Helens South, Helens North, Helens NE and Rangoon. A total of 526 half or quarter core samples, of varying lengths (5-20cm) were submitted by KIN to an independent laboratory in Perth for bulk density weighed, oven dried overnight at 110°C, and weighed again to determine moisture conte	Criteria		Commen	tary					
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		As a result of the analysis of a combination of Navigator and KIN bulk density determination results, the following bulk density parameters were used for the Helens							
		Aroa	Ovida	Transition	Ercoh				
Helens /Fiona / Rangoon 2.1 2.4 2.7		Helens /Fiona / Rangoon	2.1		2.7				



Criteria	Commentary
Classification	Classification was based on a combination of drillhole spacing, drillhole quality and confidence in geological continuity. In general all deposits were drilled on the following nominal grids (N-E):
	 Helens/Fiona: 25m x 12.5m Rangoon: 25m x 12.5m
	In general drillhole spacing of 25m x 12.5m resulted in mineralisation being classified as Indicated.
	Drillhole spacing generally increases with depth and as a result deeper mineralisation is mostly allocated to the Inferred category.
	The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits and	Internal reviews have been conducted by the Competent Person who is obliged to review the data geology/assay/survey/wire frames etc. this procedure is conducted as
Reviews	part of the normal review process. The technical inputs, methodologies, parameters and results of the estimation have been verified by the Runge (2009) and the Competent Person. This type of audit is conducted as part of the normal review process.
	Navigator Resources had worked with Runge (2009) to produce estimates for the Cardinia deposits using ordinary kriging. KIN personnel carried out audits and internal reviews of the data, assay, survey, wireframes and geological interpretations used by CM. CM also carried out detailed reviews of all data.
	Bulk density determination methodology was audited by S Carras and G Powell (Consultant to CM) through visitation of the independent laboratory.
Discussion of Relative	KIN embarked on a program of infill drilling, including some close spaced drilling. The drilling largely substantiated the position and tenor of mineralisation. It also validated the information obtained from various drilling campaigns. (In some instances new results were much higher.)
Accuracy and Confidence	In the modelling process every attempt has been made to eliminate the "string effect" problem associated with the estimation of narrow vein structures through the use of ordinary kriging. This has been achieved through the use of distance weighting estimates correlated back to ordinary kriging estimates. This method, although heuristic has been validated by extensive review of the block models and the drillhole data.
	Every attempt has been made in the modelling to reduce the smoothing effect which results when using a low cut-off grade to determine boundary positions and limit the amount of dilution in the Resource so that it can be correctly diluted for Reserve.
	In all high coefficient of variation orebodies, local estimation is very difficult to achieve due to the high nugget effect of the gold. This means that small parcels of ore are difficult to estimate without further information such as closer spaced grade control drilling.



Appendix H

JORC 2012 TABLE 1 REPORT RAESIDE PROJECT

Michelangelo and Leonardo

Mining and Processing assumptions adjusted to reflect this update.

SECTION 1 – Sample Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Commentary
Sampling techniques	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1989. Data was obtained predominantly from Reverse Circulation (RC) drilling, and to a lesser extent diamond core (Diamond) drilling and Air Core (Aircore) drilling.
	There is limited exploration data available prior to 1989, where it is believed that exploration was more focused on base metals, and not gold. Companies involved in the collection of the majority of the gold exploration data since 1989 and prior to 2014 include: Triton Resources Ltd ("Triton") 1989-1999, Triton and Sons of Gwalia Ltd ("SOG") 2000-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.
	Kin Mining Ltd ("KIN") acquired the Raeside Project in 2014.
	HISTORIC SAMPLING (1989-2014)
	For some historical drilling programs, RC and Aircore samples were composited at 2, 3, 4 or 5 metre downhole intervals, however the majority of drill samples were generally obtained from 1m downhole intervals and riffle split to obtain a 3-4kg representative sub-sample, which were submitted to a number of commercial laboratories for a variety of sample preparations methods, including oven drying (90-110°C), crushing (-2mm to -6mm), pulverizing (-75µm to -105µm), and generally riffle split to obtain a 30, 40 or 50 gram catchweight for gold analysis, predominantly by Fire Assay fusion, with AAS finish. On occasions, initial assaying have been carried out using Aqua Regia digest and AAS/ICP finish, with anomalous samples re-assayed by Fire Assay fusion and AAS/ICP finish.
	Diamond Drilling
	Half core (or quarter core) sample intervals varied from 0.1 to 1.0m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in marked core trays and stored in a secure yard for future reference. The only known available drill core from this program (1 Diamond drill hole for 180.1m) and stored at KIN's Leonora Exploration Yard, are those drilled by Navigator.
	RC Drilling



Criteria	Commentary
	The vast majority of Reverse Circulation (RC) drill samples were collected over 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for gold analysis.
	Navigator obtained sub-samples from wet samples using the spear method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop. Assay results from these samples are not used for resource estimation work, however they do sometimes provide a guide in interpreting geology and mineralisation continuity.
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques, therefore Aircore sample assay results were only used for resource estimation work if the 1m subsamples were obtained by riffle splitting of the primary sample, prior to placing on the ground.
	There are no sample rejects available from AC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	RAB Drilling
	No Rotary Air Blast (RAB) drilling has been included in the Michelangelo or Leonardo resource estimation.
	KIN MINING (2014-2017)
	Diamond Drilling
	Diamond drill core (HQ3) samples collected for analysis were longitudinally cut in half, and then in quarters, using a powered diamond core saw blade centered over a cradle holding the core in place. Core sample intervals varied from 0.2 to 1.15m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in their respective core trays and securely stored in KIN's yard in Leonora for future reference.
	RC Drilling
	During drilling, sample return is passed through a cyclone and stored in a sample collection box. At the end of each metre, the cyclone underflow is closed off, the



Criteria		Commentary			
	underside of the splitter.	ne sample bo	x is opened and	I the sample passed dow	n through a riffle
	All RC sub-samples were collected over one metre downhole intervals and averag 3-4kg. Sample reject from the riffle splitter were retained and stored in marked pla bags, and located near to each drillhole collar.				
	and/or supervi	ised by KIN g	eology personn	handling procedures wer el to today's industry star drilling program to today	ndards. QA/QC
	<u>Analysis</u>				
	dried (105-110)°C), crushed sentative 50 ເ	-2mm & -2mm) gram sample ca	mond core and RC samp), pulverised (P85% -75µ tchweight for gold only a	ເm) and split to
	COMMENT				
	3, 4 or 5 metre	e downhole in		nd Aircore samples were ource estimation work, so opropriate.	
Drilling techniques	several compa various depos Michelangelo,	anies since 19 its and prospe Leonardo, Fo	989. The entire I ects within the F	oes of drilling have been Raeside database encom Raeside Project area, incl nd Krang, and consists of drilling, viz:	npasses the luding
	Drill Type	Holes	Metres (m)	Metre Percentage (%)	
	DD	12	1,906	1.4%	
	RC	1,163	102,264	76.2%	
	AC	630	30,108	22.4%	
	Total	1,805	134,278	100.0%	
	HISTORIC DRILLING (1989-2014)				
	<u>Diamond Drilli</u>	<u>ng</u>			
	the core retrie	ved from the i 5-48mm) and	inner tubes and HQ/HQ3 (Ø 61-	stry standard 'Q' wireline placed in core trays. Cor -64mm). At the end of ea d with hole number and o	re sizes include ich core run, the



Criteria	Commentary
	recovery was usually measured for each core run and recorded onto the geologist's drill logs.
	RC Drilling
	RC drilling used conventional reverse circulation drilling techniques, utilising a cross-over sub, until the late 1980s, when the majority of drilling companies started changing over to using face-sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm. Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination (e.g. smearing of grades), especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be more reliable and representative.
	Aircore Drilling
	Aircore drilling is a form of RC drilling, but generally utilizing smaller rigs and smaller air compressors, compared to standard RC drill rigs of the times. Aircore bits are hollow in the centre, with the kerf comprising cutting blades or 'wings' with tungstencarbide inserts. Drill bit diameters usually range between 75-110mm.
	The majority of the Aircore drilling (100%) was conducted by Triton utilising suitable rigs with appropriate compressors (eg 250psi/600cfm). Aircore holes were drilled mostly into the weathered regolith using 'blade' or 'wing' bits, until the bit was unable to penetrate further ('blade refusal'), often near to the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate harder rock types. Hole depths averaged less than 50m.
	RAB Drilling
	RAB drilling is carried out using small air compressors (eg 250psi/600cfm) and drill rods fitted with a percussion hammer or blade bit, with the sample return collected at the drillhole collar using a stuffing box and cyclone collection techniques. Drillhole sizes generally range between 75-110mm.
	KIN MINING (2014-2017)
	Diamond Drilling
	Diamond drilling was carried out by contractor Orbit Drilling Pty Ltd ("Orbit Drilling") with a truck-mounted Hydco 1200H drill rig, using industry standard 'Q' wireline techniques. Drill core (HQ3) is retrieved from the inner tubes and placed in plastic core trays and each core run depth recorded onto core marker blocks and placed at the end of each run in the tray.
	Drillhole deviation was measured at regular downhole intervals, typically at 10m from surface, thence every 30m to bottom of hole, using electronic multi-shot downhole survey tools (i.e. Reflex multi-shot).
	Core orientation was obtained for each core run where possible, using electronic core orientation tools (e.g. Reflex EZ-ACT) and the 'bottom of core' marked accordingly.
	RC Drilling



Criteria Commentary

RC drilling was carried out by Orbit Drilling's truck-mounted Hydco 350RC drill rigs with 350psi/1250cfm air compressor, with auxiliary and booster air compressors (when required). Drilling utilised mostly downhole face-sampling hammer bits (Ø 140mm), with occasional use of blade bits for highly oxidized and soft formations. The majority of drilling retrieved dry samples, with the occasional use of the auxiliary and booster air compressors beneath the water table, to maintain dry sample return as much as possible.

Drillhole deviations were surveyed downhole, during drilling operations, using an electronic multi-shot downhole tool (i.e. Camteq Proshot). In some instances, drillholes were surveyed later in open hole. In the later drilling programs, downhole surveying was carried out inside a non-magnetic stainless steel (s/s) rod, located above the hammer. Providing the tool was located in the middle of the stainless steel rod, azimuth and dip readings were successfully recorded.

The following tables summaries drilling totals for the Raeside Project area, for DD, RC and AC only (i.e. excluding open-hole drilling such as RAB):

Raeside Project – Drilling Summary – KIN (2014-2017)

Hole type	Number of Holes	Metres (m)	%(m)
DD	4	317	30%
RC	8	724	70%
Total	12	1,041	100%

Raeside Project – Drilling Summary – Triton, SOG and Navigator (1989-2014) Michelangelo and Leonardo

Hole type	Number of Holes	Metres (m)	%(m)
DD	12	1,906	3.5%
RC	559	49,385	92%
AC	83	2,619	4.5%
Total	654	53,910	100%

The above phases of drilling were used to estimate the Michelangelo and Leonardo resources.

COMMENT



Criteria	Commentary
	Historical reports indicate that diamond drill core sizes were predominantly HQ/HQ3 or NQ/NQ3, however database details are incomplete. Most historical reports recorded core recoveries, although these details are not included in the database. Review of some historical reports indicate that core recoveries were generally good, although recoveries were typically less in highly fractured zones and some highly weathered mineralised zones in the transition and oxide zones, however this information is not recorded in the supplied database.
	RC drilling is the dominant drill type at all sites. RC drilling information is generally described in varying detail in historical reports to the DMP, including drilling companies used and drilling rig types, however it's not all recorded in the database supplied. Review of the historical reports indicates that reputable drilling companies were typically contracted and the equipment supplied was of an acceptable standard for those times. During the 1990s, and 2000s, suitable large drill rigs with on-board compressors were probably complimented with auxiliary and booster air compressors for drilling to greater depths and/or when groundwater was encountered. KIN's drilling was conducted with modern rigs equipped with auxiliary and booster compressors and face sampling hammers with bit diameters typically 140mm.
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques. Aircore drilling data was only used in resource estimation work, where the in-field and laboratory sampling methodologies was considered appropriate and limited to a number of selected Navigator drillholes.
Drill sample recovery	HISTORIC DRILLING (1989-2014)
recovery	<u>Diamond Drilling</u>
	Core recovery has been recorded in most drill logs for most of the diamond drilling programs since 1985, but is not recorded in the supplied database. A review of some historical reports indicates that generally core recovery was good with lesser recoveries recorded in zones of broken ground and/or areas of mineralisation. Overall recoveries are considered acceptable for resource estimation.
	RC Drilling
	There is limited information recorded for sample recoveries for historical RC and Aircore drilling. However there has been an improvement in sample recoveries and reliability following the introduction of face sampling hammers and improved drilling technologies and equipment, since the mid-1980s.
	KIN MINING (2014-2017)
	Diamond Drilling
	Core recovery was recorded for each run by measuring total length of core retrieved against the downhole interval actually drilled.
	Diamond core recoveries were recorded in the database. Independent field reviews by the Competent Persons (SC & GP) in 2017 of the diamond drilling rig in operation and core integrity at the drill sites, demonstrated that diamond drill core recoveries were being maximised by the driller, and that core recoveries averaged >95%, even when difficult ground conditions were being encountered.



Criteria	Commentary
	RC Drilling
	Integrity of each one metre RC sample is preserved as best as possible. At the end of each 1 metre downhole interval, the driller stops advancing the rods, retracts from the bottom of hole, and waits for the sample to clear from the bottom of the hole through to the sample collector box fitted beneath the cyclone. The sample is then released from the sample collector box and passed through the 3-tiered riffle splitter fitted beneath the sample box. Sample reject is collected in plastic bags, and a 3-4kg subsample is collected in pre-marked calico bags for analysis. Once the samples have been collected, the cyclone, sample collector box and riffle splitter are flushed with compressed air, and the riffle splitter cleaned by the off-sider using a compressed air hose, and if necessary a scraper. This process is maintained throughout the entire drilling program to maximise drill sample recovery and to maintain a high level of representivity of the material being drilled.
	RC drill sample recoveries are not recorded in the supplied database, however a review by the Competent Person (GP) in May 2017 of RC drill samples stored in the field, and observations of the two RC drilling rigs in operation, suggests that RC sample recoveries were mostly consistent and very good, with the samples themselves being reliable and representative of the material being drilled.
	COMMENT
	Due to the lack of detailed information in the database regarding historic (pre-2014) Aircore and RC drilling, no quantitative or semi-quantitative impression of sample recovery or sample quality is available. Given that much of the drilling at Raeside was conducted by the same company (Triton) and at the same time as that carried out for the nearby Forgotten Four deposit, where it is assumed to be satisfactory given that the Forgotten Four deposit was mined by Triton to a depth of 40-45 metres by open pit methods. This suggests that the amount of metal recovered was probably not grossly different from pre-mining drill data based expectations.
	During Navigators drill programs wet samples were spear sampled instead of riffle split. This is regarded as poor sampling procedure and these samples are regarded as unreliable however the total number of wet samples is considered to be very low.
	No indication of sample bias is evident nor has it been established. That is, no relationship has been observed to exist between sample recovery and grade.
	No Aircore drilling data was used in the Raeside resource estimation process.
Logging	HISTORIC DRILLING (1989-2014)
	The logging data coded in the database uses at least three different lithological code systems, a legacy of numerous past operators (Triton, SOG & Navigator). Correlation between codes is difficult to establish, however it can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	Navigator's procedure for logging of diamond core included firstly marking of the bottom of the core (for successful core orientations), core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features, and then marked up for cutting and sampling. Several diamond drillholes were completed for geotechnical purposes and were independently logged for



Criteria	Commentary
	structural data by geotechnical consultants. The diamond drill core has been photographed, and currently stored at KIN's yard in Leonora.
	Navigator RC and Aircore logging was entered on a metre by metre basis, recording lithology, alteration, texture, mineralisation, weathering and other features. The information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.
	The entire length of all drillholes are logged in full from surface to bottom of hole.
	Logging is qualitative on visual recordings of lithology, oxidation, colour, texture and grain size. Logging of mineralogy, mineralisation and veining is quantitative.
	Drill core photographs are only available for Navigator's diamond drillholes.
	KIN MINING (2014-2017)
	KIN's logging of drill samples was carried out in the field (RC drilling) or at the Leonora Yard (diamond core) and entered onto a portable computer, on a metre by metre basis for RC, and by sample intervals and/or geological contacts for diamond core. Data recorded included lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded in the drill logs in the field. Four diamond drillholes were completed for geotechnical purposes and were independently logged for structural data by geotechnical consultants.
	KIN geological personnel retrieved the core trays from the drill rig site and relocated them to KIN's yard in Leonora at the end of each day. Drill core was photographed in the field or at the Leonora yard, prior to cutting using a diamond core saw to obtain quarter core samples for analysis.
	All information collected was entered directly into laptop computers or tablets, and transferred to the database to be validated.
	COMMENT
	KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies and metallurgical studies.
	Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, veining, and in addition, logging of diamond drilling included geotechnical data, RQD and core recoveries.
	For the majority of historical drilling (pre-2004), and all of the more recent drilling, the entire length of drillholes have been logged from surface to 'end of hole'. Diamond core logging is typically logged in more detail compared to RC and Aircore drilling.
Sub- sampling techniques	HISTORIC DRILLING (1989-2014)



Criteria	Commentary
and sample preparation	Historical reports for drilling programs prior to 2004, are not always complete in the description of sub-sampling techniques, sample preparation and quality control protocols.
	Diamond Drilling
	Diamond drill core (NQ/NQ3 or HQ/HQ3) samples collected for analysis were longitudinally cut in half, and occasionally in quarters for the larger (HQ/HQ3) diameter holes, using a powered diamond core saw blade centered over a cradle holding the core in place.
	Core sample intervals varied from 0.1 to 1.0m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in core trays.
	Where historical reports do not describe the sampling protocol for sampling of drill core, it is assumed that drill core was sampled as described above.
	RC Drilling
	Prior to 1995, limited historical information indicates most RC sampling was conducted by collecting 1m samples from beneath a cyclone and passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. RC sampling procedures are believed to be consistent with the normal industry practices at the time. The vast majority of samples were dry and riffle split, however spear or tube sampling techniques were used for wet samples.
	Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.
	The vast majority of RC drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in pre-numbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
	Navigator obtained sub-samples from wet samples using the spear or tube method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2014. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Navigator included standards, duplicate splits, and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ration of 1 for every 50 samples.



Criteria	Commentary
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop.
	A variety of laboratories were used for analysis. Prior to 2009, duplicate samples were not routinely collected and submitted from RC and Aircore drilling to the same laboratory consequently overall sampling and assay precision levels can't be quantified for that period. Since 2009, Navigator adopted a stricter sampling regime with the submission of duplicate samples at a rate of 1 for every 50 primary samples.
	While QC protocols were not always comprehensive, the results indicate that assay results from Navigators exploration programs were reliable. Results from pre-Navigator operators are regarded as consistent with normal industry practices of the time.
	KIN MINING (2014-2017)
	<u>Diamond Drilling</u>
	Diamond drill core samples collected for analysis were longitudinally cut in half and quarters, using a powered diamond core saw blade centered over a cradle holding the core in place. Core sample intervals varied from 0.2 to 1.15m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference.
	All of KIN's diamond drill core is securely stored at their Leonora Yard.
	RC Drilling
	All RC sub-samples were collected over 1 metre downhole intervals and retained in pre-marked calico bags, after passing through a cyclone and riffle splitter configuration. The majority of RC sub-samples consistently averaged 3-4kg. Sample reject from the riffle splitter were retained and stored in plastic bags, and located near each drillhole site. When drilling beneath the water table, the majority of sample returns were kept dry by the use of the auxiliary and booster air compressors. Some wet samples were collected through the riffle splitter, and the small number is not considered material.
	Field duplicates were taken at regular intervals at a ratio of 1:50 and assay results indicate that there is reasonable analytical repeatability, considering the presence of nuggety gold.
	COMMENT
	All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of the material being drilled. QA/QC procedures implemented during each drilling program are to industry standard practice.
	Samples sizes are considered appropriate for this style of gold mineralisation and is an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia



Criteria	Commentary
Quality of assay data and laboratory	Numerous assay laboratories and various sample preparation and assay techniques have been used since 1981. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.
tests	HISTORIC DRILLING (1989-2014)
	For assay data obtained prior to 1995, the incomplete nature of the pre-1995 data results could not be accurately quantified in terms of the data derived from the combinations of various laboratories and analytical methodologies.
	During 1995 Triton described the sample preparation process as hammer milling to -1mm, riffle splitting to 0.5kg then pulverizing to a nominal 90% passing -75µm prior to Fire assay analysis.
	In the initial exploration stages, Aqua Regia digest with AAS/ICP finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS/ICP finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 30, 40 or 50 gram catchweights) with AAS/ICP finish.
	Limited information is available regarding check assays for drilling programs prior to 2004.
	During 2004-2014, Navigator utilised six different commercial laboratories during their drilling programs, however Kalgoorlie Assay Laboratories conducted the majority of assaying for diamond, RC and Aircore samples using Fire Assay fusion on 40 gram catchweights and AAS/ICP finish.
	Post 2009 Navigator regularly included field duplicates, Certified Reference Material (CRM) standards and blanks with their sample batch submissions to the laboratories at average ratio of 1 in every 20 samples.
	KIN MINING (2014-2017)
	Sample analysis was conducted by SGS Australia Pty Ltd's ("SGS") Kalgoorlie and Perth laboratories. Sample preparation included oven drying (105°C), crushing (-6mm), pulverising (P85% -75µm) and riffle split to obtain a 50 gram catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish (SGS Lab Code FAA505).
	KIN regularly insert blanks, field duplicate and CRM standards in each sample batch at a ratio of 1:20. This allows for at least one blank and one CRM standard to be included in each of the laboratory's fire assay batch of 50 samples. Field duplicate sample assay repeatability, blank standards and CRM standards assay results are within acceptable limits for this style of gold mineralisation.
	SGS include blanks and CRMs as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are within acceptable limits.
	COMMENT
	The nature and quality of the assaying and laboratory procedures used are considered to be satisfactory and appropriate for use in mineral resource estimations.



Criteria	Commentary
	Fire Assay fusion or Aqua Regia digestion techniques were conducted on diamond, RC and Aircore samples, with AAS or ICP finish.
	Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay technique with AAS or ICP finish. AAS and ICP methods of detection are both considered to be suitable and appropriate methods of detection.
	Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.
	No other analysis techniques have been used to determine gold assays.
	KIN's ongoing QA/QC monitoring program in general validated the assaying procedure used in 2017. One particular CRM was returning spurious results. Further analysis demonstrated that the standard was compromised and subsequently removed and destroyed. A replacement CRM of similar grade was substituted into the QA/QC program.
Verification of sampling and assaying	Verification of sampling and assaying techniques and results prior to 2004 has limitations due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories, over a fifteen year period.
	Since 2014, significant drill intersections have been verified by KIN's company geologists during the course of the drilling programs.
	An independent validation check by McDonald Speijers ("MS") (2009) resulted in 25 holes (13 being positioned at Michelangelo and Leonardo) being selected at random for which 21 original hardcopy logs could be located and 20 corresponding lab reports. Correlation between this data was good.
	During 2017, an independent verification of 725 assay records for the 2014-2017 drilling programs completed by KIN have been verified by Carras Mining Pty Ltd ("CM"), with only one discrepancy.
	COMMENT
	There is always a risk with legacy data that sampling or assaying biases may exist between results from different drilling programs due to differing sampling protocols, different laboratories and different analytical techniques.
	Repeated examination of historic reports on phases of diamond, RC and Aircore drilling have been conducted from time to time. Assay results from KIN's recent drilling are consistent with surrounding information and as a result the information obtained from the various diamond, RC and Aircore drilling programs (where sampling protocols are appropriate) have been accepted.
	Recent (2014-2017) RC and diamond drilling by KIN included some twinning of historical drillholes within the Raeside Project area. The correlation between drill holes is regarded as good and in other locations where the drill density is considered sufficiently close enough to enable comparison with surrounding historic information, and there is no material difference between historical drilling information and the KIN drilling information. KIN's diamond holes were drilled for metallurgical and



Criteria	Commentary
	geotechnical test work, and assay results for these holes also show good correlation with nearby historical results.
	Where sampling protocols are appropriate, diamond, RC and Aircore samples, are of equal importance in the resource estimation process.
	There has been no adjustments or calibrations made to the assay data recorded in the supplied database.
Location of data points	HISTORIC DATA (1989-2014)
data pomis	A local survey grid a mine grid were originally established in 1989 by Triton. During 2000-2004, SOG transformed the surface survey data firstly to AMG and subsequently to MGA (GDA94 zone51).
	Drilling was carried out historically using various local grids. Since 2004, All Navigators drill hole collars were surveyed on completion of drilling in the Australian MGA94, Zone51 grid using RTK-DGPS equipment by licensed surveyors.
	Azimuth data was historically recorded relative to magnetic north. Much of the historical drilling data was recorded relative to magnetic north. Variation in magnetic declination for the Raeside Project area is calculated at +0.823° East (1985) to +1.301° East (2017), with a maximum variation of +1.575° in 2005. The difference between true north and magnetic north, and the annual variation in magnetic declination since 1985 is not significant. True north survey data was used in resource estimation processes.
	KIN MINING (2014-2017)
	KIN's drill hole collars were located and recorded in the field by a contract surveyor using RTK-DGPS (with a horizontal and vertical accuracy of ±50mm). Location data was collected in the GDA94 Zone51 grid coordinate system.
	Downhole surveying during KIN's drilling programs was predominantly carried out by the drilling contractor.
	If the downhole survey tool is located within 15 metres of the surface, there is risk of influence of the drill rig affecting the azimuth readings. This was observed for the survey readings, which include total magnetic intensity (TMI) measurements, where TMI is spurious for readings taken at downhole depths less than 20 metres. These spurious readings are included in the database, but are not used.
	KIN supplied one digital terrain model (DTM) of the topography constructed from drill hole collar data. A new DTM was supplied by KIN following a July 2017 aerial survey. The latter was used for the resource estimation.
	COMMENT
	The accuracy of the drill hole collar and downhole data are located with sufficient accuracy for use in resource estimation work



been used, where true north data is unavailable, for all survey data used in resource estimation processes. Data spacing and distribution Drill hole spacing patterns vary considerably throughout the Project area, and is deposit specific, depending on the nature and style of mineralisation being tested. The following table summarises the general range of drillhole collar spacings and drilling grid line spacings for each of the resource areas. Drill hole and sample interval spacing is sufficient to establish an acceptable degree of geological and grade continuity appropriate for mineral resource estimations and classifications applied. There has been no sample compositing, other than a few historical compositing of field samples for some Aircore and RC samples to 2m, 3m, 4m, and a few 5m and 6m intervals. The vast majority (>90%) of primary assay intervals are 1 metre intervals for RC and Aircore samples, and predominantly 1 metre intervals for core samples. Orientation of data in relation to geological structure The sheared Raeside greenstone sequence displays a NNW to NW trend. The drilling and sampling programs were carried out to obtain an unbiased location of drill sample data, generally orthogonal to the strike of mineralisation. Mineralisation is structurally controlled in moderately dipping shear zones within the broader Raeside Shear Zone, The majority of the gold mineralisation is confined to shear bound quartz lodes/veining within a narrow carbonaceous shale that dips (-40° to -60°) to the east. The vast majority of historical drilling is orientated -60°/280° (local grid west). KIN's RC drilling is predominantly orientated at -60°/225° (SW), generally orthogonal to the strike of mineralisation. Diamond drilling by KIN, for geotechnical purposes, were orientated at -60° towards varying azimuths including 225°, 045°, 200° and 025°. The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in the data thus far.	Criteria	Commentary
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drilling is predominantly orientated at -60°/225° (SW), generally orthogonal to the strike of mineralisation. Diamond drilling by KIN, for geotechnical purposes, were orientated at -60° towards varying azimuths including 225°, 045°, 200° and 025°. The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in the data thus far. Sample HISTORIC DRILLING (1989-2014)		broader Raeside Shear Zone, The majority of the gold mineralisation is confined to shear bound quartz lodes/veining within a narrow carbonaceous shale that dips (-40°
No orientation sampling bias has been identified in the data thus far. Sample HISTORIC DRILLING (1989-2014)		strike of mineralisation. Diamond drilling by KIN, for geotechnical purposes, were
· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·	Sample	HISTORIC DRILLING (1989-2014)
No sample security details are available for pre-Navigator (pre-2004) drill samples.	security	·



Criteria	Commentary
	Navigator's drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. Samples were collected by company personnel from the field and transported to Navigator's secure yard in Leonora, where the samples were then batch processed (drillhole and sample numbers logged into the database) and then packed into 'bulkabag sacks'. The bulkabags were tied off and stored securely in Navigator's yard, until transporting to the laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site, to delivery to the laboratory.
	KIN MINING
	KIN's RC drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. The samples were then batch processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at KIN's secure yard in Leonora. The bulkabags were tied off and stored securely in the yard. The laboratory's (SGS) transport contractor was utilized to transport the bulkabags to the laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site, to delivery to the laboratory, where they were stored in their secure compound, and made ready for processing.
	On receipt of the samples, the laboratory (SGS) independently checked the sample submission form to verify samples received, and readied the samples for sample preparation. SGS's sample security protocols are of industry acceptable standards.
Audits or reviews	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to today's current standards. A review of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to the best practice industry standards of the day.
	A review of the Raeside Project's database, drilling and sampling protocols, was conducted and reported on by independent geological consultants MS in 2009. Their report highlighted issues with bulk density and QA/QC analysis of the database, which have since been identified and addressed by Navigator and most recently by KIN.
	During 2017, CM reviewed and carried out an audit on the field operations and database. Drilling and sampling methodologies observed during the site visits are to today's industry standard. Similarly there were no issues identified for the supplied databases, which would be considered material.
	KIN is in the process of completing validation of all historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one, and converting all historical logging into the standardized code system. This is an ongoing process and is not yet completed.
	During the review, CM logged the oxidation profiles ('base of complete oxidation' or "BOCO", and 'top of fresh rock' or "TOFR") for each of the deposit areas, based on visual inspection of selected RC drill chips from KIN's recent drilling programs, and a combination of historical and KIN's drillhole logging, with final adjustments made with input from KIN geologists. The oxidation profiles were used to assign bulk densities and metallurgical recoveries to the resource models.
	Bulk density testwork in the past has been inconsistent with incorrect methods employed, to derive specific gravity or in-situ bulk density, rather than dry bulk density. Navigator (2009) and recent KIN (2017) bulk density testwork was carried out using the water immersion method on oven dried, coated samples to derive dry bulk densities for different rock types and oxidation profiles. This information has been



Criteria	Commentary
	incorporated into the database for resource estimation work. CM conducted site visits during 2017 to the laboratory to validate the methodology.
	Recent (2014-2017) RC and diamond drilling by KIN included twinning of historical drillholes within the Raeside Project area, and where the infill drilling density is considered sufficiently close enough to enable comparison with surrounding historic information, there is no material difference between historical drilling information and the KIN drilling information. KIN's diamond holes were drilled for metallurgical and geotechnical test work, and assay results for these holes also show good correlation with nearby historical results.
	Drilling, Sampling methodologies and assay techniques used in these drilling programs are considered to be appropriate and to mineral exploration industry standards of the day.



SECTION 2 – Reporting of Exploration Results

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

Criteria	Commentary
Mineral tenement and land tenure	The Raeside Project area includes granted mining tenement M37/1298, centered some 10km ESE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. The Raeside Project is managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields.
status	 The following royalty payment may be applicable to the areas within the Raeside Project that comprise the deposits being reported on: Messers Blitterswyk, Halloran & Prugnoli, in respect of dead mineral tenements M37/256, M37/369, M37/377, M37/379, P37/4046 and MLA37/563, which are partly or wholly overlain by M37/1298 - \$1.00 per tonne of ore mined and milled for the extraction of gold or other saleable mineral.
	There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.
Exploration done by	Gold was first discovered in the Leonora district about 1896 and it is likely that the first prospecting activity in and around the Raeside Project area would have occurred at about that time. Initial production from Raeside was a small underground operation in the early 1970's when 60t @ 6.0 g/t Au was produced.
other parties	In 1989, Triton Resources Limited (Triton) entered into an arrangement with local prospectors (Halloran and Prugnoli) to acquire some tenements in what is known as the Forgotten Four area. The Triton Raeside Joint Venture mined the Forgotten Four (1990-1992) to 45m depth. Production statistics include:
	1990: Mined and processed 6,280t @ 5.18 g/t Au (959oz) at the Tower Hill plant in Leonora with 91.7% recovery. 1992: Mined and processed 40,537t @ 4.14 g/t Au (4,993oz) at the Harbour Lights plant in Leonora with 92.57% recovery. Finally a 2,822t parcel of ore (4.47 g/t Au) (389oz) was sold to Harbour Lights. In 1992 remnant ore from low grade stockpiles totaling 6,200t @ 1.0 g/t Au (199oz) was processed. Thus total production from the nearby Forgotten Four open cut yielded 55,839t @ 3.92 g/t Au (7,030oz) with an estimated recovery of approximately 92%. None of the reported production figures have been confirmed from official Mines Department records.
	The larger Raeside Project originated in 1992, when Triton (70%) formed a joint venture with Sabre Resources N.L. (Sabre) (20%) and Copperwell Pty Ltd (Copperwell), a subsidiary of Cityview Energy Corporation (10%). The three companies amalgamated their tenement holdings in the area and the joint venture applied for additional tenements.
	Until sometime in 1994 the project was managed on behalf of the joint venture by Westchester Pty Ltd. Incomplete drilling records indicate that Westchester had been involved to some extent in managing exploration in the area for Triton prior to 1992. After mid-1994 Triton appears to have taken over as project manager.
	Before 1995, drilling programs were apparently dominated by first-pass rotary air blast (RAB) drilling, with local reverse circulation (RC) rotary or percussion drilling to follow up in places where mineralisation was detected. Because of RAB drilling difficulties (clays and water) air core (AC) drilling was subsequently adopted as the first-pass method.



Criteria	Commentary
	Triton's drilling programs were suspended in June 1995 while a major review of results was undertaken and a pre-feasibility study was conducted. Drilling resumed in about April 1995.
	Another economic evaluation of the project was undertaken by Triton in 1998-1999 which indicated that a stand-alone operation was not possible, but that the project could be viable as a supplementary feed source for an existing, nearby process plant.
	SOG farmed in to the project in January 2000 and subsequently acquired full ownership. They carried out limited amounts of predominantly RC drilling, aimed mainly at confirming previous results from the Michelangelo deposit.
	Navigator Resources Ltd (Navigator) acquired the Raeside project from SOG in September 2004.
	Subsequent work by Navigator has focused mainly on other projects in the Leonora district, with only very small amounts of additional drilling having been completed in the Raeside area.
	In 2009, Navigator commissioned MS to complete a Mineral Resource estimate for the Raeside deposits. MS reported a JORC 2004 compliant Indicated Mineral Resource estimate, at a low cutoff grade of 0.7g/t Au, totaling 1.28Mt @ 2.68 g/t Au (111,000oz).
	KIN acquired the Raeside Project from Navigator's administrator in 2014.
Geology	The Raeside Project area is located 10km ESE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
	The regional geology comprises a sequence of Archaean greenstone lithologies. The area is underlain by very poorly exposed rocks units. The gold deposits at Raeside occur within or close to the margins of a large NW (320°) trendy body of dolerite within a sequence of sediments and volcanoclastic rocks near the southern margin of porphyry intrusive. Most of the gold recovered from mining the nearby Forgotten Four mine was from shear bound quartz vein stockworks or sheeted veins and/or quartz carbonate veins within a narrow carbonaceous shale (dipping 40°-60° East) lying within a granophyric quartz dolerite and carbonate/sericite/sulphide altered wall rocks.
	Gold mineralisation at Michelangelo is hosted by a uniform metamorphosed medium grained dolerite. The deposit occurs on or above the basal sheared contact of the quartz dolerite. Four or five extensive quartz vein structures dip at 30°-40° to the northeast, extending over a strike length of 575m with a total stratigraphic thickness of approximately 90m. The position of the footwall has been roughly delineated however no other convincing geological boundaries are defined.
	Gold mineralisation at Leonardo occurs mainly in a partly carbonaceous-graphitic shale (coded as generic metasediment) close to/adjacent to but above the quartz mafic contact. The mineralisation dips 35°-50° to the east however this ore body exhibits significant differences to the other deposits. Initially the mineralisation at Leonardo is hosted in sedimentary rocks above the quartz diorite. Secondly the mineralisation is associated with a zone of strong bleaching, sericitisation and silicification, often up to +20m wide. The strike length of the steeply plunging north main shoot is approximately 60m. Thirdly the gold mineralisation occurs within a relatively linear shear zone that is traceable over 2km of strike; the shear contains significant mineralisation in at least three other locations along strike.



Criteria	Commentary
Drill hole Information	Material drilling information used for the resource estimation has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2014) and KIN since 2014.
Data Aggregation methods	When exploration results have been reported for the resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without any high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports. Since 2014, KIN have reported RC drilling intersections with low cut off grades of ≥ 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of < 0.5g/t Au. There is no reporting of metal equivalent values.
Relationship Between Mineralisation widths and intercept lengths	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling and verified by KIN's drilling. The majority of historic drill holes within the pit area are inclined at -60° towards 280° (west). Later drilling was undertaken on the Raeside local grid, with a base line orientated to 330° (north west). The KIN RC drilling is orientated towards 225° (SW), which is regarded as the optimum orientation to intersect the target mineralisation. Since the mineralisation is moderately dipping (-40° to -60° easterly), drill intercepts are reported as downhole widths, not true widths. Accompanying dialogue to reported intersections normally describe the attitude of the mineralisation.
Diagrams	A plan and type sections for each resource area are included in the main body of the report.
Balanced Reporting	Public reporting of exploration results by KIN and past explorers for the resource areas are considered balanced and included representative widths of low- and high-grade assay results.
Other Substantive exploration data	Comments on recent bulk density and metallurgical information is included in Section 3 of this Table 1 Report. There is no other new substantive data acquired for the resource areas being reported on. All meaningful and material information is or has been previously reported.
Further work	The potential to increase the existing resources is viewed as probable. Further work does not guarantee that an upgrade in the resource would be achieved, however KIN intend to drill more holes at Michelangelo and Leonardo with the intention of increasing the Raeside Project's resources and converting the Inferred portions of the resources to the Indicated category.



SECTION 3 – Estimation and Reporting of Mineral Resources

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

Criteria	Commentary
Database Integrity	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1989. Data was obtained predominantly from Reverse Circulation (RC) drilling, and to a lesser extent, diamond core (Diamond) drilling and Air Core (Aircore) drilling.
	Companies involved in the collection of the majority of the gold exploration data since 1989 and prior to 2014 include: Triton Resources Ltd ("Triton") 1989-1999, Triton and Sons of Gwalia Ltd ("SOG") 2000-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.
	KIN exploration data from 2014 to 2017 has been acquired predominantly from RC and some diamond drilling.
	The database could not be fully verified regarding the reliability and accuracy of a substantial portion of the historical (pre-2004) data, however the recent drilling by KIN has enabled comparison with the historical data and there is no material differences observed of a negative nature.
	Database checks conducted by KIN and others are within acceptable limits. There is missing data, however it is regarded as minimal. It is not possible to identify errors that might have occurred prior or during digital tabulation of historic (pre-2004) data, however the amount of historic data used in the resource estimation is minimal and the effect would not be material.
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (Triton, SOG & Navigator). Correlation between codes is difficult to establish, however can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	KIN has attempted to validate historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	The drilling by Navigator and KIN has been used to scrutinize and calibrate historic logging data. This has enabled KIN to establish good geological control, which has been used to derive the geological interpretations in current work.
	Navigator uploaded the original assay files received from the labs via a database administrator using Datashed to minimise loading errors. An export of the data was then used to create an access database for use in Surpac.
	In 2009, MS ("MS") completed a mineral resource estimate report for the Raeside Project area, including the Michelangelo and Leonardo deposits. MS carried out extensive database verification, which included checks of surface survey positions, downhole surveys and assay data against original records.



Criteria	Commentary
	Since 2014, KIN geologists have conducted verification of historic drilling, assays, geological logs and survey information against the digital database, and in the field, including reviewing historic reports and visual confirmations of Surpac and Access databases. KIN have not reported any significant issues with the database.
	KIN has validated the database in Datashed and in Surpac prior to Resource estimation. These processes checked for holes that have missing data, missing intervals, overlapping intervals, data beyond end-of-hole, holes missing collar co-ordinates, and holes with duplicate collar co-ordinates.
	During 2017, CM carried out an independent data verification. 725 assay records for KIN's 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 1 error was found, which is not considered material and which represents less than 0.01% of all database records verified for KIN's 2014-2017 drilling programs.
	The database was continuously reviewed by CM during the 2017 resource estimation process.
Site Visit	KIN's geological team have conducted multiple site visits including supervision and management of drill programs within each of the Resource areas.
	Dr Spero Carras (Competent Person) was involved in the Leonora area at the Harbour Lights and Mertondale areas during the 1980s, and is familiar with the geology and styles of mineralisation within the Leonora Project area. He revisited the Leonora area during 2017 to review the projects, drilling, sampling and general geology.
	Messrs Mark Nelson and Gary Powell (Competent Persons) also conducted site visits to the resource areas, and they have independently reviewed drill core, existing open pits, surface exposures, drilling and sampling procedures.



Criteria	Commentary				
Geological Interpretation	The Raeside Project area is located 10km ESE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.				
	The regional geology comprises a sequence of Archaean greenstone lithologies. The area is underlain by very poorly exposed rocks units. The gold deposits at Raeside occur within or close to the margins of a large NW-trending (320°) body of dolerite within a sequence of sediments and volcanoclastic rocks near the southern margin of a porphyry intrusive. Most of the gold recovered from mining the nearby Forgotten Four mine was from shear bound quartz vein stockworks or sheeted veins and/or quartz carbonate veins within a narrow carbonaceous shale (dipping 40°-60° East) lying within a granophyric quartz dolerite and carbonate/sericite/sulphide altered wall rocks.				
Dimensions	The Michelangelo deposit has a strike of 600m NW and a width of 100m. The Michelangelo area includes a total of 32,536m of drilling. The drilling in the mineralized area for Michelangelo includes 16 DD holes for 225m and 320 RC holes for 3,419m. The Leonardo deposit has a strike of 500m NW and a width of 150m. The Leonardo area includes a total of 21,645m of drilling. The drilling in the mineralized area for Leonardo includes 8 DD holes for 54m and 159 RC holes for 1,378m.				
Estimations and Modelling	54. The following outlines Resources for the Miche			que used for producin	
Techniques					
	Deposit	Orebody Dimensions	Nominal Drill Spacing	Metres of Mineralised Drilling (m)	
	Michelangelo	600m x 100m x 300m	25m x 15m	3,644	
	Leonardo	500m x 150m x 300m	25m x 15m	1,432	
	b. Bottom of Oxida c. Top of Fresh Ro 56. CM carried out an In necessary, based on ne density information, the	sed on drill collar data ation (BOCO) ock (TOFR) dependent Review of www.drilling (both RC and e surfaces were modi	of the weatherin d diamond), geolo ified to reflect the	ogical relogging and bul e additional information	
	Surface topography was also adjusted due to new information obtained in a July 2017 aerial survey. 57. Based on geology, statistical analysis and intersection selection, domainal shapes were wireframed at a 0.3g/t nominal edge cut-off grade. These domainal shapes could contain values less than 0.3g/t within the wireframes although this was minimized to prevent smoothing dilution being incorporated into the final models. The parameters				



Criteria		Commentary		
	used for intersection selection w 2.5m bench height. The intersec			
	58. The wireframed shapes were audited by KIN geological staff who had previous experience in the Raeside area whilst working for Navigator Resources Ltd. The interpreted mineralisation wireframes are consistent with those historically used a Raeside.			
	59. Each mineralisation wireframe had an assigned strike, dip and plunge.			
	In Michelangelo the majority of c	60. Compositing from the top of each shape was carried out at 1m within each wireframe In Michelangelo the majority of composites (95%) were greater than 1m. In Leonardo the majority of composites (98%) were greater than 1m.		
	61. The domainal shapes were pass plunge.	ed into ISATIS Software	e with specified strike, dip and	
	62. The number of shapes used was	as follows:		
	Deposit	Number of Shapes		
	Michelangelo	19		
	Leonardo	9		
	64. The declustering program DECL assigned to each composite for second for each shape a detailed set of statistics, high grade cuts were decut was estimated for each deposition.	tatistical analysis. of weighted statistics w etermined for every sha	vas produced. Based on the ape and the percentage metal	
	Deposit	Maximum Cut (g/t)	Percentage Metal Cut %	
	Michelangelo- Leonardo Combine	25	4	
	66. Where a data point belonged to domain and independently alloca		ated was determined for each	
	67. Variograms were run for each dorn quality with the dowhole variog variograms were produced for do variograms were calculated or normalized. Variograms were nowere used in subsequent work.	rams being the basis ownhole, down dip, down an individual hole l	of fitted models. Directional plunge. Where the downhole basis, variograms were not	
	68. The following parameters were u	sed in modelling OK, ID	2 and ID3:	
	A minimum number of sa 32	imples of 12 and a maxi	imum number of samples of	
	The discretisation param	etere were 0 0 0		

A maximum of 2 samples per hole



Criteria		Commentary	
	Note: for blocks that did n relaxed and the search ra To minimize the striping e downhole search radii we 69. The ranges of search and directio The aim was to produce OK result adequate data to produce meanin inadequate data were estimated u methodology rather than OK.	dii were increased. Iffect created by estimation If increased. If increased were applied on the majority of shap If it is increased. If it is increased.	on in narrow shapes, the a shape by shape basis. bes where there had been shapes where there was
	70. The fundamental block size used	was:	
	Deposit Michelangelo-Leonardo Combined	Small Blocks 3.125mN x 1.8 x 1.25mRL	75mE
	Small blocks were used to enswere narrow.	sure adequate volume es	timation where shapes
	72. The models were then visually chedrillholes and ID3 proved to be the73. The small blocks produced by ID3 viblocks and panels. The block din panels were:	e best fit. were then composited to f	orm medium (quarter) sized
	Deposit	Medium (Quarter) Blocks	Panels
	Michelangelo-Leonardo Combined	6.25mN x 3.75mE x 2.5mRL	12.5mN x 7.5mE x 5mRL
	 74. To check that the interpolation of was carried out comparing the intervalidation plots showed good comblock model. 75. Volumes within wireframes were coblock estimates of the volumes wirensure that volumes estimated were consulted to the color of the volumes. 76. Classification was carried out using and geology as the guide. 	erpolated blocks to the sarelation thus the raw drill determined and these we thin those wireframes on ere correct.	ample composite data. The data was honoured by the re then compared with the a shape by shape basis to
	77. Operating cost estimates develope grade for deposits in the Raeside a		



Criteria	Commentary					
Moisture	Tonnages and grades were estimated on a dry basis only. Bulk Density determinations of diamond drill core included measurements of moisture content.					
Cut-off Parameters	Operating cost estimates provided by KIN's engineering consultants indicate a break even mining grade for open pit deposits in the Raeside area is likely to be 0.5g/t Au.					
Mining				Unit	2019 Optimisation	
Factors or	Revenue Assumptions	Gold Price Revenue		\$/t ore \$/g	\$2,000 \$64.30	
Assumptions	Mining Cost Assumptions	Mining Dilution Mining Recovery Mining Cost		% % \$/bcm	10.0% 90.0% Calculated	
	Processing Recovery and Cost Assumptions	Recovery Processing Cost Haulage G & A Cost	Oxide Trans Fresh Oxide Trans Fresh	% \$/t ore \$/t ore \$/t ore	\$16.50 \$20.00	
	Geotechnical Assumptions		Oxide Transitional Fresh	deg deg deg Unit	50 60 65	
	General Assumptions	Throughput Annual Discounting		t/yr %	1,500,000 0%	
Metallurgical Factors or Assumptions	In 2017 KIN's drilling progr samples for geotechnical a	and metallurgical	testwork.			
	Metallurgical testwork in the recoveries of mid-nineties table above					
	During the mining process, shales is envisaged to be pershale material can be achieved process plant.	possible so that s	successful	segre	gation and quarar	ntining of the
Environmental Factors or Assumptions	The Michelangelo and Leo activity. Historical mining at nearby demonstrated any impacts	Forgotten Four,	including	waste	rock landforms ha	



Criteria	Commentary				
Bulk Density	Prior to 2014, there have been numerous programs of bulk density testwork conducted by several companies at different times on diamond drill core and/or RC drill chips for the some of the various deposits. Generally the testwork has not been conclusive, since the testwork methodology has not been adequately described in the historical reports, or when it has, the testwork itself was not carried out using an acceptable method to determine dry bulk density. Often, when described, the testwork measured specific gravity, not bulk density, and in cases where bulk density was reported, the moisture content was not taken into account.				
	In 2017, KIN carried ou density testwork at Micl drilled into the major pa	helangelo and Leona	ardo, where for		
	A total of 231 half or quarter core samples, of varying lengths (5-20cm) were submitted to an independent laboratory in Perth for bulk density determinations by the water immersion method. The core samples were a mixture of half core and quarter core samples ranging from 5cm to 20cm in length, and were taken at downhole intervals of roughly every 1 metre. The samples were firstly weighed, oven dried overnight at 110°C, and weighed again to determine moisture content. The samples were then sealed, using hairspray, prior to immersion in water.				
	During the 2017 bulk density testwork and estimation process, Dr S Carras and Mr G Powell (Consultant to CM) visited the laboratory and identified some improvements for consideration in the bulk density determination process, particularly for small core pieces to give better precision of measurements. The suggested improvements were implemented and precision improved.				
	When estimating the bulk density for pieces of diamond drill core, it was found that the larger sized samples gave more repeatable results and these were mostly used in assigning the bulk densities.				
	larger sized samples ga	ave more repeatable			
	larger sized samples ga	ave more repeatable sities. he following bulk der	results and th	ese were mostly	used in
	larger sized samples ga assigning the bulk dens Based on recent data the Michelangelo / Leonard	ave more repeatable sities. he following bulk der do area:	results and th	ese were mostly	used in
	larger sized samples gassigning the bulk dense Based on recent data the Michelangelo / Leonard	ave more repeatable sities. he following bulk der lo area: Lithology	results and the sity paramete	rs were used for Transition	used in the Fresh
	larger sized samples ga assigning the bulk dens Based on recent data the Michelangelo / Leonard	ave more repeatable sities. he following bulk der do area:	results and th	ese were mostly	used in
Classification	larger sized samples gassigning the bulk dense assigning the bulk dense Based on recent data the Michelangelo / Leonard Michelangelo / Leonardo Classification was base confidence in geological nominal grids (approximate)	Lithology Mafic Sediments ed on a combination of al continuity. In generately NW-SE):	Oxide 2.0 2.0 of drillhole spa	Transition 2.3 2.3 acing, drillhole qu	the Fresh 2.65 2.6 ality and
Classification	larger sized samples gassigning the bulk dense assigning the bulk dense Based on recent data the Michelangelo / Leonard Michelangelo / Leonardo Classification was base confidence in geologica	Lithology Mafic Sediments ed on a combination of al continuity. In general	Oxide 2.0 2.0 of drillhole sparal all deposits	Transition 2.3 2.3 acing, drillhole qu	the Fresh 2.65 2.6 ality and
Classification	larger sized samples gassigning the bulk dense assigning the bulk dense Based on recent data the Michelangelo / Leonard Michelangelo / Leonardo Classification was base confidence in geological nominal grids (approxime	Lithology Mafic Sediments ed on a combination al continuity. In generately NW-SE): 25m x 15m 25m x 15m	Oxide 2.0 2.0 of drillhole spa	Transition 2.3 2.3 cing, drillhole ques were drilled on	Fresh 2.65 2.6 ality and the following
Classification	Area Michelangelo / Leonardo Classification was base confidence in geologica nominal grids (approxin Michelanglo: Leonardo: In general drillhole space	Lithology Mafic Sediments do an a combination of a continuity. In generately NW-SE): 25m x 15m	Oxide 2.0 2.0 of drillhole spaceral all deposits	Transition 2.3 2.3 cing, drillhole que were drilled on	the Fresh 2.65 2.6 ality and the following



Criteria	Commentary
Audits and Reviews	Internal audits were carried out on the geological interpretations and wireframes by KIN geologists. Some data (e.g. geological logs) are scant; the assay data is historical and could not be independently verified, however in 2017 KIN drilled 5 twinned drillholes. The drillholes provided a very good validation to historical holes in the current database. In 2009, MS checked 25 holes (mineralised intersections containing 1,141 sample records) selected at random and checked against originals. The data correlation was not perfect but very acceptable (93% correlation) considering the age of the data and the passing through different company history. KIN personnel carried out audits and internal reviews of the data, assay, survey, wireframes and geological interpretations carried out by CM for Michelangelo-Leonardo.
	CM also carried out reviews of data used for Michelangelo-Leonardo. Bulk density determination methodology was audited by S Carras and G Powell (Consultant to CM) through visitation of the independent laboratory.
Discussion of Relative	KIN embarked on a program of infill drilling, including twinning of 5 historical drillholes. The drilling largely substantiated the position and tenor of mineralisation. It also validated the information obtained from various drilling campaigns.
Accuracy and Confidence	In the modelling process every attempt has been made to eliminate the "string effect" problem associated with the estimation of narrow vein structures through the use of ordinary kriging. This has been achieved through the use of distance weighting estimates correlated back to ordinary kriging estimates. This method, although heuristic has been validated by extensive review of the block models and the drillhole data.
	Every attempt has been made in the modelling to reduce the smoothing effect, which results when using a low cut-off grade to determine boundary positions and limit the amount of dilution in the Resource so that it can be correctly diluted for Reserve.
	In all high coefficient of variation orebodies, local estimation is very difficult to achieve due to the high nugget effect of the gold. This means that small parcels of ore are difficult to estimate without further information such as closer spaced grade control drilling.



Appendix I JORC 2012 TABLE 1 REPORT MERTONDALE PROJECT Quicksilver and Eclipse

No change from Previous work

SECTION 1 – Sample Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Commentary
Sampling techniques	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out at Mertondale since 1981. Data was obtained predominantly from Reverse Circulation ("RC") drilling, and to a lesser extent, diamond core ("Diamond" or "DD") drilling and Air Core ("Aircore" or "AC") drilling.
	Companies involved in the collection of the majority of the exploration data prior to 2014 within the Mertondale Project included: Nickelore NL ("Nickelore") 1981-1982; Hunter Resources Ltd ("Hunter") 1984-1988; Harbour Lights Mining Ltd (a joint owned company of Ashton Gold WA Ltd and Carr Boyd Minerals Pty Ltd - "HLML") 1988-1993; Mining Project Investors Pty Ltd ("MPI") 1993-1996; Sons of Gwalia Ltd ("SOG") 1996-2004; Navigator Resources Ltd ("Navigator") 2004-2014.
	Kin Mining Ltd ("KIN") acquired the Mertondale Project in 2014.
	HISTORIC SAMPLING (1981-2008)
	Drill samples were generally obtained from 1m downhole intervals and riffle split to obtain a 3-4kg representative sub-sample, which were submitted to a number of commercial laboratories for a variety of sample preparations methods, including oven drying (90-110°C), crushing (-2mm to -6mm), pulverizing (-75μm to -105μm), and generally riffle split to obtain a 30, 40 or 50 gram catchweight for gold analysis, predominantly by Fire Assay fusion, with AAS finish. On occasions, initial assaying have been carried out using Aqua Regia digest and AAS/ICP finish, with anomalous samples re-assayed by Fire Assay fusion and AAS/ICP finish.
	Diamond Drilling
	Half core (or quarter core) sample intervals varied from 0.15m to 1.46m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining core was retained in marked core trays and stored in a secure yard for future reference. The only known available drill core from these programs and stored at KIN's Leonora Exploration Yard, are those drilled by Navigator.
	RC Drilling
	The vast majority of Reverse Circulation (RC) drill samples were collected over 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill



Criteria	Commentary
	site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
	Navigator obtained sub-samples from wet samples using the spear method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	There are no sample rejects available from RC drilling prior to 2008. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop. Assay results from these samples are not used for resource estimation work, however they do sometimes provide a guide in interpreting geology and mineralisation continuity.
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques. Aircore sample assay results were only used for resource estimation work if the 1m sub-samples were obtained by riffle splitting of the primary sample, prior to placing on the ground.
	There are no sample rejects available from AC drilling prior to 2008. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	RAB Drilling
	Sample returns from Rotary Air Blast (RAB) drilling are collected from the annulus between the open hole and drill rods, using a stuffing box and cyclone. Samples are usually collected at 1 metre intervals and placed on the ground with 3-4kg subsamples collected using a scoop or spear. Up-hole contamination of the sample is commonplace, therefore this type of drilling and sampling is regarded as reconnaissance in nature and the samples indicative of geology and mineralisation. The qualities of samples are not appropriate for resource estimation work and are only sometimes used as a guide for interpreting geology and mineralisation.
	COMMENT
	For some earlier (pre-2004) drilling programs, RC and Aircore samples were obtained at 1.5m or 3m downhole intervals and a substantial portion of the historical MPI holes were composite sampled over 2-4m intervals.
	For resource estimation work, Diamond, RC and some Aircore drilling data was used where appropriate. RAB drilling data was not used for resource estimation but was sometimes used as an interpretative guide only.
	No exploration drilling was conducted by KIN at Eclipse or Quicksilver.



Criteria Commentary Drilling Numerous programs comprising various types of drilling have been conducted by techniques several companies since 1981. The total Mertondale database encompasses the various deposits and prospects within the Mertondale Project area, and consists of 6,974 drillholes for a total of 345,635 metres, viz: Hole Type **Drill holes** Metres (m) % (m) 192 DD 27,129 7.8 RC 1,244 125,874 36.4 AC 1,343 83,508 24.2 **RAB** 4,195 109,124 31.6 Total 6,974 345,635 100.0 **HISTORIC DRILLING (1981-2008) Diamond Drilling** Diamond drilling was carried out using industry standard 'Q' wireline techniques, with the core retrieved from the inner tubes and placed in core trays. Core sizes include NQ/NQ3 (Ø 45-48mm), HQ/HQ3 (Ø 61-64mm), minimal NDBGM (Ø 50-51mm) and some PQ/PQ3 (Ø 83-85mm). At the end of each core run, the driller placed core blocks in the tray, marked with hole number and depth. Core recovery was usually measured for each core run and recorded onto the geologist's drill logs. **RC** Drilling RC drilling used conventional reverse circulation drilling techniques, utilising a crossover sub, until the late 1980s, when the majority of drilling companies started changing over to using face-sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm. Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination (e.g. smearing of grades), especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be more reliable and representative. Aircore Drilling Aircore drilling is a form of RC drilling, but generally utilizing smaller rigs and smaller air compressors, compared to standard RC drill rigs of the times. Aircore bits are hollow in the centre, with the kerf comprising cutting blades or 'wings' with tungstencarbide inserts. Drill bit diameters usually range between 75-110mm. The vast majority of Aircore drilling (98%) was conducted by Navigator utilising

suitable rigs with appropriate compressors (e.g. 250psi/600cfm). Aircore holes were drilled mostly into the weathered regolith using 'blade' or 'wing' bits, until the bit was



Criteria Commentary unable to penetrate further ("blade refusal"), often near to the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate harder rock types. Holes were typically no deeper than 60 metres. RAB Drilling

RAB drilling is carried out using small air compressors (e.g. 250psi/600cfm) and drill rods fitted with a percussion hammer or blade bit, with the sample return collected at the drillhole collar using a stuffing box and cyclone collection techniques. Drillhole sizes generally range between 75-110mm.

Hole Type	Drill holes	Metres (m)	% (m)
DD	188	26,666	12.0
RC	1,131	112,215	50.5
AC	1,343	83,508	37.6
Total	2,662	222,389	100.0

COMMENT

The drilling database supplied includes depths of some RC precollars for diamond drillholes, but is incomplete. Historical reports indicate that drill core sizes were predominantly HQ/HQ3 or NQ/NQ3, with minimal PQ/PQ3, however database details are incomplete. Most historical reports recorded core recoveries, although these details are not included in the database. Review of some historical reports indicate that core recoveries were generally good, although recoveries were typically less in highly fractured zones and some highly weathered mineralised zones in the transition and oxide zones, however this information is not recorded in the supplied database.

RC drilling is the dominant drill type at all sites. RC drilling information is generally described in varying detail in historical reports to the DMP, including drilling companies used and drilling rig types, however it's not all recorded in the database supplied. Review of the historical reports indicates that reputable drilling companies were typically contracted and the equipment supplied was of an acceptable standard for those times. During the 1990s, and 2000s, suitable large drill rigs with on-board compressors were probably complimented with auxiliary and booster air compressors for drilling to greater depths and/or when groundwater was encountered. KIN's drilling was conducted with modern rigs equipped with auxiliary and booster compressors and face sampling hammers with bit diameters typically 140mm.

When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques. Aircore drilling data was only used in resource estimation work, where the in-field and laboratory sampling methodologies was considered appropriate and limited to a number of selected Navigator drillholes.

No exploration drilling was conducted by KIN at Eclipse or Quicksilver.



Criteria	Commentary		
Drill sample recovery	HISTORIC DRILLING (1981-2008)		
recovery	Diamond drilling		
	Core recovery has been recorded in most drill logs for most of the diamond drilling programs since 1981, but is not recorded in the supplied database. A review of some historical reports indicates that generally core recovery was good with lesser recoveries recorded in zones of broken ground and/or areas of mineralisation. Overall recoveries are considered acceptable for resource estimation.		
	RC drilling		
	There is limited information recorded for sample recoveries for historical RC and Aircore drilling. However there has been an improvement in sample recoveries and reliability following the introduction of face sampling hammers and improved drilling technologies and equipment, since the mid-1980s.		
	COMMENT		
	Due to the lack of detailed information in the database regarding historic (pre-2008) Aircore and RC drilling, no quantitative or semi-quantitative impression of sample recovery or sample quality is available. It's assumed to be satisfactory given that several deposits were mined in the past, by open pit methods, in the Mertondale area (e.g. Mertondale 3-4 and Mertondale 5), where the open pits were mined to their original design limits, based on the historical drill data. This suggests that the amount of metal recovered was probably not grossly different from pre-mining drill data based expectations.		
	During Navigators drill programs wet samples were spear sampled instead of riffle split. This is regarded as poor sampling procedure and these samples are regarded as unreliable however the total number of wet samples is considered to be very low.		
	No indication of sample bias is evident nor has it been established. That is, no relationship has been observed to exist between sample recovery and grade.		
	The amount of Aircore drilling data used in the Eclipse resource estimation process is greater than 60%. No Aircore drilling was used in the Quicksilver resource estimation process.		
	No exploration drilling was conducted by KIN at Eclipse or Quicksilver.		
Logging	HISTORIC DRILLING (1981-2008)		
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (Hunter, MPI, SOG and Navigator). Correlation between codes is difficult to establish, however it can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.		
	Navigator's procedure for logging of diamond core included firstly marking of the bottom of the core (for successful core orientations), core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features, and then marked up for cutting and sampling. Several diamond drillholes were completed for geotechnical purposes and were independently logged for		



Criteria	Commentary				
	structural data by geotechnical consultants. All diamond drill core has been photographed, and currently stored at KIN's yard in Leonora.				
	Navigator RC and Aircore logging was entered on a metre by metre basis, recording lithology, alteration, texture, mineralisation, weathering and other features. The information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.				
	The entire length of all drillholes is logged in full from surface to bottom of hole.				
	Logging is qualitative on visual recordings of lithology, oxidation, colour, texture and grain size. Logging of mineralogy, mineralisation and veining is quantitative.				
	Drill core photographs are only available for Navigator's diamond drillholes.				
	COMMENT				
	KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.				
	The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies and metallurgical studies.				
	Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, veining, and in addition, logging of diamond drilling included geotechnical data, RQD and core recoveries.				
	For the majority of historical drilling (pre-2004), the entire length of drillholes have been logged from surface to 'end of hole'. Diamond core logging is typically logged in more detail compared to RC and Aircore drilling.				
	No exploration drilling was conducted by KIN at Eclipse or Quicksilver.				
Sub-sampling	HISTORIC DRILLING (1981-2008)				
techniques and sample preparation	Historical reports for drilling programs prior to 2004, are not always complete in the description of sub-sampling techniques, sample preparation and quality control protocols.				
	Diamond drilling				
	Diamond drill core (NQ/NQ3, HQ/HQ3 or PQ/PQ3) samples collected for analysis were longitudinally cut in half, and occasionally in quarters for the larger (HQ/HQ3 or PQ/PQ3) diameter holes, using a powered diamond core saw blade centered over a cradle holding the core in place.				
	Half core (or quarter core) sample intervals varied from 0.15 to 1.46m, but were predominantly taken over 1m intervals, or at geological contacts, whichever was least. The remaining half (quarter) core was retained in core trays.				
	Where historical reports do not describe the sampling protocol for sampling of drill core, it is assumed that drill core was sampled as described above.				



Criteria	Commentary			
	RC drilling			
	Prior to 1996, limited historical information indicates most RC sampling was conducted by collecting 1m samples from beneath a cyclone and passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. RC sampling procedures are believed to be consistent with the normal industry practices at the time. The vast majority of samples were dry and riffle split, however spear or tube sampling techniques were used for wet samples.			
	Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.			
	The vast majority of Reverse Circulation (RC) drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.			
	Navigator obtained sub-samples from wet samples using the spear or tube method.			
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.			
	There are no sample rejects available from RC drilling prior to 2008. Most drill sites have been rehabilitated and the sample bags removed and destroyed.			
	Navigator included standards and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples.			
	Aircore drilling			
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop.			
	Navigator included standards and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples.			
	A variety of laboratories were used for analysis. Prior to 2009, duplicate samples were not routinely collected and submitted from RC and Aircore drilling to the same laboratory consequently overall sampling and assay precision levels can't be quantified for that period.			
	While QC protocols were not always comprehensive, the results indicate that assay results from Navigators exploration programs were reliable. Results from pre-			



Criteria	Commentary				
	Navigator operators are regarded as consistent with normal industry practices of the time.				
	COMMENT				
	Samples and sub-sample sizes are considered appropriate for this style of gold mineralisation, and sampling methodologies were of standard industry practice, and appropriate for evaluation of gold deposits in the Eastern Goldfields of Western Australia.				
Quality of assay data and laboratory tests	Numerous assay laboratories and various sample preparation and assay techniques have been used since 1981. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.				
10010	HISTORIC DRILLING (1981-2008)				
	For assay data obtained prior to 1996, the incomplete nature of the data results could not be accurately quantified in terms of the data derived from the combinations of various laboratories and analytical methodologies.				
	Since 1996, the majority of samples submitted to the various laboratories were typically prepared for analysis firstly by oven drying, crushing and pulverizing to a nominal 85% passing 75µm.				
	In the initial exploration stages, Aqua Regia digest with AAS finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 50 gram catchweights) with AAS finish.				
	Approximately 15-20% of the sampled Aircore holes may have been subject to Aqua Regia digest methods only, however Aircore samples were obtained predominantly within the oxide profile, where aqua regia results are not expected to be significantly different to results from fire assay methods.				
	During 2004-2008, Navigator utilised six different commercial laboratories during their drilling programs, however Kalgoorlie Assay Laboratories conducted the majority of assaying for diamond, RC and Aircore samples using Fire Assay fusion on 40 gram catchweights and AAS/ICP finish.				
	Navigator regularly included Certified Reference Material (CRM) standards and blanks with their sample batch submissions to the laboratories at average ratio of 1 in every 20 samples. Sample assay repeatability, and blank and CRM standards assay results are within acceptable limits.				
	COMMENT				
	The nature and quality of the assaying and laboratory procedures used are considered to be satisfactory, to the standards of the day, and appropriate for use in mineral resource estimations.				
	Fire Assay fusion or Aqua Regia digestion techniques were conducted on diamond, RC and Aircore samples, with AAS finish.				
	Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay				



Criteria	Commentary			
	technique with AAS finish. AAS method of detection is considered to be a suitable and appropriate method of detection.			
	Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.			
	No other analysis techniques have been used to determine gold assays.			
	No exploration drilling was conducted by KIN at Eclipse or Quicksilver.			
Verification of sampling and assaying	Verification of sampling and assaying techniques and results prior to 2004 has limitations due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories, over a twenty year period.			
	During 2009, a selection of significant intersections had been verified by Navigator's company geologists and an independent consultant McDonald Speijers ("MS") in January 2009. MS were able to validate 92% of the assay records in 50 randomly selected check holes, and only 6 assay discrepancies were detected (< 0.2%), only 2 of those were considered significant. MS concluded that the very small proportion of discrepancies indicated that the assay database was probably reliable at that time.			
	COMMENT			
	There is always a risk with legacy data that sampling or assaying biases may exist between results from different drilling programs due to differing sampling protocols, different laboratories and different analytical techniques.			
	Repeated examinations of historic reports on phases of diamond, RC and Aircore drilling have been conducted from time to time. The information obtained from the various historical diamond, RC and Aircore drilling programs (where sampling protocols are appropriate) have been accepted.			
	Where sampling protocols are appropriate, diamond, RC and Aircore samples, are of equal importance in the resource estimation process.			
	There has been no adjustments or calibrations made to the assay data recorded in the supplied database.			
Location of data points	HISTORIC DATA (1981-2008)			
	A local survey grid was originally established in 1981 at Mertons Reward, and subsequently extended by Hunter during 1985-1988. During the 1990s, SOG identified a small angular error in the base line, which resulted in substantial errors, particularly in the northern portion of the project. Surface survey data were transformed firstly to AMG and subsequently to MGA (GDA94 zone51). This resulted in different grid transformations being applied in the northern and southern parts of the Mertondale area.			
	Navigator recognised errors in the collar co-ordinates resulting from these transformations and as a result, a significant number of holes were resurveyed and a new MGA grid transformation generated. This exercise largely appeared to eliminate the offset. Old collars have been validated against the original local grid co-ordinates			



Criteria	Commentary			
	and independently transformed to MGA co-ordinates and checked against the database. Navigator's MGA co-ordinates were checked against the surveyor's reports. Where variations in the MGA co-ordinate system were detected, Navigator's geologists deemed the errors were not large enough to have a material impact on the MS resource estimation work in 2009.			
	All survey work carried out by Navigator was conducted in GDA94 Zone 51 using differential GPS equipment and a network of survey controls.			
	Almost all the diamond and at least 80% of Navigator's RC holes were downhole surveyed. Pre-Navigator, single shot survey cameras were used, with typical survey intervals of 30-40 metres. There were some variation between magnetic and grid azimuths noted (up to 2°) for pre-Navigator drillholes, however the variations are small enough to be within acceptable limits. Aircore holes and the majority of pre-Navigator RC holes were not surveyed down hole, as was the general practice of the day.			
	Navigator carried out down hole survey using a single shot or multi-shot survey camera.			
	KIN supplied one digital terrain models (DTM) of the topography constructed from drill hole collar data.			
	COMMENT			
	The accuracy of the drill hole collar and downhole data are located with sufficient accuracy for use in resource estimation work.			
	Considering the history of grid transformations and various problems recorded in the surviving documentation there might be some residual risk of error in the MGA coordinates for old drillholes, particularly in the northern area, however this is not considered to be material for the resource estimations, subject of this report.			
	Much of the historical drilling data was recorded relative to magnetic north. Variation in magnetic declination for the Mertondale Project area is calculated at +0.823° East (1985) to +1.301° East (2017), with a maximum variation of +1.575° in 2005. The difference between true north and magnetic north, and the annual variation in magnetic declination since 1985 is not significant, therefore magnetic north measurements have been used, where true north data is unavailable, for all survey data used in resource estimation processes.			
Data spacing and distribution	Drill hole spacing patterns vary considerably throughout the Project area, and is deposit specific, depending on the nature and style of mineralisation being tested.			
distribution	Mineralised areas have typically been drilled at nominal hole spacings of 12.5-45 metres on 50 metre grid spacings. The majority of the holes were drilled at an average dip of -60°, and orthogonal to the strike of mineralisation.			
	Drill hole and sample interval spacing is sufficient to establish an acceptable degree of geological and grade continuity appropriate for mineral resource estimations and classifications applied.			
	There has been no sample compositing, other than a few historical compositing of field samples for some Aircore and RC samples to 1.5m, 2m and few 4m intervals. The vast majority of primary assay intervals are 1 metre intervals for RC and Aircore samples, and predominantly 1 metre intervals for core samples.			



Criteria	Commentary		
Orientation of data in relation to geological structure	The two recognised deposits and all the known mineralisation is located within the north trending Mertondale Shear Zone (MSZ), located within the Mertondale greenstone sequence, which is orientated in a NNE to Northerly direction. The stratigraphy and mineralisation generally dips sub-vertically to steeply dipping to the east or west. The majority of drilling and sampling programs were carried out to intersect mineralisation orthogonal to strike and as close to orthogonal to dip as practical (i.e. towards 245°-270°).		
	The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in the data thus far.		
Sample security	HISTORIC DRILLING (1981-2008)		
	No sample security details are available for pre-Navigator (pre-2004) drill samples.		
	Navigator's drill samples were collected from the riffle splitter in pre-numbered calico bags at the drill rig site. Samples were collected by company personnel from the field and transported to Navigator's secure yard in Leonora, where the samples were then batch processed (drillhole and sample numbers logged into the database) and then packed into 'bulkabag sacks'. The bulkabags were tied off and stored securely in Navigator's yard, until transporting to the laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site, to delivery to the various laboratories.		
Audits or reviews	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to today's current standards. A review of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to the best practice industry standards of the day.		
	A review of the Mertondale Project's database, drilling and sampling protocols, and so forth, was conducted and reported on by independent geological consultants MS in 2009.		
	KIN is in the process of completing validation of all historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one, and converting all historical logging into the standardized code system. This is an ongoing process and is not yet completed.		
	MS's oxidation profiles were used to assign bulk densities and metallurgical recoveries to the resource models.		
	Bulk density testwork in the past has been inconsistent with incorrect methods employed, to derive specific gravity or in-situ bulk density, rather than dry bulk density. Navigator (2009) bulk density testwork was carried out using the water immersion method on oven dried, coated samples to derive dry bulk densities for different rock types and oxidation profiles. This information has been incorporated into the database for resource estimation work.		
	Drilling, Sampling methodologies and assay techniques used in these drilling programs are considered to be appropriate and to industry standards of the day.		



SECTION 2 – Reporting of Exploration Results

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

Criteria	Commentary			
Mineral tenement and land tenure status	The Mertondale Project area includes granted mining tenements M37/82, M37/231 and M37/232 (Eclipse and Quicksilver), centred some 40km NNE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. These tenements are managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields of Western Australia.			
	The following royalty and compensation payments may be applicable to the areas within the Mertondale Project that comprise the deposits being reported on:			
	 Aurora Gold (WA) Pty Ltd (subsidiary company of Harmony Gold Mining Company Ltd) in respect of M37/82, M37/231, M37/232 and M37/233 - \$0.25 production royalty per dry tonne of ore mined and processed. 			
	2. Technomin Australia Pty Ltd in respect of M37/82, M37/231, M37/232 and M37/233 - \$0.75 production royalty per dry tonne of ore mined and milled, and			
	3. Higherealm Pty Ltd (Mertondale Pastoral Leaseholder) in respect of M37/81, M37/82, M37/231, M37/232 and M37/233 - \$10,000 per annum, indexed to CPI, for the year(s) when extraction activities are being carried out.			
	There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.			
Exploration done by	Gold was initially discovered in the Mertondale area in 1899 by Mr. Fred Merton. The Mertons Reward (MR) underground gold mine (M37/1284) was the direct result of his discovery. The main mining phase at MR was carried out from 1899 to 1911. Historic			
other parties	underground production records to 1942 totalled 88,890t @ 21.0g/t Au (60,520oz) which represents the only recorded mining conducted at Mertons Reward.			
	Between 1981-1984 Telluride Mining NL, Nickel Ore NL, International Nickel (Aust) Ltd and Petroleum Securities Mining Co Pty Ltd conducted exploration programs in the Mertondale area. Hunter Resources Ltd began actively exploring the region 1984-1989, Hunter submitted a Notice of Intent (NOI) to mine in 1986 and established a JV with Harbour Lights to treat ore from the Mertondale 2 (M37/1284) and Mertondale 3 pits (M37/82). Between 1986 and 1993 the adjoining Mertondale 4 pit (M37/82 and 81) was mined. Harbour Lights acquired the project in 1989 from Hunter. Ashton Gold eventually gained control of Harbour Lights. Large scale mining in the region was completed in 1993 with the mining of the Mertondale 2 and Mertondale 3-4 pits (M37/81 and M37/82). Eclipse and Quicksilver have never been mined. In 1993 Ashton's interest was transferred to Aurora Gold who established a JV with MPI followed by Sons of Gwalia who entered into a JV with Aurora.			

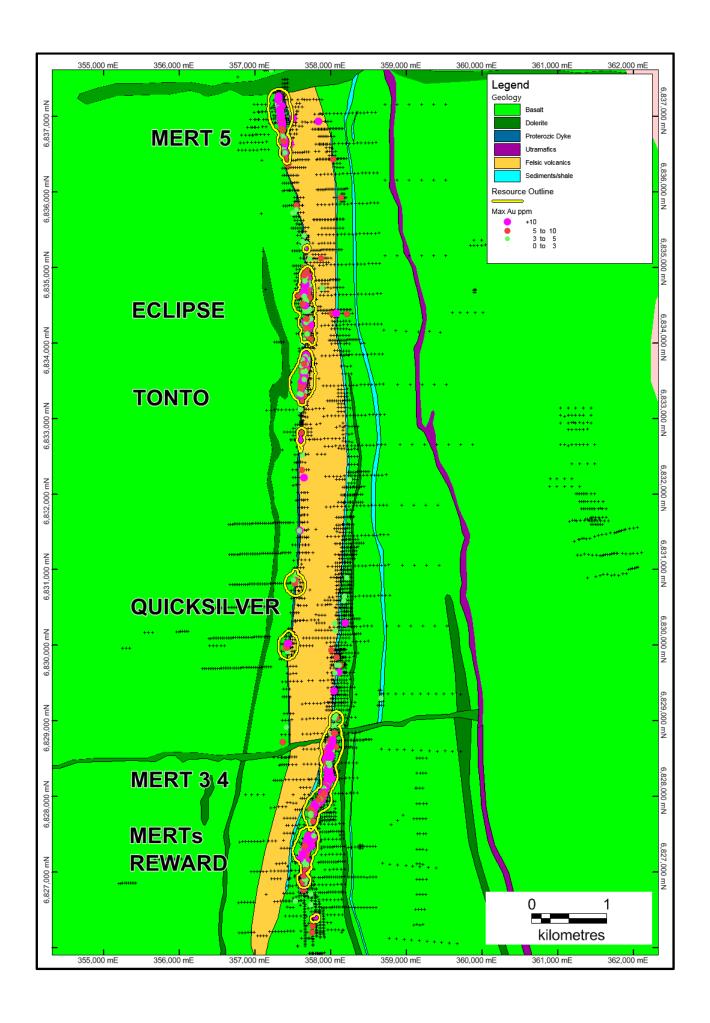


Criteria		Commentary					
	Mine	Date	Company	Tonnes	Rec. Grade	Ounces	
	Mertondale			(t)	(Au g/t)	('000)	
	Mertondale 5 Pit	1991	HUV	385,537	2.60	32,290	
	Mertondale 3-4 Pit	1986 – 1993	Hunter/HLJV	1,300,000	4.29	179,300	
	Mertondale 2 Pit	1986 – 1993	Hunter/HLJV	20,000	3.50	2,250	
	Mertondale 2 Pit	Feb – Jul 2010	NAV	14,000	1.03	460	
	Mertondale Pits Sub-Total	1000 1042	Verdens	1,719,537	3.87	214,300	
	Merton's Reward UG Mertondale Total	1899 – 1942	Various	88,891 1,808,428	21.00 4.73	60,524 274,724	
	Sons of Gwalia (SOG) eventually obtained control of the project in 1997 but conducted limited exploration drilling. In 2004 Navigator Mining Pty Ltd (Navigator) acquired the entire existing tenement holding from the SOG administrator. Navigator conducted the majority of recent exploration drilling in the Mertondale area. KIN acquired the project from Navigator's administrator in late 2014. Historic production from all the Mertondale						
	open pits totals 274,724 oz of gold (Table 2). KIN has not carried out any drilling at Eclipse or Quicksilver.						
Geology	The Quicksilver and Eclipse Project areas are located 40km NNE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km or a NNW trend across the Archean Yilgarn Craton of Western Australia. In broad terms the stratigraphy consists of a central felsic volcanic sequence bounded by tholeitic basalt, dolerite, and carbonaceous shale ± felsic porphyry sequences.						
	Two distinct north trending mineralised zones are recognized within the MSZ. The western zone includes Quicksilver, Tonto, Eclipse and Mertondale 5, while the eastern zone includes the Merton's Reward, Mertondale 2 and Mertondale 3-4 deposits.						
	Within the Mertondale Project area, most of the known mineralisation is hosted in sheared mafics, with local porphyry bodies and sediment units. Some of the sediment units are graphitic, notably in the western mineralised zone.						
	Geological interpretation of Eclipse and Quicksilver is largely based on historic drill data and the geological knowledge of the MSZ, and the Mertondale 5 deposit, thus there is a reasonable level of confidence in the interpretation.						
	The project area covers the northern segment of the western limb of the MSZ. The local lithologies are typified by basalt, sandstone, siltstones, shale, felsic intrusives and volcanic rocks, dolerite and volcaniclastic rocks.						
	At Quicksilver, the western mineralised zone of the MSZ contains black mafic mylonite, black shale, quartz-dolerite, basaltic andesite and felsic volcanics and volcanoclastics. Felsic porphyries intrude the shear zone at regular intervals. Gold mineralisation is often located near the sub-vertical mafic-felsic contact. Black sulphidic shales are spatially associated with the mineralisation.						
	At Eclipse, the mafic mylonite is discontinuous, and the quartz dolerite unit is located within the central mafic unit. A shale unit is traceable throughout the Eclipse deposit. A relatively un-sheared, altered high-magnesium basalt unit is intruded by a granitic porphyry dyke.						
Orill hole	Material drilling inform reported in numerous						



Criteria	Commentary			
Information				
Data Aggregation methods	When exploration results have been reported by previous explorers for the resource areas, the intercepts were generally reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without any high-grade cuts applied. Where aggregate intercepts incorporated short lengths of high-grade results, these results were included in the reports. There is no reporting of metal equivalent values.			
Relationship Between Mineralisation widths and intercept lengths	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling. The majority of drill holes are inclined at -60° towards 270° (west) with some orientated towards 090° (east), which is regarded as the optimum orientation to intersect the target mineralisation. Since the mineralisation is steeply dipping, drill intercepts are reported as downhole widths, and not true widths. Any accompanying dialogue to reported intersections normally describes the attitude of the mineralisation.			
Diagrams	A plan and type sections for each resource area are included in the main body of the report.			
Balanced Reporting	Public reporting of exploration results by past explorers for the resource areas are considered balanced and included representative widths of low- and high-grade assay results.			
Other Substantive exploration data	Comments on recent bulk density and metallurgical information are included in Section 3 of this Table 1 Report. There is no other new substantive data acquired for the resource areas being reported on. All meaningful and material information is or has been previously reported.			
Further work	The potential to increase the existing resources is viewed as probable. Further work does not guarantee that an upgrade in the resource would be achieved, however KIN intend to drill more holes at Eclipse and Quicksilver with the intention of increasing the Mertondale resources and converting the Inferred portions of the resources to the Indicated category.			







SECTION 3 – Estimation and Reporting of Mineral Resources

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



Criteria	Commentary
Database Integrity	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1981. Data was obtained predominantly from Reverse Circulation ("RC") drilling, and to a lesser extent, diamond core ("Diamond") drilling and Air Core ("Aircore" or "AC") drilling.
	Companies involved in the collection of the majority of the exploration data prior to 2014 include: Nickelore NL ("Nickelore") 1981-1982; Hunter Resources Ltd ("Hunter") 1984-1988; Harbour Lights Mining Ltd (a joint owned company of Ashton Gold WA Ltd and Carr Boyd Minerals Pty Ltd - "HLML") 1988-1993; Mining Project Investors Pty Ltd ("MPI") 1993-1996; Sons of Gwalia Ltd ("SOG") 1996-2004; Navigator Resources Ltd ("Navigator") 2004-2014.
	The database could not be fully verified regarding the reliability and accuracy of a substantial portion of the historical data.
	Database checks conducted by KIN and others are within acceptable limits. There is missing data, however it is regarded as minimal. It is not possible to identify errors that might have occurred prior or during digital tabulation of historic (pre-2004) data.
	The logging data coded in the database uses at least four different lithological code systems, a legacy of numerous past operators (Hunter, MPI, SOG and Navigator). Due to different logging techniques/companies/codes there were many lithological inconsistencies between holes. Correlation between codes is difficult to establish, however can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	KIN has attempted to validate historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	Drilling conducted by Navigator has been used to scrutinize and calibrate historic logging data. This has enabled reasonable geological control, which has been used to derive the geological interpretations in current resource work.
	Navigator uploaded the original assay files received from the labs via a database administrator using Datashed to minimise loading errors. An export of the data was then used to create a Micorsoft Access ("Access") database for use in Surpac.
	In 2009, McDonald Speijers ("MS") completed a mineral resource estimate report for the Mertondale Project area, including the Quicksilver and Eclipse deposits. MS carried out extensive database verification, which included checks of surface survey positions, downhole surveys and assay data against original records. MS reported on verification of 92% of the assay records in 50 randomly selected check holes with < 0.2% discrepancies. Identified issues were then addressed by Navigator.



Criteria	Commentary
Site Visit	KIN's geological team has conducted multiple site visits to the project areas, including times when a KIN geologist was previously employed by Navigator.
	Dr Spero Carras (Competent Person) of Carras Mining Pty Ltd ("CM") was involved in the Leonora district at the Harbour Lights and Mertondale areas during the 1980s, and is familiar with the geology and styles of gold mineralisation within the Mertondale Project area. He revisited the Leonora area during 2017 to review the projects, drilling, sampling and general geology.
	Messrs Mark Nelson and Gary Powell (Competent Persons) also conducted site visits to the nearby resource areas, and they have independently reviewed drill core, existing open pits, surface exposures, drilling, logging and sampling procedures.
Geological Interpretation	The Quicksilver and Eclipse Project areas are located 35km NNE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
	In broad terms the stratigraphy consists of a central felsic volcanic sequence bounded by tholeitic basalt, dolerite, and carbonaceous shale ± felsic porphyry sequences.
	Two distinct north trending gold mineralised zones are recognized within the MSZ. The western zone includes Quicksilver, Tonto, Eclipse and Mertondale 5, while the eastern zone includes the Merton's Reward, Mertondale 2 and Mertondale 3-4 deposits.
	Within the Mertondale Project area, most of the known mineralisation is hosted in sheared mafics, with local porphyry bodies and sediment units. Some of the sediment units are graphitic, notably in the western mineralised zone.
	At Quicksilver, the western mineralised zone of the MSZ contains black mafic mylonite, black shale, quartz-dolerite, basaltic andesite and felsic volcanics and volcanoclastics. Felsic porphyries intrude the shear zone at regular intervals. Gold mineralisation is often located near the sub-vertical mafic-felsic contact. Black sulphidic shales are spatially associated with the mineralisation.
	At Eclipse, the mafic mylonite is discontinuous, and the quartz dolerite unit is located within the central mafic unit. A shale unit is traceable throughout the Eclipse deposit. A relatively un-sheared, altered high-magnesium basalt unit is intruded by a granitic porphyry dyke.
	Prescribed geological codes are assumed to have been used consistently in logging by various geologists, though it is probable that some variations between drillholes may be a result of different logging styles or interpretations.
	Alternative interpretations of the mineralisation may have an effect on the estimation, however it is unlikely that there would be a gross change in the interpretation, based on current information. The resource estimation is controlled by all available data in an attempt to quantify the mineralisation with the highest level of confidence.



Criteria	Commentary
Dimensions	The Quicksilver resource area includes three mineralised zones averaging 200-500m of strike, separated by distances of 400-900m; the drill search area (3,500m x 625m) includes 461 drill holes of which 69 holes were mineralised intersections amounting to 1,660.1m of drilling. At Eclipse the drill hole search area (2,000m x 450m) included 545 drill holes of which 275 holes were mineralised intersections amounting to 9,205m.
Estimations and Modelling Techniques	Tonnage and grade estimates were achieved by the Recovered Fraction (RF) block modeling process. This technique is a pseudo probabilistic one that estimates the volumetric proportion of each block likely to be above a particular cut-off grade and what the average grade of that proportion is likely to be. Search radii parameters (dip, strike cross dip) were assigned for the following deposits Quicksilver (30m x 30m x 5m) and Eclipse (30m x 30m x 5m). Parent block sizes were 4m X, 10m Y and 4m Z for resources and minimum sub cells were 2m X, 5m Y, Im Z. Block sizes are relative to drill density.
	Wireframes of lodes were used as hard boundaries to contain the interpolation. The wireframes were approximately based on 0.2 g/t Au cut-off grade.
	Block models were generated filling the 3D wireframes of the mineralised zones with cells. Bulk density was assigned using oxidation codes as per the database. Assay top cuts were applied, assays composited over 2.5m intervals, block models were estimated using a range of cut offs and anisotropic inverse distance cubed interpolation, under zonal control.
	Varying top cuts (up to 10 g/t Au) were applied to Eclipse and a top cut of 10 g/t Au was applied to Quicksilver.
	No assumptions are made to the recovery of by-products.
	The parent cell size of 4m (east), 10m (north) and 4m (vertical) was used on all deposits is deemed appropriate relative to drill data. Multiple compositing and interpolation passes were carried out using a range of cut-off grades with no ore loss or dilution. No assumptions were made regarding correlation between variables.
	The varying top cuts that were applied followed a series of processes including log-probability plots, Iterative tests, log histograms and cross section inspection. To check that the interpolation of the block model honoured the drill data, validation was carried out comparing the interpolated blocks to the sample composite data, the validation plots showed good correlation thus the raw drill data was honoured by the block model.



Criteria	Commentary				
Moisture	Tonnages and grades were estimated on a dry basis only.				
Cut-off Parameters	Operating cost estimates provided by KIN indicate a break even mill feed grade for deposits in the Quicksilver and Eclipse area is likely to be in the vicinity of 0.5 g/t Au.				
Mining Factors or Assumptions	There has been no previous mining at Quicksilver or Eclipse, however at Mertondale 5, which is located within the same stratigraphic sequence, disseminated sulphides in the ore zones can be associated with graphitic material (black shale). The metallurgical performance, which is an unknown factor, may be poorer in fresh rock. The breakeven mining grade (0.5 g/t Au) is an assumption based on KIN's mining consultants.				
Metallurgical Factors or Assumptions	Quicksilver and Eclipse are considered to be extensions of Tonto and it is anticipated that the metallurgy will be similar to that experienced at Tonto. For Tonto recoveries were high for oxide (mid-nineties) and transition (+90%), and high sixties for fresh. The lower recoveries experienced for fresh material in Tonto is due to the presence of pregrobbing graphitic shales. Testwork has shown that the use of modified activated carbon has increased the recovery.				
Environmental Factors or Assumptions	No historical mining has been conducted at Quicksilver or Eclipse, however former open pit operations within the Mertondale area (e.g. Mertondale 5), including waste rock landforms, have not demonstrated any impacts that cannot be managed in normal operations. Studies completed to date, on ore and waste characterisations for previous and potential mining and processing operations, have not identified any potential environmental impacts that cannot be managed by normal operations.				
Bulk Density	The following bulk density parameters, were used in the resource estimations by MS (2009):				
	Deposit Name	Oxide	Transition	Fresh	7
	Quicksilver	2.0	2.2	2.5	-
	Eclipse	2.0	2.2	2.5]
	Based on more recent da	ta the numbers	s may be slightly	conservative	
Classification	No new information had been obtained for the two deposits; Quicksilver and Eclipse. These two deposits were not re-modelled by CM since there had been no new material data obtained since 2009.				
	CM carried out an audit review of the 2009 Resource estimation work conducted by MS for Quicksilver and Eclipse. MS used a pseudo-probabilistic technique called the 'recovered fraction' methodology, which is a probabilistic technique that estimates the				



Criteria	Commentary
	volumetric proportion of each block likely to be above a particular cut-off grade. CM is familiar with this methodology as it had been used in several gold orebodies in the Eastern Goldfields, and after reviewing the models, deemed them to be compliant and appropriate for use in reporting of JORC 2012 Resources.
	Whilst the MS Resource estimation of Quicksilver and Eclipse, Forgotten was found to be acceptable, as no new data exists to confirm the veracity of the historic data (although a thorough analysis was carried out by MS of available data at the time), it is deemed prudent to re-classify Quicksilver and Eclipse from their MS Indicated classification to that of Inferred. It is recognised that this approach may be conservative in classification, however it is anticipated that any further new data is expected to validate the historic data as has been the case for all other deposits drilled to date by KIN in 2016-2017 to allow reclassification.
	For reporting purposes the 2009 MS models were also optimised using a gold price of AU\$2,200/oz and a revised cut-off grade of 0.5 g/t Au (which is lower than that used in the 2009 resource estimation) and is consistent with current resource reporting practice. As the data used by MS is not as comprehensive as that currently available for the other KIN deposits, and the methodology is different to that used by CM for other KIN deposits, it warrants reporting with separate Table 1 Reports.
Audits and Reviews	CM carried out an audit and review and determined that due to the quality of data not being comparable to that of other KIN deposit resources, the resources were classified as Inferred until further drilling data has been obtained.
Discussion of Relative Accuracy and Confidence	Due to the lack of QA/QC information the quality of pre Navigator drill hole assay is largely unknown, the limited data that is available indicates no serious problem however the reliability of the historic assay data cannot be adequately demonstrated.



Appendix J

JORC 2012 TABLE 1 REPORT RAESIDE PROJECT Forgotten Four and Krang

SECTION 1 – Sample Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	Commentary			
Sampling techniques	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1989. Data was obtained predominantly from Reverse Circulation ('RC') drilling (Forgotten Four 100% and Krang 95%) and Air Core ('Aircore' or 'AC') drilling (Krang 5%).			
	There is limited exploration data available prior to 1989, where it is believed that exploration was more focused on base metals, and not gold. Companies involved in the collection of the majority of the gold exploration data since 1989 and prior to 2014 include: Triton Resources Ltd ("Triton") 1989-1999, Triton and Sons of Gwalia Ltd ("SOG") 2000-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.			
	Kin Mining Ltd ("KIN") acquired the Raeside Project in 2014.			
	HISTORIC SAMPLING (1989-2008)			
	Drill samples were generally obtained from 1m downhole intervals and riffle split to obtain a 3-4kg representative sub-sample, which were submitted to a number of commercial laboratories for a variety of sample preparations methods, including oven drying (90-110°C), crushing (-2mm to -6mm), pulverizing (-75μm to -105μm), and generally riffle split to obtain a 30, 40 or 50 gram catchweight for gold analysis, predominantly by Fire Assay fusion, with AAS finish. On occasions, initial assaying was carried out using Aqua Regia digest and AAS/ICP finish, with anomalous samples re-assayed by Fire Assay fusion and AAS/ICP finish.			
	RC Drilling			
	The vast majority of Reverse Circulation (RC) drill samples were collected over 1m downhole intervals from beneath a cyclone and then riffle split to obtain a subsample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in pre-numbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear (wet samples) to obtain 3m or 4m composited intervals, with the single metre split subsamples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for gold analysis.			



Criteria	Commentary					
	Navigator obtained sub-samples from wet samples using the spear method. However only a few drill holes drilled by Navigator were included in the resource estimate (5 RC holes from a total of 302 holes).					
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.					
	There are no sample rejects available from RC drilling prior to 2008. Most drill sites have been rehabilitated and the sample bags removed and destroyed.					
	Aircore Drilling					
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop. Assay results from these samples are not used for resource estimation work, however they do sometimes provide a guide in interpreting geology and mineralisation continuity.					
	When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques, therefore Aircore sample assay results were only used for resource estimation work if the 1m sub-samples were obtained by riffle splitting of the primary sample, prior to placing on the ground.					
	There are no sample rejects available from AC drilling prior to 2008. Most drill sites have been rehabilitated and the sample bags removed and destroyed.					
	RAB Drilling					
	Sample return from Rotary Air Blast (RAB) drilling are collected from the annulus between the open hole and drill rods, using a stuffing box and cyclone. Samples are usually collected at 1 metre intervals and placed on the ground with 3-4kg subsamples collected using a scoop or spear. Up-hole contamination of the sample is commonplace, therefore this type of drilling and sampling is regarded as reconnaissance in nature and the samples indicative of geology and mineralisation. The qualities of samples are not appropriate for resource estimation work and are only sometimes used as a guide for interpreting geology and mineralisation.					
	KIN MINING (2014-2017)					
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.					
	COMMENT					
	For some earlier (pre-2004) drilling programs, RC and Aircore field composite samples were obtained at 2, 3, 4 or 5 metre downhole intervals.					
	For resource estimation work, RC and some Aircore drilling data was used where appropriate. RAB drilling data was not used for resource estimation but was sometimes used as an interpretative guide only.					
Drilling techniques	Numerous programs comprising various types of drilling have been conducted by several companies since 1985. The Raeside database encompasses the various deposits and prospects within the Raeside Project area, and consists of 1,805 drill holes for a total 134,278 metres, excluding RAB drilling, viz:					



Criteria	Commentary			
	Drill Type	Holes	Metres (m)	%(m)
	DD	12	1,906	1.4%
	RC	1,163	102,264	76.2%
	AC	630	30,108	22.4%
	Total	1,805	134,278	100%
		•		

HISTORIC DRILLING (1989-2008)

Diamond Drilling

Diamond drilling carried out in the Raeside area used industry standard 'Q' wireline techniques, with the core retrieved from the inner tubes and placed in core trays. Core sizes include NQ/NQ3 (Ø 45-48mm) and HQ/HQ3 (Ø 61-64mm). At the end of each core run, the driller placed core blocks in the tray, marked with hole number and depth. Core recovery was usually measured for each core run and recorded onto the geologist's drill logs. No Diamond Drill holes intersected the resource area.

RC Drilling

RC drilling used conventional reverse circulation drilling techniques, utilising a cross-over sub, until the late 1980s, when the majority of drilling companies started changing over to using face-sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm. Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination (e.g. smearing of grades), especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be more reliable and representative.

Aircore Drilling

Aircore drilling is a form of RC drilling, but generally utilizing smaller rigs and smaller air compressors, compared to standard RC drill rigs of the times. Aircore bits are hollow in the centre, with the kerf comprising cutting blades or 'wings' with tungstencarbide inserts. Drill bit diameters usually range between 75-110mm.

The majority of the Aircore drilling (100%) was conducted by T utilising suitable rigs with appropriate compressors (e.g. 250psi/600cfm). Aircore holes were drilled mostly into the weathered regolith using 'blade' or 'wing' bits, until the bit was unable to penetrate further ('blade refusal'), often near to the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate harder rock types. No AC holes were used in the resource calculation at Forgotten Four and only 11 AC holes were used for the Krang resource estimate representing 3% of mineralized intersections.



Commentary					
KIN MINING (2	KIN MINING (2014-2017)				
KIN has not conducted any drilling at the Forgotten Four or Krang deposits.					
The following tables summarise drilling totals for the Forgotten Four and Krang Project area, for DD, RC and AC only (i.e. excluding open-hole drilling such as RAB):					
Forgotten Four Resource Historical Drilling Summary (Pre-2009)					
Hole Type	Holes	Metres (m)	Metre Percentage (%)		
	KIN has not co The following t Project area, for	KIN has not conducted any The following tables summa Project area, for DD, RC an Forgotten Four Resource H	KIN MINING (2014-2017) KIN has not conducted any drilling at the Fo The following tables summarise drilling total Project area, for DD, RC and AC only (i.e. e Forgotten Four Resource Historical Drilling	KIN MINING (2014-2017) KIN has not conducted any drilling at the Forgotten Four or Krang deposit The following tables summarise drilling totals for the Forgotten Four and Project area, for DD, RC and AC only (i.e. excluding open-hole drilling sufference Four Resource Historical Drilling Summary (Pre-2009)	

Hole Type	Holes	Metres (m)	Metre Percentage (%)
DD	0	0	0 %
RC	147	11,009	97 %
AC	7	332	3 %
Total	154	11,341	100 %

Krang Resource Historical Drilling Summary (Pre-2009)

Hole Type	Holes	Metres (m)	Metre Percentage (%)
DD	0	0	0 %
RC	253	22,085	86 %
AC	84	3,648	14 %
Total	3387	25,733	100%

RC drilling is the dominant drill type at all sites. RC drilling information is generally described in varying detail in historical reports to the DMP, including drilling companies used and drilling rig types, however it's not all recorded in the database supplied. Review of the historical reports indicates that reputable drilling companies were typically contracted and the equipment supplied was of an acceptable standard for those times (Schramm T685 rig using 5.5 inch face sampling hammer with an air capacity of 1900cfm at 750psi). During the 1990s, and 2000s, suitable large drill rigs with on-board compressors were probably complimented with auxiliary and booster air compressors for drilling to greater depths and/or when groundwater was encountered.

When drilling under dry conditions, Aircore samples should be of a comparable quality to RC samples, when implementing same sampling techniques.



Criteria	Commentary			
Drill sample recovery	HISTORIC DRILLING (1989-2008)			
	RC Drilling			
	There is limited information recorded for sample recoveries for historical RC and Aircore drilling. However there has been an improvement in sample recoveries and reliability following the introduction of face sampling hammers and improved drilling technologies and equipment, since the mid-1980s.			
	KIN MINING (2014-2017)			
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.			
	COMMENT			
	Due to the lack of detailed information in the database regarding historic (pre-2009) Aircore and RC drilling, no quantitative or semi-quantitative impression of sample recovery or sample quality is available. Given that much of the drilling at Raeside was conducted by the same company (Triton) and at the same time as that carried out for the Forgotten Four deposit, where it is assumed to be satisfactory given that the Forgotten Four deposit was mined by Triton to a depth of 40-45 metres by open pit methods. This suggests that the amount of metal recovered was probably not grossly different from pre-mining drill data based expectations.			
	During Navigators drill programs wet samples were spear sampled instead of riffle split. This is regarded as poor sampling procedure and these samples are regarded as unreliable however the total number of wet samples is considered to be very low.			
	No indication of sample bias is evident nor has it been established. That is, no relationship has been observed to exist between sample recovery and grade.			
Logging	HISTORIC DRILLING (1989-2008)			
	The logging data coded in the database uses at least three different lithological code systems, a legacy of numerous past operators (Triton, SOG & Navigator). Correlation between codes is difficult to establish, however it can be achieved with effort. Based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.			
	Navigator's very limited RC and Aircore logging was entered on a metre by metre basis, recording lithology, alteration, texture, mineralisation, weathering and other features. The information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.			
	The entire length of all drillholes are logged in full from surface to bottom of hole.			
	Logging is qualitative on visual recordings of lithology, oxidation, colour, texture and grain size.			
	Logging of mineralogy, mineralisation and veining is quantitative.			
	KIN MINING (2014-2017)			
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.			



Criteria	Commentary
	COMMENT
	KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one. This is an ongoing process and is not yet completed.
	The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies and metallurgical studies.
	Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, veining, and in addition, logging of diamond drilling included geotechnical data, RQD and core recoveries.
	For the majority of historical drilling (pre-2009), the entire length of drillholes have been logged from surface to 'end of hole'.
Sub-sampling techniques	HISTORIC DRILLING (1989-2008)
and sample preparation	Historical reports for drilling programs prior to 2004, are not always complete in the description of sub-sampling techniques, sample preparation and quality control protocols.
	RC Drilling
	Prior to 1995, limited historical information indicates most RC sampling was conducted by collecting 1m samples from beneath a cyclone and passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. RC sampling procedures are believed to be consistent with the normal industry practices at the time. The vast majority of samples were dry and riffle split, however spear or tube sampling techniques were used for wet samples.
	Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.
	The vast majority of Reverse Circulation (RC) drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a subsample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in pre-numbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, the single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
	Navigator obtained sub-samples from wet samples using the spear or tube method.
	Data relating to historical wet samples is not available, however the number of wet samples involved is considered to be relatively low, and not material.
	samples involved is considered to be relatively low, and not material.



Criteria	Commentary
	There are no sample rejects available from RC drilling prior to 2008. Most drill sites have been rehabilitated and the sample bags removed and destroyed.
	Navigator included standards and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples.
	Aircore Drilling
	The procedures for sampling of Aircore drilling is generally the same as for RC drilling, although in earlier (pre-2004) programs, the majority of the 1m samples were mostly stored directly on the ground prior to sampling with a scoop.
	While QC protocols were not always comprehensive, the results indicate that assay results from Navigators exploration programs were reliable. Results from pre-Navigator operators are regarded as consistent with normal industry practices of the time.
	KIN MINING (2014-2017)
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.
	COMMENT
	In the total Raeside database an unknown laboratory processed +50% of sample analysis with Genalysis and Amdel (Kalgoorlie), Ultra Trace (Perth) and LLAL (Leonora) laboratories used for remaining sample analysis. Prior to 2009, duplicate samples were not routinely collected and submitted from RC and Aircore drilling to the same laboratory consequently overall sampling and assay precision levels can't be quantified for that period. Since 2009, Navigator adopted a stricter sampling regime with the submission of duplicate samples at a rate of 1 for every 50 primary samples.
	Samples sizes are considered appropriate for this style of gold mineralisation and is an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia.
Quality of assay data and laboratory tests	Numerous assay laboratories and various sample preparation and assay techniques have been used over the projects history. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.
	HISTORIC DRILLING (1989-2008)
	For assay data obtained prior to 1995, the incomplete nature of the pre-1995 data results could not be accurately quantified in terms of the data derived from the combinations of various laboratories and analytical methodologies.
	During 1995 Triton described the sample preparation process as hammer milling to -1mm, riffle splitting to 0.5kg then pulverizing to a nominal 90% passing -75µm prior to Fire assay analysis.



Criteria	Commentary
	In the initial exploration stages, Aqua Regia digest with AAS/ICP finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS/ICP finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 30, 40 or 50 gram catchweights) with AAS/ICP finish.
	Limited information is available regarding check assays for drilling programs prior to 2004.
	During 2004-2008, Navigator the majority of assaying for RC and Aircore samples using Fire Assay fusion on 40 gram catchweights and AAS/ICP finish.
	Post 2009 Navigator regularly included field duplicates, Certified Reference Material (CRM) standards and blanks with their sample batch submissions to the laboratories at average ratio of 1 in every 20 samples.
	KIN MINING (2014-2017)
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.
	COMMENT
	The nature and quality of the assaying and laboratory procedures used are considered to be satisfactory and appropriate for use in mineral resource estimations.
	Fire Assay fusion or Aqua Regia digestion techniques were conducted on diamond, RC and Aircore samples, with AAS or ICP finish.
	Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay technique with AAS or ICP finish. AAS and ICP methods of detection are both considered to be suitable and appropriate methods of detection.
	Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.
	No other analysis techniques have been used to determine gold assays.
Verification of sampling and assaying	Verification of sampling and assaying techniques and results prior to 2004 has limitations due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories, over a twenty year period.
	An independent validation check by McDonald Speijers (2009) resulted in 25 holes (12 being positioned at Forgotten Four and Krang) being selected at random for which 21 original hardcopy logs could be located and 20 corresponding lab reports. Correlation between this data was good.
	No quality control assay checks were conducted by Triton. The reliability of the bulk of the assay data used in the resource estimation, originally sourced from Triton (97.5%), can't be confirmed. QA/QC procedures were regularly conducted by Navigator and SOG however this data comprises a very small portion of the resource estimation.



Criteria	Commentary
	COMMENT
	There is always a risk with legacy data that sampling or assaying biases may exist between results from different drilling programs due to differing sampling protocols, different laboratories and different analytical techniques.
	There has been no adjustments or calibrations made to the assay data recorded in the supplied database.
Location of data points	HISTORIC DATA (1989-2008)
, , , , , , , , , , , , , , , , , , , ,	A local survey grid a mine grid were originally established in 1989 by Triton. During 2000-2004, SOG transformed the surface survey data firstly to AMG (GDA84 datum, Zone 51) and subsequently to MGA (GDA94 datum, Zone 51).
	Drilling was carried out historically using various local grids. Since 2004, All Navigators drill hole collars were surveyed on completion of drilling in the MGA grid using RTK-DGPS equipment by licensed surveyors.
	KIN MINING (2014-2017)
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.
	KIN supplied one digital terrain model (DTM) of the topography constructed from historic drill hole collar data. The accuracy of the DTM is considered sufficient and appropriate for resource estimations.
	COMMENT
	The accuracy of the drill hole collar and downhole data are located with sufficient accuracy for use in resource estimation work
	Considering the history of grid transformations and surviving documentation, there might be some residual risk of error in the MGA co-ordinates for old drillholes, however this is not considered to be material for the resource estimations.
Data spacing and distribution	Drill hole spacing patterns vary considerably throughout the Project area, and is deposit specific, depending on the nature and style of mineralisation being tested.
	The following table summarises the general range of drillhole collar spacings and drilling grid line spacings for each of the resource areas.
	Passures Drill Crid Specing Drillbole Specing
	Aross from (m) to (m) from (m) to (m)
	Forgotton Four 10 25 10 25



exablish an acceptable degree eral resource estimations and ew historical compositing of 3m, 4m, and a few 5m and ay intervals are 1 metre
, 3m, 4m, and a few 5m and ay intervals are 1 metre fferent local grids and inclined was conducted on 10m
was conducted on 10m
acing at the outer edges of
resource area however the s, some areas have been s, holes are predominantly
a NNW to NW trend. The ain an unbiased location of mineralisation.
ipping shear zones within the mineralisation is confined to onaceous shale that dips (-40°
ips 50º to 60º east. At Krang lanking mineralisation is
gonal to the strike and dip of
ence sub-parallel to the rally related to zones of local ductile deformation.
ntation is considered minimal. data thus far.
ator (pre-2004) drill samples.
total) were collected from the site. Samples were collected to Navigator's secure yard in ed (drillhole and sample to 'bulkabag sacks'. The tor's yard, until transporting to the samples to be e, to delivery to the laboratory.



Criteria	Commentary
	KIN MINING (2014-2017)
	KIN has not conducted any drilling at the Forgotten Four or Krang deposits.
Audits or reviews	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to today's current standards. A review of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to the best practice industry standards of the day.
	A review of the Raeside Project's database, drilling and sampling protocols, etc., was conducted and reported on by independent geological consultants MS in 2009. Their report highlighted issues with bulk density and QA/QC analysis of the database.
	KIN is in the process of completing validation of all historical logging data and to standardise the logging code system by incorporating the SOG and Navigator logging codes into one, and converting all historical logging into a standardized code system. This is an ongoing process and is not yet completed.
	Drilling, Sampling methodologies and assay techniques used in the historical drilling programs are considered to be appropriate and were conducted to mineral exploration industry standards of the day.
	However largely due to the current data for Forgotten Four and Krang not being of comparable quality to the data now available on other projects at Raeside (Leonardo and Michelangelo) a decision has been taken by CM to reclassify the resource estimates at Forgotten Four and Krang into the Inferred category.



SECTION 2 – Reporting of Exploration Results

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

Criteria	Commentary
Mineral tenement and land tenure status	The Raeside Project area includes granted mining tenement M37/1298, centered some 10km ESE of Leonora. The Forgotten Four and Krang deposits are located on M37/1298. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. The Raeside Project is managed, explored and maintained by KIN, and constitutes a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields.
	The following royalty payment may be applicable to the areas within the Raeside Project that comprise the deposits being reported on:
	 Messers Blitterswyk, Halloran & Prugnoli, in respect of M37/1298 may have a - \$1.00 per tonne of ore mined and milled royalty for the extraction of gold or other saleable mineral.
	There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.
Exploration done by other parties	Gold was first discovered in the Leonora district about 1896 and it is likely that the first prospecting activity in and around the Raeside Project area would have occurred at about that time. Initial production from Raeside was a small underground operation in the early 1970's when 60t @ 6.0 g/t Au was produced.
	In 1989, Triton Resources Limited (Triton) entered into an arrangement with local prospectors (Halloran and Prugnoli) to acquire some tenements in what is known as the Forgotten Four area. The Triton Raeside Joint Venture mined the Forgotten Four (1990-1992) to 45m depth. Production statistics include:
	1990: Mined and processed 6,280t @ 5.18 g/t Au (959oz) at the Tower Hill plant in Leonora with 91.7% recovery. 1992: Mined and processed 40,537t @ 4.14 g/t Au (4,993oz) at the Harbour Lights plant in Leonora with 92.57% recovery. Finally a 2,822t parcel of ore @ 4.47 g/t Au (389oz) was sold to Harbour Lights. In 1992 remnant ore from low grade stockpiles totaling 6,200t @ 1.0 g/t Au (199oz) was processed. Thus total production from the nearby Forgotten Four open cut yielded 55,839t @ 3.92 g/t Au (7,030oz) with an estimated recovery of approximately 92%. None of the reported production figures have been confirmed from official Mines Department records.
	The larger Raeside Project originated in 1992, when Triton (70%) formed a joint venture with Sabre Resources N.L. (Sabre) (20%) and Copperwell Pty Ltd (Copperwell), a subsidiary of Cityview Energy Corporation (10%). The three companies amalgamated their tenement holdings in the area and the joint venture applied for additional tenements.
	Until sometime in 1994 the project was managed on behalf of the joint venture by Westchester Pty Ltd. After mid-1994 Triton appears to have taken over as project manager.
	Before 1995, drilling programs were apparently dominated by first-pass rotary air blast (RAB) drilling, with local reverse circulation (RC) rotary or percussion drilling to follow up in places where mineralisation was detected. Because of RAB drilling difficulties (clays and water) air core (AC) drilling was subsequently adopted as the first-pass method.



Criteria	Commentary
	Triton's drilling programs were suspended in June 1995 while a major review of results was undertaken and a pre-feasibility study conducted. Drilling resumed in about April 1995.
	Another economic evaluation of the project was undertaken by Triton in 1998-1999 which indicated that a stand-alone operation was not possible, but that the project could be viable as a supplementary feed source for an existing, nearby process plant.
	Sons of Gwalia Limited (SOG) farmed in to the project in January 2000 and subsequently acquired full ownership. They carried out limited amounts of predominantly RC drilling, aimed mainly at confirming previous results from the Michelangelo deposit.
	Navigator Resources Ltd (Navigator) acquired the Raeside project from the SOG receiver in September 2004. However subsequent work by Navigator has focused mainly on other projects in the Leonora district, with only very small amounts of additional drilling having been completed in the Raeside area.
	In March 2009, Navigator commissioned McDonald Speijers to complete a Mineral Resource estimate for all the Raeside deposits Michelangelo, Leonardo, Forgotten Four and Krang). McDonald Speijers (2009) reported a JORC 2004 compliant Mineral Resource undiluted estimate, at a low cutoff grade of 0.7g/t Au, totaling 280,000t @ 2.51 g/t Au (22,600oz), comprising total Indicated Resources of 100,000t @ 2.74 g/t Au (15,900oz) and total Inferred Resources of 100,000t @ 2.08 g/t Au (6,700oz).
	KIN acquired the Raeside Project from Navigator's administrator in 2014.
Geology	The Raeside Project area is located 10km ESE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
	The regional geology comprises a sequence of Archaean greenstone lithologies. The area is underlain by very poorly exposed rocks units. The gold deposits at Raeside occur within or close to the margins of a large NW (320°) trendy body of dolerite within a sequence of sediments and volcanoclastic rocks near the southern margin of porphyry intrusive. Most of the gold recovered from mining the Forgotten Four mine was from shear bound quartz vein stockworks or sheeted veins and/or quartz carbonate veins within a narrow carbonaceous shale (dipping 40°-60° east) lying within a granophyric quartz dolerite and carbonate/sericite/sulphide altered wall rocks.
	Mineralised zones at Forgotten Four are mainly hosted by mafics however the uppermost (strongest) zone of mineralisation appears to be positioned just below the lower contact of overlying sediments, and one of the lower zones appear to coincide with a sporadically developed sediment wedge in the mafic rocks. The sediments are also mineralised. At the Forgotten Four the strongest zone of mineralisation is just below the lower contact with the overlying carbonaceous shale and sediments. The bulk of the mineralisation is hosted by dolerite along the upper contact with the interbedded shale and the quartz diorite. There are at least two lodes at Forgotten Four, one of which was partly mined by Triton (55,839t @ 3.92 g/t Au for 7,030oz Au) the second lode occurs in the hanging wall to the south.
	Mineralisation at Krang appears to be broadly related to the metasediments however, once again, no convincing geological boundaries are defined. Along the eastern side of the deposit mineralisation appears to be broadly associated with the contact zones between mafic and metasedimentary units. Some of the mineralisation is associated with massive quartz-pyrite-arsenopyrite lodes which display high but erratic grade. Gold mineralisation occurs internal to the quartz dolerite unit which displays varying dips ranging from 30° to 60° to the northeast; interpretation suggests two different structural



Criteria	Commentary
	styles. Mineralisation occurs in at least four separate pods over a continuous strike length of about 700m.
	Geological structure is obscured by the lack of outcrop but the variation of the mineralisation intensity suggests a considerable level of structural complexity. The Raeside area is truncated by splay faults associated with the Keith Kilkenny Lineament which roughly trends northwest. Interpretation suggests that these splays and the dolerite contact are the preferred host structure and preferred host lithology. In some areas, closer spaced drilling was carried out to provide a high level of confidence in the geological interpretations.
Drill hole Information	Material drilling information used for the resource estimation has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2008) and previous owners.
Data Aggregation methods	When exploration results have been reported for the Forgotten Four or Krang resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without any high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the historic reports to ASX.
	There is no reporting of metal equivalent values.
Relationship Between Mineralisation widths and intercept lengths	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling. The majority of historic drill holes within the resource areas are inclined at -60° towards 280° (west). Drill intercepts have been reported in the past as downhole widths, not true widths. Accompanying dialogue to reported intersections normally describes the attitude of the mineralisation.
Diagrams	A plan and type sections for each resource area are included in the main body of the report.
Balanced Reporting	Public reporting of exploration results by past explorers for the resource areas are considered balanced and included representative widths of low-grade and high-grade assay results.
Other Substantive exploration data	Comments on bulk density and metallurgical information is included in Section 3 of this Table 1 Report. There is no other new substantive data acquired for the resource areas being reported on. All meaningful and material information is or has been previously reported.
Further work	The potential to increase the existing resources is viewed as probable. Further work does not guarantee that an upgrade in the resource would be achieved, however KIN intend to drill more holes at the Forgotten Four and Krang deposits with the intention of increasing the Raeside Project's resources and converting the Inferred portions of the resources to the Indicated category.



SECTION 3 – Estimation and Reporting of Mineral Resources

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

Criteria	Commentary
Database Integrity	All sample data, subject of this report and used for resource estimation work, is obtained from various drilling programs carried out since 1989. Data was obtained predominantly from Reverse Circulation (RC) drilling, and to a lesser extent, diamond core (Diamond) drilling and Air Core (Aircore) drilling.
	Companies involved in the collection of the majority of the gold exploration data since 1989 and prior to 2014 include: Triton Resources Ltd ("Triton") 1989-1999, Triton and Sons of Gwalia Ltd ("SOG") 2000-2004, and Navigator Resources Ltd ("Navigator") 2004-2014.
	The bulk of the data has not been fully verified regarding quality, accuracy and reliability.
	Verification of sampling and assaying techniques and results prior to 2004 has limitations due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories, over a twenty year period.
	No quality control assay checks were conducted by Triton. The reliability of the bulk of the assay data used in the resource estimation, originally sourced from Triton (97.5%), can't be confirmed. QA/QC procedures were regularly conducted by Navigator and SOG however this data comprises a very small portion of the resource estimation.
	An independent validation check by McDonald Speijers (2009) resulted in 25 holes (12 being positioned at Forgotten Four and Krang) being selected at random for which 21 original hardcopy logs could be located and 20 corresponding lab reports. Correlation between this data was good.
	There is always a risk with legacy data that sampling or assaying biases may exist between results from different drilling programs due to differing sampling protocols, different laboratories and different analytical techniques.
	The data base displays some discrepancy (which is expected considering the age of the information), particularly geological logs but there is a low rate of error in the sample and assay date base. Even though incomplete the database has been accepted as reliable and only minor discrepancies were noted. However there is not enough information in the old drillhole assay files to determine that the data is completely accurate and reliable thus the classification of the resource has been downgraded to Inferred, even though in some places the drill spacing is relatively close.
	There has been no adjustments or calibrations made to the assay data recorded in the supplied database.
Site Visit	KIN's geological team have conducted multiple site visits.
	Dr Spero (Competent Person) of Carras Mining Pty Ltd ("CM") was involved in the Leonora area at the Harbour Lights and Raeside areas during the 1980s, and is familiar with the geology and styles of mineralisation within the Raeside Project area.



Criteria	Commentary
	Messrs Mark Nelson and Gary Powell (Competent Persons) also conducted site visits to the resource areas.
Geological Interpretation	The Raeside Project area is located 10km ESE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
	Mineralised zones at Forgotten Four are mainly hosted by mafics however the uppermost (strongest) zone of mineralisation appears to be positioned just below the lower contact of overlying sediments, and one of the lower zones appear to coincide with a sporadically developed sediment wedge in the mafic rocks. The sediments are also mineralised. At the Forgotten Four the strongest zone of mineralisation is just below the lower contact with the overlying carbonaceous shale and sediments. The bulk of the mineralisation is hosted by dolerite along the upper contact with the interbedded shale and the quartz diorite. There are at least two lodes at Forgotten Four, one of which was partly mined by Triton (55,839t @ 3.92 g/t Au for 7,030oz Au) the second lode occurs in the hanging wall to the south.
	Mineralisation at Krang appears to be broadly related to the metasediments however, once again, no convincing geological boundaries are defined. Along the eastern side of the deposit mineralisation appears to be broadly associated with the contact zones between mafic and metasedimentary units. Some of the mineralisation is associated with massive quartz-pyrite-arsenopyrite lodes which display high but erratic grade. Gold mineralisation occurs internal to the quartz dolerite unit which displays varying dips ranging from 30° to 60° to the northeast; interpretation suggests two different structural styles. Mineralisation occurs in at least four separate pods over a continuous strike length of about 700m.
	Alternative interpretations of the mineralisation may have an effect on the estimation, however it is unlikely that there would be a gross change in the interpretation, based on current information.
Dimensions	Forgotten Four: 112 holes intersected mineralisation amounting to 1,981m of intersected mineralisation over a tested area covering 520m of strike and 350m width.
	Krang: 201 holes intersected mineralisation amounting to 2,629m of intersected mineralisation over a tested area covering 650m of strike and 500m width.
	The ore zones are obviously much narrower but no specific numbers are quoted.
Estimations and Modelling Techniques	The resource estimate was obtained using a 3D block model "Recovered Fraction" (RF) technique. This is a pseudo probabilistic method. Block models were generated filling the 3D wireframes of the mineralised zones with cells. Bulk densities were assigned using oxidation codes as per the data base, assay top cuts were applied, and assays were composited over 2m intervals. Block models were estimated using a range of cut offs,



Commentary
and anisotropic inverse distance cubed interpolation was carried out, under zonal control. The method was implemented in Datamine
A search radii of 50m, 40m and 2m was used for dip, strike and cross-dip for Forgotten Four, and 20m, 30m and 3m for Krang. Search radii was determined relative to drill density.
Parent block sizes were 4m (X), 12.5m (Y) and 4m (Z) for Krang, and 4m (X), 10m (Y) and 4m (Z) for Forgotten Four. Sub cells were 2m (X), 6.25m (Y) and 1m (Z) for Krang and 2m (X), 5m (Y) and 1m (Z) for Forgotten Four. Blocks are deemed appropriate relative to drill data.
Estimates were made with no loss or dilution.
Top cuts selected ranged from 5-12g/t Au for Forgotten Four and 4-16g/t Au for Krang.
Triton mined a trial parcel at Forgotten Four in 1990 (6,280t @ 5.18g/t Au) then extended the open pit to 40m in 1992 (43,359t @ 4.15g/t Au and a low grade stockpile of 6,200t @ 1.0g/t Au), processing the ore at the Harbour Lights plant.
No by-products are to be recovered.
No assumptions are made regarding selective mining units.
No assumptions are made regarding correlation between variables.
Wireframes of lodes based on a 0.2 g/t cut-off grade envelop were used as hard boundaries to constrain the interpolation. Drillhole lithology descriptions are limited and contradictory, thus lodes were constrained by grade and quartz content.
Varying top cuts were applied following a series of processes including log-probability plots, Iterative tests, log histograms and cross section inspection.



Mining Factors or Assumptions Mining of Forgotten Four (1990-1992) encountered the presence of graphithe deeper fresher portions of the open pit, resulting in lower metallurgical However metallurgical testwork in 1995 showed recoveries in the high nineties for transition and krang oxide returned a recovery in the high nineties for oxide material from testwork. Graphitic black shale may be preg-robbing during processing; arsenopyrite metallurgical issue in transition and fresh ore zones. Environmental Factors or Assumptions deposits in the Raeside area is likely to be in the vicinity of 0.5g/t Au. Previous mining at Forgotten Four is mostly in the oxide/transition zone. The performance, which is an unknown factor, may be poorer in fresh rock. Mining of Forgotten Four (1990-1992) encountered the presence of graphit the deeper fresher portions of the open pit, resulting in lower metallurgical However metallurgical testwork in 1995 showed recoveries in the high nine and historical mining showed recoveries in the low nineties for transition and Krang oxide returned a recovery in the high nineties for oxide material from testwork. Graphitic black shale may be preg-robbing during processing; arsenopyrite metallurgical issue in transition and fresh ore zones. Environmental Factors or Assumptions The Forgotten Four open pit and its associated waste rock landforms are of the performance, which is an unknown factor, may be poorer in fresh rock.	ata, the		
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by the current mineral resource estimate work. Historical mining at Forgotten Four, including waste rock landforms have r demonstrated any impacts that cannot be managed in normal operations. completed to date, on ore and waste characterisations for previous and proand processing operations, have not identified any potential environmenta cannot be managed by normal operations.	Graphitic black shale may be preg-robbing during processing; arsenopyrite may be a		
Bulk Density In 2009, McDonald Speijers completed a resource estimation for the Raes	by the current mineral resource estimate work. Historical mining at Forgotten Four, including waste rock landforms have not demonstrated any impacts that cannot be managed in normal operations. Studies completed to date, on ore and waste characterisations for previous and potential mining and processing operations, have not identified any potential environmental impacts that		
stating that Leonardo and Krang are more like Forgotten Four than Michel of host lithologies, and therefore adopted the reported mining-based value historical Forgotten Four open pit for Leonardo, Krang and Forgotten Four	In 2009, McDonald Speijers completed a resource estimation for the Raeside project, stating that Leonardo and Krang are more like Forgotten Four than Michelangelo in terms of host lithologies, and therefore adopted the reported mining-based values from the historical Forgotten Four open pit for Leonardo, Krang and Forgotten Four. The following bulk density parameters were used for Forgotten Four and Krang:		
Deposit Name Oxide Transition Fresh	Krang:		
Forgotten Four 1.9 2.35 2.65	Krang:		
Krang 1.9 2.35 2.65	Krang:		



Criteria	Commentary
Classification	No new information had been obtained for the two deposits; Forgotten Four and Krang. These two deposits were not re-modelled by CM since there had been no new material data obtained since 2009.
	CM carried out an audit review of the 2009 Resource estimation work conducted by MS for Forgotten Four and Krang. MS used a pseudo-probabilistic technique called the 'recovered fraction' methodology, which is a probabilistic technique that estimates the volumetric proportion of each block likely to be above a particular cut-off grade. CM is familiar with this methodology as it had been used in several gold orebodies in the Eastern Goldfields, and after reviewing the models, deemed them to be compliant and appropriate for use in reporting of JORC 2012 Resources.
	Whilst the MS Resource estimation of Forgotten Four and Krang was found to be acceptable, as no new data exists to confirm the veracity of the historic data (although a thorough analysis was carried out by MS of available data at the time), it is deemed prudent to re-classify Forgotten Four and Krang from their MS Indicated classification to that of Inferred. It is recognised that this approach may be conservative in classification, however it is anticipated that any further new data is expected to validate the historic data as has been the case for all other deposits to allow reclassification.
	For reporting purposes the 2009 MS models were also optimised using a gold price of AU\$2,200/oz and a revised cut-off grade of 0.5 g/t Au (which is lower than that used in the 2009 resource estimation) and is consistent with current resource reporting practice. As the data used by MS is not as comprehensive as that currently available for the other deposits, and the methodology is different to that used by CM, it warrants reporting with separate Table 1 Reports.
Audits and Reviews	There have been no external audits or reviews. CM carried out an audit and review of Forgotten Four and Krang and determined that due to the quality of data not being comparable to that for other KIN deposits, the resources were classified as Inferred until further drilling data is obtained.
Discussion of Relative Accuracy and Confidence	Due to the lack of available QA/QC information the quality of pre Navigator drill hole assay data is largely unknown, the limited data that is available indicates no serious problem however the reliability of the historic assay data cannot be adequately demonstrated.



Table 1. Section 4 – Estimation and Reporting of Ore Reserves

Criteria	JORC Code Explanation	Commentary	
Mineral Resource estimate for conversion to Ore Reserves	Description of the Mineral resource Estimate used as a basis for the conversion to an Ore Reserve.	Mineral Resource Estimates have been used for to determine an Ore Reserve for: Bruno-Lewis Kyte Helens Rangoon Fiona Mertondale East (Mertons Reward, Mertondale 2/3/4) Eclipse Mertondale 5 Tonto, and Quicksilver	
	Clear statement as to whether the Mineral Resources are reported additional to. Or inclusive of, the Ore Reserves.	The Mineral Resource Estimate stated are reported inclusive of the Ore Reserve estimate.	
Site Visits	Comment on any site visits undertaken by the Competent Person and the outcome of those visits.	The Competent Person has not visited the site.	
	If no site visits have been undertaken indicate why this is the case.	The Competent Person is comfortable relying on reports from other independent consultants, and other Entech staff, who have visited site and other operations in the area respectively.	
Study status	The type and level of study undertaken to enable Mineral Resources to be converted to Ore Reserves	KIN has been working with its technical advisors to prepare a Pre-Feasibility Study for the Cardinia Gold Project. All components of the study are completed.	
	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 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.	Modifying Factors based on information currently available have been applied to the Pre-Feasibility Study. The results of the study indicate that the Cardinia Gold Project mine plan is technically achievable and economically viable.	



Criteria	JORC Code Explanation	Commentary
Cut-off parameters	The basis of the cut-off grade(s) or quality parameters applied	The following inputs were used to estimate operating cost per tonne of ore treated, for all potential open pit mines: Mining Costs (drill & blast, load & haul) Surface haulage cost Processing cost Grade control cost General & Administration costs Royalties Sustaining Capital Operating costs derived were used in the optimisation of the beforementioned deposits and the "Ore" and "Waste" categorisation of material from the optimisation algorithms was used to determine reportable "Ore" and "Waste" tonnes
Mining factors or assumptions	The method and assumptions used as reported in the Prefeasibility 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).	For all Open Pit Mining Ore Reserve estimations: A range of pit shells were generated by application of pit optimisation software to the Mineral Resource block models. Pit shells to be used as the basis for pit design were selected by considering NPV, contained gold and estimated cost per ounce of gold produced. The optimisations have been used to identify ultimate pit dimensions and pit stages. The Ore Reserve has been based on detailed open pit designs. All pit designs and scheduling has been completed by Entech Pty Ltd.
	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.	The mining method that is applied is conventional drill, blast, load and haul from Open Pit mines. These methods are the same as many other similar operations within the West Australian Goldfields. The mining equipment applied to the operation is sized to produce safe, efficient, and productive mining.
	The assumptions made regarding geotechnical parameters (e.g. pit slopes, stope sizes, etc.), grade control, and pre-production drilling.	The Pre-feasibility Study incorporates geotechnical reviews by Peter O'Brien & Associates who have sufficient data from other areas to have adequate understanding of the sites. This is confirmed by Mr Emmanuel Deligeorges having visited all the mining areas. Mr O'Brien only visited the Cardinia sites. The information used for the geotechnical guidance included reviewing previously mined pits at Mertondale, Bruno and the Lewis trial oxide pit completed in July 2016. The information used for the geotechnical study included current geological interpretations; review of the open pit site areas; wall angles and bench widths have been largely determined by new geotechnical diamond drilling and televiewing and adopted as per by Peter O'Brien recommendations; review of selected diamond drill core photos and physical core.
	The major assumptions made and Mineral Resource model used for pit and stope optimisation (if appropriate).	The Ore Reserve estimate is based on Mineral Resources Estimates as announced by Kin Mining Ltd on the 17 th April 2019, which was further updated (for Bruno Lewis area) on the 9 th of July 2019.



Criteria	JORC Code Explanation	Commentary
	The mining dilution factors used.	The following dilution factors were applied to ore blocks within the respective pits: Bruno-Lewis – 10% Kyte – 10% Helens – 10% Rangoon Fiona – 10% Mertondale East – 15% Eclipse – 5% Mertondale 5 – 5% Tonto – 5% Quicksilver – 5%
	The mining recovery factors used.	The following mining recovery factors were applied to ore blocks within the respective pits: Bruno-Lewis – 95% Kyte – 100% Helens – 95% Rangoon Fiona – 95% Mertondale East – 95% Eclipse – 95% Mertondale 5 – 95% Tonto – 95% Quicksilver – 95%
	Any minimum mining widths used	The open pits have been designed to suit 125 tonne excavators, and 90 tonne dump trucks. A minimum operational mining width of 20 m has been assumed for this fleet.
	The manner in which inferred Mineral resources are utilised in mining studies and the sensitivity of the outcome to their inclusion.	Pre-Feasibility Study level mine designs were created to support the Ore Reserve estimate. Only minor Inferred Mineral Resource occurs within these mine designs. The Ore Reserve is technically and economically viable without the inclusion of Inferred Mineral Resource. The Pre-Feasibility Study Production Target includes a more substantial fraction of Inferred Mineral Resource.
	The infrastructure requirements of the selected mining methods.	The following infrastructure will be required and is included in the Pre-Feasibility Study Capital and Operating cost estimate: • Tailings Storage Facility as an Integrated waste Landform (IWL) • Waste Rock Landform • Administration buildings, Stores and maintenance facilities, • Power generation and Reticulation, • Process water supply facilities, bore fields • Accommodation village and associated access road, • Processing Plant, • Site access road



Cuitaria IOBC Code Explanation Commentary			
Section 4: Estimation and Reporting of Ore Reserves			

Criteria	JORC Code Explanation	Commentary
		Mining haul roads ROM Ore pad.
Metallurgical factors or assumptions	The metallurgical process proposed and the appropriateness of that process to the style of mineralisation	The metallurgical process proposed is a conventional carbonin-leach (CIL) process. The plant has been designed to 1.5Mtpa by Como Engineers. The Cardinia ores are interpreted to be a combination of early epithermal (potassic) alteration style mineralisation overprinted by later stage Orogenic gold mineralisation. The metallurgical testwork and process plant design and selection reflects the experience of Independent Metallurgical Operations (IMO) and Como Engineers in designing and operating a number of recent plants treating this style of mineralisation.
	Whether the metallurgical process is well-tested technology or novel in nature.	The metallurgical process proposed is a well-tested and proven technology operating at numerous sites on similar ores in the Eastern Goldfields of Western Australia.
	The nature, amount and representiveness of metallurgical test work undertaken, the nature of the metallurgical domaining applied and the	Metallurgical process data relating to each respective deposit has been determined by a review of historical production and laboratory test work results ranging from 1987-2019.
	corresponding metallurgical recovery factors applied.	The recoveries used for this Ore Reserve statement are based on independent test work carried out by Independent Metallurgical Operations (IMO) in 2017 and 2019 and Ammtec Mineral Consultants (2010)
		Metallurgical data reviewed shows that the proposed processing methods is expected to produce high gold recovery in the oxide and transitional material. Lower recoveries will be experienced for fresh material at all deposits. The PFS delivered an overall average metallurgical recovery of 92.4%.
		Previous Test work indicates quantities of preg-robbing ores in Fresh material from the Tonto deposit. No Tonto Fresh material has been included in the Ore Reserve Estimate.
		Test work has shown the presence of pyrite, arsenopyrite and telluride species from Fresh ore at a number of deposits. As such Fresh material has been shown to be partially refractory in nature with elevated tails grades from standard gravity and leaching conditions.
		Leach recovery varies with grind size as shown by testwork at between 53um and 212um P80 sizings. Optimal grind size of 106um has been selected for metallurgical recovery estimate.



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Criteria	JORC Code Explanation	Commentary
		Silver recovery is estimated from testwork at Bruno-Lewis, Helens and Mertondale deposits only. On average, across all tests with both gold and silver recovery assays each unit of recovered gold results in 0.37 units of recovered silver.
	Any assumptions or allowances made for deleterious elements.	No deleterious elements were encountered in testwork. Minor amounts of Base Metals (Cu, Pb, Zn, Sb, Te, W) were encountered in testwork. Cyanide and Lime consumptions for the treatment of ore have been estimated from testwork with these elements present in the testwork samples.
	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.	Pilot scale test work has been carried out at the Bruno (Cardinia) and Mertondale 2 pits (100,000t) in 2010 and toll treated through the Sons of Gwalia mill. Further pilot scale testwork was carried out at Cardinia in June 2016 where a 15,000t parcel (oxide & transition ores) was toll treated through the Lakewood mill in Kalgoorlie.
		Metallurgical recovery results from both these trial milling campaigns exceed the metallurgical recovery assumptions for the PFS.
	For minerals that are defined by a specification, has the ore reserve estimation been based on the appropriate mineralogy to meet the specifications.	N/A
Environmental factors or assumptions	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.	Baseline field surveys and technical studies have been conducted for the project area. These studies have included flora and fauna surveys, subterranean survey and assessment, groundwater and surface water hydrology, waste characterisation and heritage surveys. There appears to be no issue evident that may delay the granting of approvals. Waste characterisation studies have confirmed there are no PAF material in the waste. Engineers have conducted geotechnical studies for TSF site and confirmed a suitable site within close proximity to the plant is available to construct IWL TSF. A design report detailing engineering requirements has been prepared and will form part of the Mining Proposal approval application to DMIRS for the operation of the TSF. A Works Approval seeking approval to
Infrastructure	The existence of appropriate infrastructure: availability of land for plant development, power, water, transportation (particularly for bulk commodities), labour, accommodation; or the ease	construct the TSF will be prepared following the submission of the Mining Proposal document. The site is well serviced by the nearby township of Leonora in addition to the major regional centre of Kalgoorlie, 280km south-west. Air services operate three times a week out of Leonora to Perth with sealed airstrips. Leonora is within 45 minutes' drive from the site.



Criteria	JORC Code Explanation	Commentary
	with which the infrastructure can be provided, or accessed.	Extensive good quality unsealed roads pass through the project area including the sealed Laverton- Leonora Road.
		The proposed roadworks design was completed by Lindsay & Dynan in June 2019. The design consists of approximately 45 km of roads, broken into three distinct areas – Mine Access (11 km), Haul Road from ROM Pad at the Cardinia to the Mertondale 5 pit area (24.2 km) and Bummer Creek Bore field (6.5 km) roads. The Haul and Access roads are to be constructed in north-south direction from Leonora-Laverton Road to the most northern pit (Mertondale 5), while the Bummer Creek Bore field road is to be constructed in an eastwest direction parallel to Leonora-Laverton Road.
		The Mine Access Road will connect mining camp, processing plant area, mining workshop with fuel farm with mining pits further north. The bulk commodities including diesel fuel will be supplied via this road to the mining camp and processing plant area. The workforce will gain access to their accommodation and working stations via this road as well.
		Como Engineers completed a power study in May 2019. The location of the CGP is in the vicinity of Murrin Murrin gas pipeline. The gas power plant is going to be built in the processing plant area. The BOO (build, own and operate) option is included in the Como engineers power study. A new gas pipeline will tee-off from Murrin Murrin gas line to feed the Gas Power Station located at the Processing Plant. The Power Station comes complete with 11kV Distribution Board located in a Switchroom with sufficient feeders to distribute power to the Mine Infrastructure including Mining Camp and two bore fields: Cardinia and Bummer Creek.
		An 11kV powerline is suitable for power distribution to the Bummer Creek Bore field due to low load capacity of the bore field. The power line will run a total distance of 20.5 kilometers and have four by 11/0.400kV, 100kVA pole mounted transformers teeing off the line to supply four bores.
		Additionally, to tee-off the 11kV powerline for 1.5 kilometres to the camp and install a 500kVA transformer.
		Power for the Cardinia bore field will be distributed in similar manner as for the Bummer Creek bore field. From the power station 11 kV distribution board at the processing plant total distance of 6.4 kilometers of power line will run to four bores. The 11 / 0.400kV, 100kVA pole mounted transformers will power up each bore.
		An intensive water drilling investigation resulted in identifying a sustainable supply of 30 L/s from Cardinia Creek and 40 L/s from the Bummer Creek area. Both bore fields consist of four



Criteria	JORC Code Explanation	Commentary
		production bores. These bores will generate enough water for CGP requirements.
		The main water supplier will be Bummer Creek bore field. Water from all four bores will be collected in a 2,300 kL water tank. A transfer pump installed at the water tank, will be deliver water approximately 13.5 kilometers to the RAW Water Tank located at the processing plant.
		Four bores spaced at the Cardinia Creek will individually deliver water to the RAW Water Tank as well. This amount of water will be utilised to top up if there is any shortage of water.
		After introduction of the thickener 111.4 m³/hr will go back into the process water tank which will allow noticeable savings in water consumption and periodic resting of bore fields.
		Most of the workforce is expected to be Fly-In / Fly-Out with some possibility of employing local Leonora residents.
Costs	The derivation of, or assumptions made, regarding projected capital costs in the study.	Generally, one or more quotes or proposals were obtained for capital costs.
		Mining Costs were developed from a comprehensive first principles cost model.
		Mining capital costs - mostly comprise construction of the ROM pad, construction of the TSF, and contractor mobilisation.
		Processing Capital Costs – developed by Como Engineers. This is a comprehensive capital estimate based on concept design with some engineering. It also includes dismantling the Lawlers plant and refurbishment of equipment to be re-used at Cardinia.
		Infrastructure Capital Costs –
		Three conforming proposals were received from suppliers of accommodation camps.
		Two conforming and one non-conforming proposals were received from road construction contractors.



Criteria	JORC Code Explanation	Commentary
		Water supply and communications capital costing was developed by Como as part of the plant capital cost
		Capital cost of pipeline, gas power station and associated infrastructure is included in the gas supply tariff.
		Power distribution capital cost was developed by Como as part of the plant capital cost.
	The methodology used to estimate operating costs.	
		Mine operating costs have been developed from first principles to provide a budget cost estimate of the mining schedule. These costs have been used in the Pre-Feasibility Study financial model.
		Rehabilitation costs were developed by determining areas to be rehabilitated and applying an estimated mining plant rate per unit of area measured. Mining plant rates were reviewed with up to date (2019) quotes from suppliers.
		Corporate costs – Head office costs are not included in the cost model.
		Mining costs – owners team was developed from a list of people needed to run the operation, and costed out using annual salaries and on-costs. Rosters are generally 2:1 or 8:6 depending on role and responsibility. Mining costs are on the basis that a contractor will be engaged to carry out full service contract mining, including load and haul, and drill and blast.
		Ore Transport cost – a price to transport ore from Mertondale pits to Cardinia processing plant was obtained from a local haulage contractor.
		Processing costs include personnel needed to operate and maintain the processing plant, including direct labour, maintenance and supervision. Management and technical staff are also included. The processing cost considers a team of Kin employees operating the plant. An estimate of consumables cost was also calculated by Como.



Section 4: Estimation and Reporting of Ore Reserves

Criteria	JORC Code Explanation	Commentary
		Power costs are on the basis of all capital and operating cost being included in the gas tariff.
		Accommodation operating costs were determined from camp contractor quotes. Two comparable quotes were received.
		Flights – indicative quotes were received from several aviation companies operating out of Perth. The cost is per flight, and a utilisation factor was applied. The Leonora airstrip is 1700 m and sealed, allowing optimum choice of aircraft to match roster requirements.
		Operating mining and G&A cost estimates have been estimated by Kin & Entech Pty Ltd to ±20% accuracy.
	Allowances made for the content of deleterious elements	No deleterious elements/material have been included in the Pre-Feasibility Study
	The derivation of assumptions made of metal or commodity price(s), for the principal minerals and coproducts	Project economics have been modelled on a gold price of A\$2000/oz, and a silver (by-product) price of A\$21/oz. based on Pit designs based on Optimisation shells at A\$1800. The adopted Gold price and Silver price for revenue estimates are based on US\$1400 for Au and US\$14.70 Ag and US\$:AU\$ = 0.70: 1.00 FX rate.
	The source of exchange rates used in study	The Pre-Feasibility Study assumes an exchange rate of US\$:AU\$ = 0.70:1.00. All costs have been estimated in AU\$.
	Derivation of transportation charges	



Section 4: Estimation and Reporting of Ore Reserves

Criteria	JORC Code Explanation	Commentary
		Ore transport charges as per cost estimate from Lyndsay Dynan sourced quotes from 3 contract transport providers. (June 2019).
	The basis for forecasting or source of treatment and refining charges, penalties for failure to meet specification, etc.	Treatment and Refining charges as per Perth Mint refining charges.
	The allowances made for royalties payable, both Government and private.	Allowances have been made for the Western Australian State royalty of 2.5% of gold sales, and existing private tenement royalty obligations. Former landholder royalties based on A\$1.00 per tonne of ore from applicable tenements and Sprott Royalty of 1.5% NSR on the first 100,000 ounces of gold produced have been included.
Revenue Factors	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.	For the purposes of the Ore Reserve Estimation it has been assumed that there is no gold hedging. All gold production will be sold at spot price to the Perth Mint.
	The derivation of assumptions made of metal or commodity price(s), for the principal metals, minerals and co-products	See comments above
Market Assessment	The demand, supply and stock situation for the particular commodity, consumption trends and factors likely to affect supply and demand into the future.	There is a transparent quoted market for the sale of gold
	A customer and competitor analysis along with the identification of likely market windows for the product.	There is a transparent quoted market for the sale of gold



Criteria	JORC Code Explanation	Commentary
	Price and volume forecasts and the basis for these forecasts.	There is a transparent quoted market for the sale of gold
	For industrial minerals the customer specification, testing and acceptance requirements prior to a supply contract.	N/A
Economic	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.	The Ore Reserve Estimate is based on detailed Open Pit design using AU\$1,800/oz gold price optimisation. Gold derived from the mining and processing of ore is sold at A\$2,000. A discount rate of annual 8% was assumed in all NPV calculations.
	NPV ranges and sensitivity to variations in the significant assumptions and inputs.	A full financial model was developed with sensitivities applied to all key inputs and assumptions (+/- 10% and +/-20%). Sensitivities include; Gold Price Mining Costs Processing costs (including site G and A) The Project is most sensitive to gold price Discounted cash flows showed negative economic outcomes at downside sensitivity inputs
Social	The status of agreements with key stakeholders and matters leading to social licence to operate	The project is in the North-Eastern Goldfields region of Western Australia. The site has previously been operated and the current project is a re-establishment of previous mining, with the processing plant proposed to be located near an existing well-maintained private road.
		Heritage surveys have been previously conducted for the property and infrastructure has been located to not impact sites of significance.
		All proposed mining and infrastructure areas lie within granted Mining Leases.



Criteria	JORC Code Explanation	Commentary
		Following extensive heritage surveys and consultation conducted over the past two years Kin lodged a Section 18 application to seek approval to relocate or disturb 19 heritage sites located within the CGP disturbance footprint. The Section 18 request resulted in the removal of 18 sites from the Department of Planning and Land Heritage (DPLH) database and approval to relocate and or disturb the one remaining site.
		Two native titles claims have been lodged over the CGP project area. The first, has since twice failed to pass the registration test. The second group, the Nyalpa Pirniku claimants, lodged a claim in February 2019 and had their registration accepted on 15th May 2019. While the claim has been registered no Native Title has yet been granted.
		The Company has a good relationship with the Shire of Leonora and the local Indigenous community.
Other	To the extent relevant, the impact of the following on the project and/or on the estimation and classification of the Ore Reserves:	
	Any identified material naturally occurring risks	No Material naturally occurring risks have been identified for the CGP. The environment is stable with a long history of productive mining operations that have not been affected by naturally occurring events.
	The status of material legal agreements and marketing arrangements	Kin is in possession of necessary legal agreements to develop the operation. The requirements to maintain agreements are transparent and well managed by the company in consultation with the Western Australian Government.
	The status of governmental agreements and approvals critical to the viability of the project, such as mineral tenement status, and	There are reasonable grounds to expect that future agreements and Government approvals will be granted and



Criteria	JORC Code Explanation	Commentary
	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.	maintained within the necessary timeframes for successful implementation of the project. There are no known material matters dependent on a third party that require resolution for the mine to be developed.
Classification	The basis for the classification of the Ore Reserve into varying confidence categories	The Ore Reserve Estimate classification is in accordance with the JORC Code (2012). The Mineral Resource Estimates within the designed open pits has been modified by the application of mining, recovery and mine dilution factors.
	Whether the result appropriately reflects the Competent Person's view of the deposit.	Cost assumptions and inputs applied to the pit optimisations and subsequent designs were derived from first principles estimation. Results of these optimisations, pit design works, mine scheduling, and the resultant analysis reflect the Competent Person's (Mr Craig Mann) view regarding the Cardinia Project.
	The proportion of Probable Ore Reserves that have been derived from Measured Mineral Resources (if any)	No Measured mineral resource is included in the Proved and Probable Ore Reserve estimate
Audits or reviews	The results of any audits or reviews of Ore Reserve estimates	No external Audits or reviews have been completed. The Ore Reserve Estimation process has undergone internal review (within Entech and Kin).
Discussion of relative accuracy/confidence	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	The Ore Reserve estimate has been prepared in accordance with the 2012 JORC Code, and was derived from the Mineral Resource estimate which in turn was reliant upon a Mineral Resource Estimate block model whose estimation was derived from drill-hole data of sufficient continuity and spacing



Section 4: Estimation and Reporting of Ore Reserves			
Criteria	JORC Code Explanation	Commentary	
	geo-statistical procedures to quantify the relative accuracy of the reserve within stated confidence limits, or, if such an approach is not deemed	to satisfy the requirements for a Measured and Indicated Mineral Resource.	
	appropriate, a qualitative discussion of the factors which could affect the relative accuracy and confidence of the estimate.	This Ore Reserve is attributed a confidence classification of "Proved" and "Probable" Ore Reserve. There is a degree of uncertainty associated with the Mineral Resource Estimate and the modifying factors.	
	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.	The project is sensitive to factors that affect revenue (gold price, dilution and recovery).	
	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.		

It is recognised that this may not be possible or appropriate in all circumstances. These

statements or relative accuracy and confidence of the estimate should be compared with production

data, where available.