



Tim Callaghan – Resource and Exploration Geology

**RL2/1998**

**ANNUAL AND FINAL REPORT, 2015**

**KING ISLAND**

**NW TASMANIA**

**Tim Callaghan**

**January 2015**



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## EXECUTIVE SUMMARY

RL2/1998 was an integral component of the tenement package required for the development of the King Island Scheelite Project. The RL covers the Dolphin Mine on the eastern end of the Grassy Granite and extends southeast to cover potential resource extensions offshore. Much of the RL has been superseded by the recently granted ML M1/2006 which covers much of the RL with minor remnants surrounding the ML. The RL is in the process of being relinquished and the remnant areas added to the surrounding EL19/2001 and EL16/2002.

During 2013, King Island Scheelite (KIS) commenced refining the 2012 Definitive Feasibility Study, modifying the planned operation to reduce upfront capital. A staged commencement of operations involving production from low cost open pit mining and processing through a gravity concentration plant is being assessed. Mill upgrade to the full DFS design and rehabilitation of the Dolphin Mine will occur later in the project with development possibly from cash flow. These studies were ongoing during 2014.

The Dolphin Resource estimation was re-estimated at a lower cutoff (0.2% WO<sub>3</sub>) in April, 2014 to assess the potential recoverable resource from lower cost open cut mining in the west of the deposit. The Dolphin Deposit, reported in accordance with the 2012 edition of the JORC Code contains Indicated Mineral Resource of 10.82Mt @ 0.82% WO<sub>3</sub> at a 0.2% WO<sub>3</sub> cutoff. The 2010 blockmodel is still used for the reporting of resources at higher cutoffs for remnant underground resources. The Dolphin Deposit, reported in accordance with the 2012 edition of the JORC Code contains Indicated Mineral Resource of 7.06Mt @ 1.06% WO<sub>3</sub> at a 0.5% WO<sub>3</sub> cutoff.

The Dolphin open pit was dewatered between August and October 2014 under permitting conditions specified by the EPA. The pit was dewatered in preparation for technical studies leading to the proposed start up of operations. A permanent pumping system has been established to keep the pit dewatered for the medium term.

During 2014, a 41 hole grade control diamond drilling program for 1659.9m was completed within the Dolphin Open Cut. The program was confirmed and optimized remnant open cut resources within the Dolphin Pit. Drillholes were drilled on approximately 40m north-south oriented sections. The drillholes were designed to infill the historic drilling with some holes designed to verify historic drill holes. Most holes within the mineralised outline confirmed the low grade remnant mineralisation. Resource estimation will occur when all results are received.

Modifications to the process flow sheet are ongoing, focusing on development of a gravity concentration circuit.



## 1 INTRODUCTION

The King Island Scheelite Project is located in the southeastern corner of King Island, Tasmania (Figure 1). Project tenure includes a Mine Lease (1M/2006), a Retention License (RL2/1998) and two Exploration Licenses (EL19/2001 and EL16/2002). The full tenement package is integral to the development of the King Island Scheelite Project. The tenements are held by Australian Tungsten Pty Ltd a wholly owned subsidiary of King Island Scheelite Limited (KIS) a public company listed on the Australian Securities Exchange.

The Dolphin Mine located on RL2/1998 was originally operated by Geopeko Ltd. along with the satellite Bold Head Mine located several kilometers to the north on EL19/2001.

The Dolphin and Bold Head Scheelite Mines operated intermittently since their discovery and start up in 1920 until the 1990's, with several forced shutdowns due to low tungsten prices. The site was decommissioned and rehabilitated in 1996.

KIS have been investigating the potential of re-opening the mines since 2006. Initial investigations into the viability of an open cut and seawall were inconclusive and the focus changed to rehabilitation of the underground workings and production from remnant resources. KIS completed a definitive feasibility study into a 350ktpa mine and processing facility producing 5700t of concentrate per annum over an 11 year mine life in early 2012.

Project funding for the 2012 DFS proved difficult in the current financial climate and KIS are revising the project to a staged start up commencing with a gravity concentration plant and several low cost open cut mines in the first few years of operations. Ramp up to full production is anticipated in year three.

Mine rehabilitation and mill construction are scheduled to commence within twelve months of securing full project funding.

Resource estimation of the Dolphin and Bold Head Deposits and historic tailings storage facility (TSF) have been completed by KIS and form the basis of the King Island Scheelite Project (Table 1).

<b>TABLE 1. KING ISLAND SCHEELITE PROJECT RESOURCES</b>			
	<b>MTonnes</b>	<b>WO<sub>3</sub></b>	<b>Tonnes WO<sub>3</sub></b>
<b>Dolphin</b>	0.50% WO <sub>3</sub> cutoff		
Indicated	7.06	1.06	74,890
<b>Bold Head</b>	0.50% WO <sub>3</sub> cut off		
Indicated	1.50	0.93	13,950
Inferred	0.15	1.22	1,830
Total	1.65	0.96	15,780
<b>TSF</b>	0.08% WO <sub>3</sub> cut off		
Measured	2.70	0.17	4,590
<b>Total</b>	<b>11.41</b>	<b>0.83</b>	<b>95,260</b>



Technical studies associated with the Definitive Feasibility Study that have now been completed include:

- Resource estimation
- Mining studies
- Reserve estimation
- Metallurgical testwork
- Process flow sheet design
- Cost estimates and construction plans
- Environmental management plan
- Negotiations with potential market off-taker
- Financial modeling
- Negotiations with potential project funding providers
- Resource extension drilling

Work over the past year focused on the feasibility of commencing mining operations through initial open cut operations on the Dolphin Pit. Resource definition and extension drilling programs were conducted at the Dolphin Mine.

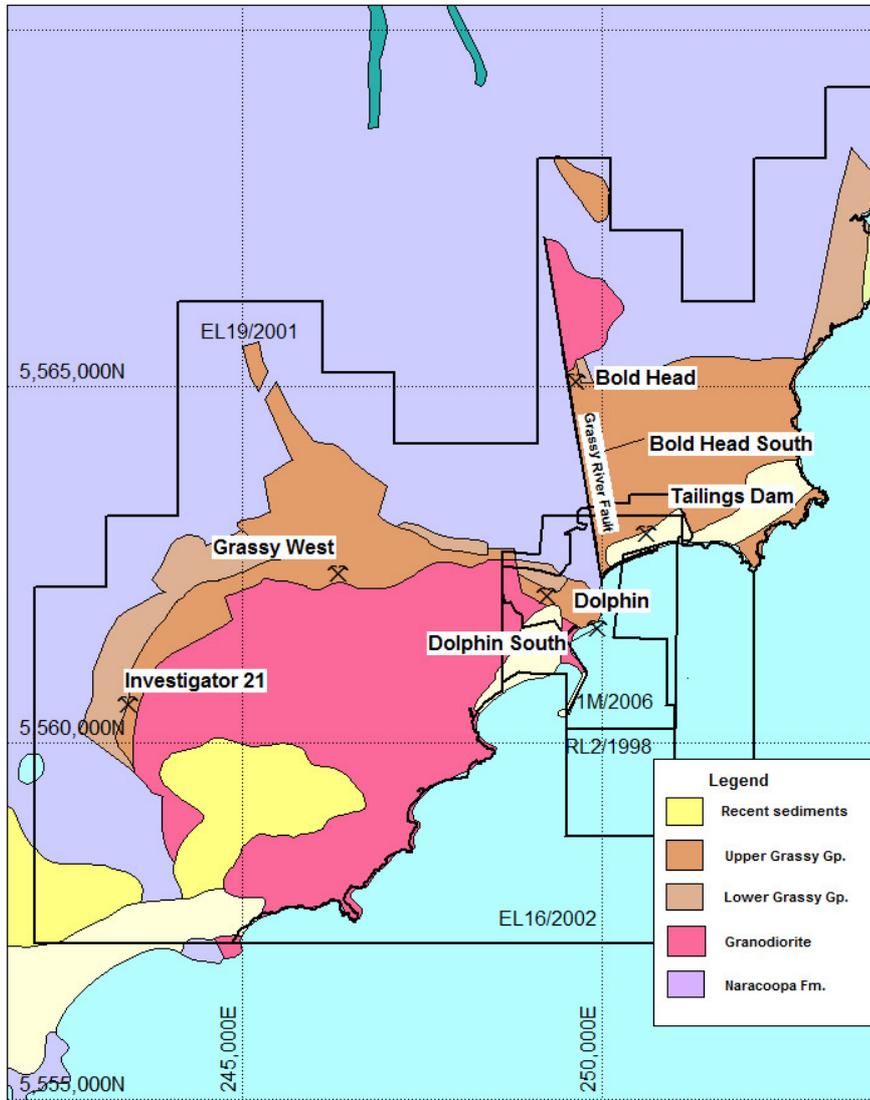


Figure 1. King Island Project Geology, Tenements and Major Prospects.



## 2 GEOLOGY

The regional geology of King Island is best described in Tasmanian Geological Record 2007/02, *Some Notes on the Geology of King Island* (Calver, 2007). Much of the geology described in this section is summarized from this publication (Figure 2).

The geology of King Island consists primarily of Proterozoic rocks with lesser Devonian Granites and extensive wind blown Pleistocene to Recent sand cover. The Proterozoic Geology of the eastern half of the island (hosting the Bold Head and Dolphin WO<sub>3</sub> deposits) is distinctly different from the geology of the western half. The relationship between the western and eastern halves remains problematic.

The western half is dominated by the Mesoproterozoic (1300Ma) Surprise Bay Formation. The Surprise Bay Formation is dominantly a N-S striking regionally metamorphosed amphibolite grade meta-sedimentary unit with minor mafic intrusives. The western margin of the Surprise Bay Group was intruded by a 790Ma granite body (Calver, 2007) post dating the 760Ma Wickham Orogeny (Cox, 1989, Turner *et. al.* 1998).

The Eastern half of the Island is dominated by the (1000-750Ma) Naracoopa Formation which appears to be a correlate of the Cowrie Siltstone in NW Tasmania (Calver, 2007). The Naracoopa Formation consists of a thick succession of relatively unmetamorphosed shale, siltstone and fine grained muscovite-quartz sandstone. Along the Southeast Coast the siltstone is conformably overlain by the 580Ma Grassy Group which is considered a correlate of the Togari Group in NW Tasmania, (Calver, 2007).

The Grassy Group in the City of Melbourne Bay area is well described by Calver (2007) and Meffre *et al* (2004). A summary of the Grassy group stratigraphic sequence is described below:

**Cottons Breccia** - A basal unit of polymict cobble to boulder diamictite.

**Cumberland Creek Dolostone** - Calcareous sediments, shale with limestone/dolomite inter-beds. (Host Horizon for the King Island Scheelite Mineralisation).

**Yarra Creek Shale** - Planar laminated shale with rare volcanoclastic interbeds.

**Grimes Intrusive Suite** - Gabbroic intrusive sills of andesitic composition.

**City of Melbourne Volcanics** - Tholeiitic pillow lava, peperite and volcanoclastic sandstone.

**Shower Drop Volcanics** – Picritic, high MgO pillow lava and hyaloclastite.

**Bold Head Volcanics** – Tholeiitic basalt, volcanoclastic sandstone and conglomerate.

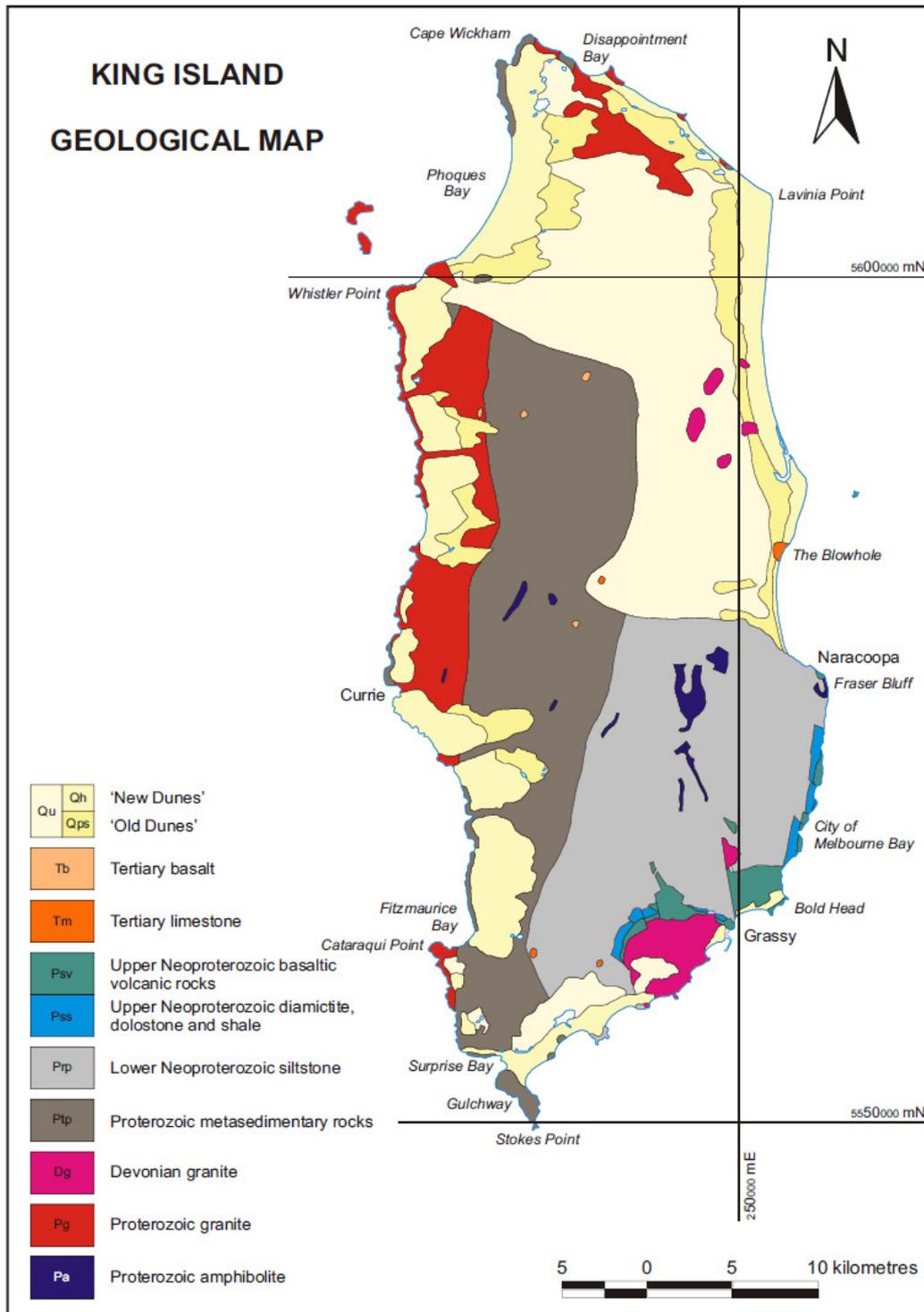


Figure 2. Regional Geology of King Island, (Calver 2007). Coordinates GDA94.

Three granite bodies, the Grassy, Bold Head and Sea Elephant plutons intrude the Proterozoic sediments on the southeast coastline of King Island. The intrusions are classified as I-type monzogranite-granodiorite (Calver, 2007). The Bold Head Granite may be a sliver of the larger Grassy granite, separated by the N-S trending Grassy River Fault (Figures 1 and 2).



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The Bold Head Granodiorite is porphyritic with large pink k-feldspar phenocrysts. The mineralogy consists of quartz, k-feldspar, plagioclase, biotite and amphibole with minor apatite, allanite, sphene, magnetite and zircon.

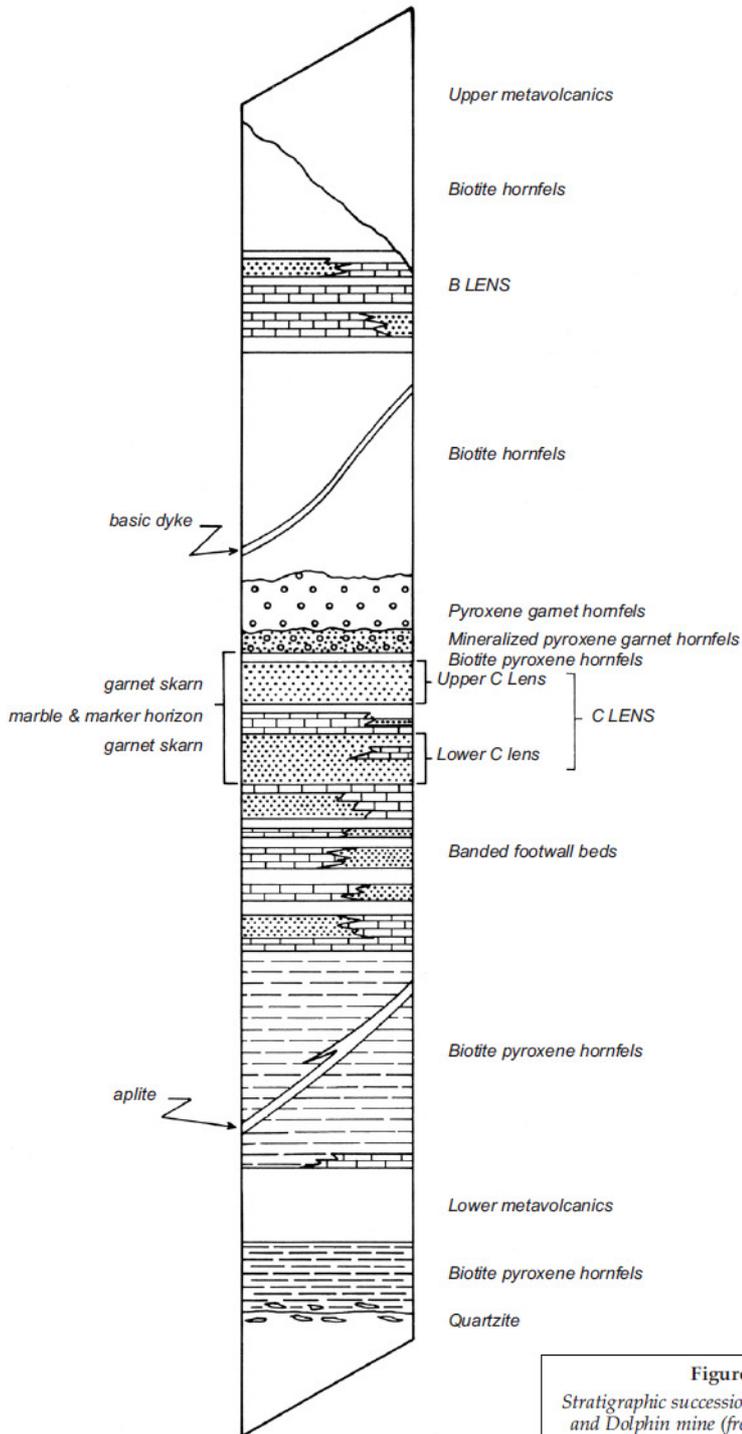
Scheelite skarn mineralisation has formed within the metamorphic aureole of the Bold Head and Grassy Granodiorite plutons where they have come into contact with the calcareous sediments and carbonates of the Lower Grassy Group Cumberland Creek Dolostone. Both the Bold Head and Grassy mineralisation is hosted in a similar stratigraphic sequence, although the carbonate units appear to be thicker in the Grassy area (Danielson, 1975, Figure 2). Mineralisation has formed by selective metasomatism, mainly within and immediately adjacent to carbonate horizons. The deposits formed over a 100-200m sequence of complex skarn mineralogy located in the lower part of the Grassy Group, with two main host horizons known as B and C lens hosted in carbonates of 10-30m thickness separated by a similar thickness of skarn altered volcanic sediments. Mineralisation appears to have occurred where carbonates come into direct contact with the intrusion, or adjacent to brittle faults tapping into the nearby intrusion. Mineralisation grades increase towards major structures such as the Central, Decline and Grassy Faults at Grassy and the Number 2 and Boundary Faults at Bold Head.

Mine sequence rocks have been intensely contact metamorphosed and metasomatised and are described in Geopeko drill logs and maps by the resultant skarn mineralogy and not the stratigraphic protolith described in the regional geology. Geopeko logging codes include:

### DDH logging codes

<b>Code</b>	<b>Geology</b>
um	Upper metavolcanics
bh	Biotite-actinolite hornfels
pbh	Pyroxene-biotite hornfels
pgh	Pyroxene-garnet hornfels banded pyroxene andradite skarn (+/- Scheelite)
gh	Garnet hornfels, andradite skarn (+/- Scheelite)
ch	Marble
bfb	Banded footwall beds, interbedded marble and biotite-pyroxene grossularite skarn (+/- garnet, Scheelite)
lv	Lower metavolcanics

Mineralisation occurs predominantly as coarse Scheelite with lesser Powellite in either garnet-hornfels, pyroxene garnet hornfels and garnet-pyroxene altered banded footwall beds.



**Figure 4**  
*Stratigraphic succession, No. 1 Open Cut and Dolphin mine (from Brown, 1990).*

**Figure 3. Stratigraphic column of the Grassy Group host sequence in the Grassy open cut (from Brown, 1990). The sequence is very similar to the Bold Head sequence 3km north.**



### 3 WORK COMPLETED 2014

Exploration and technical studies specifically conducted on RL2/1998 during 2013 involved

- Resource Estimation
- Dewatering of the Dolphin Open Cut
- Resource definition Dolphin Open Cut
- Pit designs for the Dolphin Mine.
- Reserve Definition
- Revised flow sheet design
- Metallurgical testwork

#### 3.1 RESOURCE ESTIMATION

A new blockmodelled resource estimation of the Dolphin Resource defined on a minimum mining width of 3m and a 0.2% WO<sub>3</sub> cutoff was completed during the past year. The previous 2010 blockmodel was based on a 3m at 0.5% WO<sub>3</sub> boundary more suitable for defining the underground resources used for the 2012 DFS (Callaghan, 2010). The revised mining strategy and improved tungsten prices have necessitated a review of the Dolphin Mine resource statement. The previous resource statement was based solely on an underground operation with the resource reported on a 0.7% WO<sub>3</sub> cut off (*ASX report 19/5/2010*).

The Dolphin Mine is hosted in calcareous volcanoclastic sediments near the base of the Grassy Group. Scheelite mineralisation is associated with calcareous skarn developed adjacent to the contact of the Lower Grassy Group and the Grassy Granodiorite. Mineralisation is localized in and around two main carbonate horizons termed B lens and C Lens as well as occurring in calcareous sediments known as the Banded Footwall Beds. Mineralisation is best developed in the C Lens where it is in proximity to faults. C Lens has three principal mineralized horizons, the most significant of which is the high grade Upper C-Lens garnet hornfels in the centre of C Lens. The Lower C-Lens consists of lower grade banded pyroxene-garnet hornfels. At the top of C Lens is a pyroxene-garnet hornfels (PGH) that contains less consistent scheelite mineralization.

The host sequence dips shallowly south east, steepening in proximity to the Decline Fault. The deposit is bound to the south by the Grassy Granodiorite, the north by the northern boundary fault and the east by the Grassy River Fault. The Decline Fault is a brittle-ductile shear which has attenuated and down warped the Grassy Group on its eastern margin. Mineralisation extends over 1150m in strike length by 750m in width and extends from 80m above sea level in the west plunging to -380m in the east. B lens mineralisation is between 3 and 30m in width and C lens 3 and 40m in width. Near mine resource extension is limited in the far southern and western areas but may have significant potential between the Decline Fault and Grassy Fault to the south where the faults diverge.



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This resource estimation is based on historic drilling data, geological sections and mine infrastructure plans. The drillhole data has been provided in digital format by KIS and was used for the previous 2005 and 2010 estimates with minor modifications and additional drill hole data. King Island Scheelite (KIS) have drilled a series of confirmatory and geotechnical drillholes between 2005 and 2013. Data and geological interpretation is assessed to be of good quality and suitable for resource estimation.

The 2010 estimation utilized detailed geological modeling based on separate mineralogical and grade layer domains. The model also reduced the large areas of internal dilution included in the 2005 estimation to a maximum of 3m, resulting in a reduction in tonnes but an increase in grade for only a minor loss in contained metal. The 2010 estimation was based on minimum mining widths of 3m @ 0.5% WO<sub>3</sub>. The 2014 estimation is based on similar mineralogical domains but a 3m @ 0.2% minimum grade contour to allow estimation of lower grade resources amenable to open cut mining. It is recommended that the lower grade 2014 blockmodel be used for evaluation of open cut resources and reserves whilst the 2010 model should be used for evaluation of underground resources and reserves.

Drillhole data was composited on 1m intervals. Univariate statistical analysis was completed on all domains. Variogram modeling was completed on the four main mineralised layers.

Block modeled resource estimation was calculated using an ordinary kriged algorithm. The resource is reported in accordance with the 2012 edition of the JORC Code (Table 1).

**Table 2. Dolphin Indicated Mineral Resource**

0.20% WO <sub>3</sub> cut off (414)			0.5% WO <sub>3</sub> cut off (410)		
Mt	WO <sub>3</sub> %	Tonnes WO <sub>3</sub>	Mt	WO <sub>3</sub> %	Tonnes WO <sub>3</sub>
10.82	0.81	87,630	7.06	1.06	74,890

A significant proportion (approximately 60%) of the remnant resource is contained in pillars or sterilized by previous operations and therefore will not be amenable to underground extraction but may be available for open pit operations.

Both the 2010 and 2014 resource estimations reconcile well with historic production records and historic resource statements, particularly the estimated WO<sub>3</sub> grade.

Remnant resources in the pit floor and the western and eastern ends of the current open pit may be amenable to extraction from cut backs to the existing open pit. Remnant resources remaining above unfinished flat back stopes on mine closure and resources left at the east end of the mine may support modest tonnage underground operations. Room and rib pillars are unlikely to be recoverable from underground operations.

The resource has been classified as Indicated Resource as there is a high degree of confidence in the simple geological model and the deposit is well drilled and understood. There is moderate confidence in the grade estimation at a global level given the high nugget effect and short range of variogram models and the reliance on historic data.

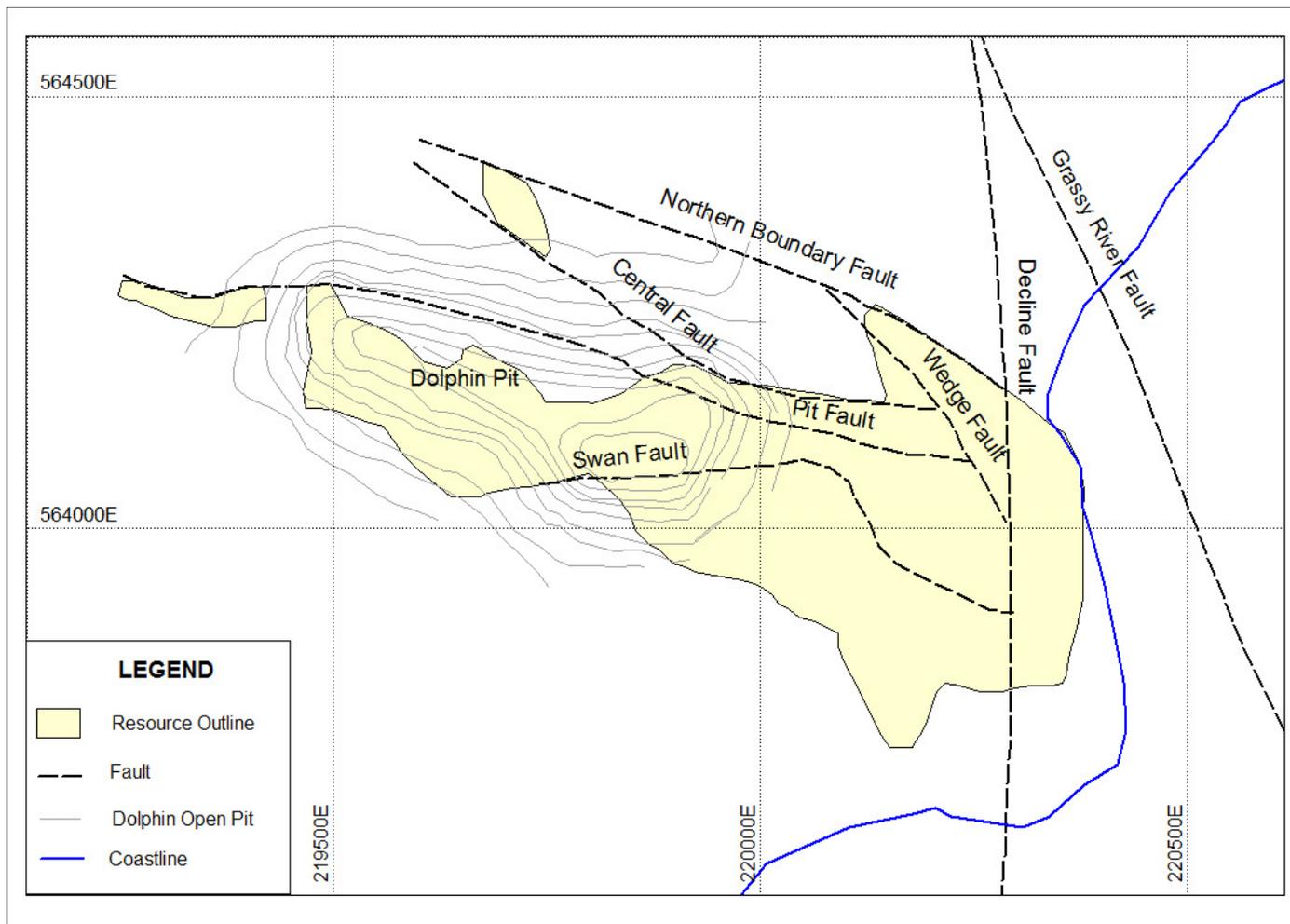


Figure 4. Dolphin Resource Plan, Fault Blocks and Historic Open Cut



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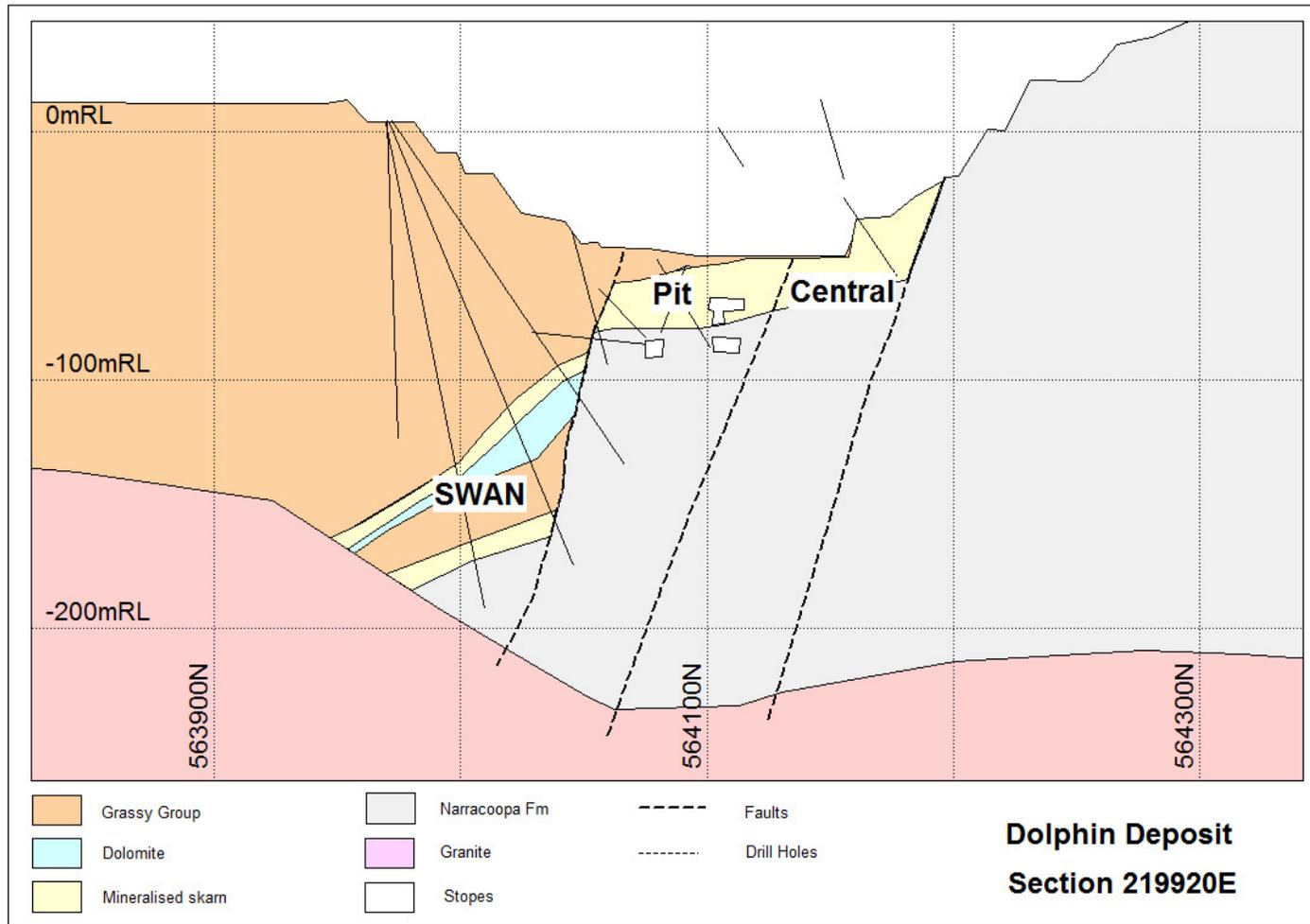


Figure 5. Dolphin Scheelite Deposit Section 219920E



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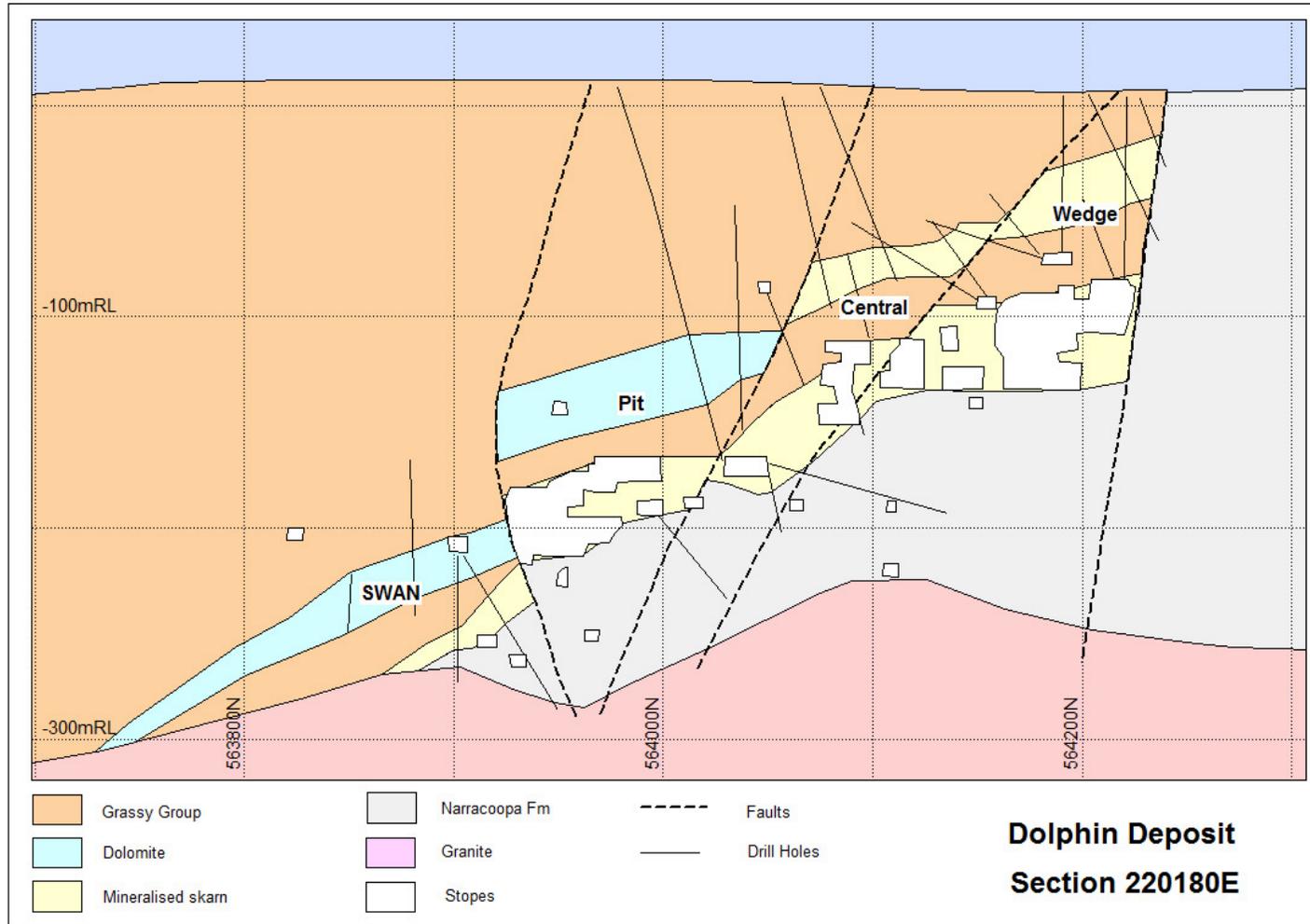


Figure 6. Dolphin Scheelite Deposit Section 220180E



**JORC (2012) Table 3**

<b>Section 1 Sampling Techniques and Data</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
Sampling Techniques	<ul style="list-style-type: none"> <li>Nature and Quality of sampling (e.g. cut channels, random chips or specific specialized industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or hand held XRF instruments etc).</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1m samples from which 3kg was pulverized to produce 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 commodities or sampling types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>The Dolphin Scheelite Skarn has been sampled through numerous historic underground and surface diamond drilling campaigns between 1947 and 1984 by the previous mine operators. ,</li> <li>Recent diamond drilling campaigns were completed by KIS in 2005, 2006, 2011 and 2013.</li> <li>636 historic diamond drill holes for 56,667.8m</li> <li>71 recent drillholes for 8,315.9m.</li> <li>Approximately 3 ft or 1m samples of 1-3kg were taken from diamond saw cut drill core whilst respecting geological boundaries.</li> </ul>
Drilling Techniques	<ul style="list-style-type: none"> <li>Drill type (e.g. core, reverse circulation, open hole hammer, rotary air blast, auger, bangka, sonic etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face sampling bit or other type, where core is oriented and if so by what method</li> </ul>	<ul style="list-style-type: none"> <li>Generally NQ diamond core for surface drillholes and BQ or BQ equivalent for underground drill holes.</li> <li>Core not oriented.</li> </ul>
Sample recovery	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximize sample recovery and ensure representative nature of the samples.</li> </ul>	<ul style="list-style-type: none"> <li>Core reconstituted, marked up and measured in all drilling campaigns</li> <li>Generally excellent (95-100%)</li> <li>No relationship between recovery and grade was observed</li> </ul>



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<b>Section 1 Sampling Techniques and Data</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<ul style="list-style-type: none"> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred.</li> </ul>	
Logging	<ul style="list-style-type: none"> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel etc) photography.</li> </ul>	<ul style="list-style-type: none"> <li>Historic core geologically logged onto typed paper logs.</li> <li>Recent core geologically logged onto excel spreadsheets by experienced geologists over 2 campaigns.</li> <li>Standard lithology codes used for interpretation.</li> <li>RQD and recoveries logged</li> <li>Historic and recent logs loaded into excel spreadsheets and uploaded into access database.</li> </ul>
Sub-Sample techniques and sample preparation	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter or half taken.</li> <li>If non core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub sampling stages to maximize representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the insitu material collected, including for instance results of field duplicate/second half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled</li> </ul>	<ul style="list-style-type: none"> <li>No record of historic sample preparation</li> <li>Half core split by diamond saw on 0.5 – 1.0m samples while respecting geological contacts.</li> <li>Bagged core delivered to commercial Laboratories in Burnie (BRL, AMMTECH, ALS)</li> <li>Whole core crushed to 80% passing 2mm</li> <li>Crushed sample quartered to 500g and pulverized to pass 75 micron.</li> </ul>
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysics tools, spectrometers, hand held</li> </ul>	<ul style="list-style-type: none"> <li>No record of QAQC procedures were available for historic sampling.</li> <li>Recent samples assayed for WO<sub>3</sub> and Mo by XRF at Burnie Research Laboratories (AMMTECH, ALS).</li> </ul>



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<b>Section 1 Sampling Techniques and Data</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<p>XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibration factors applied and their derivation etc.</p> <ul style="list-style-type: none"> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>Historic samples assayed for <math>WO_3</math> and Mo by XRF in on site mine laboratories with check samples assayed by Amdel.</li> <li>No formal QAQC analysis cited for recent drilling campaign.</li> </ul>
Verification of sampling and assaying	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel</li> <li>The use of twinned holes</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols</li> <li>Discuss any adjustment to assay data</li> </ul>	<ul style="list-style-type: none"> <li>No independent laboratory analyses completed.</li> <li>Minor verification of historic data with recent drilling campaigns.</li> <li>No twinned holes were completed</li> <li>Primary assay data was received electronically and stored by consultant geologist.</li> <li>All electronic data uploaded to access database</li> <li>Historic data loaded onto spreadsheets and uploaded to Access database by OMI Pty Ltd.</li> <li>Data validation with Surpac software, basic statistical analysis and comparison with historic plans and sections.</li> <li>Negative results for below detection limit assay data has been entered as 0.01%<math>WO_3</math></li> </ul>
Location of data points	<ul style="list-style-type: none"> <li>Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys) trenches, mine workings and other locations used in mineral resource estimation</li> <li>Specification of grid system used</li> <li>Quality and accuracy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>All hole collar surveys by licensed surveyor.</li> <li>All coordinates in historic mine grid ISG</li> <li>RL's as MSL</li> <li>Down hole surveys by downhole camera</li> <li>Topographic dtm created from detailed surveys</li> </ul>
Data Spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for exploration results</li> <li>Whether data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for Mineral</li> </ul>	<ul style="list-style-type: none"> <li>Sample spacing approximately 20 x 20m or better for much of the resource.</li> <li>Drill spacing is considered to be appropriate for the estimation of Indicated to Inferred Mineral</li> </ul>



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<b>Section 1 Sampling Techniques and Data</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<p>Resource and Ore Reserve estimation procedures and classifications applied.</p> <ul style="list-style-type: none"> <li>• Whether sample compositing has been applied</li> </ul>	<p>resources.</p> <ul style="list-style-type: none"> <li>• Samples have been composited on 1m intercepts for the resource estimation.</li> </ul>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> <li>• Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>• If the relationship between drilling orientation and the orientation of key mineralised structures is considered to have introduced sampling bias, this should be assessed and reported if material.</li> </ul>	<ul style="list-style-type: none"> <li>• The majority of DDH have been drilled north-south or vertical sub-perpendicular the gently dipping mineralisation.</li> <li>• Drill hole orientation is not considered to have introduced any material sampling bias.</li> </ul>
Sample Security	<ul style="list-style-type: none"> <li>• The measures taken to ensure sample security</li> </ul>	<ul style="list-style-type: none"> <li>• Recent samples ticketed and bagged on site.</li> <li>• Delivered by courier to laboratories in Burnie.</li> <li>• All historic data captured and stored in customised access database</li> <li>• Data integrity validated with Surpac Software for EOH depth and sample overlaps.</li> <li>• Manual check by reviewing cross sections with the historic drafted sections and plans.</li> <li>• Basic statistical analysis supports data validation</li> </ul>
Audits or Reviews	<ul style="list-style-type: none"> <li>• The results of any audits or reviews of sampling techniques and data</li> </ul>	<ul style="list-style-type: none"> <li>• No audits or reviews of sampling data and techniques completed.</li> </ul>

<b>Section 2 Reporting of Exploration Results</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
Mineral tenement and land tenure status	<ul style="list-style-type: none"> <li>• Type reference, name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national</li> </ul>	<ul style="list-style-type: none"> <li>• RL2/1998 and MLA1/2006 Grassy King Island. EL19/2001 and EL16/2002</li> <li>• The RL, MLA and EL's are 100% owned by KIS</li> <li>• The area is a historic scheelite mining district and there are no known or experienced impediments</li> </ul>



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<b>Section 2 Reporting of Exploration Results</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<p>park and environmental settings.</p> <ul style="list-style-type: none"> <li>The security of tenure held at the time of reporting along with known impediments to obtaining a license to operate the area</li> </ul>	<p>to operating a license in this area</p> <ul style="list-style-type: none"> <li>EL16/2002 and EL19/2001 require annual renewal.</li> </ul>
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgement and appraisal of exploration by other parties</li> </ul>	<ul style="list-style-type: none"> <li>The Dolphin Mine operated intermittently as an open cut and underground operation until its closure in 1990 by North Ltd.</li> <li>KIS commenced feasibility studies into reopening the operation in 2005 until the present.</li> </ul>
Geology	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation</li> </ul>	<ul style="list-style-type: none"> <li>The Dolphin Scheelite Deposit is a carbonate hosted metasomatic skarn hosted in hornfelsed Cambrian sedimentary rocks on the northern edge of the Grassy Granodiorite on King Island. The deposit forms a roof pendant located on the surface of the granite. The skarn consists of layered garnet skarn and pyroxene-garnet skarn replacing two principal carbonate horizons. Scheelite occurs as coarse and fine disseminations in the skarn mineralogy.</li> </ul>
Drill Hole Information	<ul style="list-style-type: none"> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes</li> <li>easting and northing of the drill hole collar</li> <li>elevation or RL of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>downhole length and interception depth</li> <li>hole length</li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case</li> </ul>	<ul style="list-style-type: none"> <li>Not applicable. This announcement refers to the Resource Estimation of the Dolphin Deposit and is not a report on Exploration Results. Drill collars and dips on post 2005 diamond drilling are located in Appendix 1 of this report.</li> </ul>



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<b>Section 2 Reporting of Exploration Results</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
Data aggregation methods	<ul style="list-style-type: none"> <li>In reporting of Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cutoff grades are usually material and should be stated.</li> <li>Where aggregate intercepts include short lengths of high grade results and longer lengths of low grade results, the procedure used for aggregation should be stated and some examples of such aggregations should be shown in detail</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul style="list-style-type: none"> <li>Mineralised zones are reported as length weighted intercepts.</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the downhole lengths are reported, there should be a clear statement to this effect (e.g. down hole length, true width not known)</li> </ul>	<ul style="list-style-type: none"> <li>Intercept lengths have been reported as downhole lengths.</li> <li>Most holes have been drilled to intercept the deposit at high angles to best represent true widths.</li> <li>Refer to the sections included in the body of the announcement to view the relationship between downhole lengths and mineralisation orientations.</li> </ul>
Diagrams	<ul style="list-style-type: none"> <li>Appropriate maps and sections (with scales) and tabulated intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>See body of the announcement for relevant plan and sectional views and tabulated intercepts.</li> </ul>
Balanced reporting	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/ or widths should be practiced to avoid misleading reporting of Exploration Results</li> </ul>	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>



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<b>Section 2 Reporting of Exploration Results</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
Other substantive exploration data	<ul style="list-style-type: none"> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to); geological observations, geophysical survey results, geochemical survey results, bulk samples – size and method of treatment, metallurgical results, bulk density, groundwater, geochemical and rock characteristics, potential deleterious or contaminating substances.</li> </ul>	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
Further work	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g. test for lateral extensions or depth extensions or large scale step out drilling)</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul style="list-style-type: none"> <li>Further resource extension drilling west and south east of Indicated Resource.</li> </ul>

<b>Section 3 Reporting Of Mineral Resource Estimations</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
Database Integrity	<ul style="list-style-type: none"> <li>Measures to ensure the data has not been corrupted by, for example transcription or keying errors, between its initial collection and its use for Mineral Resource estimation.</li> <li>Data Validation and procedures used.</li> </ul>	<ul style="list-style-type: none"> <li>All data captured and stored in customised Access database by database consultants OMI.</li> <li>Digital data uploaded from laboratory reports to Access database.</li> <li>Data integrity validated with Surpac Software for EOH depth and sample overlaps and transcription errors.</li> <li>Historical data digitized by database consultants and uploaded to access database.</li> <li>Data validated against historic plans and sections</li> <li>Minor errors in data location, fixed in data base.</li> <li>Negatives in database converted to 0.01% WO<sub>3</sub> and Mo.</li> </ul>



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<b>Section 3 Reporting Of Mineral Resource Estimations</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
Site Visits	<ul style="list-style-type: none"> <li>• Comment on any site visits by the competent person and the outcome of any of those visits.</li> <li>• If no site visits have been undertaken indicate why this is the case.</li> </ul>	<ul style="list-style-type: none"> <li>• Numerous site visits during various drilling campaigns since 2011.</li> </ul>
Geological Interpretation	<ul style="list-style-type: none"> <li>• Confidence in (or conversely the uncertainty of) the geological interpretation of the mineral deposit.</li> <li>• Nature of the data used and any assumptions made.</li> <li>• The effect if any of alternative interpretations on Mineral Resource estimation</li> <li>• The use of geology in guiding and controlling the Mineral Resource estimation</li> <li>• The factors effecting continuity of both grade and geology.</li> </ul>	<ul style="list-style-type: none"> <li>• High confidence in the geological model. High quality sectional interpretation from mapping and drill hole data by Geopeko Ltd.</li> <li>• Diamond drillholes and sections used for geological domaining.</li> <li>• No alternative geological interpretations were attempted.</li> <li>• Geology model used for mineralised domain modeling.</li> <li>• Brittle faulting and skarn mineralogy effect grade domaining.</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• The extent and variability of the mineral resource expressed as length (along strike or otherwise) plan width and depth below surface to the upper and lower limits of the Mineral Resource</li> </ul>	<ul style="list-style-type: none"> <li>• Semi-continuous shallow plunging and dipping stratabound mineralisation adjacent to granodiorite intrusion.</li> <li>• Mineralisation extends 1150m in strike length, by 750m width and dips from 80m above sea level in the west to 380m below sea level in the east.</li> </ul>
Estimation and Modelling techniques	<ul style="list-style-type: none"> <li>• The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</li> <li>• The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</li> </ul>	<ul style="list-style-type: none"> <li>• Block modeled estimation completed with Surpac™ software licensed to Tim Callaghan.</li> <li>• Wire-framed solid models created from diamond drillholes and 20m sectional interpretation.</li> <li>• Solid models snapped to drill holes</li> <li>• Minimum mining width of 3m @ 0.15% WO<sub>3</sub></li> <li>• Internal dilution restricted to 3m with allowances for geological continuity</li> <li>• Data composited on vein widths including WO<sub>3</sub> and Mo</li> <li>• Top cutting based on CV and grade histograms.</li> <li>• Excellent correlation between WO<sub>3</sub> and Mo grades</li> </ul>



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<b>Section 3 Reporting Of Mineral Resource Estimations</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<ul style="list-style-type: none"> <li>• The assumptions made regarding recovery of by products</li> <li>• Estimation of deleterious elements or other non-grade variables of economic significance (e.g. sulphur for acid mine drainage characterization).</li> <li>• In the case of blockmodel interpolation the block size in relation to the average sample spacing and search employed.</li> <li>• Any assumptions behind modeling of selected mining units</li> <li>• Any assumptions about correlation between variables</li> <li>• Description of how the geological interpretation was used to control the resource estimates.</li> <li>• Discussion of the basis for using or not using grade cutting or capping</li> <li>• The process of validation, the checking process used, the comparison of model data to drill hole data, and the use of reconciliation data if available.</li> </ul>	<p>for C lens, poor correlation for B Lens</p> <ul style="list-style-type: none"> <li>• Model extent of 563600N to 564500N, 219250E to 220600E, -400mRL to 100mRL. Block dimensions of 10mN x 10mE x 10mRL block size with sub-celling to 1.25m.</li> <li>• Variogram models well constructed with moderate to high nugget effect (50%) and moderate range of 15 to 30m to sill for most geological domains.</li> <li>• Search ellipse set at 100m spherical range to ensure all blocks populated with minor anisotropy of 1:2</li> <li>• Ordinary kriged model estimated model constrained by geology solid model</li> <li>• Block grades validated visually against input data</li> <li>• Good correlation with previous estimations</li> <li>• Very good correlation of depleted model with historic production</li> </ul>
Moisture	<ul style="list-style-type: none"> <li>• Whether the tonnages were estimated on a dry basis or with natural moisture, and the method of determination of moisture content.</li> </ul>	<ul style="list-style-type: none"> <li>• The estimate based on a dry tonnage</li> </ul>
Cut-off Parameters	<ul style="list-style-type: none"> <li>• The basis of the adopted cutoff grades or cutoff parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Cut off grades have been based on estimated mine grade break even costs. Operating costs and financial parameters were provided by external consultants and KIS. A break even cutoff grade of 0.3% WO<sub>3</sub> is calculated for open pit resources.</li> </ul>
Mining Assumptions	<ul style="list-style-type: none"> <li>• Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or if applicable external) mining dilution. It is always necessary as part of the process of determining reasonable prospects</li> </ul>	<ul style="list-style-type: none"> <li>• Conventional blast load haul open pit operation in the first 4 years of mine life. Ore production rate of 400ktpa and waste movement of approximately 1Mtpa is expected from scoping studies.</li> <li>• Underground mining will involve conventional</li> </ul>



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<b>Section 3 Reporting Of Mineral Resource Estimations</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<p>for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters made when estimating Mineral Resources may not always be rigorous. When this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</p>	<p>decline accessed room and pillar extraction with waste and sand backfill. Production rates are expected to be 300-400ktpa.</p>
Metallurgical assumptions	<ul style="list-style-type: none"> <li>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions made regarding metallurgical treatment processes and parameters made when estimating Mineral Resources may not always be rigorous. When this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</li> </ul>	<ul style="list-style-type: none"> <li>Flow sheet design involves a standard 3 stage crushing-grinding circuit followed by a gravity concentration circuit prior to flotation. Metallurgical testwork suggests process recovery is expected to be around 80 - 85% producing a concentrate grade of 55% from the lower grade open cut mineralisation.</li> <li>The 2012 DFS proposed a 3 stage crushing and grinding circuit followed by whole ore flotation. Testwork suggested a recovery of 90% producing a 65% concentrate.</li> </ul>
Environmental assumptions	<ul style="list-style-type: none"> <li>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status for early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an</li> </ul>	<ul style="list-style-type: none"> <li>Detailed studies and permitting of waste dumps, tailings disposal and storage of hazardous materials has been completed for the 2009 and 2012 feasibility studies.</li> </ul>



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<b>Section 3 Reporting Of Mineral Resource Estimations</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<p>explanation of the environmental assumptions made.</p>	
Bulk Density	<ul style="list-style-type: none"> <li>• Whether assumed or determined. If assumed the basis for the assumptions. If determined the methods used, whether wet or dry, the frequency of measurements, the nature size and representativeness of the samples.</li> <li>• The bulk density for bulk materials must have been measured by methods that adequately account for void spaces (vughs, porosity etc), moisture and difference between rock and alteration zones within the deposit.</li> <li>• Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>	<ul style="list-style-type: none"> <li>• Bulk density derived from historic operations (Balind 1989).</li> <li>• B Lens = 3.1</li> <li>• C Lens = 3.4</li> <li>• Waste = 2.9</li> </ul>
Classification	<ul style="list-style-type: none"> <li>• The basis for the classification of the Mineral Resource into varying confidence categories.</li> <li>• Whether appropriate account has been taken of all relevant factors (i.e. relative confidence in continuity of Geology and metal values, quality, quantity and distribution of the data).</li> <li>• Whether the result appropriately reflects the Competent Persons view of the deposit.</li> </ul>	<ul style="list-style-type: none"> <li>• Confidence in the geological model, data quality and interpolation is considered to be sufficient for Mineral Resource located within 30m of sample data to be classified as Indicated Resource.</li> <li>• Excellent correlation of grade with historic production provides confidence in the estimation.</li> <li>• The resource classification appropriately reflects the views of the Competent Person</li> </ul>
Audits or Reviews	<ul style="list-style-type: none"> <li>• The results of any Audits or Reviews of the Mineral Resource estimates.</li> </ul>	<ul style="list-style-type: none"> <li>• No audits or reviews have been completed for this estimation</li> </ul>
Discussion of relative accuracy/confidence	<ul style="list-style-type: none"> <li>• Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource Estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate,</li> </ul>	<ul style="list-style-type: none"> <li>• The geological model and data quality within 30m of level development is well understood and modeled.</li> <li>• The effects of localised brittle faulting is well understood from mapping and drilling.</li> <li>• There is good confidence in the global tonnage estimation.</li> <li>• There is some local uncertainty in the accuracy of the digital mine model. This is unlikely to have a material effect on the resource estimation for</li> </ul>



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<b>Section 3 Reporting Of Mineral Resource Estimations</b>		
<b>Criteria</b>	<b>JORC Code Explanation</b>	<b>Commentary</b>
	<p>a qualitative discussion of the factors that could affect the relative accuracy of the estimate.</p> <ul style="list-style-type: none"><li>• These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</li></ul>	<p>feasibility studies.</p>



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### 3.2 DOLPHIN PIT DEWATERING

Dewatering of the Dolphin Pit commenced during the late winter and spring of 2014. Western Australian pumping contractors REL were mobilized to site with a pontoon mounted pump used to dewater the pit. Water was discharged into the ocean according to permit conditions outlined by the EPA. Once the pit was dewatered to the old sump level, the pontoon mounted pump was demobilized and smaller permanent pump installed to keep the pit dewatered.



Figure 7. Dewatered Dolphin Pit, pump and Spaulding's XRD5 Diamond Drill Rig, November 2014.



### 3.3 DOLPHIN INFILL DRILLING PROGRAM

A 42 hole, infill diamond drilling program for 1659.9m was completed within the Dolphin Pit in October-December 2014. Drill sites were located on the old mine benches or previously disturbed ground within the dewatered Dolphin Pit.

The program was designed to infill remnant mineralisation amenable to open cut mining within the Dolphin Open Pit prior to renewed resource estimation and final mine design scheduled for 2015. Historic drillholes confirm the presence of pyroxene-garnet and garnet skarn.

Drilling was completed by Spaulding's Drilling Pty Ltd with a lightweight track mounted XD5 diamond drill rig. Where required, sites were prepared using local contractor RW Earthmoving.

Drill collars were surveyed by licenced surveyors PDA at the end of the program. Three collars (KI041, KI042 and KI046) were not accessible for surveying due to the pit water level during the survey. These collars will be located by licenced surveyor at a later date.

Drill core was logged in the KIS core facility in Grassy. All core is stored in the Grassy core compound. Logging was completed on excel spreadsheets and loaded into an access database. A low wavelength ultraviolet lamp was used to delineate zones with significant scheelite mineralisation. Areas with strong fluorescence were marked for sampling. Most core was NQ size with minor HQ core sent for analysis. Drill core was cut with a diamond saw with samples taken on 1m lengths whilst respecting geological boundaries. Drill core was bagged on site, sealed in poly-weave bags and sent to ALS Laboratories in Burnie for Analysis. Samples were analysed for  $WO_3$  by fusion disc XRF. Results were received electronically and loaded onto log sheets and uploaded to the database.

All drill logs from the 2013 and 2014 drilling programs are located in the appendices. Drill collar details of the 2014 infill drilling program are listed in Table 3.

Drillholes were drilled on approximately 40m north-south oriented sections through the recently dewatered open pit (Figure 1). The drillholes were designed to infill the historic drilling with some holes designed to verify historic drill holes. Most holes within the mineralised outline confirmed the low grade remnant mineralisation. Typical widths and grades of mineralisation are listed in Table 1. Drill collar locations are displayed in Figure 5. Representative drill sections and results are displayed in Figures 6 and 7.

The results of the drilling will be assessed and included in future resource estimations prior to finalizing a pit design.



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Table 4. Drill Collar Details

Hole_id	x_igs	y_igs	z	x_gda94	y_gda94	Depth	Azm	Dip	From	To	Length	WO <sub>3</sub> %
KI009	219502.0	564212.0	-17.7	249037.9	5562178.1	43.0	0	-90	6.0	19.0	13.0	0.6
									22.0	25.0	3.0	0.3
KI010	219538.9	564219.3	-19.5	249074.6	5562186.3	27.3	0	-90	10.3	19.0	8.7	0.4
KI011	219540.9	564202.3	-18.8	249076.9	5562169.2	37.0	0	-90	15.0	25.0	10.0	0.3
									28.0	33.0	5.0	0.3
KI012	219540.7	564193.1	-19.1	249076.9	5562160.0	50.0	0	-90	6.0	46.0	40.0	0.3
KI013	219577.2	564197.1	-19.7	249113.3	5562164.9	40.0	0	-90	9.3	16.0	6.7	0.2
									24.0	33.0	9.0	0.4
KI014	219577.2	564170.8	-18.8	249113.9	5562138.6	50.0	0	-90	2.0	9.0	7.0	0.2
									42.0	49.0	7.0	0.3
KI015	219619.8	564154.6	-18.9	249156.9	5562123.4	90.0	0	-90	11.0	15.0	4.0	0.3
									26.0	29.0	3.0	0.3
									33.0	36.0	3.0	0.3
									50.0	62.0	12.0	0.4
KI016	219505.7	564167.1	-4.4	249042.5	5562133.3	80.2	0	-90	31.0	38.0	7.0	0.4
									43.0	61.0	18.0	0.6
									65.0	67.0	2.0	0.4
KI017	219657.3	564062.8	8.9	249196.6	5562032.3	25.0	0	-90	5.0	13.0	8.0	0.7
KI018	219691.4	564050.5	9.1	249230.9	5562020.8	50.0	0	-90	no significant analyses			
KI019	219504.9	564135.2	11.3	249042.5	5562101.3	30.0	0	-90	no significant analyses			
KI020	219579.4	564091.6	10.7	249117.9	5562059.4	25.0	0	-90	no significant analyses			
KI021	219618.1	564083.2	9.3	249156.9	5562051.9	30.0	0	-90	3.0	5.0	2.0	0.4
KI022	219739.3	564127.2	-34.2	249277.1	5562098.6	46.9	0	-90	8.0	10.0	2.0	0.6
KI023	219729.2	564116.3	-34.6	249267.2	5562087.5	60.5	180	-50	9.0	26.0	17.0	0.6
									49.5	50.5	1.0	0.3
									56.5	60.5	4.0	0.4
KI024	219699.1	564135.3	-34.1	249236.7	5562105.8	50.0	180	-55	2.5	29.0	26.5	0.7
									40.0	43.0	3.0	0.4
KI025	219661.8	564158.2	-33.8	249198.9	5562127.9	50.0	180	-65	0.0	7.0	7.0	0.9
									19.0	24.0	5.0	0.7
									39.0	41.0	2.0	0.3
KI026	219661.8	564159.4	-33.8	249198.9	5562129.1	40.0	0	-90	3.0	15.0	12.0	0.8
									23.0	29.0	6.0	0.3
									34.0	36.0	2.0	0.4
KI027	219731.0	564115.6	-34.6	249269.0	5562086.8	40.0	0	-90	17.0	28.0	11.0	0.4
KI028	219699.2	564136.2	-33.9	249236.7	5562106.8	40.0	0	-90	17.0	23.0	6.0	0.9
KI029	219696.1	564170.8	-34.0	249232.9	5562141.2	25.0	0	-90	0.7	15.0	14.3	0.4
KI030	219499.6	564263.5	-6.9	249034.3	5562229.5	25.0	0	-90	0.0	2.0	2.0	0.2
KI031	219498.9	564245.4	-15.4	249033.9	5562211.4	32.5	0	-90	21.0	22.0	1.0	0.5
KI032	219539.9	564238.2	-20.4	249075.2	5562205.1	20.0	0	-90	0.0	3.0	3.0	0.5
KI033	219579.2	564225.4	-25.3	249114.7	5562193.3	30.0	0	-90	5.0	6.0	1.0	1.2
KI034	219657.5	564181.0	-33.5	249194.1	5562150.6	25.0	0	-90	12.0	15.0	3.0	0.2
KI035	219778.0	564132.5	-43.6	249315.7	5562104.8	30.0	0	-90	1.0	2.0	1.0	0.6
KI036	219919.7	564111.4	-52.6	249457.9	5562086.9	40.0	0	-90	10.5	16.5	6.0	1.1
									21.4	24.2	2.8	0.6
KI037	219878.9	564125.2	-53.7	249416.7	5562099.8	30.0	0	-90	1.8	12.2	10.4	0.3
KI038	219917.9	564145.3	-53.0	249455.3	5562120.7	30.0	0	-90	0.0	7.0	7.0	0.6
									14.0	16.0	2.0	0.2
KI039	219866.3	564048.3	-53.8	249405.9	5562022.5	40.0	0	-90	20.0	28.0	8.0	0.2
KI040	219843.3	564049.2	-54.2	249382.8	5562023.0	50.0	0	-90	24.0	25.0	1.0	0.7
									40.0	46.0	6.0	0.2
KI041	219780.0	564104.2	-54.8	249318.2	5562076.5	35.0	0	-90	2.0	5.0	3.0	0.5
									10.0	13.0	3.0	0.2
KI042	219780.0	564073.3	-53.6	249318.9	5562045.6	30.0	0	-90	no significant analyses			
KI043	219837.7	564118.3	-53.9	249375.7	5562092.0	31.0	0	-90	no significant analyses			
KI044	219918.0	564067.4	-50.4	249457.2	5562042.8	50.0	0	-90	17.0	32.0	15.0	0.6
KI045	219866.9	564048.5	-53.9	249406.5	5562022.8	76.0	110	-55	no significant analyses			
KI046	219920.0	564120.4	-51.9	249457.7	5562095.7	24.2	110	-55	no significant analyses			
KI047	219695.1	564333.4	54.1	249228.2	5562303.9	40.0	0	-90	9.0	11.0	2.0	0.6
									35.8	37.4	1.6	0.4
KI048	219741.4	564344.5	53.9	249274.2	5562316.0	30.0	0	-90	0.0	4.0	4.0	0.6
KI049	219724.9	564419.9	89.8	249256.1	5562391.0	26.3	0	-90	no significant analyses			
KI050	219700.1	564377.7	77.1	249232.2	5562348.2	35.0	0	-90	11.0	12.0	1.0	0.3



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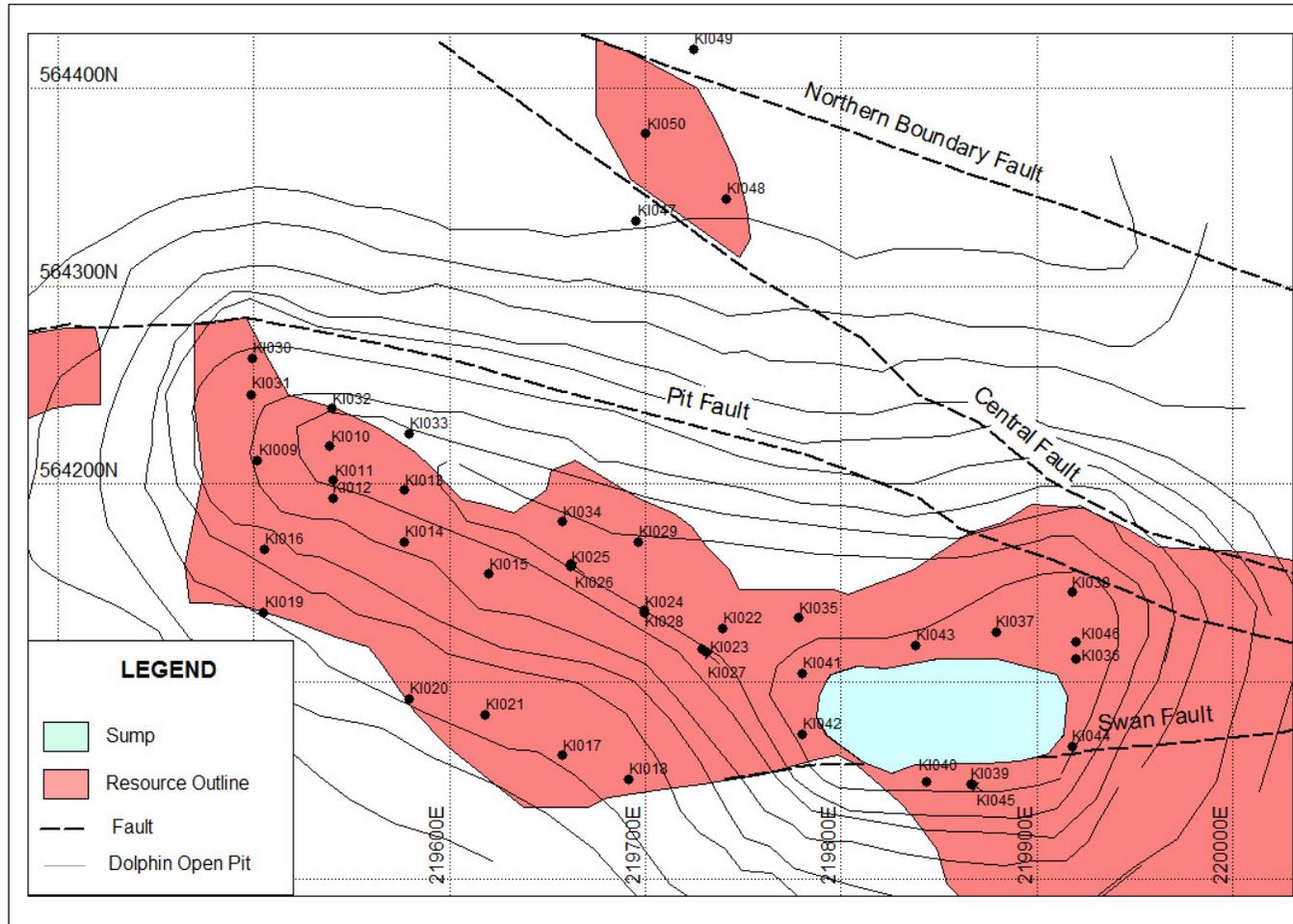


Figure 8. Dolphin Open Pit, Resource outline and infill drill collars.

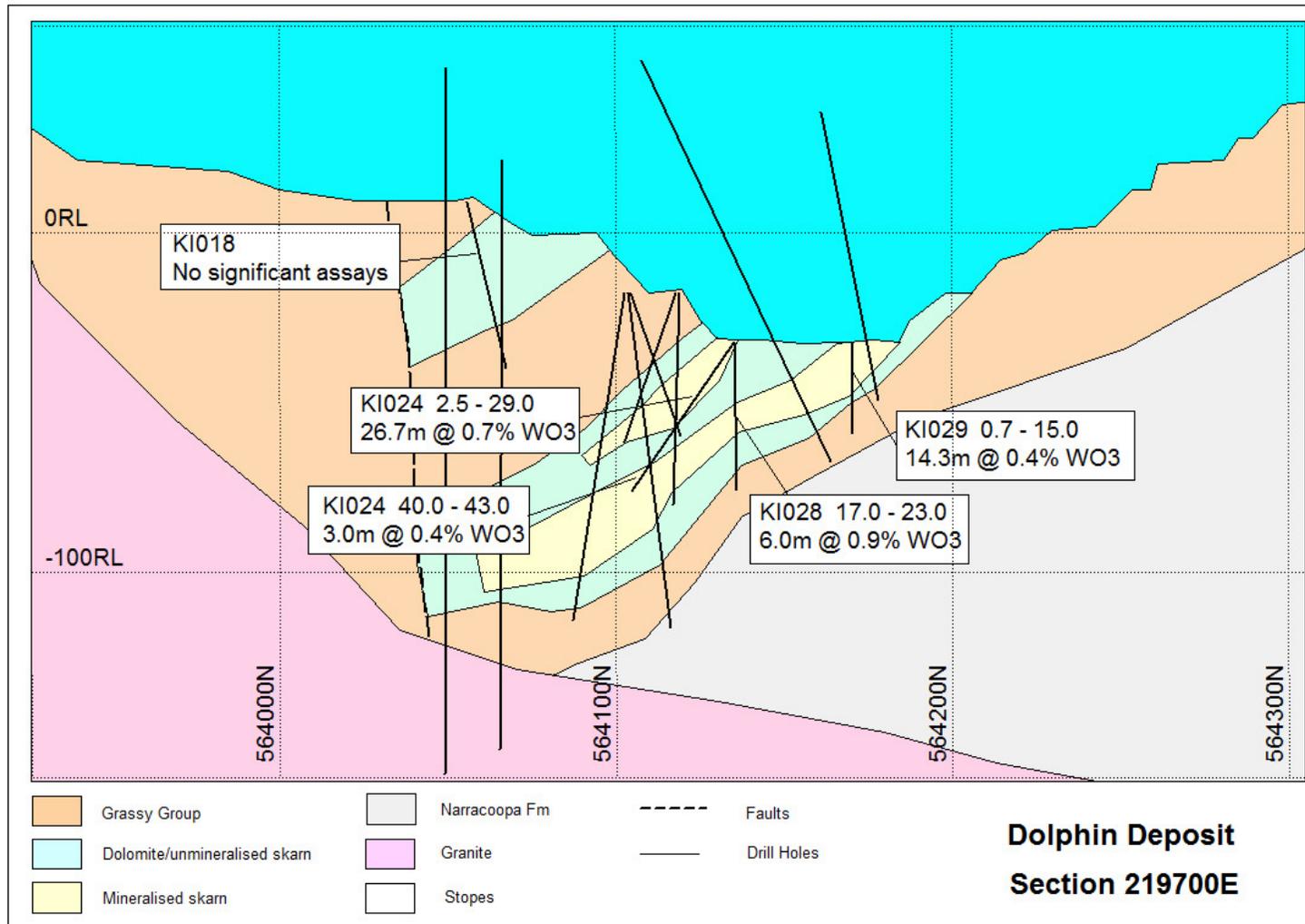


Figure 9. Dolphin Section 219700E (Dolphin Mine Grid)

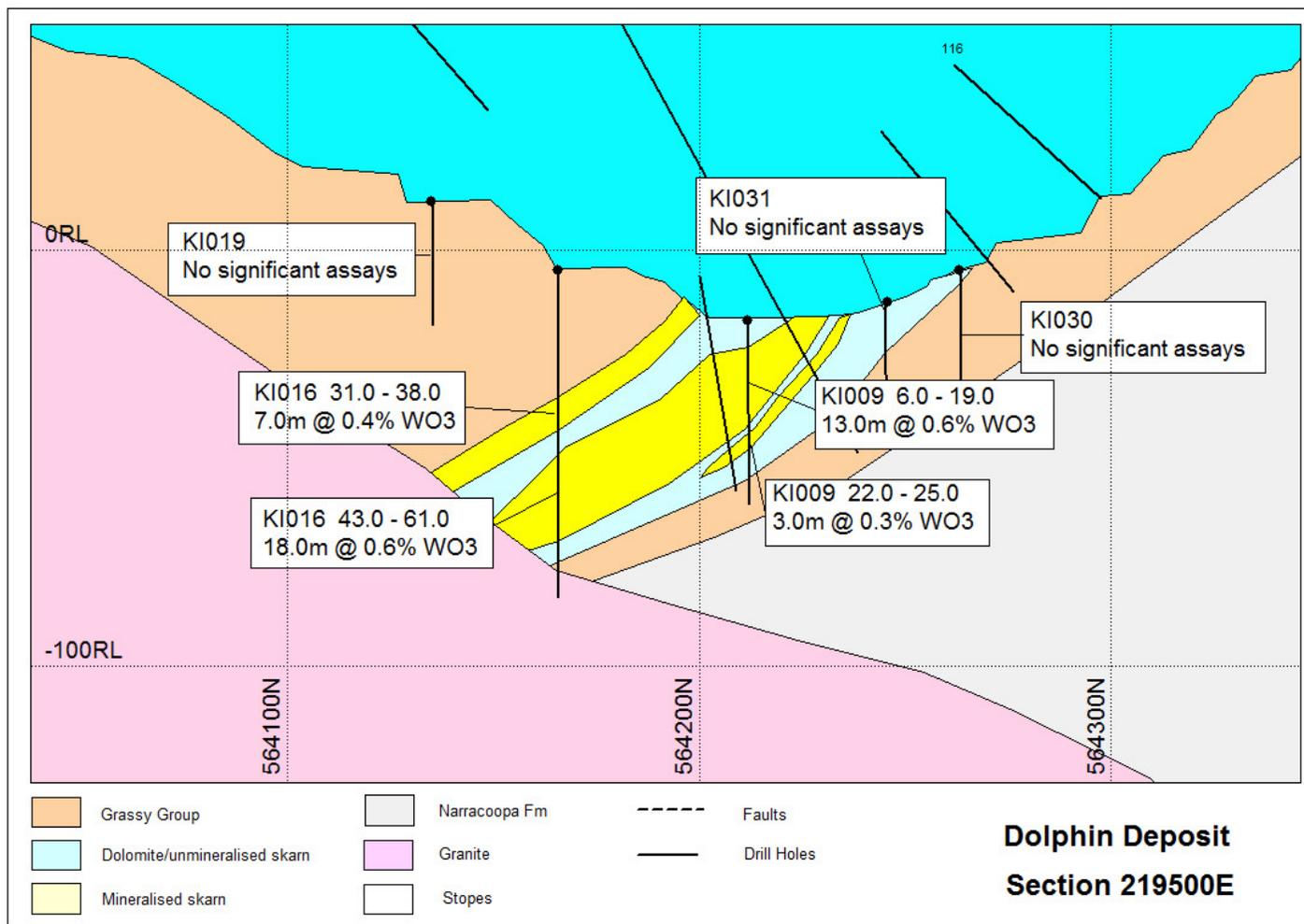


Figure 10. Dolphin Section 219500E (Dolphin Mine Grid)



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**Figure 11. Garnet hornfels. Brown andradite skarn with minor pyrrhotite, calcite and scheelite.**



**Figure 12. Banded Footwall beds. Banded grossular-actinolite-andradite-biotite-diopside skarn with minor pyrite-pyrrhotite and scheelite.**



**Figure 13. Sericite altered Quartz-plagioclase-biotite granodiorite.**



#### **4 PROPOSED WORK 2015**

This the final report for RL2/1998. The RL has been converted to ML1M/2006

The project work program for 2015 is scheduled to include:

- Update resource model.
- Finalize Dolphin pit design and reserve revision.
- Review mine schedule and reserves.
- Finalize metallurgical testwork and flow sheet design
- Modify DFS for staged start up.
- Financial modeling



## **ADDITIONAL NOTES**

### **COMPETENT PERSON AND JORC CODE**

*The information within this report that relates to Mineral Resources and Reserves and Exploration Results is based on information compiled by Mr Tim Callaghan who is a consultant geologist working for King Island Scheelite. Tim is a Member of the Australasian Institute of Mining and Metallurgy (AUSIMM) and has sufficient experience in the styles of mineralisation and types of deposits in consideration to qualify as a competent person according to the 2012 edition of the Australasian Code for reporting Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). He consents to the inclusion of this material in the form and context in which it appears in this report.*

### **FORWARD LOOKING STATEMENTS**

*Some statements in this announcement regarding estimates or future events are forward-looking statements. They involve risk and uncertainties that could cause actual results to differ from estimated results. Forward looking statements include but are not limited to, statements concerning the Company's exploration program, outlook, target sizes and mineralised material estimates. They include statements preceded by words such as "expected", "planned", "target", "scheduled", "intends", "potential", "prospective" and similar expressions*

### **COORDINATES**

All coordinates in this report are recorded in AGD94 Zone 55 or ISG (Dolphin Mine Grid)



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## **Appendix 1**

### **Drill Logs**



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### Stratigraphy

Q	Quaternary alluvial, colluvial and dune deposits
Df	Devonian fine grained qtz sst and ssit (Florence Quartzite). Fossiliferous
Dsk	Devonian Skarn
Dg	Devonian Granite
Sc	Silurian sandstone and siltstone
Scs	Silurian pebble-cobble conglomerate.
Su	Silurian sediments
Og	Limestone (Gordon Limestone)
Oc	Pebble conglomerate, PC derivation (Owen Gp).
Os	Siliceous sst and conglomerate.
Ccc	Contiguous Creek Fm
Coch	Contiguous Creek Fm chert
Ccarb	Contiguous Creek Fm carbonate and calcareous sediments.
Cba	Cambrian Basalt (McIvor Hill Complex)
Cgg	Cambrian Grassy Group
Cbg	Cambrian gabbro
Cba	Cambrian basaltic volcanics
Csu	Cambrian ultramafic
Cud	Cambrian ultramafic dunite
Cup	Cambrian ultramafic orthopyroxenite
Lrbq	Proterozoic siltstone and sandstone, (Cassiterite Ck Fm)
Lrbl	Proterozoic carbonaceous siltstone, (Skinners Flat Siltstone)
Lrl	Proterozoic siltstone and Quartzite, (Lagoon River Quartzite)
Ln	Proterozoic Naracoopa Formation.

### Rock Types

Volcanic Rocktypes have a four letter code. The first letter is the style (intrusive, volcanoclastic etc)  
The second is the chemical composition (basaltic, rhyolitic), the third is the major component (qtz phyr, lithic rich etc)  
the last is the texture (fine grained, breccia etc). For example IUPC is an intrusive, ultramafic, pyroxene phyr and coarse grained.

#### Style codes

I	Intrusive
L	Lava
V	Volcanoclastic
E	Epiclastic

#### Composition codes

U	Ultramafic
B	Basaltic (mafic)
A	Andesitic
D	Dacitic
R	Rhyolitic

#### Composition Codes

Q	Qtz phyr (qtz xtal rich)
F	feldspar phyr
H	Hornblende phyr
P	Pyroxene phyr
L	Lithic rich
X	crystal rich
V	Vitric

#### Texture codes

F	fine
M	medium
C	coarse
B	breccia

#### Other Rock codes

CHRT	Chert
CARB	Carbonate
GWAC	Greywacke
SSLT	Siltstone
SAND	Sandstone
SERP	Serpentine
CONG	Conglomerate
GRAN	Granite
GRAD	Granodiorite
SKRN	Skarn
LOSS	No Core recovery
CLAY	Clay
MMAG	Massive magnetite
SKSP	Serpentine Skarn
SHAL	Shale
HEVC	Heamatitic Volcanoclastic
PHLG	Phlogopite schist
GABB	Gabbro
QZIT	Quartzite
gh	garnet hornfels
pgh	pyroxene-garnet hornfels
fz	fault zone
ap	aplite
bh	biotite hornfels
ph	pyroxene hornfels
bfb	banded footwall beds
ch	carbonate-chert
q	Naracoopa Formation quartzite
ad	Adamellite
mv	middle Grassy Group volcanics



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**Colour**

Colours can be classified by shade using a 1 to 5 scale. ie. B1 = pale brown, B5=dark Brown

N	Black
B	Brown
P	Purple
G	Green
C	Cream
W	White
Y	Yellow
T	Tan
R	Red
O	Orange

**Alteration**

Ac	Actinolite
Ch	Chlorite
Se	Sericite
Cb	Carbonate
Di	Diopside
Ax	Axinite
Sc	Serpentine-chrysotilic
Sp	Serpentine
So	Schorl
Ph	Phlogopite
Sx	Sulphidic
Py	Pyritic
Po	Pyrrhotitic
Ht	Haematitic
Mg	Magnetite
To	Tourmaline
Si	Silica
Qz	Quartz

**Geotech**

Intact Rock Strength Code	UCS
Extremely weak	EW 0.5 Mpa
Very Weak	VW
Weak	W 2.5 Mpa
Moderately strong	MS 37.5 Mpa
Strong	S 75 Mpa
Very strong	VS 100 Mpa
Extremely strong	ES 150 Mpa

Roughness type	Code	Jr
Stepped Smooth	SS	3.5
Discontinuous	DC	4
Planar Smooth	PS	1
Stepped Rough	SR	3
Planar rough	PR	1.5
Undulating Smooth	US	2
Undulating Rough	UR	3

No of Defect Sets	Code	Jn
Default	0	1
One Set	1	2
One Set + random	1.5	3
Two Sets	2	4
Two Sets + random	2.5	6
Three Sets	3	9
Three Sets + random	3.5	12
Four Sets	4	15

Joint Alteration	Code	Ja
Default	0	1
Carb	CB	2
Serpentine	SP	5
Clay	CY	5
Quartz	QZ	1
Sericite	SE	3
Chlorite	CH	3
Clean	X	1
Iron	FE	1.5
Haematite	H	2





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI004	0	11.6	Dg	ad	Bi	C3		Ft			Massive, coarse grained quartz-feldspar-biotite adamellite. Pale cream colour with dark biotite alteration. Very strong biotite content near contact. Finer grained chilled margin. Chloritic alteration overprint.
Dolphin	KI004	11.6	13.7	C_lens	gh	Ga	B5		Sp			Massive dark brown and green andradite skarn. Silica overprint. Coarse and fine scheelite. 1% coarse pyrrhotite disseminations.
Dolphin	KI004	13.7	15.3		vn	Si	W1		Sp			White vughy crystalline quartz vein. Aragonite in Vughs? Minor clasts of garnet hornfels. No Scheelite.
Dolphin	KI004	15.3	17.2	C_lens	gh	Ga	B5		Sp			Massive dark brown and green andradite skarn. Silica overprint. Coarse and fine scheelite. 1% coarse pyrrhotite disseminations.
Dolphin	KI004	17.2	18.7	C_lens	ph	Px	G5		lr			Very hard mottled green and white silica-tourmaline glass? Partially devitrified. Pyroxene-epidote? Spotting. No scheelite.
Dolphin	KI004	18.7	19.5	C_lens	gh	Ga	B5		Sp			Massive dark brown and green andradite skarn. Silica overprint. Coarse and fine scheelite. 1% coarse pyrrhotite disseminations.
Dolphin	KI004	19.5	20.6	Cgg	bh	Bi	B5		Sp	Bd	85	Dark Brown laminated siltstone with bands of adamellite. Intensely hornfelsed Patches of grossular garnet. 15 disseminated pyrrhotite-pyrite.
Dolphin	KI004	20.6	23.3	Cgg	bfb	GaPx	G5		Sp	Bd	70	Well banded andradite and grossular and pyroxene skarn. Bands approximately 2-5cm width. Orange, brown and green bands. Coarse and fine scheelite. 3% Pyrite.
Dolphin	KI004	23.3	26.5	Dg	ad	Bi	C3		Ft			Massive, coarse grained quartz-feldspar-biotite adamellite. Pale cream colour with dark biotite alteration.
Dolphin	KI004	26.5	27.1	Cgg	bfb	GaPx	G5		Ft	Bd	70	Well banded andradite and grossular and pyroxene skarn. Bands approximately 2-5cm width. Orange, brown and green bands. Coarse and fine scheelite. 3% Pyrite.
Dolphin	KI004	27.1	28.3	Cgg	fz	CyCh	G3		Ft			Pale green vughy fault zone. Clay and hematite alteration. Oxidised. Granular.
Dolphin	KI004	28.3	41	Cgg	lv	Bi	B4			Bd	45	Well bedded to laminated volcanoclastic siltstone. Intense biotite alteration. Strongly hornfelsed. Broken and jointed. EOH

Geotech Sheet																					
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments		
Dolphin	KI004	0	3.5	3.5	100	ad	F	si	ES	1.2	34										
Dolphin	KI004	3.5	5.5	2	100	ad	F	si	ES	1.6	80										
Dolphin	KI004	5.5	5.9	0.4	100	ad	F	si	ES	0	0										
Dolphin	KI004	5.9	8.2	2.3	100	ad	F	si	ES	0.9	39										
Dolphin	KI004	8.2	9.1	0.9	100	ad	F	si	ES	0.9	100										
Dolphin	KI004	9.1	10.8	1.7	100	ad	F	si	ES	0.3	18										
Dolphin	KI004	10.8	12.3	1.3	87	gh	F	Ga	ES	1	67										
Dolphin	KI004	12.3	15.5	3.2	100	gh	F	Ga	ES	2.7	84										
Dolphin	KI004	15.5	17.5	2	100	gh	F	Ga	ES	1.8	90										
Dolphin	KI004	17.5	20.5	3	100	gh	F	Ga	ES	2.5	83										
Dolphin	KI004	20.5	23.5	3	100	bfb	F	Ga	ES	3	100										
Dolphin	KI004	23.5	26.5	3	100	ad	F	si	ES	2.8	93										
Dolphin	KI004	26.5	27.1	0.6	100	bfb	F	Ga	ES	0.6	100										
Dolphin	KI004	27.1	28.3	1.1	92	bfb	F	Ga	ES	0.6	50										
Dolphin	KI004	28.3	30.6	2.3	100	bh	F	Bi	ES	0	0										
Dolphin	KI004	30.6	32.5	1.9	100	bh	F	Bi	ES	1.2	63										
Dolphin	KI004	32.5	35	2.5	100	bh	F	Bi	ES	0	0										
Dolphin	KI004	35	36.4	1.4	100	bh	F	Bi	ES	0.2	14										
Dolphin	KI004	36.4	39.6	3.2	100	bh	F	Bi	ES	2.2	69										
Dolphin	KI004	39.6	41	1.4	100	bh	F	Bi	ES	1.2	86										







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI005	0	9.8	C_lens gh	GaPx	B5	B5	1.00	Sp			Massive, dark brown, crystalline andradite skarn. Coarse grained. Minor dark green pyroxene bands. Coarse and fine scheelite. 1-2% disseminated pyrrhotite.
Dolphin	KI005	9.8	13.9	C_lens bfb	GaPx	B4	B4	1.00	Sp	Bd	60	Massive, banded andradite-grossular-pyroxene skarn. Bands 2 - 20cm in thickness. Lesser biotite altered siltstone bands. Dark Brown and green. Coarse and fine scheelite. 1% Po disseminations.
Dolphin	KI005	13.9	18.1	Cgg lv	Bi	B5				Bd	65	Laminated dark brown and grey volcanoclastic siltstone. Strong biotite alteration bands. Strongly Hornfelsed. Not mineralised.
Dolphin	KI005	18.1	20.1	Dg ap	SiBi	W						Massive, fine grained siliceous aplite dyke. Biotite porphyritic with coarse biotite to 2mm.
Dolphin	KI005	20.1	29	Cgg lv	Bi	B5				Bd	65	Laminated dark brown and grey volcanoclastic siltstone. Strong biotite alteration bands. Strongly Hornfelsed. Not mineralised. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI005	0	3	3	100	gh	F	Ga	ES	1.2	40									
Dolphin	KI005	3	4.6	1.6	100	gh	F	Ga	ES	1.6	100									
Dolphin	KI005	4.6	7.2	2.6	100	gh	F	Ga	ES	0	0									
Dolphin	KI005	7.2	10.2	3	100	gh	F	Ga	ES	0.9	30									
Dolphin	KI005	10.2	12.1	1.9	100	gh	F	Ga	ES	0.9	47									
Dolphin	KI005	12.1	14	1.9	100	gh	F	Ga	ES	0.3	16									
Dolphin	KI005	14	16.1	2.1	100	bh	F	Bi	ES	1	48									
Dolphin	KI005	16.1	18	1.9	100	bh	F	Bi	ES	2.7	142									
Dolphin	KI005	18	20	2	100	bh	F	Bi	ES	1.8	90									
Dolphin	KI005	20	23	3	100	bh	F	Bi	ES	2.5	83									
Dolphin	KI005	23	26	3	100	bh	F	Bi	ES	3	100									
Dolphin	KI005	26	29	3	100	bh	F	Bi	ES	2.8	93									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI006	0	8.5		nc							Waste rock and sand. Significant core loss.
Dolphin	KI006	8.5	14.3		nc		W					Beach sand and clay. Significant core loss.
Dolphin	KI006	14.3	26	Cgg	lv	Bi	A3					Dark grey/brown banded, laminated volcanoclastic siltstone and sandstone. Strongly hornfelsed, pervasive biotite alteration. Numerous puggy brittle faults, broken, extensive core loss. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI006	0	3	1.8	60	nc	W	Ga	W	0.6	20									
Dolphin	KI006	3	5.5	1	40	nc	W	Ga	W	0.3	12									
Dolphin	KI006	5.5	8.5	0	0	nc	W	Ga	W	0	0									
Dolphin	KI006	8.5	10.4	1.9	100	nc	W	Ga	W	0	0									
Dolphin	KI006	10.4	14.3	1	26	nc	W	Ga	W	0	0									
Dolphin	KI006	14.3	15.7	1.4	100	bh	F	Ga	MS	0	0									
Dolphin	KI006	15.7	16.3	0.6	100	bh	F	Bi	MS	0.4	67									
Dolphin	KI006	16.3	17.5	0.4	33	bh	F	Bi	MS	0	0									
Dolphin	KI006	17.5	18.1	0.1	17	bh	F	Bi	MS	0	0									
Dolphin	KI006	18.1	19.4	0	0	bh	F	Bi	MS	0	0									
Dolphin	KI006	19.4	22	0.4	15	bh	F	Bi	MS	0	0									
Dolphin	KI006	22	22.5	0.5	100	bh	F	Bi	MS	0	0									
Dolphin	KI006	22.5	23.5	0.7	70	bh	F	Bi	MS	0.2	20									
Dolphin	KI006	23.5	24.5	1	100	bh	F	Bi	MS	0.1	10									
Dolphin	KI006	24.5	26	1.5	100	bh	F	Bi	MS	0.2	13									





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Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
Dolphin	KI007	0	8.3	nc	nc	Cy	W					Beach sand and clay. Significant core loss.	
Dolphin	KI007	8.3	13.4	Cgg	cy	Cy	W					Intensely weathered skarn. Green and Brown clay. Significant core loss.	
Dolphin	KI007	13.4	19.5	Glens	gh	GaPx	B5	2.00	Sp	Bn	70	Massive, dark brown and green garnet skarn. Andradite and grossular garnet. Calcite vein and low angle to core. Coarse and fine scheelite disseminated in bands and blebs. Disseminated Py-Po to 2%.	
Dolphin	KI007	19.5	21	Cgg	bfb	GaPx	G5	1.00	Sp	Bn	75	Massive well banded garnet-pyroxene-marble skarn. Banding 2 - 10cm in width. Grossular and andradite garnet with green actinolite and pyroxene. White marble bands. Disseminated coarse and fine scheelite in bands. Minor pyrite.	
Dolphin	KI007	21	22.6	Cgg	bh	BiAc	B5				Bd	75	Massive and banded volcaniclastic sandstone. Strong biotite-actinolite alteration. Strongly hornfelsed. Garnet on contact with minor scheelite bands.
Dolphin	KI007	22.6	24.7	Dg	ad	KfBi	C5						Massive, coarse grained, crystalline Kfeldspar porphyritic adamellite. Coarse quartz-biotite-plagioclase with large Kfeldspar phenocrysts to 30mm. Kfeldspar altered.
Dolphin	KI007	24.7	27.5	Cgg	pgh	GaPx	G5	2.00	Ft	Bn	75	Massive, banded garnet-pyroxene skarn. Andradite and grossular with actinolite and pyroxene. Coarse and fine disseminated scheelite. 2-3% Py.	
Dolphin	KI007	27.5	33.2	Cgg	lv	BiAc	B5				Bd	75	Laminated volcaniclastic sandstone and siltstone. Strongly hornfelsed. Pervasive banded biotite and actinolite alteration.
Dolphin	KI007	33.2	47.5	Dg	ad	KfBi	C5						Massive, coarse grained, crystalline Kfeldspar porphyritic adamellite. Coarse quartz-biotite-plagioclase with large Kfeldspar phenocrysts to 30mm. Kfeldspar altered. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RDP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI007	0	7	0	0	nc	W		W	0	0									
Dolphin	KI007	7	9.9	1.6	55.2	nc	W		W	0	0									
Dolphin	KI007	9.9	12.4	1.4	56	nc	W		W	0	0									
Dolphin	KI007	12.4	13.6	1.2	100	gh	F	Ga	W	0.1	8.3									
Dolphin	KI007	13.6	15.6	2	100	gh	F	Ga	W	2	100									
Dolphin	KI007	15.6	18	2.4	100	gh	F	Ga	VS	2.4	100									
Dolphin	KI007	18	20.5	2.5	100	gh	F	Ga	VS	2.4	96									
Dolphin	KI007	20.5	23.5	3	100	bh	F	Bi	VS	2.8	93									
Dolphin	KI007	23.5	26.4	2.9	100	ad	F	Kf	VS	2.6	90									
Dolphin	KI007	26.4	29.2	2.8	100	pgh	F	Bi	VS	2.5	89									
Dolphin	KI007	29.2	32.5	3.3	100	bh	F	Bi	VS	3	91									
Dolphin	KI007	32.5	35.2	2.7	100	ad	F	Kf	VS	2.2	81									
Dolphin	KI007	35.2	38.3	3.1	100	ad	F	Kf	VS	3	97									
Dolphin	KI007	38.3	41.4	3.1	100	ad	F	Kf	VS	2.7	87									
Dolphin	KI007	41.4	43	1.6	100	ad	F	Kf	VS	0.8	50									
Dolphin	KI007	43	45.6	2.6	100	ad	F	Kf	VS	1.7	65									
Dolphin	KI007	45.6	47.5	1.9	100	ad	F	Kf	VS	1.1	58									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI008	0	5		nc							Beach sand and clay. Significant core loss.
Dolphin	KI008	5	9.1		clay	Cy	O3					Clay and gritty sand. Orange coloured. Poor core recoveries.
Dolphin	KI008	9.1	19.1		nc							Very poor core recoveries. Possibly overburden. Rubble and clay. Significant core loss.
Dolphin	KI008	19.1	21.6	Cgg	bfb	GaPx	B3		Ft	Bn	50	Banded pyroxene and garnet skarn, banded footwall beds. Orange grossular, green actinolite and grey diopside bands. Weathered and clay altered. Significant core loss.
Dolphin	KI008	21.6	25.4	Cgg	bfb	GaPx	B3		Ft	Bn	50	Banded pyroxene and garnet skarn, banded footwall beds. Orange grossular, green actinolite and grey diopside bands. Minor white marble bands. Banding 10-30mm in width.
Dolphin	KI008	25.4	26.5		fz	BiCy	A3		Ft			Broken and puggy core. Significant core loss.
Dolphin	KI008	26.5	27.5	Cgg	gh	Ga	B2		Ft			Massive, orange-brown, slightly weathered garnet skarn? Numerous calcite veins. Minor puggy crush zones.
Dolphin	KI008	27.5	30.7	Cgg	lv	Bi	A3			Bd	70	Laminated volcanoclastic siltstone and sandstone. Lower volcanics. Strongly hornfelsed. Pervasive biotite alteration. Very broken puggy with significant core loss.
Dolphin	KI008	30.7	32	Cgg	lv	Bi	A3			Bd	70	Laminated volcanoclastic siltstone and sandstone. Lower volcanics. Strongly hornfelsed. Pervasive biotite alteration. Very broken puggy with significant core loss. Only 15% core recovery Fault zone? EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RDP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI008	0	5.8	3	51.7	nc	W		W	0	0									
Dolphin	KI008	5.8	7	0.1	8.33	nc	W		W	0	0									
Dolphin	KI008	7	9.1	0.6	28.6	nc	W		W	0	0									
Dolphin	KI008	9.1	11.9	1.2	42.9	nc	W		W	0	0									
Dolphin	KI008	11.9	14.3	1.1	46	nc	W		W	0	0									
Dolphin	KI008	14.3	16.4	1.7	81	nc	W		W	0	0									
Dolphin	KI008	16.4	18.4	0.6	30	nc	W		W	0	0									
Dolphin	KI008	18.4	19.1	0.3	43	nc	W		W	0	0									
Dolphin	KI008	19.1	19.5	0.4	100	bfb	W	Cy	S	0	0									
Dolphin	KI008	19.5	21.2	0.9	53	bfb	W	Cy	S	0	0									
Dolphin	KI008	21.2	21.6	0.3	75	bfb	W	Cy	S	0	0									
Dolphin	KI008	21.6	22.6	1	100	bfb	F	Cy	S	0.6	60									
Dolphin	KI008	22.6	23.4	0.8	100	bfb	F	Cy	S	0.3	38									
Dolphin	KI008	23.4	24.7	1.1	85	bfb	F	Cy	S	0.4	31									
Dolphin	KI008	24.7	26.5	1.8	100	bfb	F	Ga	S	0.6	33									
Dolphin	KI008	26.5	27.8	1.3	100	bfb	F	Bi	W	0.8	62									
Dolphin	KI008	27.8	28.2	0.4	100	bfb	W	Ga	S	0.3	75									
Dolphin	KI008	28.2	29.5	0.6	46.2	lv		Bi	W	0	0									
Dolphin	KI008	29.5	30.7	1	83.3	lv		Bi	W	0	0									
Dolphin	KI008	30.7	32	0.8	61.5	lv		Bi	W	0	0									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
Dolphin	KI009	0	1		nc	Ca	W					Fill
Dolphin	KI009	1	4.9	Cgg	ch	Ca	W		Sp			Massive, white crystalline limestone. Strongly metasomatised and recrystallised to marble. Stylolitic. Minor talcy crush zones.
Dolphin	KI009	4.9	5.4	Cgg	pgh	PxGa	G5	3	Sp			Massive dark green pyroxene hornfels with minor bands of orange grossular garnet. Calcite veining 2-3% coarse disseminated Po. 0.2% dissem scheelite.
Dolphin	KI009	5.4	6.5	Cgg	ch	Ca	W		Sp			Massive, white crystalline limestone. Strongly metasomatised and recrystallised to marble. Stylolitic. Minor bands of grossular garnet.
Dolphin	KI009	6.5	19	Cgg	pgh	PxGa	G4	2	Sp	Bn	30	Dark green, banded pyroxene-garnet hornfels. Bands of orange grossular garnet and dark green pyroxene/actinolite. 1-2% disseminated Po. White crystalline calcite inclusions. 0.2 - 0.5% disseminated scheelite.
Dolphin	KI009	19	22.1	Cgg	lv	Ac	G5		Sp			Massive, dark green/grey porphyritic basaltic dyke. Large crystalline plagioclase phenocrysts. Dark green fine grained pyroxene-actinolite matrix.
Dolphin	KI009	22.1	25.3	Cgg	gh	Ga	B5		Sp	Bn	70	Banded garnet hornfels with lesser pyroxene hornfels. Dark brown andradite garnet. Minor scheelite.
Dolphin	KI009	25.3	32.9	Cgg	ch	Ca	W		Ft	Bd	60	Massive, white crystalline limestone. Strongly metasomatised and recrystallised to marble. Stylolitic. Minor bands of grossular garnet and pyroxene.
Dolphin	KI009	32.9	33.1		fz	CaTc	W		Ft			Puggy, talc filled fault.
Dolphin	KI009	33.1	37.5	Cgg	ch	Ca	W		Ft	Bd	60	Massive, white crystalline limestone. Strongly metasomatised and recrystallised to marble. Stylolitic. Minor bands of grossular garnet and pyroxene.
Dolphin	KI009	37.5	38.2	Cgg	gh	GaPx	B4		Sp			Massive, dark brown andradite skarn. Minor calcite infill. Minor scheelite mineralisation.
Dolphin	KI009	38.2	43	Cgg	lv	ChAc	G4			Bd	40	Well bedded, dark green-grey basaltic volcanoclastic shale and siltstone. Granite dyke at 42.3 - 42.6m EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length > 10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI009	0	3.3	2.4	72.7	ch	F	Ca	VS	1.5	45.5									
Dolphin	KI009	3.3	4.3	0.8	80	ch	F	Ca	VS	0.6	60									
Dolphin	KI009	4.3	4.9	0.6	100	ch	F	Ca	VS	0.5	83.3									
Dolphin	KI009	4.9	6.5	1.6	100	ch	F	Ca	VS	1.5	93.8									
Dolphin	KI009	6.5	7.5	1	100	pgh	F	GaPx	VS	1	100									
Dolphin	KI009	7.5	9.7	2.2	100	pgh	F	GaPx	VS	2	90.9									
Dolphin	KI009	9.7	12.8	3.1	100	pgh	F	GaPx	VS	3	96.8									
Dolphin	KI009	12.8	15.9	3.1	100	pgh	F	GaPx	VS	3	96.8									
Dolphin	KI009	15.9	19	3.1	100	pgh	F	GaPx	VS	3.1	100									
Dolphin	KI009	19	20.5	1.5	100	pgh	F	GaPx	VS	1.3	86.7									
Dolphin	KI009	20.5	21.9	1.4	100	pgh	F	GaPx	VS	1	71.4									
Dolphin	KI009	21.9	25	3.1	100	gh	F	GaPx	VS	2.8	90.3									
Dolphin	KI009	25	27.9	2.9	100	ch	F	Ca	VS	2.9	100									
Dolphin	KI009	27.9	30.8	2.9	100	ch	F	Ca	VS	2.9	100									
Dolphin	KI009	30.8	33.9	3.1	100	ch	F	Ca	VS	2.3	74.2									
Dolphin	KI009	33.9	37	3.1	100	ch	F	Ca	VS	2.9	93.5									
Dolphin	KI009	37	40	3	100	lv	F	ChAc	VS	2.8	93.3									
Dolphin	KI009	40	40.7	0.7	100	lv	F	ChAc	VS	0	0									
Dolphin	KI009	40.7	41	0.3	100	lv	F	ChAc	VS	0.1	33.3									
Dolphin	KI009	41	41.4	0.4	100	lv	F	ChAc	VS	0.2	50									
Dolphin	KI009	41.4	43	1.6	100	lv	F	ChAc	VS	1	62.5									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI010	0	11.8		nc							Fill. Very poor core recovery.
Dolphin	KI010	11.8	15	Cgg	gh	Ga	B5		Bk			Dark brown andradite skarn. Interstitial calcite. Very broken core, significant core loss.
Dolphin	KI010	15	16.2	Cgg	gh	Ga	B5		Bn			Massive, dark brown andradite skarn. Interstitial calcite. Competent core. 0.2-0.5% scheelite.
Dolphin	KI010	16.2	17.3	Cgg	bfb	GaPx	G3		Sp	Bd	45	Banded, green, white and orange basaltic volcanoclastic shale and siltstone with limestone bands. Minor grossular garnet bands.
Dolphin	KI010	17.3	20.6	Cgg	lv	AcCh	G5		Sp			Massive dark green pyroxene-actinolite altered basaltic lava. Minor flow banding. Patches of dark brown intense biotite alteration.
Dolphin	KI010	20.6	21.3	Dg	ap	Si	W1		Sp			Massive, white fine grained aplitic dyke. Intensely silicified.
Dolphin	KI010	21.3	27.3	Cgg	bfb	GaPx	G3		Bn		40	Banded andradite skarn, grossular skarn and pyroxene skarn with biotite altered basaltic shale interbeds. Bands of white limestone. Andradite decreasing downhole. EOH

Geotech Sheet																					
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments		
Dolphin	KI010	0	1.5	0.3	20	nc	F		W	0	0										
Dolphin	KI010	1.5	3.3	0.7	38.9	nc	F		W	0	0										
Dolphin	KI010	3.3	3.9	0.5	83.3	nc	F		W	0	0										
Dolphin	KI010	3.9	4.6	0.4	57.1	nc	F		W	0	0										
Dolphin	KI010	4.6	6.1	0.3	20	nc	F		W	0	0										
Dolphin	KI010	6.1	7	0.3	33.3	nc	F		W	0	0										
Dolphin	KI010	7	7.9	0.2	22.2	nc	F		W	0	0										
Dolphin	KI010	7.9	10.3	1.4	58.3	nc	F		W	0.9	37.5										
Dolphin	KI010	10.3	11.8	0.3	20	nc	F		W	0	0										
Dolphin	KI010	11.8	12.9	0.5	45.5	gh	F		VS	0	0										
Dolphin	KI010	12.9	14.7	0.6	33.3	gh	F		VS	0	0										
Dolphin	KI010	14.7	16	1.2	92.3	gh	F		VS	0.6	46.2										
Dolphin	KI010	16	19	3	100	lv	F		VS	2.8	93.3										
Dolphin	KI010	19	21.5	2.5	100	bfb	F		VS	2.5	100										
Dolphin	KI010	21.5	24.6	3.1	100	bfb	F		VS	3.1	100										
Dolphin	KI010	24.6	27.3	2.7	100	bfb	F		VS	2.6	96.3										







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI011	0	13.3		FILL							Fill. Very poor core recovery.
Dolphin	KI011	13.3	14.7	Cgg	nc	Ga	B5		Bk			Very broken core, significant core loss. No recovery.
Dolphin	KI011	14.7	21	Cgg	gh	Ga	B5		Bn			Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn, orange grossular skarn and minor limestone bands. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI011	21	37	Cgg	bfb	GaPx	G3			Bn	40	Banded andradite skarn, grossular skarn and pyroxene skarn with biotite altered basaltic shale interbeds. Bands of white limestone. Andradite decreasing downhole. 20cm to 2cm banding. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI011	0	3	0.8	26.7	nc	F	W	0	0	0									
Dolphin	KI011	3	6	0.9	30	nc	F	W	0	0	0									
Dolphin	KI011	6	9.2	1.3	40.6	nc	F	W	0.7	21.9										
Dolphin	KI011	9.2	10	0.2	25	nc	F	W	0.2	25										
Dolphin	KI011	10	13	2.2	73.3	nc	F	W	1.7	56.7										
Dolphin	KI011	13	15.2	1	45.5	gh	F	ES	0.4	18.2										
Dolphin	KI011	15.2	16	0.8	100	gh	F	ES	0.3	37.5										
Dolphin	KI011	16	17.8	1.8	100	gh	F	ES	1.6	88.9										
Dolphin	KI011	17.8	19	1.2	100	gh	F	ES	1.2	100										
Dolphin	KI011	19	21.1	2.1	100	gh	F	ES	2.1	100										
Dolphin	KI011	21.1	22	0.9	100	bfb	F	ES	0.8	88.9										
Dolphin	KI011	22	25	3	100	bfb	F	ES	3	100										
Dolphin	KI011	25	27.7	2.7	100	bfb	F	ES	2.5	92.6										
Dolphin	KI011	27.7	31	3.3	100	bfb	F	ES	3.2	97										
Dolphin	KI011	31	34	3	100	bfb	F	ES	2.5	83.3										
Dolphin	KI011	34	37	3	100	bfb	F	ES	3	100										







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI012	0	3	FILL	nc							Fill. Very poor core recovery.
Dolphin	KI012	3	6	Cgg	bh	Bi	B5		Bk			Laminated biotite altered volcanoclastic siltstone with interbeds of dark green pyroxene skarn. Minor limestone beds between 4.8 to 5.2m. Broken. Core Loss.
Dolphin	KI012	6	9.5	Cgg	gh	Ga	B5		Bn	Bd	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI012	9.5	10.5	Cgg	ch	Ca	A1		Bn			Massive pale grey limestone. Strongly hornfelsed and recrystallised to marble. Minor grossular on contacts.
Dolphin	KI012	10.5	10.9	Cgg	bh	BiPx	B5		Sp	Bd	60	Laminated biotite altered volcanoclastic siltstone with interbeds of dark green pyroxene skarn.
Dolphin	KI012	10.9	17.3	Cgg	gh	Ga	B5		Sp	Bn	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn, orange grossular skarn and minor limestone bands. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI012	17.3	20.2	Cgg	ph	Px	G2		Sp	Bn	80	Massive, pale green pyroxene hornfels with minor grossular garnet. Minor limestone beds and biotite altered siltstone.
Dolphin	KI012	20.2	23.5	Cgg	gh	Ga	B5		Sp	Bn	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn, orange grossular skarn and minor limestone bands. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI012	23.5	27	Cgg	ch	Ca	A1		Bn	Bn	70	Laminated pale grey limestone. Strongly hornfelsed and recrystallised to marble. Bands of grossular, andradite and pyroxene skarn on contacts.
Dolphin	KI012	27	37.6	Cgg	bfb	GaPx	G3			Bn	70	Banded andradite skarn, grossular skarn and pyroxene skarn with biotite altered basaltic shale interbeds. Bands of white limestone. Andradite decreasing downhole. 20cm to 2cm banding.
Dolphin	KI012	37.6	45.7	Cgg	gh	Ga	B5		Sp	Bn	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn, orange grossular skarn and minor limestone bands. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI012	45.7	48.8	Cgg	bh	Bi	B5		Sp	Bd	80	Massive, bedded basaltic volcanoclastic sandstone. Strong biotite alteration. Minor beds of white limestone with lesser garnet and pyroxene hornfels.
Dolphin	KI012	48.8	50	Cgg	bh	Bi	B5		Sp	Bd	80	Laminated biotite altered volcanoclastic siltstone with interbeds of dark green pyroxene skarn. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI012	0	3	1.2	40	nc	F		W	0	0									
Dolphin	KI012	3	6	1.6	53.3	bh	F		ES	0.7	23.3									
Dolphin	KI012	6	6.8	0.8	100	gh	F		ES	0	0									
Dolphin	KI012	6.8	8.7	1.9	100	gh	F		ES	1.8	94.7									
Dolphin	KI012	8.7	9.7	1	100	gh	F		ES	0.7	70									
Dolphin	KI012	9.7	10.8	1.1	100	ch	F		ES	0.9	81.8									
Dolphin	KI012	10.8	12.6	1.8	100	gh	F		ES	1.8	100									
Dolphin	KI012	12.6	15.7	3.1	100	gh	F		ES	3.1	100									
Dolphin	KI012	15.7	17.3	1.6	100	gh	F		ES	1.6	100									
Dolphin	KI012	17.3	18.1	0.8	100	ph	F		ES	0.8	100									
Dolphin	KI012	18.1	19.9	1.8	100	ph	F		ES	1.6	88.9									
Dolphin	KI012	19.9	22	2.1	100	gh	F		ES	2.1	100									
Dolphin	KI012	22	25	3	100	ch	F		ES	3	100									
Dolphin	KI012	25	27.9	2.9	100	ch	F		ES	2.7	93.1									
Dolphin	KI012	27.9	30.9	3	100	pgh	F		ES	2.4	80									
Dolphin	KI012	30.9	34	3.1	100	bfb	F		ES	3	96.8									
Dolphin	KI012	34	36.8	2.8	100					2.7	96.4									
Dolphin	KI012	36.8																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		
Dolphin	KI012	0																		







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI013	0	3		FILL							Fill. Very poor core recovery.
Dolphin	KI013	3	6	Cgg	gh	Ga	B5		Bn	Bd	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI013	6	12.6	Cgg	nc	Bi	B5					Zone of very broken ground. Very poor core recovery. Dominantly biotite hornfels with minor garnet skarn.
Dolphin	KI013	12.6	21.1	Cgg	gh	Ga	B5		Sp	Bd	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.
Dolphin	KI013	21.1	28.3	Cgg	bfb	GaPx	G3		Sp	Bn	45	Banded andradite skarn, grossular skarn and pyroxene skarn with biotite altered basaltic shale interbeds. Bands of white limestone. 20cm to 2cm banding.
Dolphin	KI013	28.3	31.2	Cgg	ch	Ca			Sp	Bd	70	Minor patches of fine disseminated scheelite.
Dolphin	KI013	31.2	32.5	Cgg	pgh	Px Ga	G5		Sp			Massive, pale grey limestone. Minor bands of andradite, grossular and pyroxene altered volcanoclastic siltstone.
Dolphin	KI013	32.5	35.1	Cgg	bh	Bi	B5		Sp	Bd	80	Banded andradite skarn, grossular skarn and pyroxene skarn. Minor disseminated scheelite.
Dolphin	KI013											Laminated biotite altered volcanoclastic siltstone with interbeds of dark green pyroxene skarn. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI013	0	3	0.8	26.7	nc	F		W	0	0									
Dolphin	KI013	3	5.5	2.5	100	gh	F		ES	2.1	84									
Dolphin	KI013	5.5	9.3	2.8	73.7	nc	F		W	0.4	10.5									
Dolphin	KI013	9.3	9.5	0.1	50	nc	F		W	0	0									
Dolphin	KI013	9.5	10.6	0.5	45.5	nc	F		W	0.2	18.2									
Dolphin	KI013	10.6	12.6	0.2	10	nc	F		W	0	0									
Dolphin	KI013	12.6	14.4	1.2	66.7	gh	F		ES	0.6	33.3									
Dolphin	KI013	14.4	16	1.6	100	gh	F		ES	1.2	75									
Dolphin	KI013	16	19	3	100	gh	F		ES	3	100									
Dolphin	KI013	19	21.9	2.9	100	gh	F		ES	2.8	96.6									
Dolphin	KI013	21.9	25	3.1	100	bfb	F		ES	3	96.8									
Dolphin	KI013	25	28	3	100	bfb	F		ES	2.8	93.3									
Dolphin	KI013	28	29	1	100	ch	F		ES	0.8	80									
Dolphin	KI013	29	31	2	100	ch	F		ES	1.8	90									
Dolphin	KI013	31	34	3	100	pgh	F		ES	2.7	90									
Dolphin	KI013	34	35.1	1.1	100	bh	F		ES	0.9	81.8									



Tim Callaghan – Resource and Exploration Geology

Assay Sheet																
Project	BHID	From m	To m	Sample #	Sn	WO3	Mo	Cu ppm	Pb ppm	Zn ppm	Ag	Bi	S	SG	Rock	
Dolphin	KI013	3	4	73361		0.11										
Dolphin	KI013	4	5	73362		0.17										
Dolphin	KI013	5	6	73363		0.14										
Dolphin	KI013	6	9.3	73364		0.06										
Dolphin	KI013	9.3	12.6	73365		0.2										
Dolphin	KI013	12.6	14	73366		0.26										
Dolphin	KI013	14	15	73367		0.19										
Dolphin	KI013	15	16	73368		0.2										
Dolphin	KI013	16	17	73369		0.14										
Dolphin	KI013	17	18	73370		0.08										
Dolphin	KI013	18	19	73371		0.06										
Dolphin	KI013	19	20	73372		0.08										
Dolphin	KI013	20	21	73373		0.05										
Dolphin	KI013	21	22	73374		0.04										
Dolphin	KI013	22	23	73375		0.04										
Dolphin	KI013	23	24	73376		0.04										
Dolphin	KI013	24	25	73377		0.93										
Dolphin	KI013	25	26	73378		0.21										
Dolphin	KI013	26	27	73379		0.5										
Dolphin	KI013	27	28	73380		0.22										
Dolphin	KI013	28	29	73381		0.21										
Dolphin	KI013	29	30	73382		0.54										
Dolphin	KI013	30	31	73383		0.04										
Dolphin	KI013	31	32	73384		0.31										
Dolphin	KI013	32	33	73385		0.52										
Dolphin	KI013	33	34	73386		0.13										





Tim Callaghan – Resource and Exploration Geology

Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description	
Dolphin	KI014	0	9.2	Cgg	gh	Ga	B5		Bn	Bd	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.	
Dolphin	KI014	9.2	12.5	Cgg	bh	Bi	B5		Sp			Massive, basaltic volcanoclastic sandstone. Strongly hornfelsed and biotite altered. Late pyroxene overprint. Minor calcite veining.	
Dolphin	KI014	12.5	12.7	Cgg	gh	Ga	B5		Bn	Bd	80	Massive, dark brown andradite skarn with lesser bands of dark green pyroxene skarn. Interstitial crystalline calcite and fine scheelite. 0.2% scheelite.	
Dolphin	KI014	12.7	14.4	Cgg	bh	Bi	B5		Sp			Massive, basaltic volcanoclastic sandstone. Strongly hornfelsed and biotite altered. Late pyroxene overprint. Minor calcite veining.	
Dolphin	KI014	14.4	15	Cgg	ph	Px	G2					Massive, pale green pyroxene hornfels. Calcite spotting. Minor disseminated scheelite.	
Dolphin	KI014	15	17.5	Cgg	bh	Bi	B5		Sp			Massive, basaltic volcanoclastic sandstone. Strongly hornfelsed and biotite altered. Late pyroxene overprint. Minor calcite veining.	
Dolphin	KI014	17.5	19.7	Cgg	ch	Ca	A1		Sp	Bd	70	Pale grey bedded limestone. Strongly hornfelsed and recrystallised. Minor bands of pyroxene hornfels and grossular.	
Dolphin	KI014	19.7	21.5	Cgg	ph	Px	G4					Massive dark green pyroxene and grossular skarn with bands of grey marble. Disseminated scheelite 0.2-0.3%.	
Dolphin	KI014	21.5	28	Cgg	ch	Ca	A1		Sp	Bd	70	Pale grey bedded limestone. Strongly hornfelsed and recrystallised. Minor bands of pyroxene hornfels and grossular.	
Dolphin	KI014	28	29.7	Cgg	ph	Px	G4					Massive dark green pyroxene and grossular skarn with bands of grey marble. Patchy disseminated scheelite.	
Dolphin	KI014	29.7	37.6	Cgg	ch	Ca	A1		Sp	Bd	70	Pale grey bedded limestone. Strongly hornfelsed and recrystallised. Minor bands of pyroxene hornfels and grossular.	
Dolphin	KI014	37.6	49.8	Cgg	pgh	GaPx	B4		Sp	Bd	75	Bands of dark brown andradite skarn with lesser bands of green pyroxene and orange grossular skarn. Well bedded. Patchy disseminated scheelite.	
Dolphin	KI014	49.8	50	Cgg	bh	Bi	B5		Sp			Laminated black shale and volcanoclastic siltstone. Strongly biotite altered. EOH	

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI014	0	3	2.7	90	gh	F		W	2	66.7									
Dolphin	KI014	3	4	1	100	gh	F		ES	1	100									
Dolphin	KI014	4	7	3	100	gh	F		W	2.8	93.3									
Dolphin	KI014	7	10	3	100	gh	F		W	3	100									
Dolphin	KI014	10	13	3	100	bh	F		W	2.6	86.7									
Dolphin	KI014	13	15.5	2.5	100	ph	F		W	2.2	88									
Dolphin	KI014	15.5	18.6	3.1	100	bh	F		ES	2.7	87.1									
Dolphin	KI014	18.6	21.7	3.1	100	ch	F		ES	3.1	100									
Dolphin	KI014	21.7	24.8	3.1	100	ch	F		ES	3	96.8									
Dolphin	KI014	24.8	27.9	3.1	100	ch	F		ES	3.1	100									
Dolphin	KI014	27.9	31	3.1	100	ch	F		ES	3	96.8									
Dolphin	KI014	31	34	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI014	34	37	3	100	pgh	F		ES	2.8	93.3									
Dolphin	KI014	37	40	3	100	pgh	F		ES	2.3	76.7									
Dolphin	KI014	40	43	3	100	pgh	F		ES	3	100									
Dolphin	KI014	43	46	3	100	pgh	F		ES	2.8	93.3									
Dolphin	KI014	46	49	3	100	pgh	F		ES	3	100									
Dolphin	KI014	49	50	1	100	pgh	F		ES	0.8	80									







Tim Callaghan – Resource and Exploration Geology

Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI015	0	4.3	Cgg	bh	Bi	B5		Ft			Massive, dark brown/red, medium grained feldspar-pyroxene phyrlic gabbro Strong pervasive biotite alteration
Dolphin	KI015	4.3	4.6	Cgg	fz	Cy	G1		Ft			Broken core, puggy brittle fault.
Dolphin	KI015	4.6	8	Cgg	bh	Bi	B5		Ft			Massive, dark brown/red, medium grained feldspar-pyroxene phyrlic gabbro Strong pervasive biotite alteration with late Px-Act overprint.
Dolphin	KI015	8	8.1	Cgg	fz	Cy	G1		Ft			Broken core, puggy brittle fault.
Dolphin	KI015	8.1	10.8	Cgg	ph	PxGa	G4		Gd			Dark green massive pyroxene hornfels with lesser grossular skarn. Possibly some Kfeldspar alteration.
Dolphin	KI015	10.8	16	Cgg	gh	GaCa	B5		Gd			Dark brown massive andradite skarn. Minor interstitial calcite. Fine disseminated scheelite <0.1%.
Dolphin	KI015	16	20.1	Cgg	ph	PxGa	G3		Sp	Bn	80	Banded light green and dark green pyroxene hornfels with lesser biotite hornfels and grossular bands.
Dolphin	KI015	20.1	25.8	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale green pyroxene hornfels. Minor fine disseminated scheelite.
Dolphin	KI015	25.8	36.6	Cgg	pgh	PxGa	G4		Sp	Bd	75	Banded light green and dark green pyroxene hornfels, andradite skarn and limestone with grossular bands on limestone margins. Sparse disseminated scheelite in andradite and pyroxene skarns.
Dolphin	KI015	36.6	38	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale green pyroxene hornfels. Minor fine disseminated scheelite.
Dolphin	KI015	38	41	Cgg	pgh	PxGa	G4		Sp	Bd	75	Banded light green and dark green pyroxene hornfels, andradite skarn and limestone with grossular bands on limestone margins. Sparse disseminated scheelite in andradite and pyroxene skarns.
Dolphin	KI015	41	46.1	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale green pyroxene hornfels. Minor fine disseminated scheelite.
Dolphin	KI015	46.1	49.8	Cgg	bh	Bi	B4					Basaltic volcanoclastic sandstone. Strongly hornfelsed and biotite-actinolite altered. No Mineralisation.
Dolphin	KI015	49.8	62.9	Cgg	bfb	GaPx	B4		Sp	Bn	75	Banded andradite skarn and pyroxene skarn. Minor limestone beds with grossular on the contacts. Coarse disseminated scheelite.

Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI015	62.9	65.2	Cgg	bfb	GaPx	B4		Sp	Bn	75	Bands of limestone, black shale and volcanoclastic siltstone. Strong pyroxene-grossular skarn alteration.
Dolphin	KI015	65.2	76.1	Ln	q	Si	A2		Bk			Massive, pale grey quartzite. Strongly hornfelsed and intensely silicified. Jointed and broken.
Dolphin	KI015	76.1	73.1	Dg	ad	KfSi	O2		Bk			Massive, fine grained aplitic dyke. Strong kfeldspar alteration. Biotite phenocrysts in fine siliceous matrix.
Dolphin	KI015	73.1	83.1	Ln	q	Si	A2		Bk			Massive, pale grey quartzite. Strongly hornfelsed and intensely silicified. Jointed and broken.
Dolphin	KI015	83.1	83.8		fz	Cy			Ft			Puggy brittle fault. Core loss.
Dolphin	KI015	83.8	90	Dg	ad	SiKf						Massive, medium grained quartz-feldspar-biotite granite. Strong kfeldspar and silica alteration.



Tim Callaghan – Resource and Exploration Geology

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI015	0	3	2.8	93.3	bh	F	W	2.2	73.3										
Dolphin	KI015	3	4.4	1.4	100	bh	F	ES	1	71.4										
Dolphin	KI015	4.4	5.8	1.4	100	bh	F	W	0.3	21.4										
Dolphin	KI015	5.8	6.8	1	100	bh	F	W	0.7	70										
Dolphin	KI015	6.8	8.1	1.3	100	bh	F	W	1.2	92.3										
Dolphin	KI015	8.1	10	1.9	100	ph	F	W	1.9	100										
Dolphin	KI015	10	13	3	100	gh	F	ES	2.7	90										
Dolphin	KI015	13	16	3	100	gh	F	ES	2.2	73.3										
Dolphin	KI015	16	18.5	2.5	100	ph	F	ES	2	80										
Dolphin	KI015	18.5	19.9	1.4	100	ph	F	ES	1.4	100										
Dolphin	KI015	19.9	22	2.1	100	ch	F	ES	2.1	100										
Dolphin	KI015	22	25	3	100	ch	F	ES	3	100										
Dolphin	KI015	25	28	3	100	pgh	F	ES	2.6	86.7										
Dolphin	KI015	28	31	3	100	pgh	F	ES	2.9	96.7										
Dolphin	KI015	31	34	3	100	pgh	F	ES	3	100										
Dolphin	KI015	34	36.6	2.6	100	pgh	F	ES	2.5	96.2										
Dolphin	KI015	36.6	39.7	3.1	100	ch	F	ES	2.8	90.3										
Dolphin	KI015	39.7	42.8	3.1	100	pgh	F	ES	3	96.8										
Dolphin	KI015	42.8	45.9	3.1	100	ch	F	ES	3	96.8										
Dolphin	KI015	45.9	49	3.1	100	bh	F	ES	3.1	100										
Dolphin	KI015	49	52	3	100	bfb	F	ES	2.6	86.7										
Dolphin	KI015	52	54.6	2.6	100	bfb	F	ES	3	115										
Dolphin	KI015	54.6	57.7	3.1	100	bfb	F	ES	2.4	77.4										
Dolphin	KI015	57.7	60.8	3.1	100	bfb	F	ES	2.7	87.1										
Dolphin	KI015	60.8	63.9	3.1	100	bfb	F	ES	2.8	90.3										

Assay Sheet																
Project	BHID	From m	To m	Sample #	Sn	WO3	Mo	Cu ppm	Pb ppm	Zn ppm	Ag	Bi	S	SG	Rock	
Dolphin	KI015	9	10	73425		0.07										
Dolphin	KI015	10	11	73426		0.12										
Dolphin	KI015	11	12	73427		0.20										
Dolphin	KI015	12	13	73428		0.50										
Dolphin	KI015	13	14	73429		0.33										
Dolphin	KI015	14	15	73430		0.21										
Dolphin	KI015	15	16	73431		0.03										
Dolphin	KI015	16	17	73432		0.05										
Dolphin	KI015	17	18	73433		0.09										
Dolphin	KI015	18	19	73434		0.13										
Dolphin	KI015	19	20	73435		0.03										
Dolphin	KI015	20	21	73436		0.05										
Dolphin	KI015	21	22	73437		0.02										
Dolphin	KI015	22	23	73438		0.22										
Dolphin	KI015	23	24	73439		0.22										
Dolphin	KI015	24	25	73440		0.01										
Dolphin	KI015	25	26	73441		0.02										
Dolphin	KI015	26	27	73442		0.49										
Dolphin	KI015	27	28	73443		0.02										
Dolphin	KI015	28	29	73444		0.52										
Dolphin	KI015	29	30	73445		0.05										
Dolphin	KI015	30	31	73446		0.03										
Dolphin	KI015	31	32	73447		0.03										
Dolphin	KI015	32	33	73448		0.10										
Dolphin	KI015	33	34	73449		0.35										
Dolphin	KI015	34	35	73450		0.29										
Dolphin	KI015	35	36	73451		0.41										
Dolphin	KI015	36	37	73452		0.11										
Dolphin	KI015	37	38	73453		0.01										
Dolphin	KI015	38	39	73454		0.19										







Tim Callaghan – Resource and Exploration Geology

Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
Dolphin	KI016	0	16	Cgg	bh	Bi	B4						Dark Grey, Basaltic volcanoclastic sandstone and basalt. Strongly hornfelsed and biotite-actinolite altered. No Mineralisation. Chloritic Jts.
Dolphin	KI016	16	16.4	Cgg	fz	Cy	G1		Ft	Sp			Broken core, puggy brittle fault.
Dolphin	KI016	16.4	22.7	Blens	pgh	GaPx	O1						Massive, mottled pale green and orange grossular-pyroxene skarn. Late epidote-chlorite-actinolite nodules with calcite and scheelite.
Dolphin	KI016	22.7	23.2	Dg	ad	EpCh	C2			Sp			Massive, medium grained plagioclase-quartz-biotite granite. Late epidote-chlorite-albite overprint.
Dolphin	KI016	23.2	26.8	Blens	pgh	GaPx	O1			Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Late epidote-chlorite-actinolite nodules with calcite and patchy scheelite?
Dolphin	KI016	26.8	30.6	Cgg	bh	Bi	B4						Dark Grey, massive vesicular basalt. Strongly hornfelsed and biotite-actinolite altered. No Mineralisation. Minor granite microdykes.
Dolphin	KI016	30.6	36	Blens	pgh	GaPx	O1			Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Late epidote-chlorite-actinolite nodules with calcite and patchy scheelite? Trace pyrite.
Dolphin	KI016	36	38.5	Cgg	bh	Bi	B5			Sp	Bd	80	Laminated basaltic volcanoclastic siltstone. Strongly biotite altered and hornfelsed. Lesser bands of grossular and pyroxene.
Dolphin	KI016	38.5	43	Cgg	ch	Ca	A1			Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale orange grossular on bedding boundaries. Strongly recrystallised.
Dolphin	KI016	43	60.6	Clens	pgh	GaPx	G3			Sp	Bd	45	Massive to banded, pale green and orange pyroxene-grossular-andradite skarn. Late chlorite-epidote overprint with nodules of xtaline calcite. Minor Py and marcasite.
Dolphin	KI016	60.6	62	Cgg	ch	Ca	A1			Sp	Bd	70	Massive beds of pale grey limestone with lesser bands of chloritic siltstone. Grossular on bedding boundaries. Strongly recrystallised.
Dolphin	KI016	62	66.5	Cgg	bfb	GaCa	A3			Sp	Bd	70	Banded dark brown andradite skarn, pale grey limestone and dark brown/green biotite altered volcanoclastic siltstone.
Dolphin	KI016	66.5	70	Cgg	ch	Ca	A1			Sp	Bd	70	Massive beds of pale grey limestone with lesser bands of chloritic siltstone. Grossular on bedding boundaries. Strongly recrystallised.
Dolphin	KI016	70	72.6	Cgg	bfb	GaCa	A3			Sp	Bd	70	Banded dark brown andradite skarn, pale grey limestone and dark brown/green biotite altered volcanoclastic siltstone.

Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
Dolphin	KI016	72.6	76.3	Cgg	iv	BiPx	B5			Sp	Bd	90	Laminated dark brown and green volcanoclastic siltstone. Strongly hornfelsed and altered. Pervasive biotite and late actinolite-pyroxene alteration.
Dolphin	KI016	76.3	77.3	Dg	ad	Si	C2			Sp			Massive, fine to medium grained quartz-feldspar-biotite granite dyke.
Dolphin	KI016	77.3	80.2	Lnc	q	Si	A2						Massive, pale grey intensely silicified quartzite/sandstone. Strongly hornfelsed and recrystallised. EOH



Tim Callaghan – Resource and Exploration Geology

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI016	0	3	2.5	83.3	bh	F	W	ES	0.4	13.3									
Dolphin	KI016	3	5.8	2.8	100	bh	F	ES	0.5	17.9										
Dolphin	KI016	5.8	8.8	3	100	bh	F	W	0.5	16.7										
Dolphin	KI016	8.8	9.7	0.9	100	bh	F	W	0	0										
Dolphin	KI016	9.7	10.8	1.1	100	bh	F	W	0.9	81.8										
Dolphin	KI016	10.8	11.8	1	100	bh	F	W	1	100										
Dolphin	KI016	11.8	13	1.2	100	bh	F	ES	0.9	75										
Dolphin	KI016	13	13.6	0.6	100	bh	F	ES	0	0										
Dolphin	KI016	13.6	14.7	1.1	100	bh	F	ES	0.3	27.3										
Dolphin	KI016	14.7	16	1.3	100	bh	F	ES	0.2	15.4										
Dolphin	KI016	16	16.4	0.1	25	fz	F	ES	0	0										
Dolphin	KI016	16.4	18.9	2.5	100	pgh	F	ES	2.3	92										
Dolphin	KI016	18.9	21.8	2.9	100	pgh	F	ES	2.6	89.7										
Dolphin	KI016	21.8	23	1.2	100	pgh	F	ES	1	83.3										
Dolphin	KI016	23	24.9	1.9	100	pgh	F	ES	1.5	78.9										
Dolphin	KI016	24.9	27	2.1	100	pgh	F	ES	1	47.6										
Dolphin	KI016	27	28.8	1.8	100	bh	F	ES	1.4	77.8										
Dolphin	KI016	28.8	31	2.2	100	bh	F	ES	2	90.9										
Dolphin	KI016	31	34	3	100	pgh	F	ES	3	100										
Dolphin	KI016	34	37	3	100	pgh	F	ES	2.8	93.3										
Dolphin	KI016	37	37.9	0.8	88.9	bh	F	ES	0.5	55.6										
Dolphin	KI016	37.9	40	2.1	100	pgh	F	ES	2.1	100										
Dolphin	KI016	40	42.6	2.6	100	pgh	F	ES	2	76.9										
Dolphin	KI016	42.6	45.7	3.1	100	pgh	F	ES	3	96.8										
Dolphin	KI016	45.7	48.8	3.1	100	pgh	F	ES	2.9	93.5										
Dolphin	KI016	48.8	51.9	3.1	100	pgh	F	ES	3.1	100										
Dolphin	KI016	51.9	55	3.1	100	pgh	F	ES	3.1	100										
Dolphin	KI016	55	58	3	100	pgh	F	ES	3	100										
Dolphin	KI016	58	60.2	2.2	100	pgh	F	ES	1.7	77.3										
Dolphin	KI016	60.2	63.3	3.1	100	pgh	F	ES	3.1	100										
Dolphin	KI016	63.3	66.4	3.1	100	pgh	F	ES	2.9	93.5										
Dolphin	KI016	66.4	69.9	3.1	88.6	pgh	F	ES	2.9	82.9										
Dolphin	KI016	69.9	72.3	2.4	100	pgh	F	ES	2	83.3										
Dolphin	KI016	72.3	75.4	3.1	100	pgh	F	ES	3	96.8										
Dolphin	KI016	75.4	77.1	1.7	100	pgh	F	ES	1.5	88.2										
Dolphin	KI016	77.1	78.1	1	100	pgh	F	ES	0.8	80										
Dolphin	KI016	78.1	80.2	2.1	100	pgh	F	ES	2	95.2										

Assay Sheet															
Project	BHID	From m	To m	Sample #	Sn	WO3	Mo	Cu ppm	Pb ppm	Zn ppm	Ag	Bi	S	SG	Rock
Dolphin	KI016	16	17	73474		0.02									
Dolphin	KI016	17	18	73475		0.05									
Dolphin	KI016	18	19	73476		0.15									
Dolphin	KI016	19	20	73477		0.09									
Dolphin	KI016	20	21	73478		0.02									
Dolphin	KI016	21	22	73479		0.02									
Dolphin	KI016	22	23	73480		0.01									
Dolphin	KI016	23	24	73481		0.02									
Dolphin	KI016	24	25	73482		0.02									
Dolphin	KI016	25	26	73483		0.05									
Dolphin	KI016	26	27	73484		0.02									
Dolphin	KI016	27	28	73485		0.01									
Dolphin	KI016	28	29	73486		0.02									
Dolphin	KI016	29	30	73487		0.01									
Dolphin	KI016	30	31	73488		0.12									
Dolphin	KI016	31	32	73489		0.43									
Dolphin	KI016	32	33	73490		0.16									
Dolphin	KI016	33	34	73491		1.12									
Dolphin	KI016	34	35	73492		0.39									
Dolphin	KI016	35	36	73493		0.26									
Dolphin	KI016	36	37	73494		0.09									
Dolphin	KI016	37	38	73495		0.58									
Dolphin	KI016	38	39	73496		0.06									
Dolphin	KI016	39	40	73497		0.02									
Dolphin	KI016	40	41	73498		0.02									
Dolphin	KI016	41	42	73499		0.01									
Dolphin	KI016	42	43	73500		0.03									
Dolphin	KI016	43	44	73501		0.85									
Dolphin	KI016	44	45	73502		0.98									
Dolphin	KI016	45	46	73503		1.21									



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Assay Sheet															
Project	BHID	From m	To m		Sn	WO3		Cu ppm	Pb ppm	Zn ppm	Ag	Bi	Mo	As ppm	Rock
Dolphin	KI016	46	47	73504		0.88									
Dolphin	KI016	47	48	73505		0.49									
Dolphin	KI016	48	49	73506		0.47									
Dolphin	KI016	49	50	73507		0.52									
Dolphin	KI016	50	51	73508		1.10									
Dolphin	KI016	51	52	73509		0.43									
Dolphin	KI016	52	53	73510		0.91									
Dolphin	KI016	53	54	73511		0.73									
Dolphin	KI016	54	55	73512		0.91									
Dolphin	KI016	55	56	73513		0.46									
Dolphin	KI016	56	57	73514		0.28									
Dolphin	KI016	57	58	73515		0.38									
Dolphin	KI016	58	59	73516		0.22									
Dolphin	KI016	59	60	73517		0.35									
Dolphin	KI016	60	61	73518		0.28									
Dolphin	KI016	61	62	73519		0.02									
Dolphin	KI016	62	63	73520		0.14									
Dolphin	KI016	63	64	73521		0.10									
Dolphin	KI016	64	65	73522		0.14									
Dolphin	KI016	65	66	73523		0.20									
Dolphin	KI016	66	67	73524		0.61									
Dolphin	KI016	67	68	73525		0.01									
Dolphin	KI016	68	69	73526		0.02									
Dolphin	KI016	69	70	73527		0.18									
Dolphin	KI016	70	71	73528		0.06									
Dolphin	KI016	71	72	73529		0.02									
Dolphin	KI016	72	73	73530		0.13									
Dolphin	KI016	73	74	73531		0.02									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI017	0	4.9	Cgg	mv	Bi	A3					Dark grey/brown, massive basaltic volcanics. Strongly hornfelsed. Pevasive biotite and biotite spots.
Dolphin	KI017	4.9	5.1	Cgg	fz	Cy	G1		Ft			Broken core, puggy brittle fault.
Dolphin	KI017	5.1	6	Cgg	mv	Bi	A3					Dark grey/brown, massive basaltic volcanics. Strongly hornfelsed. Pevasive biotite and biotite spots. Faulted lower contact.
Dolphin	KI017	6	10	Cgg	pgH	GaPx	O1		Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite chlorite-actinolite skarn. Trace pyrite.
Dolphin	KI017	10	11.6	Cgg	bh	BiPx	B5		Sp			Massive brown/green biotite skarn. Intensely hornfelsed and crystalline. Late Py-Po veins.
Dolphin	KI017	11.6	13.9	Cgg	ph	Ca	G5		Sp	Bd	75	Dark green and cream actinolite-diopside altered limestone. Intensely hornfelsed. Brecciated and veined.
Dolphin	KI017	13.9	19	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale orange grossular on bedding boundaries. Strongly recrystallised.
Dolphin	KI017	19	23.6	Cgg	bh	BiPx	B5		Sp			Massive brown/green biotite skarn. Intensely hornfelsed and crystalline.
Dolphin	KI017	23.6	25	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale orange grossular on bedding boundaries. Strongly recrystallised.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI017	0	3	2.5	83.3	bh	F		W	0.6	20									
Dolphin	KI017	3	3.8	0.8	100	bh	F		ES	0.6	75									
Dolphin	KI017	3.8	5.1	1.3	100	fz	F		ES	1	76.9									
Dolphin	KI017	5.1	6	0.7	77.8	fz	F		ES	0	0									
Dolphin	KI017	6	9.1	3.1	100	pgH	F		ES	3	96.8									
Dolphin	KI017	9.1	11.5	2.4	100	bh	F		ES	2	83.3									
Dolphin	KI017	11.5	13	1.5	100	ph	F		ES	1.5	100									
Dolphin	KI017	13	16	3	100	ch	F		ES	2.6	86.7									
Dolphin	KI017	16	19	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI017	19	21.3	2.3	100	bh	F		ES	1.7	73.9									
Dolphin	KI017	21.3	24.4	3.1	100	bh	F		ES	2.5	80.6									
Dolphin	KI017	24.4	25	0.6	100	ch	F		ES	0.4	66.7									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI018	0	5.8	Cgg	mv	Bi	A3					Dark grey/brown, massive basaltic volcanics. Strongly hornfelsed. Pervasive biotite and biotite hornfels spotting.
Dolphin	KI018	5.1	13	Cgg	mv	Bi	A3	Gd				Dark grey/brown, massive basaltic volcanics. Strongly hornfelsed. Pervasive biotite and biotite spots. Faulted lower contact.
Dolphin	KI018	13	15.8	Cgg	ph	PxAc	G5	Sp				Dark green, foliated pyroxene hornfels with aplitic dykes. Intensely metasomatised and hornfelsed.
Dolphin	KI018	15.8	18	Dg	ap	Bi	C1	Sp				Light pink to cream very fine grained siliceous aplitic dyke. Fine grained biotite phenocrysts.
Dolphin	KI018	18	20.2	Cgg	mv	Ac	G4	Sp				Massive gabbroic dyke. Medium grained pyroxene phenocrysts in fine pale green pyroxene-actinolite matrix. Strongly hornfelsed and metasomatised.
Dolphin	KI018	20.2	21.8	Cgg	pgh	GaPx	G5	Gd				Mottled dark green pyroxene and lesser orange grossular calc-silicate skarn. Intensely metasomatised. No scheelite.
Dolphin	KI018	21.8	33	Cgg	ch	Ca	A1	Ft	Bd	80		Massive to bedded, pale grey limestone. Strongly hornfelsed and recrystallised to marble.
Dolphin	KI018	33	33.8		fz	CyCh	G3	Ft				Cushed puggy green clay. Brittle fault zone.
Dolphin	KI018	33.8	38.5	Cgg	bh	Bi	B5	Sp	Bd	80		Dark brown and green, laminated volcanoclastic siltstone. Intense biotite alteration with pyroxen/actinolite overprint.
Dolphin	KI018	38.5	40.2	Dg	ad	KfSi	C3	Sp				Massive, medium grained quartz-plagioclase-biotite adamellite. Strong silica-K alteration.
Dolphin	KI018	40.2	50	Cgg	bh	Bi	B5	Sp	Bd	80		Dark brown and green, laminated volcanoclastic siltstone. Intense biotite alteration with pyroxen/actinolite overprint. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI018	0	2.2	2.2	100	mv	F		W	0	0									
Dolphin	KI018	2.2	5.8	3.6	100	mv	F		ES	0.6	16.7									
Dolphin	KI018	5.8	7	1.2	100	mv	F		ES	1	83.3									
Dolphin	KI018	7	8.5	1.5	100	mv	F		ES	1.2	80									
Dolphin	KI018	8.5	10	1.5	100	mv	F		ES	1.4	93.3									
Dolphin	KI018	10	13	3	100	mv	F		ES	2.7	90									
Dolphin	KI018	13	16	3	100	ph	F		ES	1.2	40									
Dolphin	KI018	16	17.7	1.7	100	ap	F		ES	0.9	52.9									
Dolphin	KI018	17.7	19	1.3	100	ap	F		ES	1	76.9									
Dolphin	KI018	19	22	3	100	mv	F		ES	1.9	63.3									
Dolphin	KI018	22	25	3	100	ch	F		ES	2.7	90									
Dolphin	KI018	25	28	3	100	ch	F		ES	3	100									
Dolphin	KI018	28	31	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI018	31	34	3	100	ch	F		ES	2.1	70									
Dolphin	KI018	34	36.9	2.9	100	bh	F		ES	2.1	72.4									
Dolphin	KI018	36.9	40	3.1	100	ad	F		ES	3	96.8									
Dolphin	KI018	40	43	3	100	bh	F		ES	2.8	93.3									
Dolphin	KI018	43	46	3	100	bh	F		ES	2.5	83.3									
Dolphin	KI018	46	48.4	2.4	100	bh	F		ES	1.7	70.8									
Dolphin	KI018	48.4	50	1.6	100	bh	F		ES	1.4	87.5									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI019	0	30	Cgg	mv	Bi	A3			bd	30	Dark grey/brown, massive basaltic volcanics. Strongly hornfelsed. Pevasive biotite and biotite spots. Minor thin aplitic dykes.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI019	0	2.8	1.6	57.1	mv	F	W		0	0									
Dolphin	KI019	2.8	5.6	2.8	100	mv	F	ES	0.7	25										
Dolphin	KI019	5.6	7	1.4	100	mv	F	ES	0.8	57.1										
Dolphin	KI019	7	8	0	0	mv	F	ES	0	0										
Dolphin	KI019	8	9.6	1.6	100	mv	F	ES	0.5	31.3										
Dolphin	KI019	9.6	10.4	0.8	100	mv	F	ES	0.1	12.5										
Dolphin	KI019	10.4	11.7	1.3	100	mv	F	ES	0.5	38.5										
Dolphin	KI019	11.7	12.1	0.4	100	mv	F	ES	0.1	25										
Dolphin	KI019	12.1	13.8	1.7	100	mv	F	ES	0.6	35.3										
Dolphin	KI019	13.8	15.6	1.8	100	mv	F	ES	1.2	66.7										
Dolphin	KI019	15.6	17.8	2.2	100	mv	F	ES	1.7	77.3										
Dolphin	KI019	17.8	19.8	1.2	60	mv	F	ES	1.2	60										
Dolphin	KI019	19.8	21.1	2.1	162	mv	F	ES	1.6	123										
Dolphin	KI019	21.1	24.2	3.1	100	mv	F	ES	3	96.8										
Dolphin	KI019	24.2	27	2.8	100	mv	F	ES	2.5	89.3										
Dolphin	KI019	27	30	3	100	mv	F	ES	1.2	40										





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI020	0	4.5		fz	CyCh	G5			Ft		Broken puggy core. Core loss. Puggy green clay/chlorite with minor euhedral pyrite.
Dolphin	KI020	4.5	6.2	Cgg	mv	Bi	B4		Ft			Dark grey/brown, massive basaltic volcanics. Strongly hornfelsed. Pevasive biotite and biotite spots.
Dolphin	KI020	6.2	7.4		fz	Ca	W		Ft	Ft	30	White, laminated/foliated calcite filled fault.
Dolphin	KI020	7.4	25		mv	Bi	B4		Ft		35	Dark grey/brown, massive basaltic volcanoclastic sandstone and laminated siltstone. Pervasive biotite with later Actinolite overprint. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI020	0	3	1.2	40	mv	F		W	0	0									
Dolphin	KI020	3	5.8	2.1	75	mv	F		ES	0	0									
Dolphin	KI020	5.8	6.2	0.4	100	mv	F		ES	0	0									
Dolphin	KI020	6.2	7.4	1.2	100	mv	F		ES	0.5	41.7									
Dolphin	KI020	7.4	8.8	0.6	42.9	mv	F		ES	0.2	14.3									
Dolphin	KI020	8.8	10	1.2	100	mv	F		ES	1.2	100									
Dolphin	KI020	10	11.9	1.9	100	mv	F		ES	1.5	78.9									
Dolphin	KI020	11.9	14	2.1	100	mv	F		ES	1.2	57.1									
Dolphin	KI020	14	16.9	2.9	100	mv	F		ES	1.7	58.6									
Dolphin	KI020	16.9	18.5	1.6	100	mv	F		ES	1.2	75									
Dolphin	KI020	18.5	20.8	2.3	100	mv	F		ES	1.7	73.9									
Dolphin	KI020	20.8	23.8	3	100	mv	F		ES	2	66.7									
Dolphin	KI020	23.8	25	1.2	100	mv	F		ES	0.4	33.3									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI021	0	2.4									No core recovery
Dolphin	KI021	2.4	4.2	Cgg	ph	Ca	G5		Sp	Bd	75	Dark green and cream actinolite-diopside altered limestone. Intensely hornfelsed. Brecciated and veined. Patches of limestone. Scheelite mineralisation.
Dolphin	KI021	4.2	5.8	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale orange grossular on bedding boundaries. Strongly recrystallised.
Dolphin	KI021	5.8	8.3	Cgg	pgh	GaPx	O1		Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite chlorite-actinolite skarn. Patchy scheelite mineralisation.
Dolphin	KI021	8.3	11.1	Cgg	ch	Ca	A1		Sp	Bd	75	Massive beds of pale grey limestone with lesser bands of pale orange grossular on bedding boundaries. Strongly recrystallised.
Dolphin	KI021	11.1	12.4	Cgg	pgh	GaPx	O1		Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite chlorite-actinolite skarn. Patchy scheelite mineralisation.
Dolphin	KI021	12.4	15	Cgg	bh	BiAc	B4		Gd			Dark brown, massive volcanoclastic sandstone. Pervasive biotite alteration with late pyroxene-actinolite overprint. No scheelite.
Dolphin	KI021	15	16.5	Cgg	ph	Ca	G5		Sp	Bd	75	Dark green and cream actinolite-diopside altered limestone. Intensely hornfelsed. Brecciated and veined. Patches of limestone. Scheelite mineralisation.
Dolphin	KI021	16.5	17.3	Cgg	bh	BiAc	B4		Sp			Dark brown, massive volcanoclastic sandstone. Pervasive biotite alteration with late pyroxene-actinolite overprint. No scheelite.
Dolphin	KI021	17.3	18.3	Dp	ap	SiBi	A2		Sp			Very fine grained siliceous pale grey aplite dyke. Fine biotite phenocrysts in siliceous matrix.
Dolphin	KI021	18.3	30	Cgg	mv	BiAc	B4					Massive volcanoclastic sandstone and lesser siltstone. Strongly hornfelsed. Pervasive biotite alteration. EOH

Geotech Sheet																			
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments
Dolphin	KI017	0	3	2.5	83.3	bh	F		W	0.6	20								
Dolphin	KI017	3	3.8	0.8	100	bh	F		ES	0.6	75								
Dolphin	KI017	3.8	5.1	1.3	100	fz	F		ES	1	76.9								
Dolphin	KI017	5.1	6	0.7	77.8	fz	F		ES	0	0								
Dolphin	KI017	6	9.1	3.1	100	pgh	F		ES	3	96.8								
Dolphin	KI017	9.1	11.5	2.4	100	bh	F		ES	2	83.3								
Dolphin	KI017	11.5	13	1.5	100	ph	F		ES	1.5	100								
Dolphin	KI017	13	16	3	100	ch	F		ES	2.6	86.7								
Dolphin	KI017	16	19	3	100	ch	F		ES	2.8	93.3								
Dolphin	KI017	19	21.3	2.3	100	bh	F		ES	1.7	73.9								
Dolphin	KI017	21.3	24.4	3.1	100	bh	F		ES	2.5	80.6								
Dolphin	KI017	24.4	25	0.6	100	ch	F		ES	0.4	66.7								







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI022	0	8	nc	mv	BIAc	B4					Poor core recovery. Backfill
Dolphin	KI022	8	10.4	Cgg	gh	GaPx	B5			Bk		Massive volcanoclastic sandstone and lesser siltstone. Strongly hornfelsed. Pervasive biotite alteration.
Dolphin	KI022	10.4	11.6	Cgg	gh	GaPx	B5					Massive daek brown andradite skarn. Crystalline with interstitial calcite and scheelite. Lesser pyroxene skarn.
Dolphin	KI022	11.6	14.3	Cgg	mv	BIAc	B4					Massive volcanoclastic sandstone and lesser siltstone. Strongly hornfelsed. Pervasive biotite alteration.
Dolphin	KI022	14.3	15	Dg	ad	Ca	C2			Sp		Massive medium grained quartz-biotite-plagioclase adamellite. Moderate kfeldspar and silica alteration.
Dolphin	KI022	15	15.1	Cgg	fz	Cy	G2			Ft		Puggy brittle fault.
Dolphin	KI022	15.1	16.9	Cgg	pgh	GaPx	O1			Sp		Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite chlorite-actinolite skarn. Patchy scheelite mineralisation.
Dolphin	KI022	16.9	17	Cgg	fz	Cy	G2			Ft		Puggy brittle fault.
Dolphin	KI022	17	27.6	Cgg	mv	ChPx	G4			Sp		Massive, dark green, pyroxene phyric gabbro. Strongly hornfelsed, pervasive biotite-pyroxene-actinolite alteration.
Dolphin	KI022	27.6	28.8	Cgg	fz	Cy	G2			Ft		Puggy brittle fault.
Dolphin	KI022	28.8	29.9	Ln	q	Si	A2			Sp		Massive, pale grey fine grained quartzite. Strongly hornfelsed and intensely silicified.
Dolphin	KI022	29.9	31.3	Dg	ap	SiBi	A2			Sp		Very fine grained siliceous pale grey aplite dyke. Fine biotite phenocrysts in siliceous matrix.
Dolphin	KI022	31.3	33	Dg	ad	BIkf	B3			2 Sp		Massive, very coarse grained biotite-kfeldspar pegmatite and fine grained aplite. Kfeldspar phenos in coarse biotite matrix. Coarse disseminated Po-Py xtals.
Dolphin	KI022	33	34.8	Ln	q	Si	A2			Sp		Massive, pale grey fine grained quartzite. Strongly hornfelsed and intensely silicified.
Dolphin	KI022	34.8	35.8	Dg	ad	Ca	C2			Sp		Massive medium grained quartz-biotite-plagioclase adamellite. Moderate kfeldspar and silica alteration.
Dolphin	KI022	35.8	46.9	Ln	q	Si	A2			Sp		Massive, pale grey fine grained quartzite. Strongly hornfelsed and intensely silicified. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI022	0	3	0.8	26.7	nc	F	W	0	0	0									
Dolphin	KI022	3	6	0.5	16.7	nc	F	W	0	0	0									
Dolphin	KI022	6	8.8	1.7	60.7	nc	F	W	0.7	25										
Dolphin	KI022	8.8	11.1	2.3	100	mv	F	ES	1.2	52.2										
Dolphin	KI022	11.1	11.8	0.7	100	mv	F	ES	0	0										
Dolphin	KI022	11.8	13.7	1.9	100	mv	F	ES	1.2	63.2										
Dolphin	KI022	13.7	16	2.3	100	ad	F	ES	1.4	60.9										
Dolphin	KI022	16	18.2	2.2	100	mv	F	ES	1.9	86.4										
Dolphin	KI022	18.2	20.3	2.1	100	mv	F	ES	1.9	90.5										
Dolphin	KI022	20.3	22	1.5	88.2	mv	F	ES	1.4	82.4										
Dolphin	KI022	22	25	3	100	mv	F	ES	2.4	80										
Dolphin	KI022	25	26.8	1.8	100	mv	F	ES	1	55.6										
Dolphin	KI022	26.8	27.8	1	100	mv	F	ES	0.4	40										
Dolphin	KI022	27.8	29.2	1	71.4	fz	F	ES	0	0										
Dolphin	KI022	29.2	30.6	1.4	100	q	F	ES	1	71.4										
Dolphin	KI022	30.6	32.6	1.8	90	ap	F	ES	1.6	80										
Dolphin	KI022	32.6	34	1.4	100	ap	F	ES	1.4	100										
Dolphin	KI022	34	37	3	100	q	F	ES	2.9	96.7										
Dolphin	KI022	37	40	3	100	q	F	ES	1.9	63.3										
Dolphin	KI022	40	42.6	2.6	100	q	F	ES	1.8	69.2										
Dolphin	KI022	42.6	44.6	2	100	q	F	ES	1.5	75										
Dolphin	KI022	44.6	46.9	2.3	100	q	F	ES	2	87										







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI023	0	9	nc	nc							Poor core recovery. Backfill
Dolphin	KI023	9	11.5	Cgg	gh	GaPx	B5		Bk			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI023	11.5	11.9	Cgg	fz	Cy	G2		Ft			Puggy brittle fault. Core loss
Dolphin	KI023	11.9	26.2	Cgg	gh	GaPx	B5		Gd			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI023	26.2	30.9	Cgg	ch	CaGa	A2		Gd	Bd	15	Massive pale grey limestone. Strongly recrystallised and hornfelsed. Minor grossular.
Dolphin	KI023	30.9	34.6	Cgg	bh	Bi	B5			Bd	15	Laminated dark brown volcanoclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI023	34.6	35	Cgg	fz	Cy	G2		Ft			Puggy brittle fault. Core loss
Dolphin	KI023	35	38	Cgg	ch	CaGa	A2		Gd	Bd	15	Massive pale grey limestone. Strongly recrystallised and hornfelsed. Minor pale green pyroxene skarn.
Dolphin	KI023	38	41.3	Cgg	pgh	GaPx	O1		Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite andradite skarn. Patchy scheelite mineralisation.
Dolphin	KI023	41.3	48.3	Cgg	ch	CaGa	A2		Gd	Bd	15	Massive pale grey limestone. Strongly recrystallised and hornfelsed. Minor pale green pyroxene skarn.
Dolphin	KI023	48.3	49.5	Dg	ap	SiBi	A2		Sp			Very fine grained siliceous pale grey apite dyke. Fine biotite phenocrysts in siliceous matrix.
Dolphin	KI023	49.5	53.9	Cgg	pgh	GaPx	O1		Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite andradite skarn. Patchy scheelite mineralisation.
Dolphin	KI023	53.9	60.5	Cgg	gh	GaPx	B5		Gd			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet. Lesser grossular and pyroxene. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths > 10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI023	0	2	0.8	40	nc	F		W	0	0									
Dolphin	KI023	2	5	0.2	6.67	nc	F		W	0	0									
Dolphin	KI023	5	8.5	1.4	40	nc	F		W	0.4	11.4									
Dolphin	KI023	8.5	11.5	2.8	93.3	gh	F		ES	1.7	56.7									
Dolphin	KI023	11.5	11.9	0	0	nc	F		ES	0	0									
Dolphin	KI023	11.9	15.5	3.6	100	gh	F		ES	3.5	97.2									
Dolphin	KI023	15.5	18	2.5	100	gh	F		ES	2.5	100									
Dolphin	KI023	18	19	1	100	gh	F		ES	1	100									
Dolphin	KI023	19	22	3	100	gh	F		ES	2.8	93.3									
Dolphin	KI023	22	25	3	100	gh	F		ES	2.9	96.7									
Dolphin	KI023	25	27	2	100	ch	F		ES	2	100									
Dolphin	KI023	27	28	1	100	ch	F		ES	1	100									
Dolphin	KI023	28	31	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI023	31	33.9	2.9	100	ch	F		ES	2.7	93.1									
Dolphin	KI023	33.9	34.6	0.7	100	bh	F		ES	0.2	28.6									
Dolphin	KI023	34.6	35.3	0.3	42.9	nc	F		ES	0	0									
Dolphin	KI023	35.3	37	1.7	100	ch	F		ES	1.7	100									
Dolphin	KI023	37	38.7	1.7	100	ch	F		ES	1.6	94.1									
Dolphin	KI023	38.7	40	1.3	100	pgh	F		ES	1.3	100									
Dolphin	KI023	40	42.3	2.3	100	ch	F		ES	1.6	69.6									
Dolphin	KI023	42.3	44	1.7	100	ch	F		ES	1.6	94.1									
Dolphin	KI023	44	46	2	100	ch	F		ES	0.4	20									
Dolphin	KI023	46	49	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI023	49	52	3	100	pgh	F		ES	3	100									
Dolphin	KI023	52	55	3	100	pgh	F		ES	3	100									
Dolphin	KI023	55	57.4	2.4	100	gh	F		ES	2.2	91.7									
Dolphin	KI023	57.4	60.5	3.1	100	gh	F		ES	3.1	100									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI024	0	4.3		nc							Poor core recovery. Backfill
Dolphin	KI024	4.3	8	Cgg	gh	GaPx	B5		Bk			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI024	8	15	Cgg	pgh	GaPx	O1		Sp	Bn	30	Massive, banded pale green and brown andradite-pyroxene skarn. Lesser grossular skarn. Patchy scheelite mineralisation.
Dolphin	KI024	15	16.3	Cgg	ch	CaGa	A2		Gd	Bd	15	Massive pale grey limestone. Strongly recrystallised and hornfelsed. Minor grossular.
Dolphin	KI024	16.3	29.1	Cgg	gh	GaPx	B5		Bk			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI024	29.1	31.4	Cgg	ch	CaGa	A2		Gd	Bd	15	Massive pale grey limestone. Strongly recrystallised and hornfelsed. Minor grossular.
Dolphin	KI024	31.4	34.2	Cgg	pgh	GaPx	O1		Sp			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite andradite skarn. Patchy scheelite mineralisation.
Dolphin	KI024	34.2	39.5	Cgg	ch	CaGa	A2		Gd	Bd	15	Massive pale grey limestone. Strongly recrystallised and hornfelsed. Minor grossular.
Dolphin	KI024	39.5	50	Cgg	bfb	GaPx	G3			Bd	20	Banded orange green white and brown, grossular-limestone-biotite hornfelsed volcaniclastic and pyroxene skarn. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI024	0	2.5	1.2	48	nc	F		W	0	0									
Dolphin	KI024	2.5	6	2.1	60	nc	F		W	0.4	11.4									
Dolphin	KI024	6	8.5	2.5	100	nc	F		W	2.4	96									
Dolphin	KI024	8.5	10	1.5	100	gh	F		ES	1.5	100									
Dolphin	KI024	10	12.7	2.7	100	nc	F		ES	2.5	92.6									
Dolphin	KI024	12.7	14.3	1.6	100	gh	F		ES	1.2	75									
Dolphin	KI024	14.3	16.6	2.3	100	gh	F		ES	1.7	73.9									
Dolphin	KI024	16.6	19	2.4	100	gh	F		ES	2.2	91.7									
Dolphin	KI024	19	21.5	2.5	100	gh	F		ES	2	80									
Dolphin	KI024	21.5	24.6	3.1	100	gh	F		ES	3.1	100									
Dolphin	KI024	24.6	27.7	3.1	100	ch	F		ES	3.1	100									
Dolphin	KI024	27.7	30.8	3.1	100	ch	F		ES	2.8	90.3									
Dolphin	KI024	30.8	34	3.2	100	ch	F		ES	2.6	81.3									
Dolphin	KI024	34	37	3	100	ch	F		ES	3	100									
Dolphin	KI024	37	40	3	100	bh	F		ES	3	100									
Dolphin	KI024	40	43	3	100	nc	F		ES	3	100									
Dolphin	KI024	43	46	3	100	ch	F		ES	3	100									
Dolphin	KI024	46	49	3	100	ch	F		ES	3	100									
Dolphin	KI024	49	50	1	100	pgh	F		ES	1	100									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI025	0	2.5	Cgg	gh	GaPx	B5		Bk			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet. Very Broken, core loss.
Dolphin	KI025	2.5	5	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI025	5	5.8	Dg	ap	Si	W1		Sp			Massive, very fine grained white aplitic dyke. Fine biotite phenocrysts in microcrystalline siliceous groundmass.
Dolphin	KI025	5.8	15.4	Cgg	pgh	GaPx	O1		Ft			Massive, mottled pale green and orange grossular-pyroxene skarn. Lesser biotite andradite skarn and limestone. Patchy scheelite mineralisation.
Dolphin	KI025	15.4	15.8		fz	Cy	G4		Ft			Puggy fault. Core loss.
Dolphin	KI025	15.8	38	Cgg	bfb	GaPx	B5		Sp	Bn	45	Banded dark brown and green garnet-pyroxene skarn. Crystalline with interstitial calcite and scheelite. Lesser bands of pyroxene skarn and grossular skarn.
Dolphin	KI025	38	44.9	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite.
Dolphin	KI025	44.9	48.1	Cgg	bh	Bi	B5		Sp	Bd	15	Laminated volcanoclastic sandstone and siltstone. Strongly hornfelsed and biotite-pyroxene altered.
Dolphin	KI025	48.1	50	Cgg	pgh	GaPx	G3			Bd	15	Banded Brown green, pyroxene-andradite skarn with lesser biotite altered volcanoclastic siltstone bands. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI025	0	2.5	0	0	nc	F	W		0	0									
Dolphin	KI025	2.5	5.8	3.1	93.9	nc	F	W		1.7	51.5									
Dolphin	KI025	5.8	7	1.1	91.7	nc	F	W		0.7	58.3									
Dolphin	KI025	7	9.6	2.6	100	gh	F	ES		2.3	88.5									
Dolphin	KI025	9.6	12.7	3.1	100	nc	F	ES		3.1	100									
Dolphin	KI025	12.7	15.4	2.7	100	gh	F	ES		2.5	92.6									
Dolphin	KI025	15.4	18.3	2.7	93.1	gh	F	ES		2.6	89.7									
Dolphin	KI025	18.3	21.3	3	100	gh	F	ES		3	100									
Dolphin	KI025	21.3	24.4	3.1	100	gh	F	ES		3	96.8									
Dolphin	KI025	24.4	27.5	3.1	100	gh	F	ES		3	96.8									
Dolphin	KI025	27.5	30.6	3.1	100	ch	F	ES		2.7	87.1									
Dolphin	KI025	30.6	33.7	3.1	100	ch	F	ES		3	96.8									
Dolphin	KI025	33.7	35.2	1.5	100	ch	F	ES		1	66.7									
Dolphin	KI025	35.2	37	1.8	100	ch	F	ES		1.5	83.3									
Dolphin	KI025	37	40	3	100	bh	F	ES		2.7	90									
Dolphin	KI025	40	43	3	100	nc	F	ES		3	100									
Dolphin	KI025	43	45.4	2.5	104	ch	F	ES		2.5	104									
Dolphin	KI025	45.4	48.5	3.1	100	ch	F	ES		3.1	100									
Dolphin	KI025	48.5	50	1.5	100	pgh	F	ES		1.5	100									



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Assay Sheet															
Project	BHID	From m	To m	Sample #	Sn	WO3	Mo	Cu ppm	Pb ppm	Zn ppm	Ag	Bi	S	SG	Rock
Dolphin	KI025	0	2.5	73678		1.32									
Dolphin	KI025	2.5	3	73679		0.05									
Dolphin	KI025	3	4	73680		0.74									
Dolphin	KI025	4	5	73681		1.44									
Dolphin	KI025	5	6	73682		0.44									
Dolphin	KI025	6	7	73683		0.57									
Dolphin	KI025	7	8	73684		0.1									
Dolphin	KI025	8	9	73685		-0.01									
Dolphin	KI025	9	10	73686		0.03									
Dolphin	KI025	10	11	73687		0.02									
Dolphin	KI025	11	12	73688		0.03									
Dolphin	KI025	12	13	73689		0.1									
Dolphin	KI025	13	14	73690		0.14									
Dolphin	KI025	14	15	73691		0.08									
Dolphin	KI025	15	16	73692		0.06									
Dolphin	KI025	16	17	73693		0.01									
Dolphin	KI025	17	18	73694		-0.01									
Dolphin	KI025	18	19	73695		0.05									
Dolphin	KI025	19	20	73696		1.12									
Dolphin	KI025	20	21	73697		1.1									
Dolphin	KI025	21	22	73698		0.71									
Dolphin	KI025	22	23	73699		0.25									
Dolphin	KI025	23	24	73700		0.25									
Dolphin	KI025	24	25	73701		0.02									
Dolphin	KI025	25	26	73702		0.01									
Dolphin	KI025	26	27	73703		0.01									
Dolphin	KI025	27	28	73704		0.01									
Dolphin	KI025	28	29	73705		0.01									
Dolphin	KI025	29	30	73706		-0.01									
Dolphin	KI025	30	31	73707		0.06									

Assay Sheet															
Project	BHID	From m	To m		Sn	WO3		Cu ppm	Pb ppm	Zn ppm	Ag	Bi	Mo	As ppm	Rock
Dolphin	KI025	31	32	73708		0.54									
Dolphin	KI025	32	33	73709		0.14									
Dolphin	KI025	33	34	73710		0.07									
Dolphin	KI025	34	35	73711		0.12									
Dolphin	KI025	35	36	73712		0.04									
Dolphin	KI025	36	37	73713		0.06									
Dolphin	KI025	37	38	73714		0.04									
Dolphin	KI025	38	39	73715		0.03									
Dolphin	KI025	39	40	73716		0.27									
Dolphin	KI025	40	41	73717		0.43									
Dolphin	KI025	41	42	73718		0.16									
Dolphin	KI025	42	43	73719		0.08									
Dolphin	KI025	43	44	73720		0.07									
Dolphin	KI025	44	45	73721		0.12									
Dolphin	KI025	45	46	73722		0.02									
Dolphin	KI025	46	47	73723		0.04									
Dolphin	KI025	47	48	73724		0.01									
Dolphin	KI025	48	49	73725		0.21									
Dolphin	KI025	49	50	73726		0.33									
Dolphin	KI025	STD		73727		0.03									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI026	0	1		nc							No core recovery
Dolphin	KI026	1	3.5	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite.
Dolphin	KI026	3.5	4	Cgg	ch	CaPx	A2		Sp			Massive and banded pale grey limestone with bands of green pyroxene skarn. Patchy fine disseminated scheelite.
Dolphin	KI026	4	23	Cgg	gh	GaPx	B5		Gd			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of green pyroxene skarn.
Dolphin	KI026	23	35.3	Cgg	pgh	GaPx	G3		Gd			Banded Brown green, pyroxene-andradite skarn with lesser biotite altered volcaniclastic siltstone bands. Patchy disseminated scheelite.
Dolphin	KI026	35.3	40	Cgg	bfb	GaCa	B5		Sp	Bn	60	Banded dark brown, orange and green garnet-pyroxene skarn with bands of grey limestone. Grossular on limestone contacts. Patchy scheelite. EOH

Geotech Sheet																			
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments
Dolphin	KI026	0	3	2.2	73.3	gh	F		W	1	33.3								
Dolphin	KI026	3	4	1	100	gh	F		ES	0.2	20								
Dolphin	KI026	4	5.5	1.5	100	gh	F		ES	1.4	93.3								
Dolphin	KI026	5.5	7	1.5	100	gh	F		ES	1.5	100								
Dolphin	KI026	7	10	3	100	gh	F		ES	3	100								
Dolphin	KI026	10	13	3	100	gh	F		ES	3	100								
Dolphin	KI026	13	16	3	100	gh	F		ES	2.6	86.7								
Dolphin	KI026	16	19	2.9	96.7	gh	F		ES	2.6	86.7								
Dolphin	KI026	19	21.7	2.7	100	gh	F		ES	2.5	92.6								
Dolphin	KI026	21.7	24.8	3.1	100	pgh	F		ES	3	96.8								
Dolphin	KI026	24.8	27.9	3.1	100	pgh	F		ES	3.1	100								
Dolphin	KI026	27.9	31	3.1	100	pgh	F		ES	3.1	100								
Dolphin	KI026	31	33.7	2.1	77.8	pgh	F		ES	2.7	100								
Dolphin	KI026	33.7	35	1.3	100	pgh	F		ES	1.3	100								
Dolphin	KI026	35	37	2	100	bfb	F		ES	2	100								
Dolphin	KI026	37	40	3	100	bfb	F		ES	3	100								







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI027	0	2.5		nc							No core recovery
Dolphin	KI027	2.5	6	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very poor core recovery.
Dolphin	KI027	6	12.3	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint. Poor core recovery Faulted?
Dolphin	KI027	12.3	14.8	Cgg	ch	CaPx	A2		Sp			Massive and banded pale grey limestone with grossular on margins. Patchy fine disseminated scheelite.
Dolphin	KI027	14.8	15.9	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint. Faulted?
Dolphin	KI027	15.9	28.2	Cgg	gh	GaPx	B5		Gd			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of green pyroxene skarn.
Dolphin	KI027	28.2	29	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI027	29	30.5	Dg	ad	Bi	W2					Massive, medium to fine grained quartz-plagioclase-biotite adamellite. Biotite hornfels selvage and xenoliths.
Dolphin	KI027	30.5	36.9	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI027	36.9	40.2	Cgg	lv	BiPx	A4		Sp			Massive, pyroxene phyrlic gabbro. Intense biotite alteration with biotite spotting replacing phenocrysts. Clay filled brittle fractures.
Dolphin	KI027	40.2	45	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI027	45	45.3	Dg	fz	Cy	A3		Ft			Puggy Fault zone.
Dolphin	KI027	45.3	50	Dg	ad	CaBi	C2					Massive, pale cream medium grained quartz-plagioclase-biotite adamellite. Numerous vughy calcite veins. Very broken and faulted with puggy zones and core loss. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI027	0	2.5	0.3	12	nc	F		W	0	0									
Dolphin	KI027	2.5	4.3	1.1	61.1	gh	F	ES	0.6	33.3										
Dolphin	KI027	4.3	5.8	0.2	13.3	gh	F	W	0	0										
Dolphin	KI027	5.8	8.8	0.9	30	bh	F	ES	0.4	13.3										
Dolphin	KI027	8.8	11.8	1.8	60	bh	F	ES	0.2	6.67										
Dolphin	KI027	11.8	14.8	2.6	86.7	ch	F	ES	1.4	46.7										
Dolphin	KI027	14.8	15.5	0.7	100	bh	F	ES	0.2	28.6										
Dolphin	KI027	15.5	15.7	0	0	gh	F	W	0	0										
Dolphin	KI027	15.7	16.5	0.8	100	gh	F	ES	0.4	50										
Dolphin	KI027	16.5	18.1	1.6	100	gh	F	ES	1.6	100										
Dolphin	KI027	18.1	20.4	2.3	100	gh	F	ES	2	87										
Dolphin	KI027	20.4	22	1.6	100	gh	F	ES	1.5	93.7										
Dolphin	KI027	22	24.8	2.8	100	gh	F	ES	2.8	100										
Dolphin	KI027	24.8	27.3	2.5	100	gh	F	ES	2.2	88										
Dolphin	KI027	27.3	30.4	3.1	100	bh	F	ES	3.1	100										
Dolphin	KI027	30.4	33.5	3.1	100	bh	F	ES	3	96.8										
Dolphin	KI027	33.5	36.6	3.1	100	bh	F	ES	2.7	87.1										
Dolphin	KI027	36.6	38.9	2.3	100	bh	F	W	0	0										
Dolphin	KI027	38.9	40	1.1	100	bh	F	W	0	0										
Dolphin	KI027	40	42.2	2.2	100	bh	F	ES	1.7	77.3										
Dolphin	KI027	42.2	45.3	3.1	100	bh	F	ES	1.8	58.1										
Dolphin	KI027	45.3	48.4	3.1	100	ad	F	ES	1.3	41.9										
Dolphin	KI027	48.4	50	1.6	100	ad	F	W	0	0										







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI028	0	2		nc							No core recovery
Dolphin	KI028	2	8.8	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite.
Dolphin	KI028	8.8	13.1	Cgg	ch	CaPx	A2		Sp			Massive and banded pale grey limestone with grossular on margins. Minor biotite altered siltstone.
Dolphin	KI028	13.1	15.4	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI028	15.4	16.3	Cgg	ch	CaPx	A2		Sp			Massive and banded pale grey limestone with grossular on margins. Minor biotite altered siltstone.
Dolphin	KI028	16.3	24.4	Cgg	pgh	GaPx	G3		Sp	Bn	45	Banded andradite-pyroxene skarn with bands of intense biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI028	24.4	29.1	Cgg	gh	GaPx	B5		Sp	Bn	70	Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Minor Pyroxene bands
Dolphin	KI028	29.1	30.8	Cgg	pgh	GaPx	G3		Sp	Bn	45	Banded andradite-pyroxene skarn with bands of intense biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI028	30.8	40	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI028	0	2.8	0.7	25	nc	F		W	0	0									
Dolphin	KI028	2.8	5.8	2.9	96.7	gh	F		ES	0.3	10									
Dolphin	KI028	5.8	7	1.1	91.7	gh	F		W	1	83.3									
Dolphin	KI028	7	10	2.8	93.3	gh	F		ES	2.2	73.3									
Dolphin	KI028	10	13	3	100	ch	F		ES	1.4	46.7									
Dolphin	KI028	13	15.7	2.7	100	bh	F		ES	2.1	77.8									
Dolphin	KI028	15.7	17.6	1.9	100	ch	F		ES	1.6	84.2									
Dolphin	KI028	17.6	19	1.4	100	pgh	F		W	1.4	100									
Dolphin	KI028	19	22	3	100	pgh	F		ES	2.8	93.3									
Dolphin	KI028	22	25	3	100	pgh	F		ES	2.8	93.3									
Dolphin	KI028	25	28	3	100	gh	F		ES	2.8	93.3									
Dolphin	KI028	28	31	3	100	pgh	F		ES	2.8	93.3									
Dolphin	KI028	31	34	3	100	bh	F		ES	2.6	86.7									
Dolphin	KI028	34	37	3	100	bh	F		ES	3	100									
Dolphin	KI028	37	40	3	100	bh	F		ES	2.6	86.7									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI029	0	0.6		nc							No core recovery
Dolphin	KI029	0.6	4.3	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very poor core recovery.
Dolphin	KI029	4.3	11.9	Cgg	pgh	GaPx	G3		Sp	Bn	30	Banded andradite-pyroxene skarn with bands of intense biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI029	11.9	25	Cgg	bh	BiAc	B5		Sp	Bd	45	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI029	0	3	2.8	93.3	nc	F	W		2	66.7									
Dolphin	KI029	3	5.3	2.3	100	gh	F	ES		1.2	52.2									
Dolphin	KI029	5.3	7	1.7	100	pgh	F	ES		1.7	100									
Dolphin	KI029	7	10	3	100	pgh	F	ES		3	100									
Dolphin	KI029	10	12.1	2.1	100	pgh	F	ES		1.8	85.7									
Dolphin	KI029	12.1	14.3	2.2	100	bh	F	ES		1.9	86.4									
Dolphin	KI029	14.3	15.7	1.4	100	bh	F	ES		0.4	28.6									
Dolphin	KI029	15.7	18.8	3.1	100	bh	F	ES		2.9	93.5									
Dolphin	KI029	18.8	20.1	1.3	100	bh	F	ES		0.1	7.69									
Dolphin	KI029	20.1	22.3	2.2	100	bh	F	ES		0.4	18.2									
Dolphin	KI029	22.3	25	2.7	100	bh	F	ES		2.2	81.5									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI030	0	0.3		nc							No core recovery
Dolphin	KI030	0.3	1.5	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very poor core recovery.
Dolphin	KI030	1.5	6.3	Cgg	bfb	GaPx	G3		Sp	Bn	60	Banded andradite-pyroxene-grossular skarn with bands of intense biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI030	6.3	12.5	Cgg	lv	BiAc	B5		Sp	Bd	40	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI030	12.5	13.8	Dg	ap	Si	C2					Massive, white, fine grained aplite dyke. Strong silica-kfeldspar alteration. Fine biotite phenos.
Dolphin	KI030	13.8	17.4	Cgg	lv	BiAc	B5		Sp	Bd	40	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI030	17.4	24.1	Cgg	lv	BiPx	A4					Massive, pyroxene phyric baggro. Intense biotite alteration with Px phenocrysts altered to biotite.
Dolphin	KI030	24.1	25	Cgg	lv	BiAc	B5		Sp	Bd	40	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI030	0	2.8	2.6	92.9	nc	F		W	1.7	60.7									
Dolphin	KI030	2.8	3.7	0.9	100	gh	F		ES	0.7	77.8									
Dolphin	KI030	3.7	5.9	2.2	100	bfb	F		ES	1.8	81.8									
Dolphin	KI030	5.9	7.2	1.3	100	bfb	F		ES	0.9	69.2									
Dolphin	KI030	7.2	9.5	2.3	100	lv	F		ES	1.7	73.9									
Dolphin	KI030	9.5	11.1	1.6	100	lv	F		ES	1.1	68.8									
Dolphin	KI030	11.1	13.8	2.6	96.3	lv	F		ES	1.4	51.9									
Dolphin	KI030	13.8	14.8	0.4	40	lv	F		ES	0	0									
Dolphin	KI030	14.8	15.6	0.7	87.5	lv	F		ES	0.3	37.5									
Dolphin	KI030	15.6	16.8	1.2	100	lv	F		ES	0.9	75									
Dolphin	KI030	16.8	19	2.2	100	lv	F		ES	2.1	95.5									
Dolphin	KI030	19	21.3	2.3	100	lv	F		ES	1.8	78.3									
Dolphin	KI030	21.3	22.6	1.3	100	lv	F		ES	1.3	100									
Dolphin	KI030	22.6	23.5	0.9	100	lv	F		ES	0.3	33.3									
Dolphin	KI030	23.5	25	1.5	100	lv	F		ES	1.3	86.7									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI031	0	1.8		nc							No core recovery
Dolphin	KI031	1.8	3	Cgg	bh	BiAc	B5					Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI031	3	9	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with grossular on margins. Minor biotite altered siltstone and pyroxene skarn bands.
Dolphin	KI031	9	11	Cgg	bh	BiAc	B5					Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI031	11	21.4	Cgg	bfb	CaGa	A2		Sp	Bn	50	Banded volcaniclastic siltstone, pale grey limestone, andradite skarn, grossular skarn and pyroxene skarn. Minor scheelite
Dolphin	KI031	21.4	26.1	Cgg	lv	BiAc	B5		Ft	Bd	50	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI031	26.1	26.6		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI031	26.6	32.5	Cgg	lv	BiAc	B5		Ft	Bd	50	Bleached and broken volcaniclastic sandstone. Biotite alteration with late actinolite-pyroxene overprint. Puggy Fractures.

Geotech Sheet																			
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments
Dolphin	KI031	0	0.3	1.8	600	nc	F		W	0.2	66.7								
Dolphin	KI031	0.3	3.2	0.2	6.9	bh	F		ES	0.2	6.9								
Dolphin	KI031	3.2	5.3	2.1	100	ch	F		ES	1.4	66.7								
Dolphin	KI031	5.3	7	1.7	100	ch	F		ES	1.7	100								
Dolphin	KI031	7	10	3	100	ch	F		ES	2.9	96.7								
Dolphin	KI031	10	12.3	2.3	100	bfb	F		ES	2.1	91.3								
Dolphin	KI031	12.3	14.6	2.3	100	bfb	F		ES	1.9	82.6								
Dolphin	KI031	14.6	16	1.4	100	bfb	F		ES	0.6	42.9								
Dolphin	KI031	16	17	0	0	bfb	F		ES	0	0								
Dolphin	KI031	17	17.9	0.9	100	bfb	F		ES	0.2	22.2								
Dolphin	KI031	17.9	18.6	0.3	42.9	bfb	F		ES	0.2	28.6								
Dolphin	KI031	18.6	19.6	0.2	20	bfb	F		ES	0	0								
Dolphin	KI031	19.6	20.9	1.3	100	bfb	F		ES	1.1	84.6								
Dolphin	KI031	20.9	22.7	1.7	94.4	lv	F		ES	0.7	38.9								
Dolphin	KI031	22.7	25.8	3.1	100	lv	F		ES	0.5	16.1								
Dolphin	KI031	25.8	27.4	1.6	100	lv	F		ES	0.2	12.5								
Dolphin	KI031	27.4	30.2	2.8	100	lv	F		ES	0.4	14.3								
Dolphin	KI031	30.2	32.5	2.3	100	lv	F		ES	0.8	34.8								







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI032	0	0.5		nc							No core recovery
Dolphin	KI032	0.5	3.2	Cgg	gh	Ga	B5		Bk			Massive, dark brown andradite skarn. Coarsely crystalline with interstitial calcite and fine disseminated scheelite.
Dolphin	KI032	3.2	6.2	Cgg	bh	BiAc	B5					Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint. Calcite breccia infill.
Dolphin	KI032	6.2	8.3	Cgg	ch	CaPx	A2		Sp	Bn	40	Massive and banded pale grey limestone with grossular on margins. Minor biotite altered siltstone and pyroxene skarn bands.
Dolphin	KI032	8.3	9.3	Cgg	bh	BiAc	B5					Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint. Calcite breccia infill.
Dolphin	KI032	9.3	10	Cgg	gh	Ga	B5		Bk			Massive, dark brown andradite skarn. Coarsely crystalline with interstitial calcite and fine disseminated scheelite.
Dolphin	KI032	10	12.4	Cgg	bh	BiAc	B5			Bd	35	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI032	12.4	14	Cgg	ph	Px	G5					Dark green pyroxene skarn with white diopside blebs and calcite veining.
Dolphin	KI032	14	15.2	Cgg	bh	BiAc	B5			Bd	35	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI032	15.2	17.1	Cgg	gh	Ga	B5		Bk			Massive, dark brown andradite skarn. Coarsely crystalline with interstitial calcite and fine disseminated scheelite.
Dolphin	KI032	17.1	17.3		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI032	17.3	30	Cgg	lv	BiAc	B5		Ft	Bd	50	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																			
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments
Dolphin	KI032	0	2.8	2.5	89.3	nc	F		W	2	71.4								
Dolphin	KI032	2.8	3.2	0.4	100	gh	F		ES	0.3	75								
Dolphin	KI032	3.2	6	2.8	100	bh	F		ES	2.4	85.7								
Dolphin	KI032	6	8.4	2.4	100	ch	F		ES	2	83.3								
Dolphin	KI032	8.4	11.9	3.5	100	bh	F		ES	2.4	68.6								
Dolphin	KI032	11.9	14.9	3	100	bh	F		ES	2.7	90								
Dolphin	KI032	14.9	16	1.1	100	gh	F		ES	0.8	72.7								
Dolphin	KI032	16	17.3	1.3	100	gh	F		ES	0.7	53.8								
Dolphin	KI032	17.3	18.5	1.2	100	lv	F		ES	0.2	16.7								
Dolphin	KI032	18.5	21.3	2.8	100	lv	F		ES	2.7	96.4								
Dolphin	KI032	21.3	22.8	1.5	100	lv	F		ES	1	66.7								
Dolphin	KI032	22.8	25	2.2	100	lv	F		ES	1.7	77.3								
Dolphin	KI032	25	28	3	100	lv	F		ES	1.9	63.3								
Dolphin	KI032	28	30	2	100	lv	F		ES	2	100								







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI033	0	2.7		nc							No core recovery
Dolphin	KI033	2.7	4.3	Cgg	bh	BiAc	B5					Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI033	4.3	6	Cgg	bfb	CaGa	A2		Sp			Banded volcaniclastic siltstone, pale grey limestone, andradite skarn, grossular skarn and pyroxene skarn. Minor scheelite
Dolphin	KI033	6	8.4	Cgg	bh	BiAc	B5		sp	Bd	10	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI033	8.4	11.2	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with grossular on margins. Minor biotite altered siltstone and pyroxene skarn bands.
Dolphin	KI033	11.2	11.7		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI033	11.7	12.4	Cgg	bh	BiAc	B5					Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI033	12.4	13.3	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with grossular on margins. Minor biotite altered siltstone and pyroxene skarn bands.
Dolphin	KI033	13.3	14.3	Cgg	bh	BiAc	B5		sp	Bd	10	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI033	14.3	16.6	Cgg	bfb	CaGa	A2		Sp			Banded volcaniclastic siltstone, pale grey limestone, andradite skarn, grossular skarn and pyroxene skarn. Minor scheelite
Dolphin	KI033	16.6	18.1		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI033	18.1	30	Cgg	lv	BiAc	B5		Ft	Bd	50	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI033	0	3	1.4	46.7	nc	F		W	0	0									
Dolphin	KI033	3	4	1	100	bh	F		ES	0	0									
Dolphin	KI033	4	6	2	100	bfb	F		ES	1.1	55									
Dolphin	KI033	6	7	0	0	bh	F		ES	0	0									
Dolphin	KI033	7	9.7	2.4	88.9	bh	F		ES	1	37									
Dolphin	KI033	9.7	11.2	1.2	80	ch	F		ES	0.4	26.7									
Dolphin	KI033	11.2	13.3	2.1	100	ch	F		ES	0.3	14.3									
Dolphin	KI033	13.3	16	2.7	100	bfb	F		ES	2.1	77.8									
Dolphin	KI033	16	18.1	1.8	85.7	fz	F		ES	0.7	33.3									
Dolphin	KI033	18.1	19.1	1	100	lv	F		ES	0.3	30									
Dolphin	KI033	19.1	22.7	3.6	100	lv	F		ES	2.2	61.1									
Dolphin	KI033	22.7	25	2.3	100	lv	F		ES	1.7	73.9									
Dolphin	KI033	25	26.3	1.3	100	lv	F		ES	0.8	61.5									
Dolphin	KI033	26.3	28	1.7	100	lv	F		ES	1.1	64.7									
Dolphin	KI033	28	30	2	100	lv	F		ES	2	100									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI034	0	1		nc							No core recovery
Dolphin	KI034	1	5.3	Cgg	gh	Ga	B5		Bk			Massive, dark brown andradite skarn. Coarsely crystalline with interstitial calcite and fine disseminated scheelite.
Dolphin	KI034	5.3	17	Cgg	bfb	CaGa	A2		Sp	Bn	60	Banded volcanoclastic siltstone, pale grey limestone, andradite skarn, grossular skarn and pyroxene skarn. Minor scheelite
Dolphin	KI034	17	17.6		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI034	17.6	22.4	Cgg	bfb	CaGa	A2		Sp	Bn	60	Banded volcanoclastic siltstone, pale grey limestone, andradite skarn, grossular skarn and pyroxene skarn. No scheelite
Dolphin	KI034	22.4	22.9	Cgg	lv	BiAc	B5		Ft	Bd	50	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI034	22.9	23.7		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI034	23.7	24.2	Cgg	gh	Ga	B5		Bk			Massive, dark brown andradite skarn. Coarsely crystalline with interstitial calcite and fine disseminated scheelite.
Dolphin	KI034	24.2	24.5		fz	Cy			Ft			Puggy Fault Zone
Dolphin	KI034	24.5	25	Cgg	lv	BiAc	B5		Ft	Bd	50	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI034	0	2.8	1.7	60.7	nc	F		W	0.7	25									
Dolphin	KI034	2.8	4	1.2	100	gh	F		ES	0.6	50									
Dolphin	KI034	4	4.8	0.8	100	gh	F		ES	0.6	75									
Dolphin	KI034	4.8	7	2.2	100	bfb	F		ES	1.9	86.4									
Dolphin	KI034	7	8.7	1.7	100	bfb	F		ES	1.7	100									
Dolphin	KI034	8.7	11.5	2.8	100	bfb	F		ES	2.4	85.7									
Dolphin	KI034	11.5	13	1.5	100	bfb	F		ES	1.4	93.3									
Dolphin	KI034	13	16	3	100	bfb	F		ES	2.8	93.3									
Dolphin	KI034	16	17.6	1.5	93.7	bfb	F		ES	0.5	31.3									
Dolphin	KI034	17.6	18.5	0.9	100	bfb	F		ES	0.3	33.3									
Dolphin	KI034	18.5	20.9	2.4	100	bfb	F		ES	1.1	45.8									
Dolphin	KI034	20.9	22	1.1	100	bfb	F		ES	0.3	27.3									
Dolphin	KI034	22	23.5	1.4	93.3	lv	F		ES	0.2	13.3									
Dolphin	KI034	23.5	24.7	1.2	100	lv	F		ES	0.4	33.3									
Dolphin	KI034	24.7	25	0.3	100	lv	F		ES	0.2	66.7									







Tim Callaghan – Resource and Exploration Geology

Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI035	0	1		nc							No core recovery
Dolphin	KI035	1	4.1	Cgg	pgh	GaPx	G5		Sp			Banded green, orange and brown andradite, grossular, pyroxene, biotite skarn. Very broken, minor scheelite.
Dolphin	KI035	4.1	4.4	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with grossular on margins. Strongly recrystallised.
Dolphin	KI035	4.4	13.3	Dg	ad	SePy	G2	5	Sp			Massive, pale grey/green intensely griesenised medium grained adamellite. Muscovite, biotite and epidote after biotite-plagioclase-quartz assemblage. Coarse crystalline pyrite to 2cm.
Dolphin	KI035	13.3	16	Dg	ad	BiSi	A2		Sp			Medium grained biotite-quartz-plagioclase adamellite. Strong silica-biotite alteration.
Dolphin	KI035	16	16.8	Ln	q	Si	A1		Sp			Massive, pale grey quartzite. Intensely silicified and strongly hornfelsed. Jointed and broken.
Dolphin	KI035	16.8	17.2		ap	Si	W		Sp			Very fine grained white aplitic dyke. Intensely silicified with fine biotite phenocrysts.
Dolphin	KI035	17.2	30	Ln	q	Si	A1		Sp			Massive, pale grey quartzite. Intensely silicified and strongly hornfelsed. Jointed and broken. EOH

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI035	0	3	0.8	26.7	nc	F		W	0.8	26.7									
Dolphin	KI035	3	4.1	0.3	27.3	pgh	F		ES	0.3	27.3									
Dolphin	KI035	4.1	5.2	0.5	45.5	ad	F		ES	0.5	45.5									
Dolphin	KI035	5.2	7.5	0	0	ad	F		ES	0	0									
Dolphin	KI035	7.5	8.2	0.3	42.9	ad	F		ES	0.3	42.9									
Dolphin	KI035	8.2	10	1.6	88.9	ad	F		ES	1.6	88.9									
Dolphin	KI035	10	13	2	66.7	ad	F		ES	2	66.7									
Dolphin	KI035	13	14.9	1.4	73.7	ad	F		ES	1.4	73.7									
Dolphin	KI035	14.9	16	1.1	100	ad	F		ES	1.1	100									
Dolphin	KI035	16	17.7	0.6	35.3	q	F		ES	0.6	35.3									
Dolphin	KI035	17.7	18.5	0.2	25	q	F		ES	0.2	25									
Dolphin	KI035	18.5	20.2	0.6	35.3	q	F		ES	0.6	35.3									
Dolphin	KI035	20.2	21.4	0.6	50	q	F		ES	0.6	50									
Dolphin	KI035	21.4	23.4	1.8	90	q	F		ES	1.8	90									
Dolphin	KI035	23.4	25	1.2	75	q	F		ES	1.2	75									
Dolphin	KI035	25	27.5	1.1	44	q	F		ES	1.1	44									
Dolphin	KI035	27.5	30	1.2	48	q	F		ES	1.2	48									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI036	0	5		nc							No core recovery
Dolphin	KI036	5	6	Cgg	pgh	GaPx	G5		Sp			Banded green, orange and brown andradite, grossular, pyroxene, biotite skarn. Very broken, minor scheelite.
Dolphin	KI036	6	7	Cgg	nc	CaPx	A2		Sp	Bn	15	Very poor core recovery in white limestone.
Dolphin	KI036	7	10.5	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with grossular on margins. Strongly recrystallised.
Dolphin	KI036	10.5	13.3	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite.
Dolphin	KI036	13.3	14.4	Cgg	pgh	GaPx	G3		Sp	Bn	60	Banded andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI036	14.4	16.5	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Increasing bands of pyroxene downhole.
Dolphin	KI036	16.5	21.4		nc							No core recovery.
Dolphin	KI036	21.4	24.2	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of pyroxene.
Dolphin	KI036	24.2	26.6	Cgg	pgh	GaPx	G3		Sp	Bn	60	Banded andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI036	26.6	29.2	Cgg	lv	BiAc	B5		Sp	Bd	45	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI036	29.2	35		nc							No core recovery.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI036	0	3	0.6	20	nc	F		W	0	0	0								
Dolphin	KI036	3	4	0.2	20	nc	F		W	0	0	0								
Dolphin	KI036	4	4.6	0.2	33.3	nc	F		W	0	0	0								
Dolphin	KI036	4.6	5	0.3	75	pgh	F		ES	0	0	0								
Dolphin	KI036	5	6	0.8	80	pgh	F		ES	0.2	20									
Dolphin	KI036	6	7	0.1	10	nc	F		W	0	0	0								
Dolphin	KI036	7	7.7	0.7	100	ch	F		ES	0.4	57.1									
Dolphin	KI036	7.7	9.2	1.4	93.3	ch	F		ES	1.1	73.3									
Dolphin	KI036	9.2	12.2	3	100	gh	F		ES	3	100									
Dolphin	KI036	12.2	14.7	2.5	100	gh	F		ES	2.4	96									
Dolphin	KI036	14.7	16	1.3	100	gh	F		ES	1.3	100									
Dolphin	KI036	16	16.5	0.5	100	nc	F		W	0.4	80									
Dolphin	KI036	16.5	19	0	0	nc	F		W	0	0									
Dolphin	KI036	19	21.4	0	0	nc	F		W	0	0									
Dolphin	KI036	21.4	22.7	1.3	100	pgh	F		ES	1.1	84.6									
Dolphin	KI036	22.7	24.5	1.8	100	pgh	F		ES	1.8	100									
Dolphin	KI036	24.5	27.6	3.1	100	pgh	F		ES	3.1	100									
Dolphin	KI036	27.6	29.5	1.9	100	lv	F		ES	1.9	100									
Dolphin	KI036	29.5	35	0	0	nc	F		ES	0	0									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI037	0	1.8		nc							No core recovery
Dolphin	KI037	1.8	3.5	Cgg	gh	GaPx	B5		Sp	Bn	70	Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of pyroxene.
Dolphin	KI037	3.5	7	Cgg	bfb	GaPx	G3		Sp	Bn	65	Banded andradite-pyroxene skarn with bands of orange grossular, limestone and biotite altered volcaniclastic siltstone. Disseminated scheelite.
Dolphin	KI037	7	7.6	Cgg	gh	GaPx	B5		Sp	Bn	70	Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of pyroxene.
Dolphin	KI037	7.6	8.9	Cgg	bh	BiAc	B5		Sp	Bd	70	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint. Minor Limestone.
Dolphin	KI037	8.9	10.2	Cgg	bfb	GaPx	G3		Sp	Bn	65	Banded andradite-pyroxene skarn with bands of orange grossular, limestone and biotite altered volcaniclastic siltstone. Disseminated scheelite.
Dolphin	KI037	10.2	11.2	Cgg	bh	BiAc	B5		Sp	Bd	65	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI037	11.2	12.2	Cgg	gh	GaPx	B5		Sp	Bn	70	Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite.
Dolphin	KI037	12.2	13.1	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI037	13.1	14.5	Dg	ap	Si	W		Sp			Massive, white aplitic dyke. Fine biotite phenocrysts in siliceous fine grained matrix.
Dolphin	KI037	14.5	17.6	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI037	17.6	26.3	Cgg	lv	BiCh	A5		Sp			Dark grey/green massive gabbro. Intense biotite alteration with late retrograde chlorite. Biotite altered pyroxene phenocrysts.
Dolphin	KI037	26.3	27.3		fz							Puggy fault zone.
Dolphin	KI037	27.3	29.6	Cgg	lv	BiCh	A5		Sp			Dark grey/green massive gabbro. Intense biotite alteration with late retrograde chlorite. Biotite altered pyroxene phenocrysts.
Dolphin	KI037	29.6	30	Dg	ap	Si	W		Sp			Massive, white aplitic dyke. Fine biotite phenocrysts in siliceous fine grained matrix.

Geotech Sheet																			
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments
Dolphin	KI036	0	3	2.5	83.3	nc	F		W	1.3	43.3								
Dolphin	KI037	3	4.7	1.7	100	nc	F		W	0.4	23.5								
Dolphin	KI037	4.7	5.8	0.7	63.6	nc	F		W	0.4	36.4								
Dolphin	KI037	5.8	6.9	0.2	18.2	pgh	F		ES	0	0								
Dolphin	KI037	6.9	7.3	0.2	50	pgh	F		ES	0.1	25								
Dolphin	KI037	7.3	8.4	1.1	100	nc	F		W	1	90.9								
Dolphin	KI037	8.4	10	1.6	100	ch	F		ES	1.6	100								
Dolphin	KI037	10	12.9	2.9	100	ch	F		ES	2.7	93.1								
Dolphin	KI037	12.9	14.6	0.9	52.9	gh	F		ES	0.4	23.5								
Dolphin	KI037	14.6	16	1.2	85.7	gh	F		ES	0.7	50								
Dolphin	KI037	16	18.6	2.4	92.3	gh	F		ES	0.9	34.6								
Dolphin	KI037	18.6	21	0.4	16.7	nc	F		W	0	0								
Dolphin	KI037	21	22.8	1.8	100	nc	F		W	1.1	61.1								
Dolphin	KI037	22.8	25	2.2	100	nc	F		W	1.7	77.3								
Dolphin	KI037	25	26.3	1.3	100	pgh	F		ES	0.2	15.4								
Dolphin	KI037	26.3	27.3	1	100	pgh	F		ES	0	0								
Dolphin	KI037	27.3	30	2.6	96.3	pgh	F		ES	0.7	25.9								











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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI039	0	0.5		nc							No core recovery
Dolphin	KI039	0.5	8.7	Cgg	mv	BiAc	G5					Massive pale green to brown basaltic lava and lava breccia. Aphyric. Strongly hornfelsed with strong pervasive biotite-actinolite alteration.
Dolphin	KI039	8.7	10		fz							Puggy Fault zone
Dolphin	KI039	10	13	Cgg	mv	BiAc	G5					Massive pale green to brown basaltic lava and lava breccia. Aphyric. Strongly hornfelsed with strong pervasive biotite-actinolite alteration.
Dolphin	KI039	13	14	Cgg	mv	BiAc	G5					Massive pale green to brown basaltic lava and lava breccia. Aphyric. Strongly hornfelsed with strong pervasive biotite-actinolite alteration. Xenoliths of limestone altered to grossular and pyroxene. Minor pyrrhotite.
Dolphin	KI039	14	17.4	Cgg	mv	BiAc	G5					Massive pale green to brown basaltic lava and lava breccia. Aphyric. Strongly hornfelsed with strong pervasive biotite-actinolite alteration.
Dolphin	KI039	17.4	18.5	Cgg	mv	BiAc	G5					Massive pale green to brown basaltic lava and lava breccia. Aphyric. Strongly hornfelsed with mottled grossular-pyroxene alteration.
Dolphin	KI039	18.5	32.4	Cgg	pgh	GaPx	B5					Massive crystalline andradite skarn with lesser mottled pyroxene skarn and grossular skarn. Calcite infill.
Dolphin	KI039	32.4	40	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI039	0	2.8	2.7	96.4	mv	F		W	1.4	50									
Dolphin	KI039	2.8	3.9	0.8	72.7	mv	F		W	0.4	36.4									
Dolphin	KI039	3.9	4.5	0.6	100	mv	F		W	0.2	33.3									
Dolphin	KI039	4.5	5.2	0.7	100	mv	F		ES	0.3	42.9									
Dolphin	KI039	5.2	6.9	1.7	100	mv	F		ES	1.1	64.7									
Dolphin	KI039	6.9	8.5	1.6	100	mv	F		W	1.4	87.5									
Dolphin	KI039	8.5	10	1	66.7	fz	F		ES	0.2	13.3									
Dolphin	KI039	10	12.1	2.1	100	mv	F		ES	1.7	81									
Dolphin	KI039	12.1	14.6	2.5	100	mv	F		ES	2.5	100									
Dolphin	KI039	14.6	16	1.4	100	mv	F		ES	1.4	100									
Dolphin	KI039	16	19	3	100	mv	F		ES	3	100									
Dolphin	KI039	19	22	3	100	pgh	F		W	3	100									
Dolphin	KI039	22	25	3	100	pgh	F		W	2.9	96.7									
Dolphin	KI039	25	26.8	1.8	100	pgh	F		W	1.7	94.4									
Dolphin	KI039	26.8	28	1.2	100	pgh	F		ES	1.2	100									
Dolphin	KI039	28	31	3	100	pgh	F		ES	3	100									
Dolphin	KI039	31	33.4	2.4	100	pgh	F		ES	2.3	95.8									
Dolphin	KI039	33.4	35.3	1.9	100	lv	F		ES	1.7	89.5									
Dolphin	KI039	35.3	37	1.7	100	lv	F		ES	1.6	94.1									
Dolphin	KI039	37	40	3	100	lv	F		ES	3	100									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI040	0	1		nc							No core recovery
Dolphin	KI040	1	2.1	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with grossular on margins. Strongly recrystallised.
Dolphin	KI040	2.1	4.2		fz							Puggy Fault zone
Dolphin	KI040	4.2	13	Cgg	mv	BiAc	G5					Massive pale green to brown basaltic lava and lava breccia. Aphyric. Strongly hornfelsed with strong pervasive biotite-actinolite alteration. Xenoliths of limestone altered to grossular and pyroxene. Minor pyrrhotite.
Dolphin	KI040	13	14.1	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI040	14.1	23.7	Cgg	pgh	GaPx	G3		Sp	Bn	60	Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI040	23.7	28.2	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of pyroxene.
Dolphin	KI040	28.2	29	Cgg	pgh	GaPx	G3		Sp	Bn	60	Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI040	29	30.6	Cgg	bh	BiAc	B5		Sp	Bd	70	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI040	30.6	31.9	Cgg	pgh	GaPx	G3		Sp	Bn	60	Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI040	31.9	40.2	Cgg	bh	BiAc	B5		Sp	Bd	70	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI040	40.2	45.2	Cgg	bfb	GaPx	G3		Sp	Bn	60	Banded andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI040	45.2	50	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI040	0	2.8	1.9	67.9	mv	F		W	0.3	10.7									
Dolphin	KI040	2.8	5.8	2.8	93.3	mv	F		W	0.9	30									
Dolphin	KI040	5.8	7	1.2	100	mv	F		W	1.1	91.7									
Dolphin	KI040	7	10	3	100	mv	F		ES	2.8	93.3									
Dolphin	KI040	10	12.8	2.8	100	mv	F		ES	2.6	92.9									
Dolphin	KI040	12.8	14.8	2	100	mv	F		W	1.8	90									
Dolphin	KI040	14.8	16	1.2	100	pgh	F		ES	1.1	91.7									
Dolphin	KI040	16	19	3	100	pgh	F		ES	3	100									
Dolphin	KI040	19	22	3	100	pgh	F		ES	3	100									
Dolphin	KI040	22	24.7	2.7	100	gh	F		ES	2.6	96.3									
Dolphin	KI040	24.7	27.8	3.1	100	gh	F		ES	3.1	100									
Dolphin	KI040	27.8	30.1	2.3	100	pgh	F		W	2	87									
Dolphin	KI040	30.1	30.5	0.2	50	pgh	F		W	0.1	25									
Dolphin	KI040	30.5	33.5	3	100	bh	F		W	2.7	90									
Dolphin	KI040	33.5	34.6	1.1	100	bh	F		ES	0.6	54.5									
Dolphin	KI040	34.6	36.2	1.6	100	bh	F		ES	1.6	100									
Dolphin	KI040	36.2	37	0.8	100	bh	F		ES	0.8	100									
Dolphin	KI040	37	40	3	100	bh	F		ES	3	100									
Dolphin	KI040	40	43	3	100	bfb	F		ES	3	100									
Dolphin	KI040	43	46	3	100	bfb	F		ES	3	100									
Dolphin	KI040	46	49	3	100	lv	F		ES	3	100									
Dolphin	KI040	49	50	1	100	lv	F		ES	1	100									



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Assay Sheet																
Project	BHID	From m	To m	Sample #	Sn	WO3	Mo	Cu ppm	Pb ppm	Zn ppm	Ag	Bi	S	SG	Rock	
Dolphin	KI040	13	14	73953		0.02										
Dolphin	KI040	14	15	73954		0.02										
Dolphin	KI040	15	16	73955		0.07										
Dolphin	KI040	16	17	73956		0.03										
Dolphin	KI040	17	18	73957		0.07										
Dolphin	KI040	18	19	73958		0.09										
Dolphin	KI040	19	20	73959		0.03										
Dolphin	KI040	20	21	73960		0.11										
Dolphin	KI040	21	22	73961		0.13										
Dolphin	KI040	22	23	73962		0.05										
Dolphin	KI040	23	24	73963		0.11										
Dolphin	KI040	24	25	73964		0.66										
Dolphin	KI040	25	26	73965		0.06										
Dolphin	KI040	26	27	73966		0.11										
Dolphin	KI040	27	28	73967		0.10										
Dolphin	KI040	28	29	73968		0.07										
Dolphin	KI040	29	30	73969		0.02										
Dolphin	KI040	30	30.6	73970		0.01										
Dolphin	KI040	30.6	31.9	73971		0.15										
Dolphin	KI040	31.9	33	73972		0.02										
Dolphin	KI040	40	41	73973		0.21										
Dolphin	KI040	41	42	73974		0.32										
Dolphin	KI040	42	43	73975		0.12										
Dolphin	KI040	43	44	73976		0.21										
Dolphin	KI040	44	45	73977		0.04										
Dolphin	KI040	45	46	73978		0.28										
Dolphin	KI040	Std		73979		0.04										





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI041	0	0.5		nc							No core recovery
Dolphin	KI041	0.5	6.7	Cgg	ph	GaPx	G5		Sp	Bn	30	Massive, dark green pyroxene hornfels with minor grossular garnet skarn. Jointed and broken
Dolphin	KI041	6.7	9	Cgg	bh	BiAc	B5		Sp	Bd	30	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI041	9	17.8	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of pyroxene.
Dolphin	KI041	17.8	22.1	Cgg	pgh	GaPx	G3		Sp	Bn	45	Banded andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI041	22.1	25.1	Cgg	gh	GaPx	B5		Sp			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Bands of pyroxene.
Dolphin	KI041	25.1	27	Cgg	bfb	GaPx	G3		Sp	Bn	60	Banded andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Crystalline.
Dolphin	KI041	27	29.5	Cgg	bfb	BiPx	B5		Sp	Bd	70	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint. Lesser bands of pyroxene-garnet skarn.
Dolphin	KI041	29.5	30		fz				Ft			Puggy brittle fault.
Dolphin	KI041	30	34.3	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcaniclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI041	34.3	35		fz				Ft			Puggy brittle fault.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths > 10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI041	0	3	2.9	96.7	ph	F		W	0.7	23.3									
Dolphin	KI041	3	3.5	0.5	100	ph	F		W	0	0									
Dolphin	KI041	3.5	4.5	1	100	ph	F		W	0.2	20									
Dolphin	KI041	4.5	5.6	1.1	100	ph	F		ES	0.3	27.3									
Dolphin	KI041	5.6	7.6	2	100	bh	F		ES	1.2	60									
Dolphin	KI041	7.6	10	2.4	100	gh	F		W	2.2	91.7									
Dolphin	KI041	10	13	3	100	gh	F		ES	3	100									
Dolphin	KI041	13	16	3	100	gh	F		ES	2.8	93.3									
Dolphin	KI041	16	19	3	100	pgh	F		ES	3	100									
Dolphin	KI041	19	22	3	100	pgh	F		ES	3	100									
Dolphin	KI041	22	25	3	100	gh	F		ES	3	100									
Dolphin	KI041	25	28	3	100	bfb	F		W	2.9	96.7									
Dolphin	KI041	28	31	3	100	bfb	F		W	2.6	86.7									
Dolphin	KI041	31	33.5	2.4	96	fz	F		W	2	80									
Dolphin	KI041	33.5	35	1.2	80	fz	F		ES	0.6	40									



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Assay Sheet																
Project	BHID	From m	To m	Sample #	Sn	WO3	Mo	Cu ppm	Pb ppm	Zn ppm	Ag	Bi	S	SG	Rock	
Dolphin	KI041	0	1	73980		0.01										
Dolphin	KI041	1	2	73981		0.03										
Dolphin	KI041	2	3	73982		0.67										
Dolphin	KI041	3	4	73983		0.20										
Dolphin	KI041	4	5	73984		0.57										
Dolphin	KI041	5	6	73985		0.06										
Dolphin	KI041	6	7	73986		0.02										
Dolphin	KI041	7	8	73987		0.03										
Dolphin	KI041	8	9	73988		0.02										
Dolphin	KI041	9	10	73989		0.02										
Dolphin	KI041	10	11	73990		0.32										
Dolphin	KI041	11	12	73991		0.04										
Dolphin	KI041	12	13	73992		0.24										
Dolphin	KI041	13	14	73993		0.09										
Dolphin	KI041	14	15	73994		0.04										
Dolphin	KI041	15	16	73995		0.08										
Dolphin	KI041	16	17	73996		0.05										
Dolphin	KI041	17	18	73997		0.03										
Dolphin	KI041	18	19	73998		0.01										
Dolphin	KI041	19	20	73999		0.02										
Dolphin	KI041	20	21	74000		0.02										
Dolphin	KI041	21	22	74001		0.02										
Dolphin	KI041	22	23	74002		0.03										
Dolphin	KI041	23	24	74003		0.03										
Dolphin	KI041	24	25	74004		0.02										
Dolphin	KI041	25	26	74005		0.03										
Dolphin	KI041	26	27	74006		0.02										
Dolphin	KI041	27	28	74007		0.02										
Dolphin	KI041	28	29	74008		0.01										
Dolphin	KI041	29	30	74009		0.02										





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI042	0	0.6		nc							No core recovery
Dolphin	KI042	0.6	2.6	Cgg	pgh	GaPx	G3		Sp	Bn	45	Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI042	2.6	4.8	Cgg	lv	BiAc	B5		Sp	Bd	70	Laminated dark brown volcanoclastic sandstone. Intense biotite alteration with late actinolite-pyroxene overprint.
Dolphin	KI042	4.8	6.8	Cgg	lv	BiCh	A4		Ft			Massive pyroxene phyrlic gabbro. Intense biotite alteration with retrograde chlorite alteration. Biotite altered pyroxene phenocrysts.
Dolphin	KI042	6.8	7.2		fz				Ft			Puggy brittle fault
Dolphin	KI042	7.2	14.4	Cgg	lv	BiCh	A4		Ft			Massive pyroxene phyrlic gabbro. Intense biotite alteration with retrograde chlorite alteration. Biotite altered pyroxene phenocrysts.
Dolphin	KI042	14.4	14.6		fz				Ft			Puggy brittle fault
Dolphin	KI042	14.6	23.2	Cgg	lv	BiCh	A4		Ft			Massive pyroxene phyrlic gabbro. Intense biotite alteration with retrograde chlorite alteration. Biotite altered pyroxene phenocrysts.
Dolphin	KI042	23.2	24.2		fz				Ft			Puggy brittle fault
Dolphin	KI042	24.2	30	Cgg	lv	BiCh	A4		Ft			Massive pyroxene phyrlic gabbro. Intense biotite alteration with retrograde chlorite alteration. Biotite altered pyroxene phenocrysts.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI042	0	2.8	2	71.4	pgh	F		W	0.2	7.14									
Dolphin	KI042	2.8	3.9	1	90.9	lv	F		W	1.2	109									
Dolphin	KI042	3.9	4.8	0.6	66.7	lv	F		W	0.2	22.2									
Dolphin	KI042	4.8	6.8	2	100	lv	F		ES	0.7	35									
Dolphin	KI042	6.8	7.9	1.1	100	fz	F		ES	0.1	9.09									
Dolphin	KI042	7.9	10	2.1	100	lv	F		W	1.6	76.2									
Dolphin	KI042	10	11.8	1.8	100	lv	F		ES	1.6	88.9									
Dolphin	KI042	11.8	12.9	1.1	100	lv	F		ES	0.3	27.3									
Dolphin	KI042	12.9	14.6	1.6	94.1	lv	F		ES	1.1	64.7									
Dolphin	KI042	14.6	17.7	3.1	100	lv	F		ES	2.4	77.4									
Dolphin	KI042	17.7	19	1.3	100	lv	F		ES	0.8	61.5									
Dolphin	KI042	19	21.5	2.5	100	lv	F		W	1.7	68									
Dolphin	KI042	21.5	23	1.5	100	lv	F		W	1.2	80									
Dolphin	KI042	23	23.8	0.4	50	fz	F		W	0	0									
Dolphin	KI042	23.8	25	1.2	100	lv	F		ES	0.4	33.3									
Dolphin	KI042	25	28	3	100	lv	F		ES	2.2	73.3									
Dolphin	KI042	28	30	2	100	lv	F		ES	0.6	30									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI043	0	1.9	Cgg	gh	GaPx	B5		Bk			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI043	1.9	2.8	Cgg	bh	Bi	B5					Laminated dark brown volcaniclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI043	2.8	3.9	Cgg	gh	GaPx	B5		Gd			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI043	3.9	7.4	Cgg	bh	Bi	B5					Laminated dark brown volcaniclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI043	7.4	9		fz	Cy	G2		Ft			Puggy brittle fault. Core loss
Dolphin	KI043	9	10	Cgg	bh	Bi	B5					Laminated dark brown volcaniclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI043	10	11.2	Dg	ap	SiBi	A2		Sp			Very fine grained siliceous pale grey aplite dyke. Fine biotite phenocrysts in siliceous matrix.
Dolphin	KI043	11.2	16.3	Cgg	lv	BiCh	A4		Ft			Massive pyroxene phyric gabbro. Intense biotite alteration with retrograde chlorite alteration. Biotite altered pyroxene phenocrysts.
Dolphin	KI043	16.3	16.9		fz	Cy	G2		Ft			Puggy brittle fault. Core loss
Dolphin	KI043	16.9	31	Lnc	q	Si	A2					Massive, pale grey quartzite. Intensely hornfelsed and silicified.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI043	0	3	2.9	96.7	gh	F	W	0.5	16.7										
Dolphin	KI043	3	3.9	0.9	100	gh	F	W	0.7	77.8										
Dolphin	KI043	3.9	5.9	1.8	90	bh	F	W	0.9	45										
Dolphin	KI043	5.9	7.9	1.8	90	gh	F	ES	0.6	30										
Dolphin	KI043	7.9	9	0.6	54.5	fz	F	ES	0	0										
Dolphin	KI043	9	10.7	1.7	100	bh	F	ES	0.2	11.8										
Dolphin	KI043	10.7	13	2.1	91.3	ap	F	ES	1.8	78.3										
Dolphin	KI043	13	16	3	100	lv	F	ES	2.4	80										
Dolphin	KI043	16	16.9	0.9	100	lv	F	ES	0.2	22.2										
Dolphin	KI043	16.9	18.8	1.9	100	q	F	ES	1.7	89.5										
Dolphin	KI043	18.8	21.7	2.8	96.6	q	F	ES	2.4	82.8										
Dolphin	KI043	21.7	24.8	2.7	87.1	q	F	ES	0.4	12.9										
Dolphin	KI043	24.8	27.8	3	100	q	F	ES	2.7	90										
Dolphin	KI043	27.8	29.3	1.5	100	q	F	ES	1.2	80										
Dolphin	KI043	29.3	31	1.7	100	q	F	ES	1.5	88.2										







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
Dolphin	KI044	0	5.1		nc							No core. Drilling through fill
Dolphin	KI044	5.1	8.3	Cgg	bh	Bi	B5					Laminated dark brown volcanoclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI044	8.3	17.9	Cgg	pgh	GaPx	G3		Gd			Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI044	17.9	22.5	Cgg	gh	GaPx	B5		Bk			Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Very coarse garnet.
Dolphin	KI044	22.5	32.4	Cgg	pgh	GaPx	G3		Sp	Bn	80	Banded andradite-pyroxene skarn with bands of orange grossular and biotite altered volcanoclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI044	32.4	47.5	Cgg	bh	Bi	B5		Gd	Bd	80	Laminated dark brown volcanoclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI044	47.5	50	Cgg	bh	Bi	B5			Bn	30	Laminated dark brown volcanoclastic siltstone and sandstone. Pervasive biotite alteration. Strongly hornfelsed. Minor pyroxene and grossular banding.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. detects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI044	0	2.8	0.4	14.3	gh	F	W		0	0									
Dolphin	KI044	2.8	4.4	0.5	31.3	gh	F	W		0	0									
Dolphin	KI044	4.4	5.5	0.8	72.7	bh	F	W		0	0									
Dolphin	KI044	5.5	6	0.4	80	gh	F	ES		0.2	40									
Dolphin	KI044	6	7.2	1.1	91.7	fz	F	ES		0.3	25									
Dolphin	KI044	7.2	8.7	1.4	93.3	bh	F	ES		0.8	53.3									
Dolphin	KI044	8.7	10	1.3	100	ap	F	ES		1.2	92.3									
Dolphin	KI044	10	11.4	1.4	100	lv	F	ES		0.6	42.9									
Dolphin	KI044	11.4	12.8	1.4	100	lv	F	ES		0.9	64.3									
Dolphin	KI044	12.8	15.9	3.1	100	q	F	ES		3.1	100									
Dolphin	KI044	15.9	18.3	2.4	100	q	F	ES		2.4	100									
Dolphin	KI044	18.3	20.8	2.5	100	q	F	ES		2.5	100									
Dolphin	KI044	20.8	22	1.2	100	q	F	ES		1.2	100									
Dolphin	KI044	22	25	3	100	q	F	ES		3	100									
Dolphin	KI044	25	28	3	100	q	F	ES		3	100									
Dolphin	KI044	28	30.4	2.4	100	q	F	ES		2.4	100									
Dolphin	KI044	30.4	32.1	1.7	100	q	F	ES		1.7	100									
Dolphin	KI044	32.1	34	1.9	100	q	F	ES		1.9	100									
Dolphin	KI044	34	37	3	100	q	F	ES		3	100									
Dolphin	KI044	37	38.6	1.6	100	q	F	ES		1.6	100									
Dolphin	KI044	38.6	40	1.4	100	q	F	ES		1.4	100									
Dolphin	KI044	40	42.7	2.7	100	q	F	ES		2.7	100									
Dolphin	KI044	42.7	43.8	1.1	100	q	F	ES		1.1	100									
Dolphin	KI044	43.8	45.5	1.7	100	q	F	ES		1.7	100									
Dolphin	KI044	45.5	47.1	1.6	100	q	F	ES		1.6	100									
Dolphin	KI044	47.1	50	2.9	100	q	F	ES		2.9	100									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L-Cont.	Struct	BCA	Description
Dolphin	KI045	0	0.5		nc							No core. Drilling through fill
Dolphin	KI045	0.5	15.2	Cgg	bh	Bi	B5		Sp			Massive dark grey biotite altered aphyric basalt and minor basaltic VC sandstone. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI045	15.2	15.7	Dg	ad	KfSi	P		Sp			Massive medium grained quartz-kfeldspar-biotite adamellite. Strong Kfeldspar and silica alteration.
Dolphin	KI045	15.7	30	Cgg	bh	Bi	B5		Ft			Massive dark grey biotite altered aphyric basalt and minor basaltic VC sandstone. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI045	30	32.1		fz		A4		Ft			Puggy brittle fault. Broken Core. Swan Fault.
Dolphin	KI045	32.1	39.3	Cgg	bh	Bi	B5		Ft			Massive dark grey biotite altered aphyric basalt and minor basaltic VC sandstone. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI045	39.3	42.5		fz		A4		Ft	Ft	10	Puggy brittle fault. Broken Core. Swan Fault. Calcite veins. Intense biotite alteration
Dolphin	KI045	42.5	44	Blens	ph	PxBi	G3		Gd			Mottled dark green and brown pyroxene hornfels with lesser biotite hornfels. Calcite veins. Crystalline.
Dolphin	KI045	44	53.1	Cgg	pgh	GaPx	G3		Gd			Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI045	53.1	55.2	Cgg	pgh	GaPx	G3		Gd	Ft	10	Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Chloritic fault planes
Dolphin	KI045	55.2	59.3	Cgg	pgh	GaPx	G3		Gd			Mottled andradite-pyroxene skarn with bands of orange grossular and biotite altered volcaniclastic siltstone. Crystalline. Dissem scheelite.
Dolphin	KI045	59.3	61.7	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with minor dark green pyroxene hornfels selvage on microveins. Strongly recrystallised.
Dolphin	KI045	61.7	62.4	Cgg	bh	Bi	B5		Ft			Massive dark grey biotite altered aphyric basalt. Coars biotite spots. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI045	62.4	76	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with minor dark green pyroxene hornfels selvage on microveins. Strongly recrystallised.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths > 10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI045	0	3	2.7	90	gh	F		W	0.5	16.7									
Dolphin	KI045	3	4.1	1.1	100	bh	F		W	0	0									
Dolphin	KI045	4.1	5.7	1.6	100	bh	F		W	0.1	6.25									
Dolphin	KI045	5.7	7	1.3	100	bh	F		ES	0.4	30.8									
Dolphin	KI045	7	10.1	3	96.8	bh	F		ES	0.4	12.9									
Dolphin	KI045	10.1	13.1	2.9	96.7	bh	F		ES	0.8	26.7									
Dolphin	KI045	13.1	15.2	1.1	52.4	bh	F		ES	0.2	9.52									
Dolphin	KI045	15.2	18	2.8	100	bh	F		ES	2.5	89.3									
Dolphin	KI045	18	21.4	3.4	100	bh	F		ES	2.7	79.4									
Dolphin	KI045	21.4	22.1	0.6	85.7	bh	F		ES	0.1	14.3									
Dolphin	KI045	22.1	24.4	2.3	100	bh	F		ES	1.7	73.9									
Dolphin	KI045	24.4	27.1	2.7	100	bh	F		ES	2.4	88.9									
Dolphin	KI045	27.1	30.2	2.8	90.3	bh	F		ES	1.2	38.7									
Dolphin	KI045	30.2	30.8	0.6	100	fz	F		ES	0	0									
Dolphin	KI045	30.8	33.9	3.1	100	fz	F		ES	1.4	45.2									
Dolphin	KI045	33.9	35.8	1.6	84.2	bh	F		ES	0.5	26.3									
Dolphin	KI045	35.8	37	1.2	100	bh	F		ES	1.2	100									
Dolphin	KI045	37	40	2.9	96.7	fz	F		ES	2.2	73.3									
Dolphin	KI045	40	43	3	100	fz	F		ES	0.6	20									
Dolphin	KI045	43	46	3	100	pgh	F		ES	3	100									
Dolphin	KI045	46	49	3	100	pgh	F		ES	3	100									
Dolphin	KI045	49	52	3	100	pgh	F		ES	2.5	83.3									
Dolphin	KI045	52	55	3	100	pgh	F		ES	2.2	73.3									
Dolphin	KI045	55	58	3	100	pgh	F		ES	3	100									
Dolphin	KI045	58	61	3	100	ch	F		ES	3	100									
Dolphin	KI045	61	64	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI045	64	67	3	100	ch	F		ES	3	100									
Dolphin	KI045	67	70	3	100	ch	F		ES	3	100									
Dolphin	KI045	70	73	3	100	ch	F		ES	2.8	93.3									
Dolphin	KI045	73	76	3	100	ch	F		ES	2.5	83.3									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI046	0	6		nc							No core. Drilling through fill
Dolphin	KI046	6	8.2	Cgg	bh	Bi	B5		Sp			Massive dark grey biotite altered aphyric basalt. Extremely broken. Chloritic Jts. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI046	8.2	16.8	Cgg	ch	CaPx	A2		Sp	Bn	15	Massive and banded pale grey limestone with minor dark green pyroxene hornfels selvage on microveins. Strongly recrystallised.
Dolphin	KI046	16.8	22		nc							Cavity, old slope
Dolphin	KI046	22	24.2	Cgg	gh	GaPx	B5					Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. EOH Hit old workings and bent barrel

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQP%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI046	0	3	0.8	26.7	bh	F		W	0.8	26.7									
Dolphin	KI046	3	6	1	33.3	bh	F		W	1	33.3									
Dolphin	KI046	6	7	0.8	80	bh	F		W	0.8	80									
Dolphin	KI046	7	8	1	100	bh	F		ES	1	100									
Dolphin	KI046	8	9	1	100	bh	F		ES	1	100									
Dolphin	KI046	9	10.8	1.8	100	bh	F		ES	1.8	100									
Dolphin	KI046	10.8	12.3	1.5	100	bh	F		ES	1.5	100									
Dolphin	KI046	12.3	15.1	1.8	64.3	bh	F		ES	1.8	64.3									
Dolphin	KI046	15.1	16.8	1.8	106	bh	F		ES	1.8	106									
Dolphin	KI046	16.8	22	0	0	bh	F		ES	0	0									
Dolphin	KI046	22	24.2	1.4	63.6	bh	F		ES	1.4	63.6									





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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI047	0	0.5		nc							No core. Drilling through fill
Dolphin	KI047	0.5	3.7	Cgg	ch	CaGa	A2		Sp			Massive and brecciated pale grey limestone and calcareous volcanoclastic breccia. Clasts of limestone. Strongly recrystallised.
Dolphin	KI047	3.7	5	Cgg	bh	Bi	B5		Sp	Bd	30	Massive dark grey biotite basaltic volcanoclastic siltstone. Strong pervasive biotite alteration. Strongly hornfelsed. Minor grossular and pyroxene on contacts
Dolphin	KI047	5	9.6	Cgg	ch	CaPx	A2		Sp			Massive and banded pale grey limestone with minor mottled grossular selvage on microveins. Strongly recrystallised.
Dolphin	KI047	9.6	12.7	Cgg	gh	GaPx	B5					Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Lesser grossular and pyroxene skarn.
Dolphin	KI047	12.7	14.1	Cgg	ch	CaGa	A2		Sp			Massive and banded pale grey limestone with minor mottled grossular selvage on microveins. Strongly recrystallised.
Dolphin	KI047	14.1	18	Cgg	bh	Bi	B5		Sp	Bd	5	Massive dark grey biotite basaltic volcanoclastic siltstone. Strong pervasive biotite alteration. Strongly hornfelsed. Minor grossular and pyroxene on contacts
Dolphin	KI047	18	19.6	Cgg	ch	CaGa	A2		Sp			Massive and banded pale grey limestone with minor mottled grossular selvage on microveins. Strongly recrystallised.
Dolphin	KI047	19.6	20.5	Cgg	bh	Bi	B5		Sp	Bd	20	Massive dark grey biotite basaltic volcanoclastic siltstone. Strong pervasive biotite alteration. Strongly hornfelsed. Minor grossular and pyroxene on contacts
Dolphin	KI047	20.5	34.4	Cgg	ch	CaGa	A2		Sp			Massive and banded pale grey limestone with minor mottled grossular selvage on microveins. Strongly recrystallised.
Dolphin	KI047	34.4	35.3	Cgg	bh	Bi	B5		Sp	Bd	30	Massive dark grey biotite basaltic volcanoclastic siltstone. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI047	35.3	37.4	Cgg	gh	GaPx	B5					Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Lesser grossular and pyroxene skarn.
Dolphin	KI047	37.4	40	Cgg	lv	Bi	B5		Sp	Bd	80	Laminated dark grey and brown biotite basaltic volcanoclastic siltstone. Strong pervasive biotite alteration. Strongly hornfelsed.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	lengths > 10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI047	0	2.8	2.8	100	ch	F		W	0.4	14.3									
Dolphin	KI047	2.8	4	1.2	100	ch	F		ES	0.9	75									
Dolphin	KI047	4	6.7	2.8	104	bh	F		ES	0.4	14.8									
Dolphin	KI047	6.7	9.8	3.1	100	ch	F		ES	3.1	100									
Dolphin	KI047	9.8	10.7	1.9	211	gh	F		ES	1.7	189									
Dolphin	KI047	10.7	13	2.3	100	gh	F		ES	2	87									
Dolphin	KI047	13	16	3	100	ch	F		ES	2.7	90									
Dolphin	KI047	16	18.9	2.9	100	bh	F		ES	2.5	86.2									
Dolphin	KI047	18.9	21.9	3	100	ch	F		ES	2.7	90									
Dolphin	KI047	21.9	23.5	1.6	100	ch	F		ES	1.4	87.5									
Dolphin	KI047	23.5	26.6	3.1	100	ch	F		ES	3.1	100									
Dolphin	KI047	26.6	28.6	1.8	90	ch	F		ES	1.8	90									
Dolphin	KI047	28.6	30.1	1.5	100	ch	F		ES	1.5	100									
Dolphin	KI047	30.1	33.2	3.1	100	ch	F		ES	2.9	93.5									
Dolphin	KI047	33.2	35.8	1.6	61.5	gh	F		ES	1.4	53.8									
Dolphin	KI047	35.8	37.1	1.3	100	gh	F		ES	1.1	84.6									
Dolphin	KI047	37.1	40	2.9	100	lv	F		ES	2.7	93.1									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI048	0	0.8		nc							No core. Drilling through fill
Dolphin	KI048	0.8	4	Cgg	gh	GaPx	B5					Massive dark brown andradite skarn. Crystalline with interstitial calcite and scheelite. Lesser grossular and pyroxene skarn.
Dolphin	KI048	4	10.1	Cgg	lv	Bi	B5		Sp	Bd	70	Laminated dark grey and brown biotite basaltic volcanoclastic siltstone. Strong pervasive biotite alteration. Strongly hornfelsed.
Dolphin	KI048	10.1	24.5	Cgg	lv	BiCh	A3		Ft			Massive dark grey to green pyroxene phyric gabbro. Medium grained pyroxene phenocrysts altered to biotite-chlorite in aphyric biotite altered matrix. Chloritic joints. Minor disseminated molybdenite at 17.9 - 18.0m.
Dolphin	KI048	24.5	26.1		fz	ChCy	G5		Ft			Broken puggy chloritic fault zone.
Dolphin	KI048	26.1	30	Cgg	lv	BiCh	A3		Ft			Massive dark grey to green pyroxene phyric gabbro. Medium grained pyroxene phenocrysts altered to biotite-chlorite in aphyric biotite altered matrix. Chloritic joints.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI048	0	1.8	1.1	61.1	gh	F		W	0.4	22.2									
Dolphin	KI048	1.8	4	2.2	100	gh	F		ES	1.7	77.3									
Dolphin	KI048	4	5.5	1.5	100	lv	F		ES	1.2	80									
Dolphin	KI048	5.5	8.5	3	100	lv	F		ES	2.7	90									
Dolphin	KI048	8.5	10	1.5	100	lv	F		ES	1.2	80									
Dolphin	KI048	10	13	3	100	lv	F		ES	2.7	90									
Dolphin	KI048	13	15.9	2.9	100	lv	F		ES	2.2	75.9									
Dolphin	KI048	15.9	17.4	1.5	100	lv	F		ES	1	66.7									
Dolphin	KI048	17.4	19	1.6	100	lv	F		ES	1.6	100									
Dolphin	KI048	19	20.5	1.3	86.7	lv	F		ES	1	66.7									
Dolphin	KI048	20.5	23	2.5	100	lv	F		ES	2	80									
Dolphin	KI048	23	24.5	1.5	100	lv	F		ES	0.8	53.3									
Dolphin	KI048	24.5	25.9	1.3	92.9	fz	F		ES	0.3	21.4									
Dolphin	KI048	25.9	27.4	1.4	93.3	lv	F		ES	0	0									
Dolphin	KI048	27.4	30	2.6	100	lv	F		ES	2.2	84.6									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI049	0	1.8		nc							No core recovery
Dolphin	KI049	1.8	7	Cgg	Clay	Cy	O4		Sp			Deeply weathered volcanics. Orange clay, poor recoveries.
Dolphin	KI049	7	15.1	Cgg	lv	BiCh	A3		Sp			Massive, dark grey to green pyroxene phryic gabbro. Intense pervasive biotite alteration with late retrograde chloritic alteration.
Dolphin	KI049	15.1	19.9	Cgg	bh	BiAc	B3		Sp	Bd	30	Laminated volcanoclastic basaltic siltstone. Pervasive biotite alteration with patchy actinolite overprint.
Dolphin	KI049	19.9	23.5	Cgg	bfb	BiCa	B3		Sp	Bd	40	Dominantly laminated basaltic volcanoclastic siltstone with interbeds of white crystalline limestone. Minor pyroxene garnet skarn on limestone boundaries. Coarse molybdenum veins at 21.5m.
Dolphin	KI049	23.5	25		nc							Cave, no core recovery.
Dolphin	KI049	25	26.3	Cgg	lv	Bi	B4					Massive biotite altered basaltic volcanoclastic sandstone.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI049	0	2	0.4	20	nc	W		W	0	0									
Dolphin	KI049	2	4	1	50	lv	W		W	0	0									
Dolphin	KI049	4	7	1.5	50	lv	W		W	0	0									
Dolphin	KI049	7	9.8	2.7	96.4	lv	F	ES		1.6	57.1									
Dolphin	KI049	9.8	11.4	1.4	87.5	lv	F	ES		0.7	43.8									
Dolphin	KI049	11.4	13	1.6	100	lv	F	ES		1.4	87.5									
Dolphin	KI049	13	14.6	1.6	100	lv	F	ES		1.4	87.5									
Dolphin	KI049	14.6	16.3	1.6	94.1	lv	F	ES		0.2	11.8									
Dolphin	KI049	16.3	18.2	1.7	89.5	lv	F	ES		0.6	31.6									
Dolphin	KI049	18.2	19.8	1.6	100	lv	F	ES		1.5	93.7									
Dolphin	KI049	19.8	21.3	1.5	100	bfb	F	ES		1.5	100									
Dolphin	KI049	21.3	23.5	2.2	100	bfb	F	ES		2	90.9									
Dolphin	KI049	23.5	25	0	0	bfb	F	ES		0	0									
Dolphin	KI049	25	26.3	1.3	100	lv	F	ES		1.2	92.3									







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Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Dolphin	KI050	0	1		nc							No core recovery
Dolphin	KI050	1	8.5	Cgg	bh	BiAc				Sp		Massive, dark brown and green, coarse grained matrix supported volcanoclastic massflow breccia.
Dolphin	KI050	8.5	11	Cgg	bh	BiAc				Gd		Massive, dark brown and green, coarse grained matrix supported volcanoclastic massflow breccia. Patchy green pyroxene alteration.
Dolphin	KI050	11	12.9	Cgg	ph	Px				Sp		Dark green pyroxene skarn altered coarse grained matrix supported volcanoclastic massflow breccia.
Dolphin	KI050	12.9	14.5	Cgg	bh	BiAc				Sp		Massive, dark brown and green biotite-actinolite altered massive basaltic volcanoclastic sandstone.
Dolphin	KI050	14.5	16.4	Cgg	pgh	GaPx				Sp		Mottled dark green and brown pyroxene skarn with lesser crystalline andradite skarn.
Dolphin	KI050	16.4	21.3	Cgg	ch	Ca				Sp	Bd	70 Massive white bedded limestone. Strongly recrystallised and hornfelsed.
Dolphin	KI050	21.3	22.6	Cgg	ch	CaGa				Sp	Bd	70 Massive white bedded limestone. Strongly recrystallised and hornfelsed. Orange bands of grossular on bedding planes.
Dolphin	KI050	22.6	27.1	Cgg	ch	CaBi				Sp	Bd	70 Massive white bedded limestone. Strongly recrystallised and hornfelsed. Orange bands of grossular and dark brown biotite hornfelsed siltstone.
Dolphin	KI050	27.1	33.1	Cgg	ch	CaGa				Sp	Bd	88 Massive white bedded limestone. Strongly recrystallised and hornfelsed. Orange bands of grossular and dark green pyroxene to 30%.
Dolphin	KI050	33.1	35	Cgg	bfb	GaCa				Sp	Bd	88 Dark brown andradite garnet, orange grossular and bands of white limestone. Strongly altered.

Geotech Sheet																				
Project	BHID	From	To	Recovery	% Recovery	Lithology	Weathering	Alteration	Strength	length>10cm	RQD%	No. defects	Defect sets	Defect type	bca struct 1	bca struct 2	Roughness	Fill	Comments	
Dolphin	KI050	0	2.5	1.7	68	nc	F		W	0.8	32									
Dolphin	KI050	2.5	4.1	1.5	93.8	bh	F		ES	0.3	18.8									
Dolphin	KI050	4.1	5.8	1.8	106	bh	F		ES	0.5	29.4									
Dolphin	KI050	5.8	8.3	2.5	100	bh	F		ES	1.1	44									
Dolphin	KI050	8.3	11.3	3	100	bh	F		ES	2.8	93.3									
Dolphin	KI050	11.3	13.9	2.6	100	ph	F		ES	2.3	88.5									
Dolphin	KI050	13.9	17	3.1	100	pgh	F		ES	3	96.8									
Dolphin	KI050	17	20.1	3.1	100	ch	F		ES	3.1	100									
Dolphin	KI050	20.1	22.8	2.7	100	ch	F		ES	2.5	92.6									
Dolphin	KI050	22.8	25.3	2.5	100	ch	F		ES	2.2	88									
Dolphin	KI050	25.3	26.9	1.6	100	ch	F		ES	1.6	100									
Dolphin	KI050	26.9	29.3	2.4	100	ch	F		ES	2.4	100									
Dolphin	KI050	29.3	30.8	1.5	100	ch	F		ES	1.5	100									
Dolphin	KI050	30.8	33.1	2.3	100	ch	F		ES	1.7	73.9									
Dolphin	KI050	33.1	35	1.9	100	bfb	F		ES	1.7	89.5									

