AURORA MINERALS LIMITED
ACN 106 304 787

ASX Announcement

23 May 2017

ASX Code: ARM

Aurora Minerals Group of Companies

Diversified Minerals Exploration via direct and indirect interests

Predictive Discovery Limited (ASX: PDI) – 39.6%
- Gold Exploration / Development in Burkina Faso

Peninsula Mines Limited (ASX: PSM) – 29.3%
- Graphite, Lithium- Gold, Silver and Base Metals
- Molybdenum and Tungsten Exploration in South Korea

Aurora Western Australian Exploration – 100%
- Manganese, Base metals and gold

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PENINSULA MINES: EXCEPTIONAL ZINC AND SILVER GRADES WITH COPPER AND GOLD FROM SYSTEMATIC SURFACE SAMPLING AT UBEONG

Peninsula Mines Limited, a company in which Aurora Minerals Limited holds a 29.3% shareholding, today announced that it had received high grade zinc, silver, copper and gold rockchip sample results from the Ubeong Project in South Korea.

A copy of the announcement is attached.

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PENINSULA MINES LIMITED

ASX:PSM

ASX ANNOUNCEMENT

23 May 2017

EXCEPTIONAL ZINC AND SILVER GRADES WITH COPPER AND GOLD FROM SYSTEMATIC SURFACE SAMPLING AT UBEONG

- **Analytical results from 110 systematic surface rockchip samples collected from the 70 identified Chilbo historical mine workings have produced exceptionally high grades including up to:**
  - **UBG0043: 48.8% Zinc (Zn)**
  - **UBG0037: 958 g/t (ppm) Silver (Ag), 27.9% Zn, 1.1% Copper (Cu), 13.85% Lead (Pb)**
  - **UBG0133: 4.87 g/t Gold (Au)**
  - **UBG0065: 2.74% Copper (Cu) and UBG0148: 2.2% Cu**
- **Clear zonation in polymetallic system between high zinc-silver zone and a copper-gold zone**
- **Detailed (100m x 25m) soil sampling completed over entire Chilbo area with results to come**
- **Induced Polarisation (IP) geophysics planned to target sulphide bodies for drill testing**

Peninsula Mines Limited ("Peninsula" or "the Company") is very pleased to announce exceptional zinc and silver grades within a zoned mineralised skarn system, with lead, copper and gold, from surface rock-chip sampling of 70 mapped surface workings and outcrops in the Chilbo historical mining area on the Company's Ubeong Zinc-Silver Project in South Korea (see Figures 1 and 2).

These new results **include up to 48.8% Zn and up to 958 g/t Ag, 27.9% Zn, 13.85% Pb in a "Zinc-Silver Zone", and up to 2.2% Cu and up to 4.87 g/t Au in a separate "Copper-Gold Zone"** (see Figure 1). Selected results are summarised in Table 1 below, and the full list is included in Appendices 1 and 2.

Mapping of sulphide mineralisation in the extensive workings at Chilbo, and detailed ground magnetics imagery (see Figure 1), indicates that sphalerite (Zn) dominated massive sulphide mineralisation occurs in the heavily faulted and less magnetic part of the limestone skarn horizon. The interpretation is that initial intrusive related skarnification of the limestone horizon has introduced magnetite, then later structures have focused hydrothermal/epithermal fluids that have converted magnetite to non-magnetic sulphides dominated by sphalerite. The demagnetised zones are quite extensive and the results of recently completed systematic soil sampling, to be followed by Induced Polarisation (IP) geophysics, will be used to map sulphide bodies to be targeted for drill testing.

A second style of copper-gold mineralisation is also evident (See Figure 1), where copper (Cu) as chalcopyrite is associated with massive pyrrhotite, a magnetic sulphide. This zone is characterised by high magnetic intensity and soil sampling has also been completed over this zone, with the objective of defining geochemical Cu-Au targets. IP and electromagnetic (EM) surveys will then be used to directly detect massive sulphide copper-gold zones for drill targeting in this area.

The Managing Director of Peninsula, Jon Dugdale, said: *"The results of systematic rock-chip sampling of the Chilbo workings have highlighted the exceptional zinc and silver grades in this target area.*

"The bonus is that we are also seeing elevated copper and gold associated with magnetic pyrrhotite, a separate target type within this extensively mineralised skarn.

"Systematic soil sampling has also been completed, and the results of this work, in conjunction with detailed IP and EM geophysics planned to be carried out in June, will likely define drilling targets for high-grade sulphide mineralisation to be tested as soon as possible after drilling access is achieved."

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Table 1: Selected surface rockchip results from the Ubeong Zinc-Silver Project (see Appendices 1 & 2 for full list)

Sample ID	Location / Geology	UTM North	UTM East	RL	Type	*Zn %*	*Ag g/t*	*Cu %*	*Au g/t*	*Pb %*
UBG0028	Sph-Garnet skarn	4,077,885	513,364	683	Dump	**22.90**	35	0.01	0.02	0.11
UBG0032	Garnet skarn-Sph	4,078,115	513,522	668	Dump	6.95	6	<0.01	0.05	0.02
UBG0033	FeOx gossan + qtz.	4,078,115	513,522	668	Dump	0.09	3	0.12	**1.36**	<0.01
UBG0035	Gal-skarn & secondary Cu	4,078,104	513,614	695	Dump	**23.20**	**487**	**2.05**	0.04	**7.05**
UBG0037	Gal. rich skarn, minor Cpy	4,078,085	513,585	697	Dump	**27.90**	**958**	**1.10**	0.03	**13.85**
UBG0043	Sph-Py skarn	4,078,261	513,399	687	Dump	**48.80**	<1	0.02	0.03	0.01
UBG0044	Sph-Gal skarn Ca gangue	4,078,261	513,399	687	Dump	**12.05**	**401**	0.02	0.02	4.56
UBG0047	Sph rich skarn	4,078,261	513,399	687	Dump	**23.40**	6	0.01	0.08	0.06
UBG0052	Gossan ex Sph-Py-As	4,078,227	513,387	730	Outcrop	**34.20**	**369**	0.32	**1.05**	1.24
UBG0056	Garnet skarn + Sph	4,078,010	513,557	709	Dump	5.36	13	0.01	0.52	0.02
UBG0057	Massive Fe-Sph in skarn	4,078,002	513,548	718	Dump	**29.70**	**116**	0.02	0.01	0.22
UBG0061	Coarse Sph in Ca-skarn	4,078,480	513,409	726	Dump	**12.55**	12	0.02	0.02	0.04
UBG0062	Py-As-Cpy Ca-grnet skarn	4,078,480	513,409	726	Dump	0.43	**202**	**1.57**	0.30	0.43
UBG0063	Very coarse Sph in calcite	4,078,480	513,409	726	Dump	**28.40**	55	0.10	0.02	0.25
UBG0065	Sph-Cpy/secondary Cu	4,078,481	513,410	726	Dump	5.63	**197**	**2.74**	0.03	0.04
UBG0067	As-Sph garnet skarn	4,078,451	513,435	668	Dump	4.16	33	0.01	0.46	0.03
UBG0070	Sph garnet skarn.	4,078,455	513,407	644	Dump	**15.40**	3	<0.01	0.08	0.01
UBG0071	Si skarn & Py-As-tr. Cpy	4,078,455	513,407	644	Dump	3.94	11	0.32	0.13	0.02
UBG0072	Skarn & coarse Sph	4,078,455	513,407	644	Dump	4.97	3	0.02	0.08	0.01
UBG0101	Sph rich skarn	4,078,415	513,719	726	Dump	4.70	3	0.01	0.14	<0.01
UBG0133	FeOx gossan	4,078,549	513,786	753	Dump	<0.01	1	0.05	**4.87**	<0.01
UBG0137	FeOx gossan	4,078,536	513,782	751	Dump	<0.01	1	0.10	**1.37**	<0.01
UBG0139	FeOx gossan & fine Si	4,078,507	513,840	757	Dump	0.04	4	0.03	**1.11**	<0.01
UBG0140	Py-As vein	4,078,498	513,819	757	Dump	0.01	5	0.26	**1.55**	<0.01
UBG0145	FeOx gossan	4,078,478	513,694	763	Dump	0.14	**523**	0.42	**1.08**	<0.01
UBG0148	Garnet skarn, second. Cu	4,078,509	513,679	785	Dump	0.30	97	**2.23**	0.29	0.15

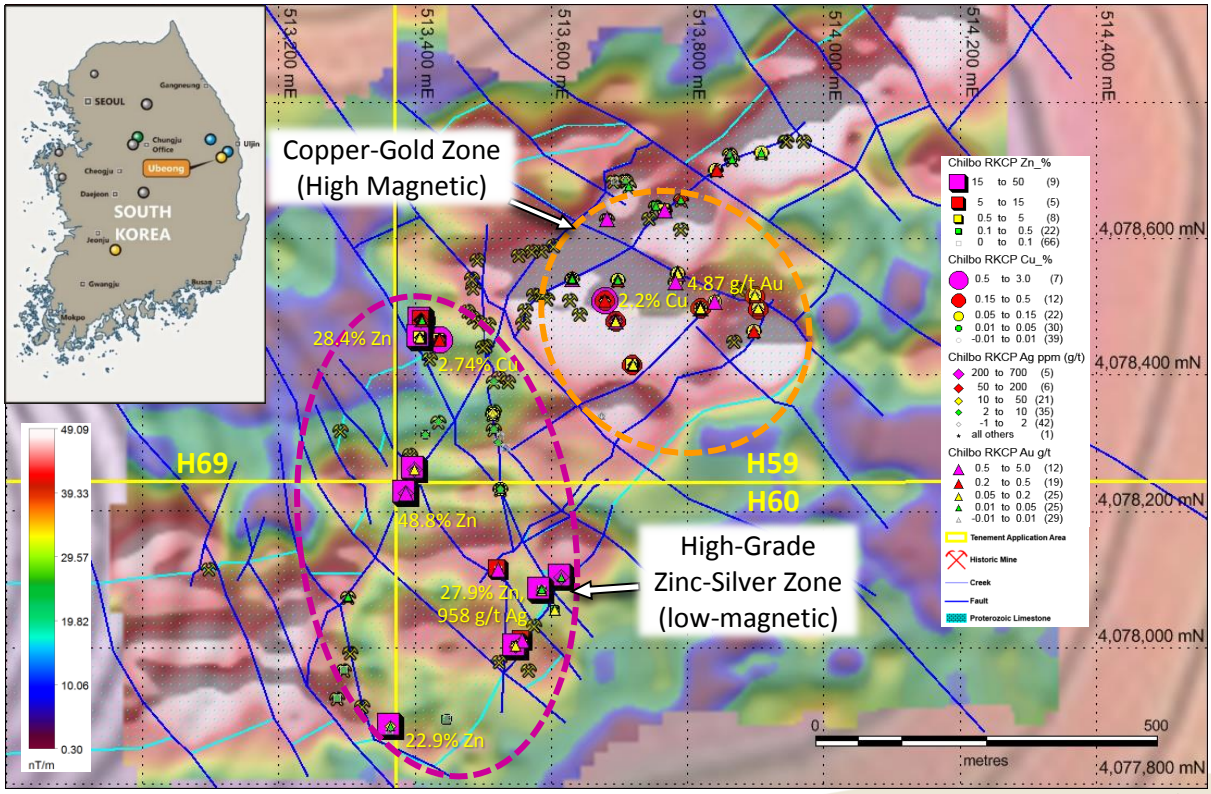

Figure 1: Ubeong Project, Chilbo area, new rockchip sample results on TMI image of ground magnetics[D2]

Background to the Ubeong Zinc-Silver Project:

Peninsula has secured three granted tenements[D5] and multiple tenement applications over the eastern 10 km strike length of a highly prospective limestone-skarn unit, that includes the historical Chilbo mine workings and adjoins the operating Kumho Zinc Mine (see Figure 2).

The high-grade zinc-silver mineralisation identified in the Chilbo workings area occurs towards the eastern end of the limestone skarn-unit, associated with an extensively faulted zone that has offset the unit and is interpreted to have acted as a conduit for mineralisation.

The Company has previously announced high-grade Zn-Ag (+/- Pb, Cu, Au) results from the vicinity of the historical Chilbo workings[D2,D3,D4,D6]. The Company has also commenced detailed mapping, ground-based geophysical programmes (magnetics, electromagnetics and a planned induced polarisation (IP) programme) and detailed soil sampling programmes, with the objective of defining drilling targets for massive-sulphide zinc-silver-polymetallic mineralisation.

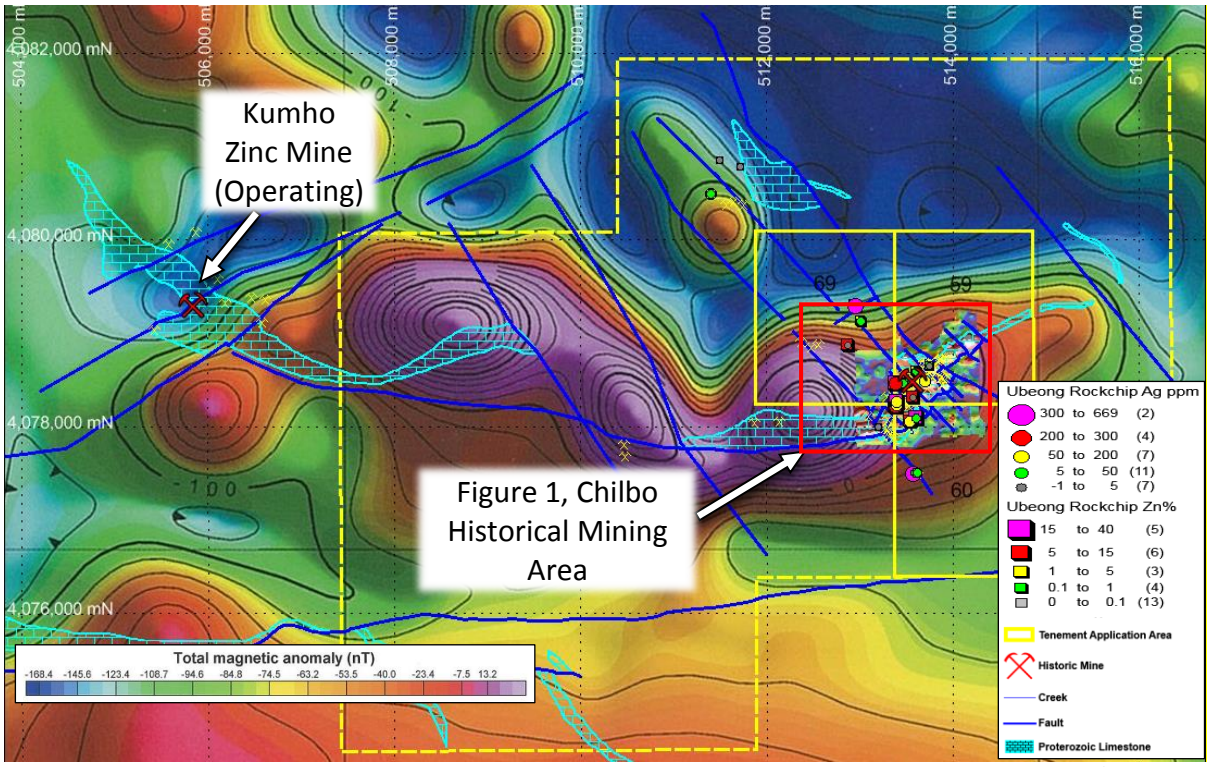

Figure 2: Ubeong Project, skarn-limestone unit & tenements on TMI Aeromagnetic image[D2]

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About Peninsula Mines

Peninsula Mines Ltd is an Australian listed exploration/development company focused on developing the outstanding opportunities for mineral discovery within South Korea. Peninsula's strategy is to focus on mineral commodities which have a positive price outlook and offer potential for off-take and/or strategic partnerships in-country.

The Company has established, and is growing, a portfolio of highly prospective graphite, lithium, gold-silver and zinc-silver-polymetallic projects in South Korea, that all offer significant exploration potential.

Full versions of all the company's releases are available for download from the Company's website www.peninsulamines.com.au

The material and/or releases referenced in this release are listed below:

D1 Zinc Target drill targeting fast tracked following exceptional soil sampling results, 9/03/17
D2 Major Zinc-Skarn District Identified at Ubeong Project in South Korea, 13/12/16
D3 Further exceptionally high-grade zinc-silver results from Ubeong Project, South Korea, 31/10/16
D4 Exceptional Zinc-Silver-Lead grades from newly acquired Ubeong Project, South Korea, 13/9/16
D5 Three key tenements granted, Ubeong Zinc Project, 28/03/17
D6 High-grade Silver-Gold-Zinc Rockchip Results, Ubeong Project, South Korea, 26/04/17

Forward looking Statements

This release contains certain forward looking statements. These forward-looking statements are not historical facts but rather are based on Peninsula Mines Ltd's current expectations, estimates and projections about the industry in which Peninsula Mines Ltd operates, and beliefs and assumptions regarding Peninsula Mines Ltd's future performance. Words such as "anticipates", "expects", "intends", "plans", "believes", "seeks", "estimates" "potential" and similar expressions are intended to identify forward-looking statements. These statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties and other factors, some of which are beyond the control of Peninsula Mines Ltd, are difficult to predict and could cause actual results to differ materially from those expressed or forecasted in the forward-looking statements. Peninsula Mines Ltd cautions shareholders and prospective shareholders not to place undue reliance on these forward-looking statements, which reflect the view of Peninsula Mines Ltd only as of the date of this release. The forward-looking statements made in this release relate only to events as of the date on which the statements are made. Peninsula Mines Ltd does not undertake any obligation to release publicly any revisions or updates to these forward-looking statements to reflect events, circumstances or unanticipated events occurring after the date of this presentation except as required by law or by any appropriate regulatory authority.

Competent Persons Statement

The information in this release that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Daniel Noonan, a Member of the Australian Institute of Mining and Metallurgy. Mr Noonan is an Executive Director of the Company.
Mr Noonan has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Noonan consents to the inclusion in the release of the matters based on this information in the form and context in which it appears.

JORC Code, 2012 Edition: Table 1
Section 1: Sampling Techniques and Data

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

Criteria	*JORC – Code of Explanation*	Commentary
Sampling techniques	*Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.*	As a further follow-up to earlier regional stream sediment sampling, field mapping has identified historic mine workings south of Mt. Ubyeong and to the southwest of Mt Chilbo at the Company's Ubeong Prospect. The reconnaissance mapping located outcropping sulphide mineralisation in pits and around collapsed stopes. A further 141 rock chip samples were collected and, following initial XRF scan, 110 of those samples were despatched to Perth, Australia, for analysis. The rock chip samples are predominantly from mine dumps and outcropping gossans. The rock chip samples were analysed for a suite of elements by ALS Global Laboratory Services, Perth using ICP analyses and Fire Assay for gold.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	The rock chip sampling was standard sampling using a geology hammer, mallet.
	Aspects of the determination of mineralisation that are material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.	Rock chip samples were collected in a calico bag and taken using a geology hammer and mallet.
Drilling techniques	*Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results.

Criteria	*JORC – Code of Explanation*	Commentary
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.*	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	
Logging	*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.*	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	
	The total length and percentage of the relevant intersections logged.	
Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all core taken.*	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results.
	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	The rock chip samples were jaw crushed post oven drying at the ALS Laboratory, Malaga to a nominal 2mm size fraction (method CRU-21). In cases where sample weights exceeded 3kg, samples were riffle split with the resultant sample fraction then pulverised using an LM5 pulveriser to 85% passing 75 microns (PUL-23). A 150gm pulverised sub sample was then prepped for analysis.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	The samples were prepped as discussed above. This methodology is considered appropriate for both base and precious metal analyses as well as analyses for a broader range of trace elements. The main target elements are base metals and method ME-MS61 was chosen as a broad 48 element analysis suite. This involved the dissolution of the sample aliquot in a four-acid mix. This is considered near total for the bulk of elements analysed for except Sn and W. A 30gm fire assay with an ICP-AES finish was used for the Au analyses. A number of samples returned ore grade results over the detection limit for

Criteria	*JORC – Code of Explanation*	Commentary
		Zn, Pb, Ag and As by method ME-MS61a and were repeated using method OG62 and OG62h in the case of the high Zn (>30%) and OG46 As in case of high As values (>30%) in the initial MS61a and OG62 analysis.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	The rock chip samples are predominantly grab dump samples and spot rock chip samples taken purely to provide an indication of the grade of ore historically mined and as such, cannot be considered representative.
	Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.	No duplicate field samples have been collected at this point in time from the Ubeong Project. This is not considered material at this early project evaluation stage. No sample splits have been analysed other than those routinely analysed by the laboratory as part of their own internal QA/QC process.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	The size of the rock chip samples is considered appropriate for the style of sampling undertaken.
Quality of assay data and laboratory tests	*The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.*	Rock chip samples were dried at 105°C upon receipt by the lab. The samples were then prepped and pulverised as discussed above. The subsample was then dissolved in an acid mix of HCL, HF, HNO_3, $HCLO_4$. The final aliquot is analysed by inductively coupled plasma – atomic emission spectrometry (ICP-AES) and ICP-Mass Spectrometry (ICP-MS). A 50gm charge was prepared for fire assay for all the Au analyses. A sub-sample was prepped using a suitable flux. The method is considered total for the key target base metals Pb, Zn, Cu as well as Sb, Ag and Au. The results are only considered partial for W, Sc, K, Ca and Al. This is not considered material.
	For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivations, etc.	The release includes a portion of the Socheon 1:100,000 Total Magnetic Airborne Magnetic Imagery[D5]. The Company purchased this image along with other images produced by the Korea Institute of Geoscience and Mineral Resources (KIGAM) as part of the country wide aeromagnetic atlas (Published Dec 2008). The Company has received permission from KIGAM management permitting the use of the KIGAM magnetic images in its ASX announcements, shareholder communications and corporate presentations. The magnetic survey was undertaken by KIGAM using a Geometrics G-813 Proton Magnetometer. The flight lines were flown East-West at a 1 km line spacing with North-South tie lines flown at a 5 km spacing. The flight altitude for the survey was 100-200m above ground level. The data processing involved setting the data level at 300m above mean sea level by

Criteria	*JORC – Code of Explanation*	Commentary
		upward/downward continuation. The International Geomagnetic Reference Field (IGRF) was used to assist with the removal of total magnetic anomaly. The KIGAM colour total magnetic contour maps are printed at 1:100,000 scale and referenced using the Bessel ellipsoid and the Tokyo datum with latitude and longitude coordinate marked. The other detailed ground magnetic data used as a backing to Figure 1 was collected by Company personnel using a Geometrics858 proton magnetometer under the supervision of staff from Southern Geoscience Consultants (SGC) Perth. Details of this survey were discussed in detail in earlier ASX releases[D2].
	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.	The Company has not included any blank or CRM samples with these analyses. The Company has relied solely on the standard repeat and CRM protocols undertaken by ALS on the analyses of these samples. The company has relied on the laboratories' own internal QA/QC procedures for quality control with these analyses. This is considered adequate given that none of the analyses disclosed or discussed in this release are intended for use in any future mineral resource estimation.
Verification of sampling and assaying	*The verification of significant intersections by either independent or alternative company personnel.*	The majority of the samples are single isolated samples and no weighted averages have been calculated using these assays. None of the results reported or commented upon in this release have been independently checked by non-Company personnel. This is not considered material at this early reconnaissance stage of the project's evaluation.
	The use of twinned holes.	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Assay results are stored in an Excel database. All results are checked by the responsible geologist on entry to the database. The Company's data is stored in an excel database and routinely transferred to the Perth Head Office.
	Discuss any adjustment to assay data.	The data presented in the Appendices is raw laboratory data. No adjustments have been made to the data.
Location of data points	*Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.*	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results. The sample locations have been recorded using a hand held Garmin GPS60CSx. The accuracy of this unit at most sample sites was +/- 10m.

Criteria	*JORC – Code of Explanation*	Commentary
	Specification of the grid system used.	All sample sites were surveyed in the UTM WGS84 zone 52N coordinate system or WGS 84 Latitudes and Longitudes.
	Quality and adequacy of topographic control.	The National Geographic Information Institute (NGII) has 1:5,000 scale digital contour data for the entire country.
Data spacing and distribution	*Data spacing for reporting of Exploration Results.*	It is not anticipated that any of these data would be used to compile any form of Mineral Resource and the data are purely acquired as part of the overall reconnaissance evaluation of the project.
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	The sampling to date is not intended for the use in any future resource estimation that may be undertaken.
	Whether sample compositing has been applied.	None of the assay results have been composited. The bulk of the rock chip assays narrow channel samples.
Orientation of data in relation to geological structure	*Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*	The rock chip sampling programme is part of the first stage of follow-up of the successful stream sediment survey.
	If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	No drilling has been undertaken by the Company and no commentary is being presented here on past drilling results.
Sample security	*The measures taken to ensure sample security.*	The rock chip samples were organised and packed at the Company's secure core yard facility at Sotae-myeon. The samples were then packed in cardboard cartons and shipped to ALS Laboratory, Malaga, Perth using DHL Global Forwarding. The samples routinely took 4 to 7 days in transit from Korea until clearing customs in Perth and delivery to the laboratory. DHL online tracking allows for the parcels to be tracked throughout their transit.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	The ALS Laboratory, Malaga has not been visited by Company at this point in time.

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

Section 2: Reporting of Exploration Results

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

Criteria	JORC – Code of Explanation	Commentary
Tenement and land tenure status	*Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.*	SMCL, a wholly owned subsidiary of Peninsula initially filed 2 applications over a prospective pegamatite outcrop proximal to Mt. Ubyeong. These applications were renewed on 15 May 2017. The Company has until 14 November 2017 to complete a Mineral Deposit Survey reports (MDS) across titles Hyeondong 68 and 78. In addition, Hyeondong blocks 48, 49 and 58 were applied for on the 16 February 2017 and Hyeondong blocks 70, 79, 80, 89, 90, 99, 100 and 130 on 20 December 2016. The Company has until 15th August and 18th June respectively to file MDS surveys over these additional blocks. Further, on the 16 February 2017, the Company filed 8 additional applications including over the adjacent Dogyedong blocks 71, 72, 81, 82, 91, 92 and 131 and 142. The Company will have until 15 August 2017 to complete MDS surveys over these 8 additional blocks. On 27th April 2017, MDS covering the historic Chilbo mine workings blocks Hyeondong 59, 60 and 69 were accepted and the Company was formally granted the exploration rights for up to 7 years over these three titles. Exploration rights are granted by commodity for tenement blocks defined by the GRS080 grid system over 1x1 minute graticule blocks. The Ministry of Trade, Industry and Energy (MOTIE) reviews the MDS report and if satisfied, will issue an exploration right.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	The Company has been granted tenure for 6 months and is required to submit an MDS report for each of the 18 applied tenements prior to the end of the 6 month application period. If the MDS report is accepted by the Ministry, the Company will be granted Mining rights over the applied tenement for a further 3 years. Following the successful filing of the MDS, the applicant is required to file a Prospecting Application (PA). The PA report details the planned exploration activities to be completed over the tenement during the 3 year prospecting period. This includes the completion of a minimum quantum of geophysical surveys, geochemical surveys or drilling as defined under the Mines Act. Provided that at least 50% of the statutory requirement is completed within the initial 3 year prospecting period, the tenement holder is entitled to apply for an additional 3 year extension to facilitate the completion of the specified exploration programme. A Prospecting Report must then be submitted to the Ministry at the completion of the exploration programme. The tenement holder must then submit a Mine Planning Application (MPA) to the local Government Authority who will, if the MPA is approved, grant

Criteria	JORC – Code of Explanation	Commentary
		tenure for mining for a period of 20 years subject to statutory requirements as set out under the terms of the MPA approval. The applicant holding a Mining Right can apply for extensions provided all statutory requirements have been met over the life of the mine.
Exploration done by other parties	*Acknowledgement and appraisal of exploration by other parties.*	The Company has presented and commented upon all past exploration work in the area that the Company is currently aware of. The Company is currently searching for historical mine records and past Korea Resources Corporation (KORES) or historic Korea Mineral Promotion Corporation (KMPC) reports on the Ubeong Project. All the exploration work by KIGAM has been undertaken as high level reconnaissance surveys including airborne geophysics, regional scale stream sediment surveys and large scale regional geological mapping[D5,D6]. The presence of scattered pieces of drill core at the Ubeong Zinc Project mine site indicates that some limited drilling was undertaken historically. As yet, the Company has been unsuccessful in locating any historic records pertaining to this work. At this stage, the Company has no records of the past production from any of the historic mines in the district.
Geology	*Deposit type, geological setting and style of mineralisation.*	The geological target is skarn associated polymetallic zinc and silver mineralisation. The limited rock chip assay results indicate that there is potential in the area for zinc, lead, copper, silver, tin stibnite and tungsten mineralisation. The Proterozoic limestone at the former mine site has undergone intense skarn metasomatic alteration most likely associated with a blind intrusive body. Typical calc-silicate skarn alteration minerals such as hedenbergite, garnet and epidote were observed in rock chip samples. The intense magnetite and pyrrhotite mineralisation is typical of many other Korean skarn deposits. The intense magnetic high sympathetically tracking the mapped limestone unit is interpreted to reflect strong magnetite and pyrrhotite mineralisation associated with skarnification of the limestone. The Kumho mine to the west of the Ubeong Project (Figure 2) was discovered during the Japanese occupation of Korea and initially mined as a manganese bearing skarn deposit. Subsequently, copper, lead, zinc, silver and gold mineralisation was discovered at depth in the 1940s. The Kumho mine has operated intermittently since 1930s with mining activities ceasing at times due to declining metal prices. The mine is currently active and is reportedly operating at around a 6% zinc head grade.
Drill hole information	*A summary of all information material to the understanding of the exploration results including a*	There is evidence of historic drilling at the main historic mine site with minor scattered pieces of HQ, NQ, BQ and AQ core

Criteria	JORC – Code of Explanation	Commentary
	tabulation of the following information for all Material drill holes: *• easting and northing of the drill hole collar* *• elevation or RL (Reduce Level) – elevation above sea level in metres) of the drill hole collar* *• dip and azimuth of the hole* *• down hole length and interception depth* *• hole length*	observed. The Company is yet to locate any historic drilling or mining records. All rock chip results, location details and descriptions are included herewith as Appendices 1 & 2.
	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.	No comments are being made on drilling results.
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.*	No weightings or averaging has been applied to the data. All the data presented in this release is raw data. The images in this release relate to rock chip samples collected by Company personnel as part of a broader follow-up stream sediment survey over the Ubeong Project area.
	Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	The data has not been aggregated.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalent vales have been reported.

Criteria	JORC – Code of Explanation	Commentary
Relationship between mineralisation widths and intercept lengths	*These relationships are particularly important in the reporting of Exploration Results.*	The assay results being commented upon are all rockchip grab samples or channel sample data assays.
	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	No drilling has been undertaken or commented upon in this release.
	If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	No drilling or core assaying has been undertaken by the Company and no drilling or assay results have been reported or commented upon.
Diagrams	*Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	Figure 1 shows the location of rockchip samples collected at the Chilbo prospect plotted on the Company's ground magnetic survey data. It shows details of Zn, Cu Ag and Au assay data. Figure 2 illustrates the location of the Ubeong Project tenements and regional magnetics and key skarnified limestone outcrops. The KIGAM Socheon aeromagnetic image has been used as an underlying base to the figure and highlights the strong coincident magnetic high attributed to the skarnification of the host limestone unit within the Ubeong Project area[D5]. The tenement applications area is shown outlined as a dashed yellow line and the 3 granted tenement blocks as a solid yellow line.
Balanced reporting	*Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	The sample point location details are summarised in Table 1 and detailed in Appendix 1. The full list of all the base and precious metal assays obtained from rock chip sample assaying is included as Appendix 2.

Criteria	JORC – Code of Explanation	Commentary
Other substantive exploration data	*Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	All base metal data considered relevant and material has been included in this announcement. A detailed ground magnetics survey has been completed over the main Chilbo workings area covering a 1.5km x 1.5km area on 50m to 100m spaced north-south lines. The magnetic readings were collected continuously using a Geometrics G858, continuous reading CV magnetometer (G858), supported by a Geometrics G856 proton precession base station unit (G856). The G858 records one (1) reading per second as the operator walks the survey line. The G856 base station unit records and monitors the diurnal variation in the earths geomagnetic field during the survey, variations of which can be removed from the survey using processing. The image of the ground magnetics data presented in Figure 1 is a total magnetic intensity (TMI), reduced to pole (RTP), analytical signal image with a 20° from vertical sun-angle from the south.
Further work	*The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).*	The Company plans to complete tenement scale geological mapping and rock chip sampling across each Ubeong tenement block. A grid based (100m x 25m) soil sampling programme is underway focussed on the Chilbo area but will be broadened to cover the full Ubeong tenement package. The objectives of this programme are to define the magnetic skarnified limestone unit and structural breaks that may have focussed mineralisation. Further, ground magnetic surveying is being considered as is an Induced Polarisation survey over the Chilbo prospect which will help further refine drilling targets.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Figure 1 shows the TMI image of the ground magnetics over the Chilbo workings area, the location of mapped workings and rock-chip sample results to date. Overlaying is a structural interpretation showing interpreted skarnified limestone and numerous structural breaks that may be targeted using drilling for high-grade massive sulphide mineralisation with geochemical support. Figure 2 outlines the strong magnetic high coincident with the mapped limestone unit, tenement applications and regionally mapped limestone unit. This is considered a strong target for along strike repeats of skarn polymetallic mineralisation already identified at the Chilbo prospect.

Appendix 1 – Location and sample description details for 110 rock chip samples, Ubeong Project

Sample ID	Project	UTM East	UTM North	RL m	Sample Type	Comments
UBG0023	Ubeong	513285.00	4077926.00	674	Dump	FeOx gossan.
UBG0024	Ubeong	513285.00	4077926.00	674	Dump	FeOx gossan.
UBG0026	Ubeong	513364.00	4077885.00	683	Dump	Massive Si-As.
UBG0027	Ubeong	513364.10	4077885.10	683	Dump	FeOx gossan.
UBG0028	Ubeong	513364.20	4077885.20	683	Dump	Sph-Garnet skarn
UBG0029	Ubeong	513363.00	4077878.00	672	O/c	Multiphase, pyritic chalcedonic epithermal breccia. Small, well rounded clasts.
UBG0031	Ubeong	513522.00	4078115.00	668	Dump	Massive acicular As.
UBG0032	Ubeong	513522.10	4078115.10	668	Dump	Garnet skarn-Sph
UBG0033	Ubeong	513522.20	4078115.20	668	Dump	FeOx gossan + qtz.
UBG0035	Ubeong	513614.00	4078104.00	695	Dump	Gal-skarn & secondary Cu
UBG0036	Ubeong	513605.00	4078056.00	711	Dump	Py-As rich skarn.
UBG0037	Ubeong	513585.00	4078085.00	697	Dump	Gal. rich skarn, minor Cpy
UBG0038	Ubeong	513585.10	4078085.10	697	Dump	Drusy qtz breccia with coarse Py-As.
UBG0039	Ubeong	513585.20	4078085.20	697	Dump	As rich skarn.
UBG0040	Ubeong	513525.00	4078233.00	724	Dump	Py rich skarn.
UBG0042	Ubeong	513525.20	4078233.20	724	Dump	FeOx gossan.
UBG0043	Ubeong	513399.00	4078261.00	687	Dump	Sph-Py skarn
UBG0044	Ubeong	513399.10	4078261.10	687	Dump	Sph-Gal skarn Ca gangue
UBG0045	Ubeong	513399.20	4078261.20	687	Dump	Py-As rich skarn.
UBG0046	Ubeong	513399.30	4078261.30	687	Dump	Py-As-Gal-Sph skarn.
UBG0047	Ubeong	513399.40	4078261.40	687	Dump	Sph rich skarn
UBG0050	Ubeong	513434.10	4078331.10	750	Dump	Calcite-Si-FeOx gossan.
UBG0051	Ubeong	513415.00	4078313.00	730	Dump	Brecciated fine rhyolite with gossanous vugs and fractures.
UBG0052	Ubeong	513387.00	4078227.00	730	Outcrop	Gossan ex Sph-Py-As

Sample ID	Project	UTM East	UTM North	RL m	Sample Type	Comments
UBG0053	Ubeong	513557.00	4078010.00	709	Dump	Py-As rich skarn.
UBG0054	Ubeong	513557.10	4078010.10	709	Dump	Garnet skarn + Sph(?).
UBG0055	Ubeong	513557.20	4078010.20	709	Dump	FeOx gossan.
UBG0056	Ubeong	513557.30	4078010.30	709	Dump	Garnet skarn + Sph
UBG0057	Ubeong	513548.00	4078002.00	718	Dump	Massive Fe-Sph in skarn
UBG0058	Ubeong	513548.10	4078002.10	718	Dump	Atoll structure As-Py + trace Gal(?) in skarn.
UBG0060	Ubeong	513409.10	4078480.10	726	Dump	As rich skarn.
UBG0061	Ubeong	513409.20	4078480.20	726	Dump	Coarse Sph in Ca-skarn
UBG0062	Ubeong	513409.30	4078480.30	726	Dump	Py-As-Cpy in Ca-garnet skarn
UBG0063	Ubeong	513409.40	4078480.40	726	Dump	Very coarse Sph in calcite
UBG0064	Ubeong	513409.50	4078480.50	726	Dump	Py-As-minor Sph in calcite-garnet skarn.
UBG0065	Ubeong	513409.60	4078480.60	726	Dump	Vuggy Sph-Cpy/secondary Cu
UBG0066	Ubeong	513435.00	4078451.00	668	Dump	Py-Si-As rich skarn.
UBG0067	Ubeong	513435.10	4078451.10	668	Dump	As-Sph garnet skarn
UBG0068	Ubeong	513435.20	4078451.20	668	Dump	Breccia, sulphide clasts in fine calcite matrix.
UBG0069	Ubeong	513435.30	4078451.30	668	Dump	Py-As-Chalco skarn.
UBG0070	Ubeong	513407.00	4078455.00	644	Dump	Sph garnet skarn.
UBG0071	Ubeong	513407.10	4078455.10	644	Dump	Si skarn & Py-As-trace Cpy
UBG0072	Ubeong	513407.20	4078455.20	644	Dump	Skarn & coarse Sph
UBG0073	Ubeong	513446.00	4077895.00	687	Dump	Gossanous breccia in fine skarn matrix(?).
UBG0074	Ubeong	513446.10	4077895.10	687	Dump	Garnet skarn + Sph(?).
UBG0076	Ubeong	513446.30	4077895.30	687	Dump	Py-As-Si alteration.
UBG0078	Ubeong	513533.10	4078294.10	730	Dump	Gossan with siliceous skeleton.
UBG0079	Ubeong	513522.00	4078301.00	734	Dump	Gossan with siliceous skeleton.
UBG0081	Ubeong	513525.00	4078309.00	743	Dump	Pyritic silicification.

Sample ID	Project	UTM East	UTM North	RL m	Sample Type	Comments
UBG0082	Ubeong	513525.10	4078309.10	743	Dump	Gossanous pyritic silicification.
UBG0084	Ubeong	513516.00	4078321.00	750	Outcrop	Py-sericite altered quartzite.
UBG0085	Ubeong	513516.10	4078321.10	750	Dump	Weakly pyritic altered marble skarn with trace Gal.
UBG0087	Ubeong	513514.00	4078343.00	761	Dump	Tough calcsilicate skarn, minor Py + green secondary Cu.
UBG0088	Ubeong	513514.10	4078343.10	761	Dump	Tough calcsilicate skarn, minor Py + green secondary Cu.
UBG0089	Ubeong	513514.20	4078343.20	761	Dump	Oxidised garnet skarn.
UBG0091	Ubeong	513515.00	4078391.00	748	Dump	FeOx gossan.
UBG0094	Ubeong	513899.10	4078516.10	759	Dump	Massive, dense FeOx gossan.
UBG0095	Ubeong	513899.20	4078516.20	759	Dump	Vesicular FeOx gossan.
UBG0096	Ubeong	513903.00	4078497.00	769	Dump	FeOx gossan.
UBG0097	Ubeong	513903.10	4078497.10	769	Dump	FeOx gossan.
UBG0098	Ubeong	513897.00	4078464.00	759	Outcrop	FeOx gossan.
UBG0099	Ubeong	513719.00	4078415.00	726	Dump	Py-As-trace Chalco veinlets in fine blk-green skarn.
UBG0100	Ubeong	513719.10	4078415.10	726	Dump	Sph garnet skarn.
UBG0101	Ubeong	513719.20	4078415.20	726	Dump	Sph rich skarn
UBG0102	Ubeong	513719.30	4078415.30	726	Dump	Qtz-Py-calcite vein in skarn.
UBG0103	Ubeong	513673.00	4078339.00	760	Outcrop	Composite rock chip over 5m face of dissem Py-As in fine "sst" silicification.
UBG0104	Ubeong	513709.00	4078686.00	795	Dump	FeOx gossan with fine silica skeleton.
UBG0105	Ubeong	513709.10	4078686.10	795	Dump	Garnet skarn with minor Py.
UBG0106	Ubeong	513713.00	4078676.00	791	Dump	Garnet skarn with minor As.
UBG0107	Ubeong	513713.10	4078676.10	791	Dump	FeOx gossan with fine silica skeleton.
UBG0110	Ubeong	513692.20	4078685.20	802	Dump	FeOx gossan with fine silica skeleton.
UBG0112	Ubeong	513681.00	4078628.00	782	Dump	Garnet skarn with large blebs Sph.
UBG0113	Ubeong	513681.10	4078628.10	782	Dump	FeOx gossan with fine silica skeleton.
UBG0114	Ubeong	513681.20	4078628.20	782	Dump	Fine skarnoid with As disseminations and minor Sph.

Sample ID	Project	UTM East	UTM North	RL m	Sample Type	Comments
UBG0115	Ubeong	513754.00	4078648.00	783	Dump	Coarse garnet skarn plus lots Py-As.
UBG0116	Ubeong	513766.00	4078641.00	772	Dump	Calcsilicate-garnet skarn with Py-As + minor Sph and trace Chalco.
UBG0117	Ubeong	513766.10	4078641.10	772	Dump	As rich garnet skarn.
UBG0118	Ubeong	513791.00	4078657.00	781	Dump	FeOx gossan.
UBG0120	Ubeong	513909.00	4078726.00	858	Dump	Vesicular FeOx gossan.
UBG0123	Ubeong	513862.00	4078725.00	823	Dump	FeOx gossan.
UBG0124	Ubeong	513862.10	4078725.10	823	Dump	FeOx gossan with fine silica skeleton.
UBG0125	Ubeong	513862.20	4078725.20	823	Dump	FeOx gossan.
UBG0127	Ubeong	513865.10	4078717.10	824	Dump	FeOx gossan.
UBG0128	Ubeong	513842.00	4078701.00	757	Dump	FeOx gossan.
UBG0130	Ubeong	513842.20	4078701.20	757	Dump	FeOx gossan.
UBG0132	Ubeong	513786.00	4078549.00	753	Dump	FeOx gossan.
UBG0133	Ubeong	513786.10	4078549.10	753	Dump	FeOx gossan
UBG0134	Ubeong	513786.20	4078549.20	753	Dump	FeOx gossan.
UBG0135	Ubeong	513782.00	4078536.00	751	Dump	FeOx gossan.
UBG0136	Ubeong	513782.10	4078536.10	751	Dump	FeOx gossan.
UBG0137	Ubeong	513782.20	4078536.20	751	Dump	FeOx gossan
UBG0138	Ubeong	513840.00	4078507.00	757	Dump	FeOx gossan with Py remnants.
UBG0139	Ubeong	513840.10	4078507.10	757	Dump	FeOx gossan & fine Si
UBG0140	Ubeong	513819.00	4078498.00	757	Dump	Py-As vein
UBG0141	Ubeong	513819.10	4078498.10	757	Dump	Si-Py-As stockwork veinlets.
UBG0143	Ubeong	513819.30	4078498.30	757	Dump	FeOx gossan.
UBG0144	Ubeong	513694.00	4078478.00	763	Dump	FeOx gossan.
UBG0145	Ubeong	513694.10	4078478.10	763	Dump	FeOx gossan
UBG0146	Ubeong	513694.20	4078478.20	763	Dump	FeOx gossan.

Sample ID	Project	UTM East	UTM North	RL m	Sample Type	Comments
UBG0147	Ubeong	513694.30	4078478.30	763	Dump	FeOx gossan.
UBG0148	Ubeong	513679.00	4078509.00	785	Dump	Garnet skarn, secondary Cu
UBG0150	Ubeong	513679.20	4078509.20	785	Dump	As rich sulphide.
UBG0151	Ubeong	513698.00	4078539.00	766	Outcrop	1.5m composite chip sample, pyritic silicification around adit portal.
UBG0152	Ubeong	513698.10	4078539.10	766	Dump	Felted actinolite skarn with glassy qtz veins + minor Py.
UBG0154	Ubeong	513631.00	4078541.00	795	Dump	Vuggy partially oxidised massive Py-As silicification.
UBG0155	Ubeong	513631.10	4078541.10	795	Dump	Py-As rich garnet skarn.
UBG0156	Ubeong	513631.20	4078541.20	795	Outcrop	Composite rock chip of gossanous disseminated Py-As silicification around rim of small pit.
UBG0157	Ubeong	513302.00	4078075.00	650	Dump	Schistose skarn with Py-As disseminations, cut by later quartz veins with abundant As.
UBG0159	Ubeong	513302.00	4078075.00	650	Dump	Pyritic silicification.
UBG0163	Ubeong	513295.10	4077967.10	687	Dump	Clay-Si-Py-As altered marble. Lots secondary As minerals.

Mineral codes: Iron (Fe), Silica (Si), Oxide (Ox), sulphide (sul), pyrite (py), chalcopyrite (cpy), arsenopyrite (apy), limonite (lm), quartz (qz), feldspar (fd), chlorite (ch) and clay (cy)

Appendix 2 - Results of rock chip sampling at the Ubeong Project

Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
S# / DL	1	1	100	0.2	50	10	20	100	10	10	10	10	1	100	100	5
UBG0023	4	-1	38,100	1,100	110	-10	-20	6,200	-10	20	70	30	11.85	18,000	7,800	750
UBG0024	1	1	54,000	290	230	-10	-20	28,400	-10	30	190	200	8.99	36,000	6,700	580
UBG0026	4	1	37,500	18,950	130	10	-20	122,000	10	40	50	280	11.9	14,000	19,700	6,600
UBG0027	2	-1	48,700	5,270	150	-10	-20	97,000	10	20	50	40	7.05	16,000	9,500	7,680
UBG0028	22	35	10,900	22,500	-50	-10	90	135,500	2,780	-10	10	60	5.47	2,000	8,300	7,340
UBG0029	1	-1	13,500	580	50	-10	-20	120,000	-10	10	20	30	3.88	1,000	39,700	810
UBG0031	416	1	16,000	348,000	170	-10	-20	3,000	-10	10	20	-10	26.8	13,000	3,800	650
UBG0032	54	6	20,500	34,600	90	10	40	106,000	990	40	20	30	5.81	7,000	23,300	8,400
UBG0033	1,355	3	14,200	8,140	80	-10	180	3,000	10	20	20	1,180	28.3	3,000	1,500	530
UBG0035	39	487	8,600	2,030	-50	-10	460	800	2,440	-10	10	20,500	4.75	1,000	8,500	2,430
UBG0036	89	5	4,000	143,500	-50	-10	-20	128,500	20	-10	-10	90	13.35	3,000	27,100	5,910
UBG0037	27	958	3,100	460	-50	-10	1,620	700	3,340	-10	10	10,950	6.5	1,000	2,200	2,930
UBG0038	135	12	8,400	181,500	-50	-10	20	150,000	50	30	10	930	15.35	3,000	6,100	1,690
UBG0039	25	2	40,200	44,600	150	-10	-20	188,500	10	10	30	60	11.15	13,000	10,200	3,940
UBG0040	2	11	13,300	420	-50	-10	-20	221,000	40	-10	10	570	2.71	3,000	7,400	3,950
UBG0042	7	2	50,900	3,660	-50	-10	-20	173,500	20	20	30	120	6.49	-1,000	7,500	10,150
UBG0043	30	-1	1,200	46,900	-50	-10	-20	61,000	4,880	-10	-10	190	6.35	-1,000	600	3,970
UBG0044	23	401	2,400	16,700	-50	-10	930	236,000	1,620	-10	-10	170	2.74	1,000	16,900	4,810
UBG0045	32	2	1,400	49,800	-50	-10	-20	318,000	10	-10	-10	20	4.14	-1,000	1,600	8,430
UBG0046	181	-1	2,600	35,000	-50	-10	-20	225,000	160	-10	-10	10	3.66	1,000	7,000	7,040
UBG0047	76	6	1,000	89,800	-50	-10	20	134,000	2,580	-10	-10	50	8.95	-1,000	13,300	5,930
UBG0050	6	2	33,800	2,650	100	-10	-20	193,500	10	-10	30	50	4.8	20,000	8,800	8,090

Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
S# / DL	1	1	100	0.2	50	10	20	100	10	10	10	10	1	100	100	5
UBG0051	9	2	35,700	2,780	270	-10	-20	5,500	10	10	80	180	12.35	29,000	29,000	-50
UBG0052	1,045	369	1,800	126,000	-50	-10	850	2,900	5,770	-10	-10	3,180	14.65	2,000	2,000	-50
UBG0053	211	7	1,300	174,500	-50	-10	80	96,900	10	10	10	40	16.55	-1,000	-1,000	-50
UBG0054	9	-1	33,700	3,360	90	10	-20	207,000	10	20	30	50	5.71	8,000	8,000	-50
UBG0055	465	31	37,700	25,100	140	10	110	174,000	250	20	30	220	14.65	8,000	8,000	-50
UBG0056	524	13	29,300	15,200	90	-10	180	152,000	590	40	20	50	14.95	6,000	6,000	-50
UBG0057	14	116	1,600	740	-50	-10	2,180	78,300	3,890	-10	-10	210	6.06	-1,000	-1,000	-50
UBG0058	101	41	12,200	122,500	60	-10	210	80,100	60	10	10	140	11.6	3,000	3,000	-50
UBG0060	401	2	35,900	66,500	-50	-10	160	189,000	30	140	30	10	14.6	1,000	1,000	-50
UBG0061	21	12	800	63,000	-50	-10	50	90,300	1,740	-10	-10	210	6.94	-1,000	-1,000	-50
UBG0062	301	202	900	96,700	-50	-10	850	141,500	60	20	-10	15,700	10.8	-1,000	-1,000	-50
UBG0063	23	55	1,800	8,550	-50	-10	110	126,000	3,160	-10	-10	970	4.33	-1,000	-1,000	-50
UBG0064	336	21	28,500	113,500	-50	-10	190	101,500	30	440	20	230	17.95	-1,000	-1,000	-50
UBG0065	27	197	600	18,700	-50	-10	30	158,500	730	10	10	27,400	6.02	-1,000	-1,000	-50
UBG0066	203	6	2,600	60,000	-50	10	540	16,100	40	-10	-10	6,780	24.8	1,000	1,000	-50
UBG0067	458	33	1,900	185,000	-50	-10	500	69,900	510	230	30	140	18.6	-1,000	-1,000	-50
UBG0068	176	11	2,100	40,300	-50	-10	270	94,500	10	-10	-10	2,630	22.5	-1,000	-1,000	-50
UBG0069	251	50	1,500	42,800	-50	-10	360	10,000	60	-10	-10	5,160	37.3	-1,000	-1,000	-50
UBG0070	84	3	19,300	78,900	70	-10	80	109,000	1,570	10	10	40	12.85	5,000	5,000	-50
UBG0071	128	11	6,900	21,200	-50	10	250	5,800	700	-10	-10	3,180	30.7	2,000	2,000	-50
UBG0072	76	3	500	108,500	-50	10	30	92,400	560	20	-10	200	11.85	-1,000	-1,000	-50
UBG0073	5	1	54,700	1,680	-50	10	-20	164,000	40	100	60	40	7.08	4,000	4,000	-50
UBG0074	6	1	65,300	660	-50	-10	-20	208,000	20	10	50	70	6.65	5,000	5,000	-50

Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	K	La
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
S# / DL	1	1	100	0.2	50	10	20	100	10	10	10	10	1	100	100	50
UBG0076	4	1	54,300	22,000	-50	-10	-20	194,500	20	180	40	150	8.57	2,000	17,100	4,880
UBG0078	1	-1	30,600	1,190	200	-10	-20	7,300	-10	30	80	50	7	14,000	3,400	670
UBG0079	2	2	20,500	560	-50	-10	-20	93,100	10	10	50	60	9.75	5,000	2,800	4,470
UBG0081	1	1	4,100	980	-50	-10	-20	6,600	-10	10	20	20	5.59	-1,000	1,000	260
UBG0082	1	-1	18,900	3,480	70	-10	-20	1,400	-10	20	100	40	10.6	6,000	1,600	380
UBG0084	-1	1	19,100	460	50	-10	-20	22,100	-10	10	80	20	5.48	6,000	3,500	740
UBG0085	1	3	25,400	2,450	60	-10	-20	205,000	10	10	30	110	3	3,000	8,000	3,620
UBG0087	1	5	19,900	300	-50	-10	-20	340,000	10	10	10	610	1.99	2,000	5,800	1,880
UBG0088	1	3	25,600	250	80	-10	-20	307,000	20	-10	20	230	2.13	6,000	10,900	2,430
UBG0089	1	10	68,100	580	340	-10	-20	163,000	10	10	40	320	7.75	23,000	7,000	3,740
UBG0091	4	2	49,900	69,400	1,220	-10	-20	69,200	-10	30	70	50	10.5	17,000	9,100	460
UBG0094	491	-1	4,600	9,790	-50	-10	390	7,800	-10	10	10	2,050	48.7	-1,000	600	470
UBG0095	72	2	17,300	1,910	80	-10	810	4,900	-10	10	20	770	37.8	4,000	1,200	840
UBG0096	257	31	4,800	14,850	70	-10	1,280	3,400	-10	-10	10	3,510	45.8	1,000	-500	680
UBG0097	161	1	10,400	10,850	-50	-10	190	1,900	10	-10	30	1,470	39.3	2,000	-500	370
UBG0098	200	5	17,000	2,180	70	-10	230	900	-10	-10	40	580	24.7	5,000	1,000	330
UBG0099	180	3	24,400	1,680	-50	10	160	93,100	-10	30	30	1,680	24.2	-1,000	16,900	3,530
UBG0100	37	1	27,400	39,400	110	10	30	189,500	180	10	20	120	9.62	12,000	11,200	4,050
UBG0101	144	3	25,500	76,900	-50	-10	150	162,500	480	20	30	80	14.65	1,000	8,800	2,970
UBG0102	113	3	27,700	5,510	80	10	80	61,000	-10	40	30	1,100	20.1	7,000	11,300	2,130
UBG0103	2	-1	38,400	1,030	170	-10	-20	14,200	-10	10	80	10	7.92	28,000	9,800	420
UBG0104	43	16	11,500	4,400	60	-10	-20	28,600	30	-10	10	50	3.42	3,000	5,400	2,850
UBG0105	4	-1	61,400	4,810	-50	-10	-20	207,000	-10	10	90	40	8.12	4,000	9,900	5,890

Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	K	La
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
S# / DL	1	1	100	0.2	50	10	20	100	10	10	10	10	1	100	100	50
UBG0106	2	-1	31,500	4,360	-50	-10	-20	171,500	10	10	40	40	10.4	7,000	25,100	5,300
UBG0107	29	6	61,100	1,620	90	-10	-20	161,500	-10	-10	50	30	5.65	7,000	7,500	7,430
UBG0110	7	-1	50,300	1,300	310	-10	-20	92,900	-10	-10	90	60	5.28	25,000	7,300	6,150
UBG0112	26	-1	49,500	360	120	-10	-20	200,000	10	10	80	10	5.37	8,000	17,500	6,190
UBG0113	12	1	17,500	790	-50	-10	-20	27,800	-10	10	120	10	3	2,000	10,100	2,930
UBG0114	594	-1	49,800	36,600	60	10	40	209,000	-10	10	70	10	8.43	3,000	13,500	4,700
UBG0115	30	1	8,600	>100000	-50	-10	-20	87,900	10	20	20	120	20.8	1,000	10,400	4,560
UBG0116	17	19	30,000	46,800	310	-10	40	163,500	100	10	70	250	5.91	22,000	10,700	5,720
UBG0117	786	37	30,200	54,500	-50	-10	1,860	202,000	-10	180	40	90	14.55	-1,000	6,600	4,520
UBG0118	40	61	12,800	>100000	100	-10	20	21,300	20	-10	40	450	18.9	4,000	1,900	1,180
UBG0120	40	-1	36,300	3,080	-50	-10	40	90,400	-10	20	40	520	33.1	2,000	1,100	2,370
UBG0123	76	9	4,300	6,610	-50	-10	70	6,400	-10	10	30	130	23.1	-1,000	-500	1,200
UBG0124	11	14	7,200	24,200	-50	-10	40	5,500	-10	-10	20	90	4.5	1,000	700	380
UBG0125	9	-1	15,000	940	-50	-10	-20	4,700	-10	10	40	270	10	1,000	4,500	3,590
UBG0127	46	1	26,300	1,120	-50	-10	70	84,900	-10	-10	40	280	34.3	-1,000	-500	1,660
UBG0128	63	1	21,000	4,420	160	10	20	31,500	-10	10	50	550	33.2	10,000	7,100	1,370
UBG0130	363	2	5,400	1,450	-50	10	40	75,400	-10	10	10	290	24.8	1,000	47,300	1,260
UBG0132	222	1	18,300	850	-50	-10	60	8,100	-10	10	30	630	39	4,000	700	550
UBG0133	4,870	1	9,300	450	-50	-10	30	1,300	-10	10	30	540	26.5	1,000	-500	300
UBG0134	103	2	11,000	290	-50	-10	-20	4,900	-10	10	20	820	23	1,000	3,400	590
UBG0135	144	1	5,900	7,030	-50	-10	750	1,000	-10	10	10	230	>50	1,000	2,200	1,960
UBG0136	831	-1	25,500	12,500	110	10	310	700	-10	-10	40	820	33.3	4,000	1,400	180
UBG0137	1,365	1	8,400	8,600	-50	-10	510	1,000	-10	-10	30	1,020	22.9	1,000	600	270

Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	K	La
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
S# / DL	1	1	100	0.2	50	10	20	100	10	10	10	10	1	100	100	50
UBG0138	314	4	6,000	2,990	-50	10	230	-500	-10	20	10	1,100	>50	1,000	-500	680
UBG0139	1,105	4	5,600	31,000	90	10	1,000	-500	-10	-10	10	340	>50	1,000	800	770
UBG0140	1,550	5	2,400	1,020	-50	-10	130	1,800	-10	70	10	2,570	38.2	-1,000	2,500	730
UBG0141	237	23	22,200	10,350	80	-10	340	58,200	50	10	20	4,230	21.8	8,000	13,700	4,970
UBG0143	177	2	13,200	14,550	110	-10	120	1,900	10	20	20	1,090	47.5	2,000	700	3,090
UBG0144	195	1	10,200	3,210	-50	-10	170	600	-10	10	40	3,050	42	-1,000	-500	630
UBG0145	1,075	523	7,100	19,700	-50	10	530	7,100	10	20	30	4,230	40.2	1,000	3,200	440
UBG0146	109	18	5,000	1,760	-50	-10	50	-500	-10	10	10	2,090	>50	-1,000	500	1,440
UBG0147	54	1	2,500	29,900	-50	-10	1,740	-500	-10	-10	20	850	>50	-1,000	-500	540
UBG0148	286	97	41,900	20,600	-50	-10	120	166,500	50	30	40	22,300	15.6	1,000	11,700	3,510
UBG0150	339	17	33,100	99,300	140	10	150	98,000	10	30	50	2,170	19.6	6,000	22,500	2,100
UBG0151	278	1	6,800	11,600	-50	-10	270	-500	-10	30	10	840	46.3	1,000	-500	130
UBG0152	41	7	60,500	4,200	70	10	-20	10,600	-10	10	60	1,390	6.55	6,000	12,100	580
UBG0154	772	12	8,200	150,000	120	10	40	4,100	100	-10	10	670	24.6	2,000	5,800	1,280
UBG0155	101	1	49,500	8,260	-50	10	-20	205,000	-10	20	40	180	9.78	-1,000	17,800	3,550
UBG0156	39	-1	39,400	1,360	50	-10	-20	85,000	-10	-10	40	180	27.1	5,000	5,100	1,880
UBG0157	126	2	16,100	90,400	110	-10	530	45,100	10	20	40	50	10.55	12,000	13,600	2,670
UBG0159	32	4	22,700	2,530	170	-10	30	3,700	-10	-10	60	80	5.83	16,000	3,100	440
UBG0163	6	-1	56,300	740	340	-10	-20	31,400	-10	20	70	110	4.49	41,000	8,100	490

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
Analyte	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID	10	500	10	10	20	100	50	10	10	50	500	50	50	10	50	10
UBG0023	-10	600	20	1,290	50	1,200	50	10	190	-50	2,900	-50	-50	60	-50	50
UBG0024	-10	1,700	20	1,750	50	14,500	-50	20	330	-50	9,200	-50	-50	140	-50	100
UBG0026	-10	2,100	20	1,260	20	17,600	-50	20	130	-50	6,000	-50	-50	110	-50	710
UBG0027	-10	-500	20	800	-20	-500	-50	10	20	-50	5,900	-50	-50	90	-50	990
UBG0028	-10	-500	10	290	1,090	>100000	-50	-10	80	-50	600	-50	-50	30	-50	229,000
UBG0029	-10	-500	10	410	-20	5,700	-50	-10	130	-50	1,600	-50	-50	30	-50	250
UBG0031	-10	-500	10	90	40	>100000	50	-10	20	-50	600	-50	-50	10	-50	50
UBG0032	-10	-500	150	560	160	56,100	-50	-10	70	-50	1,300	-50	-50	60	50	69,500
UBG0033	-10	-500	10	900	-20	900	200	-10	10	-50	1,200	-50	-50	30	-50	920
UBG0035	120	-500	10	180	70,500	>100000	70	-10	20	-50	-500	-50	-50	20	-50	232,000
UBG0036	-10	-500	10	60	540	67,500	-50	-10	70	-50	-500	-50	-50	10	-50	1,410
UBG0037	-10	-500	10	80	138,500	>100000	100	-10	-10	-50	-500	-50	-50	10	50	279,000
UBG0038	-10	-500	10	70	1,730	84,400	-50	-10	80	-50	-500	-50	-50	20	-50	3,900
UBG0039	-10	-500	10	440	90	22,400	-50	10	60	-50	2,400	-50	-50	50	-50	760
UBG0040	-10	-500	10	1,390	1,120	3,400	-50	10	80	-50	1,800	-50	-50	40	-50	3,110
UBG0042	-10	-500	20	1,160	100	1,700	-50	10	10	-50	4,100	-50	-50	70	-50	1,590
UBG0043	-10	-500	-10	-50	80	>100000	50	-10	50	-50	-500	-50	-50	-10	-50	488,000
UBG0044	-10	-500	-10	50	45,600	72,700	-50	-10	200	-50	-500	-50	-50	10	-50	120,500
UBG0045	-10	-500	10	80	150	22,900	-50	-10	210	-50	-500	-50	-50	-10	-50	810
UBG0046	-10	-500	-10	130	50	24,100	-50	-10	250	-50	-500	-50	-50	10	-50	14,800
UBG0047	-10	-500	-10	60	560	>100000	50	-10	140	-50	-500	-50	-50	10	-50	234,000

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
Analyte	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID	10	500	10	10	20	100	50	10	10	50	500	50	50	10	50	10
UBG0050	-10	600	10	550	60	2,200	60	20	90	-50	4,300	-50	-50	100	-50	720
UBG0051	-10	500	10	670	40	700	-50	10	60	-50	7,500	-50	-50	160	-50	640
UBG0052	-10	-500	-10	110	12,400	>100000	200	-10	60	-50	-500	-50	-50	-10	-50	342,000
UBG0053	-10	-500	20	230	170	87,900	-50	-10	40	-50	-500	-50	-50	10	-50	950
UBG0054	-10	-500	10	280	20	3,700	-50	10	90	-50	1,800	-50	-50	40	-50	370
UBG0055	10	-500	10	1,520	790	13,500	90	10	60	-50	4,200	-50	-50	60	-50	14,400
UBG0056	30	-500	20	750	150	61,100	60	10	40	-50	2,600	-50	-50	40	50	53,600
UBG0057	-10	-500	10	170	2,170	>100000	-50	-10	130	-50	-500	-50	-50	10	-50	297,000
UBG0058	-10	-500	20	200	930	58,800	-50	-10	80	-50	600	-50	-50	20	-50	4,840
UBG0060	-10	-500	40	480	20	31,400	80	10	10	-50	3,400	-50	-50	70	-50	2,550
UBG0061	-10	-500	-10	110	350	96,400	-50	-10	40	-50	-500	-50	-50	-10	-50	125,500
UBG0062	-10	-500	50	190	4,340	64,800	110	-10	50	-50	-500	-50	-50	10	-50	4,310
UBG0063	-10	-500	10	110	2,470	>100000	70	-10	60	-50	-500	-50	-50	10	-50	284,000
UBG0064	20	-500	70	930	80	83,400	70	10	260	-50	2,400	-50	-50	60	-50	1,970
UBG0065	-10	-500	30	560	400	40,800	270	-10	230	-50	-500	-50	-50	-10	-50	56,300
UBG0066	-10	-500	-10	130	40	>100000	-50	-10	-10	-50	-500	-50	-50	10	270	3,150
UBG0067	-10	-500	30	580	330	>100000	230	10	100	-50	1,800	-50	-50	40	50	41,600
UBG0068	-10	-500	-10	340	80	>100000	50	-10	210	-50	-500	-50	-50	-10	-50	720
UBG0069	-10	-500	-10	310	930	>100000	-50	-10	10	-50	-500	-50	-50	10	-50	2,740
UBG0070	-10	-500	10	210	50	>100000	-50	-10	20	-50	1,000	-50	-50	10	340	154,000
UBG0071	-10	-500	-10	160	160	>100000	-50	-10	-10	-50	-500	-50	-50	10	560	39,400

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
Analyte	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID	10	500	10	10	20	100	50	10	10	50	500	50	50	10	50	10
UBG0072	170	-500	20	-50	90	85,000	-50	-10	60	-50	-500	-50	-50	-10	-50	49,700
UBG0073	-10	-500	40	910	30	2,100	-50	10	-10	-50	5,000	-50	-50	80	-50	3,900
UBG0074	10	-500	10	630	-20	3,500	-50	20	10	-50	9,200	-50	-50	180	-50	1,260
UBG0076	-10	-500	40	980	-20	11,100	-50	20	-10	-50	6,900	-50	-50	140	-50	990
UBG0078	-10	-500	20	640	20	-500	-50	10	40	-50	6,300	-50	-50	110	-50	190
UBG0079	-10	-500	10	690	20	500	-50	10	20	-50	3,100	-50	-50	80	-50	980
UBG0081	-10	-500	10	580	-20	19,100	-50	10	-10	-50	2,100	-50	-50	40	-50	70
UBG0082	-10	-500	10	660	-20	-500	-50	10	20	-50	4,700	-50	-50	90	-50	120
UBG0084	-10	-500	10	1,230	-20	2,400	50	10	50	-50	10,700	-50	-50	100	-50	110
UBG0085	-10	-500	20	700	610	1,900	-50	10	100	-50	4,100	-50	-50	50	-50	740
UBG0087	-10	-500	10	240	-20	-500	-50	10	180	-50	700	-50	-50	30	-50	690
UBG0088	-10	-500	10	410	-20	-500	-50	10	150	-50	1,500	-50	-50	40	-50	1,490
UBG0089	-10	700	20	760	50	-500	-50	10	40	-50	2,700	-50	-50	60	-50	1,140
UBG0091	-10	-500	20	3,510	-20	-500	190	10	320	-50	7,000	-50	-50	70	-50	100
UBG0094	-10	-500	10	1,020	-20	700	-50	-10	10	-50	-500	-50	-50	10	-50	960
UBG0095	-10	-500	-10	1,190	-20	800	-50	-10	10	-50	1,100	-50	-50	50	50	580
UBG0096	10	-500	-10	800	-20	2,600	170	-10	10	-50	-500	-50	-50	20	-50	480
UBG0097	10	-500	10	830	-20	800	50	-10	10	-50	1,400	-50	-50	60	50	660
UBG0098	-10	-500	-10	790	-20	1,000	-50	10	10	-50	3,000	-50	-50	60	100	130
UBG0099	-10	-500	20	600	-20	95,300	-50	10	-10	-50	2,300	-50	-50	40	250	130
UBG0100	500	-500	10	990	30	33,400	100	10	110	-50	4,000	-50	-50	60	-50	16,400

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
Analyte	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID	10	500	10	10	20	100	50	10	10	50	500	50	50	10	50	10
UBG0101	10	-500	10	810	40	58,500	60	10	30	-50	5,000	-50	-50	80	120	47,000
UBG0102	-10	-500	10	540	-20	>100000	50	10	90	-50	2,700	-50	-50	40	50	130
UBG0103	-10	1,200	20	760	-20	11,100	-50	10	130	-50	5,000	-50	-50	110	-50	240
UBG0104	-10	-500	10	3,450	40	2,700	60	-10	40	-50	700	-50	-50	20	-50	2,780
UBG0105	-10	-500	20	750	-20	2,200	-50	20	10	-50	12,200	-50	-50	170	-50	190
UBG0106	-10	-500	-10	600	-20	2,500	-50	10	20	-50	4,900	-50	-50	90	-50	800
UBG0107	-10	-500	10	720	-20	-500	-50	20	-10	-50	7,400	-50	-50	110	-50	460
UBG0110	-10	600	20	750	-20	500	-50	10	20	-50	10,800	-50	-50	160	100	380
UBG0112	-10	-500	20	910	-20	800	-50	30	40	-50	11,100	-50	-50	210	-50	1,020
UBG0113	-10	-500	20	1,350	-20	-500	-50	20	10	-50	14,200	-50	-50	170	-50	310
UBG0114	-10	-500	10	590	-20	14,700	-50	20	30	-50	10,100	-50	-50	190	140	80
UBG0115	10	-500	10	470	20	>100000	200	-10	30	-50	1,400	-50	-50	20	-50	1,360
UBG0116	810	500	40	840	2,080	29,400	380	20	120	-50	7,800	-50	-50	130	-50	9,220
UBG0117	30	-500	180	580	510	23,700	60	10	10	-50	3,400	-50	-50	90	-50	130
UBG0118	-10	-500	-10	400	14,550	4,400	110	10	50	-50	2,100	-50	-50	30	-50	510
UBG0120	20	-500	10	1,440	70	1,100	-50	10	-10	-50	5,000	-50	-50	90	90	280
UBG0123	-10	-500	10	530	30	1,000	120	-10	-10	-50	4,900	-50	-50	40	-50	60
UBG0124	-10	-500	-10	170	1,920	900	110	-10	10	-50	3,800	-50	-50	30	-50	90
UBG0125	-10	-500	20	980	-20	500	50	-10	-10	-50	4,100	-50	-50	50	-50	90
UBG0127	-10	-500	-10	1,900	20	600	-50	-10	-10	-50	6,900	-50	-50	100	-50	40
UBG0128	-10	500	20	1,610	100	700	-50	10	30	-50	2,100	-50	-50	50	-50	100

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
Analyte	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID	10	500	10	10	20	100	50	10	10	50	500	50	50	10	50	10
UBG0130	-10	-500	-10	620	-20	1,400	-50	10	-10	-50	800	-50	-50	20	-50	90
UBG0132	-10	-500	-10	1,350	-20	1,300	80	10	-10	-50	3,500	-50	-50	70	-50	80
UBG0133	-10	-500	10	760	-20	1,100	-50	-10	-10	-50	2,300	-50	-50	40	50	40
UBG0134	-10	-500	10	450	-20	10,300	-50	-10	-10	-50	1,400	-50	-50	30	-50	40
UBG0135	-10	-500	-10	590	-20	500	-50	-10	-10	-50	900	-50	-50	40	-50	300
UBG0136	-10	-500	-10	860	-20	700	-50	10	-10	-50	2,500	-50	-50	60	170	20
UBG0137	-10	-500	-10	420	-20	1,200	-50	10	-10	-50	2,400	-50	-50	40	-50	30
UBG0138	-10	-500	-10	800	-20	4,600	70	-10	-10	-50	500	-50	-50	20	-50	570
UBG0139	-10	-500	-10	430	-20	1,400	170	-10	10	-50	-500	-50	-50	10	-50	360
UBG0140	-10	-500	10	500	-20	>100000	-50	-10	-10	-50	500	-50	-50	10	-50	70
UBG0141	-10	-500	10	310	40	96,000	70	-10	100	-50	1,800	-50	-50	30	70	2,330
UBG0143	20	-500	20	2,310	-20	1,200	-50	-10	10	-50	800	-50	-50	80	-50	870
UBG0144	-10	-500	-10	590	70	17,300	-50	-10	-10	-50	1,600	-50	-50	30	-50	300
UBG0145	10	-500	10	790	40	4,000	60	10	10	-50	2,100	-50	-50	30	100	1,390
UBG0146	10	-500	-10	480	-20	700	100	-10	-10	-50	-500	-50	-50	10	-50	1,050
UBG0147	-10	-500	-10	790	-20	2,900	-50	-10	-10	-50	1,100	-50	-50	20	-50	80
UBG0148	-10	-500	40	1,180	1,480	15,000	50	10	-10	-50	5,300	-50	-50	80	-50	3,000
UBG0150	-10	700	50	1,330	140	40,600	210	10	50	-50	5,600	-50	-50	90	-50	620
UBG0151	-10	-500	-10	1,000	-20	5,800	-50	-10	-10	-50	-500	-50	-50	10	-50	190
UBG0152	-10	2,300	20	910	140	1,000	-50	10	50	-50	3,500	-50	-50	110	-50	230
UBG0154	-10	-500	10	240	660	22,000	50	10	90	-50	600	-50	-50	10	430	1,940

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Zn-OG62
Analyte	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID	10	500	10	10	20	100	50	10	10	50	500	50	50	10	50	10
UBG0155	-10	-500	20	1,120	-20	14,600	110	20	-10	-50	8,700	-50	-50	120	-50	110
UBG0156	-10	-500	-10	860	-20	7,500	50	10	10	-50	3,400	-50	-50	70	-50	270
UBG0157	-10	-500	20	470	100	35,200	1,430	10	50	-50	3,600	-50	-50	70	-50	180
UBG0159	-10	500	10	890	1,890	12,800	80	10	40	-50	6,200	-50	-50	80	-50	350
UBG0163	-10	1,700	20	990	40	14,700	-50	20	210	-50	14,900	-50	-50	160	-50	30