CARBINE RESOURCES
LIMITED

ASX / MEDIA ANNOUNCEMENT **29 July 2021**

Maiden Exploration Target Estimated for Muchea West Silica Sand Project

HIGHLIGHTS

- **Carbine owns 100% of the highly prospective Muchea West Silica Sands Project**
- **A Maiden Exploration Target has been estimated, based on 82 vacuum holes completed at Muchea West in 2019:**
  - **E70/4905 - 800 to 1030 Mt of Silica Sand at an average grade of 99.6 to 99.9 % SiO_2**
  - **Eastern High Purity sub section - 400 to 480 Mt of Silica Sand at an average grade of 99.7 to 99.9 % SiO_2**
  - **The Company notes that the potential quantity and grade is conceptual in nature, that there has been insufficient exploration to estimate a Mineral Resource and that it is uncertain if further exploration will result in the estimation of a Mineral Resource**
- **Preliminary attrition test work completed on composite drill samples indicate possible final product upgrades of >99.9% SiO_2 and a lowering of Fe_2O_3 to <100ppm**
- **The grade of the Muchea West Project has potential to meet the specifications for Premium Glass, including the ultra clear, high tech glass market, in addition to Float and Container glass market**
- **Muchea West Project is located directly to the west of Muchea. VRX Silica Ltd's (ASX: VRX) Muchea Silica Sand Project, host to an Indicated Resource of 29Mt at 99.6% SiO_2 and Inferred Resource of 179Mt at 99.6% SiO_2 for a global resource of 208Mt at 99.5% SiO_2[1], is the northern portion of the Muchea West dune system**
- **Mapping and drilling have defined a target area of 100km^2**
- **Significant recent drilling results include:**
  - **Hole Aus011: 9m at 99.8% SiO_2 from 1m**
  - **Hole Aus013: 9m at 99.8% SiO_2 from 1m**
  - **Hole Aus014: 9m at 99.9% SiO_2 from 1m**
  - **Hole Aus044: 19m at 99.7% SiO_2 from 1m**
  - **Hole Aus068: 15m at 99.6%SiO_2 from 5m**
  - **All 82 Ausco holes drilled returned white sand profiles of greater than 99.0% SiO_2**
  - **Over 80% of Ausco holes drilled had white sand profiles greater than 99.6% SiO_2**

[1] VRX Silica Ltd, ASX Release, 17 June 2019 "*Muchea Mineral Resource Estimate Upgrade*"

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Carbine Resources Limited (ASX: CRB) (the Company) is pleased to provide an update on the 100% owned Muchea West Silica Sands Project.

A maiden Exploration Target has now been estimated for the Muchea West Project as follows:

- E70/4905 - 800 to 1030 Mt of Silica Sand at an average grade of 99.6 to 99.9 % SiO_2
- Eastern High Purity sub section - 400 to 480 Mt of Silica Sand at an average grade of 99.7 to 99.9 % SiO_2

Preliminary test work completed on samples from the Muchea West Project have also indicated that the grade of the in situ silica sand is sufficient to meet the requirements for Float and Container glass market. Further, test work indicates that this unusually high grade, following a simple processing route, can result in a number of products at the Premium end of the Silica Glass Market, including the ultra clear, high tech glass market.

MUCHEA WEST SILICA SAND PROJECT

Location, Access & Proximal Infrastructure

The Muchea West Project is located approximately 40km north-northeast of Perth and approximately 500m to the west of Muchea. Direct access from the tenure is via the Brand Highway thence via farm tracks and fence lines. Both the Brand Highway and the Moora-Kwinana Railway provide a direct connection with the Kwinana Bulk Terminal.

The Muchea West Project is located directly adjacent to VRX Silica Ltd's Muchea Project.

Tenure

The Muchea West Project covers a land area of 102km^2 and consists of a single granted exploration licence, E70/4905.

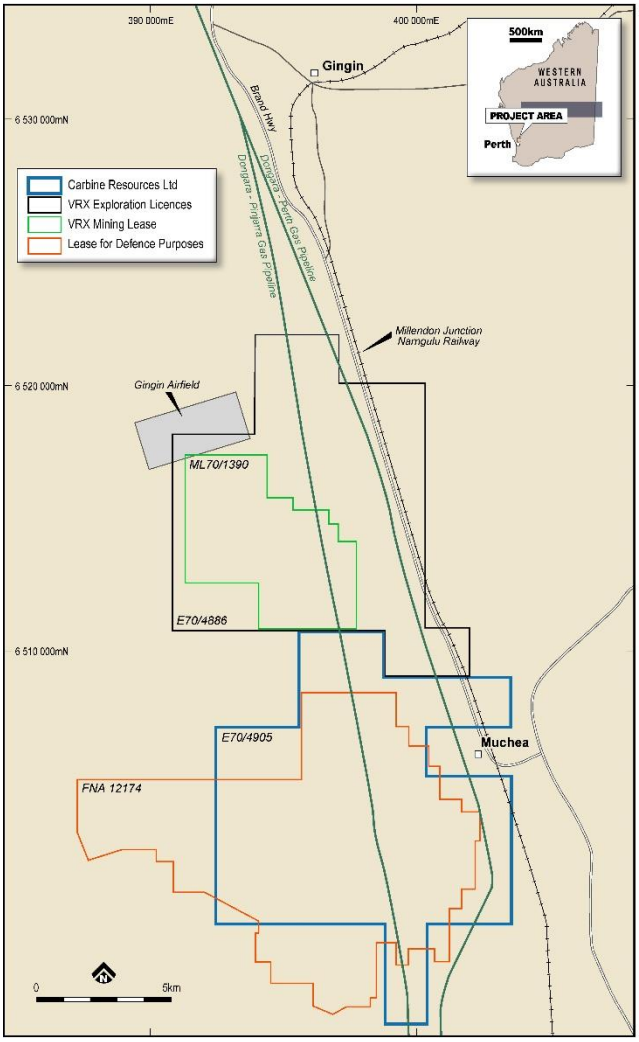

Figure 1: Project Location Plan

Project Geology

The Project is underlain by the Bassendean Sand Formation, which extends over large areas of the Swan Coastal Plains of the Perth Basin from about 23 km north of Jurien, to about 15km southwest of Busselton. The Bassendean Sand Formation is considered to have a maximum thickness of about 45 m, and the unit is found as a strip parallel to the coast, having a width of about 10-20 km, and its western edge about 5-10km inland. Concretionary ferruginous material, locally known as "coffee rock", is developed discontinuously in the sand near the groundwater table. In the Tenement, good quality silica sand overlies iron rich brown sand, occasionally interspersed with ferruginous nodules.

The upper units of the Bassendean Sand Formation are typically clean, well-rounded and well sorted sands. At depth, it is commonly brown to dark brown with high iron contents, however closer to the surface the sand is cream/white. The physical, chemical and mineralogical characteristics of the Bassendean Sands can vary considerably, resulting in variation in the quality of the sand regionally as well as locally. In general, the Bassendean Sand Formation is covered with very little or no overburden.

The region surrounding the Project has been explored for both silica sand and mineral sands.

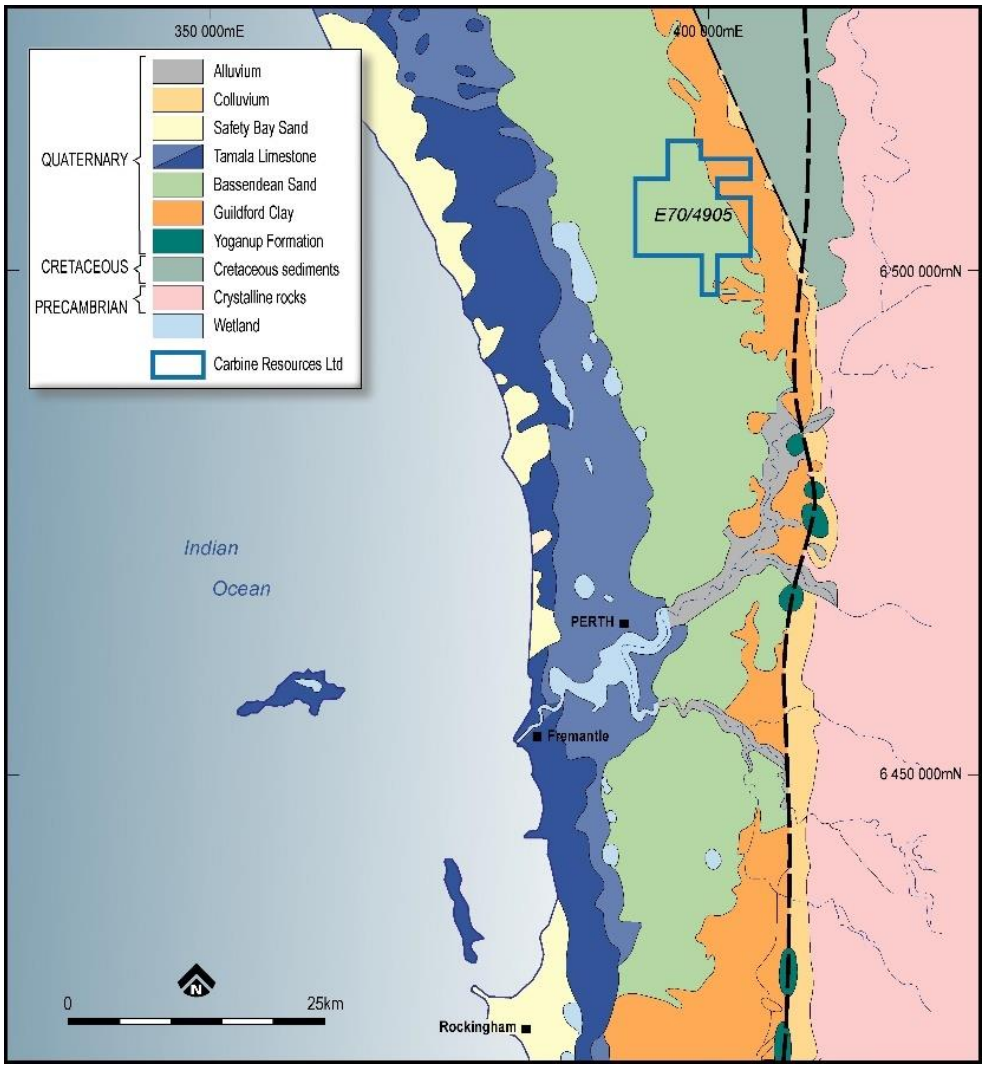

Figure 1: Project Geological Setting

Previous Exploration Undertaken

The region surrounding the Project has been explored for both silica sand and mineral sands.

Recent Exploration Activities

A total of 82 vacuum drill holes (78 drill holes to a depth of 10m and 4 drill holes to depths between 15m and 20m) were drilled at nominal 200m spacing on six drill lines along existing tracks (as shown in Figure 3 below) within the tenement area. This drilling was completed by Australian United Silica Corporation Pty Ltd (**Ausco**). Previously the area within the tenement has been drilled for water and this drilling resulted in 28 water bores.

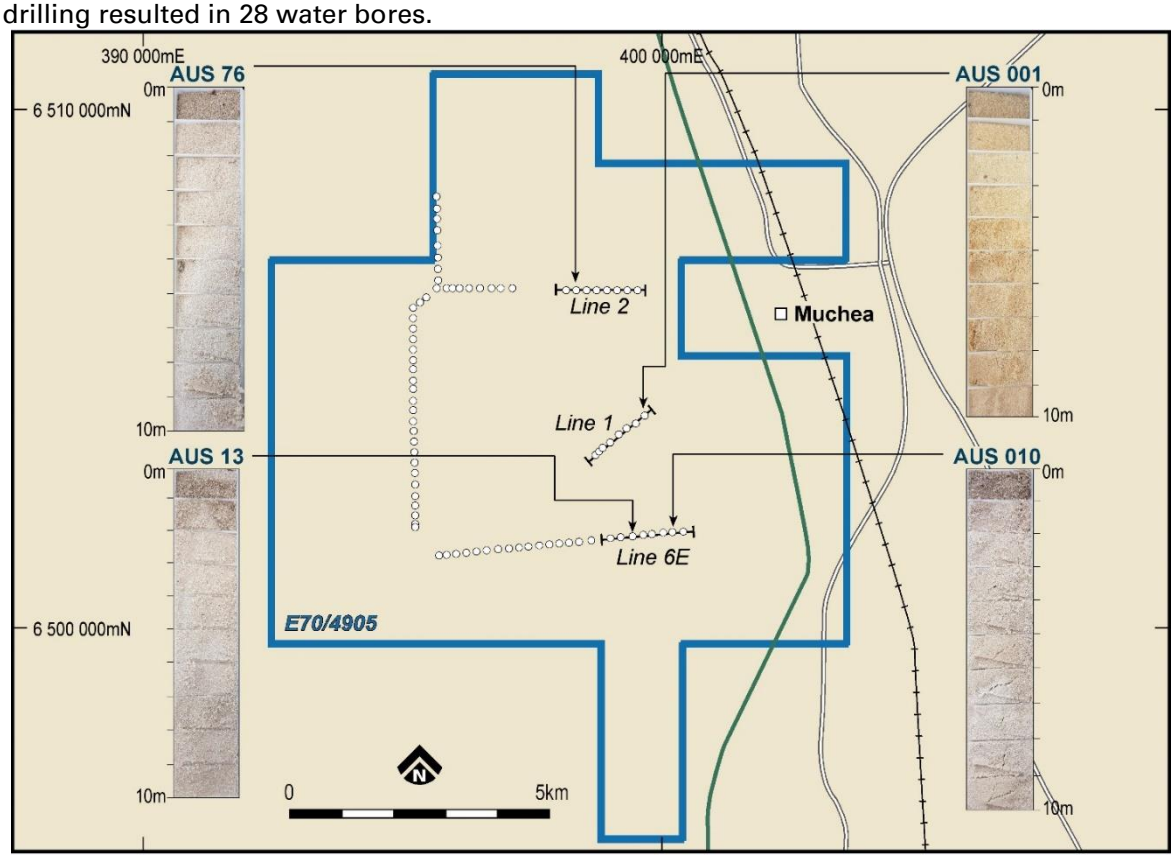

Figure 2: Drill Collar Plan

The drilling encountered unconsolidated sand and was terminated either at designated depth or the water table. For the vacuum drilling, 1 metre downhole samples were collected at each drilling location. Vacuum drill samples are collected in a plastic tub and homogenised, rotary split into one larger sample bag (~3kg) and 2 smaller 250g subsamples. One of the subsamples is prepared for laboratory and the other is retained for repeat analysis and QA/QC purposes. The bulk sample is retained for later metallurgical test work. The sample splitter and cyclone are cleaned regularly to prevent sample contamination.

Drilled samples for each 1 m interval were also placed into chip trays which are then photographed to provide a permanent record of the downhole lithology. Detailed visual assessment and logging of sample recovery are provided in the drill logs. The first metre of all the drill holes is mainly the humus layer and, as such, not assayed.

The sample assays were carried out to determine the major and trace elements such as SiO_2 (%), Fe_2O_3 (%), Al_2O_3 (%), CaO (%) MgO (%), K_2O (%), TiO_2 (%) and LOI (%). Major and trace elements in exception to SiO_2 were analysed using a four-acid digest followed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry (ICP-OES) analysis. Loss on Ignition (LOI) at 10000C was analysed by Thermal Gravimetric Analyser. SiO2 was back calculated by subtracting all ICP major and trace elements plus LOI from 100%.

Significant results from drilling include:

- Hole Aus011: 9m at 99.8% SiO_2 from 1m
- Hole Aus013: 9m at 99.8% SiO_2 from 1m
- Hole Aus014: 9m at 99.9% SiO_2 from 1m
- Hole Aus044: 19m at 99.7% SiO_2 from 1m
- Hole Aus068: 15m at 99.6%SiO_2 from 5m

Exploration Target

Lynn Widenbar and Associates were commissioned to investigate the potential size of high grade white sand resources located within the tenement boundaries of E70/4905, below 1 metre from the surface and at least 2 metres above the water table.

A total of 82 drill holes were completed at the Muchea West project for a total of 845m, drilled between 7th October and 15th October 2019. The drilling was performed using a track-mounted Aircore (Vacuum) drill rig operated by Strataprobe WA Pty Ltd.

Drill holes were located using a handheld GPS and prior to the commencement of drilling, the drill lines were searched for metal objects buried underground using ground GPR, magnetic surveys and a high penetration metal detector.

Logging data from an additional 28 water bores (for a total of 1,315m) was also used as an aid to interpretation. No grade data from the water bores was used.

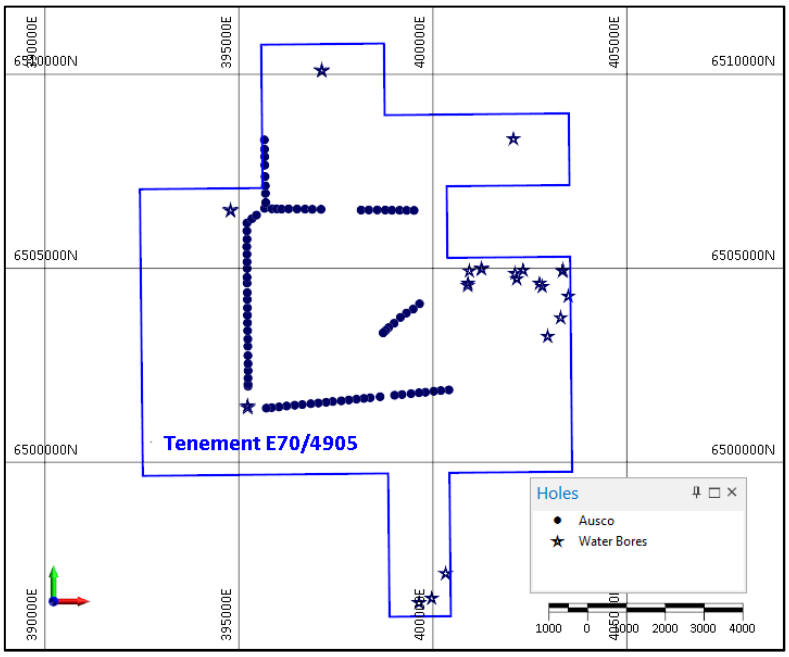

Figure Error! No text of specified style in document.: ***Drill Hole and Water bore Locations***

The samples were analysed by Intertek Genalysis Laboratories.

The sample assays were carried out to determine the major and trace elements including SiO_2 (%), Fe_2O_3 (%), Al_2O_3 (%), CaO (%) MgO (%), K_2O (%), TiO_2 (%) and LOI (%). Major and trace elements in exception to SiO_2 were analysed using a four-acid digest followed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry (ICP-OES) analysis. Loss on Ignition (LOI) at 1000^0C was analysed by Thermal Gravimetric Analyser. SiO_2 was back calculated by subtracting all ICP major and trace elements plus LOI from 100%.

Collar, assay and lithological logging data was provided as Excel spreadsheets and imported into Micromine 2021 for further processing.

A Micromine format drill hole database was created and the data validated and checked, including:

- Checks for duplicate collars
- Checks for missing samples
- Checks for down hole from-to interval consistency
- Checks for overlapping samples
- Checks for samples beyond hole depth

The base of white to off-white silica sand (generally > 99.6% SiO_2) was digitised along section lines and in the region around water bores where that information was available in the down hole logging. A Data Terrain Model (**DTM**) surface was then generated honouring the known data points.

Contours are illustrated below (1m interval, as height above mean sea level).

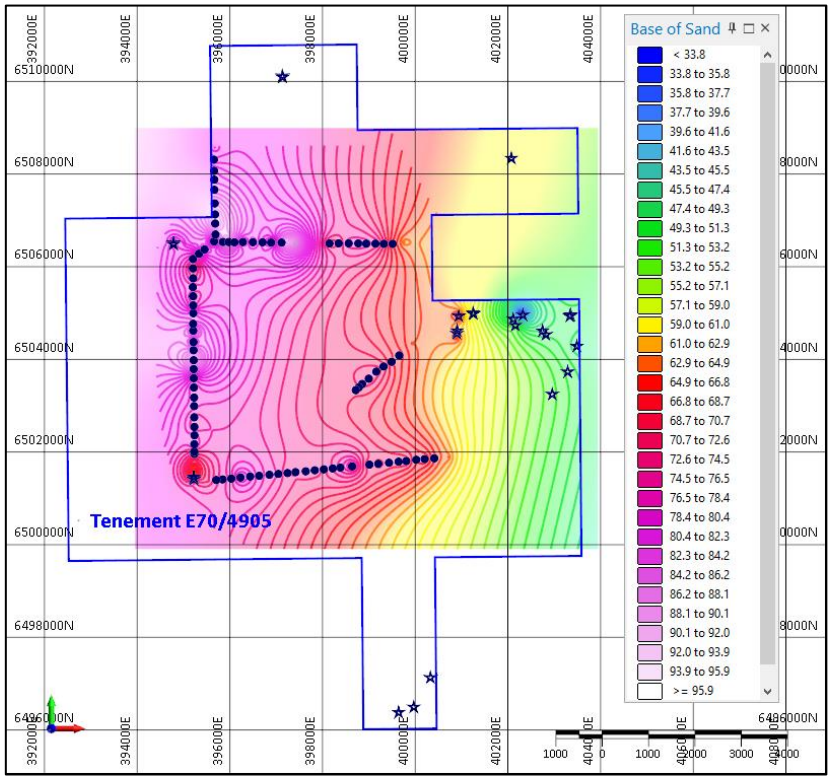

Figure 5: Base of Silica Sand Contours

The top of silica sand was taken as being 1m below the topography surface. This top 1 metre material is excluded from calculations of volumes and tonnages. This material would be set aside for rehabilitation purposes in a mining scenario. Contours are at 1m interval, as height above mean sea level.

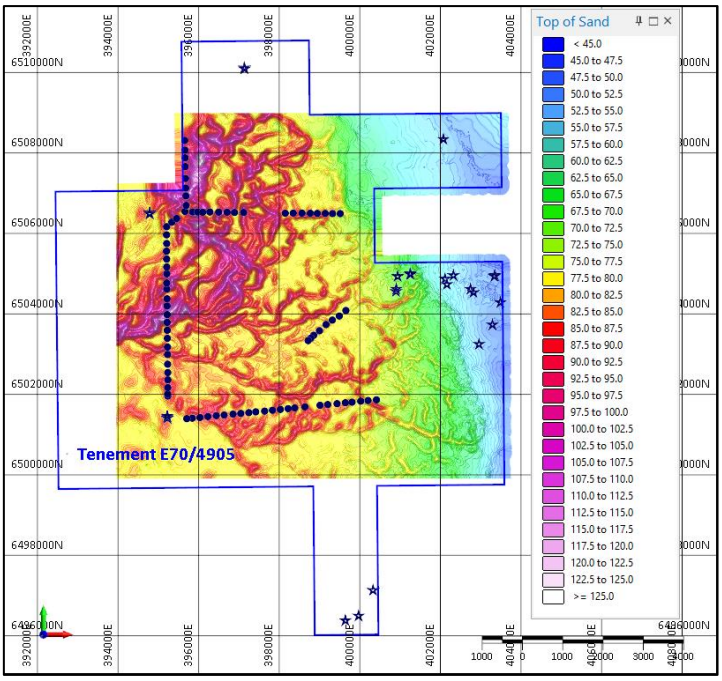

Figure 6: Top of Silica Sand Contours

A water table surface was generated using information from MS Groundwater Management report (February 2020). Contours are at 1m interval, as height above mean sea level.

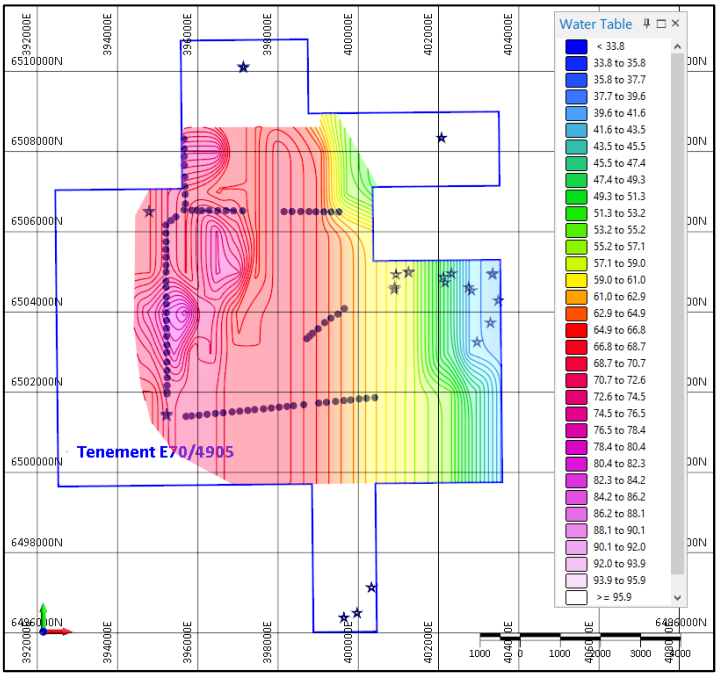

Figure 7: Water Table Contours

The gridded and contoured surfaces representing the top and base of silica sand have been used to generate volumes within specified target areas. The water table contours were used to ensure that the base of sand remained 3 metres above the water table in the estimation of sand volumes.

A bulk density of 1.54 t/m3 has been used (based on information from publicly available documents released by VRX, which carried out a BFS study on its silica sand deposits which lie immediately to the north of Ausco's tenements and are considered comparable to this location) to generate tonnage estimates from these volumes.

Volumes and tonnages have been calculated for Target Areas (Figure 8).

Grade estimates for SiO2% have been calculated using a 10m x 10m Gridded Seam Model methodology (using the minimum curvature gridding method in Micromine 2021 Software).

A summary is shown below.

Table 1: Widenbar Target Area Tonnages

TARGET AREA	VOLUME (Mm^3)	TONNES (Mt)	DENSITY (t/m^3)	SiO_2 (%)
Greater Mercury	241	371	1.54	99.80
Muchea North	4	6	1.54	99.66
Muchea South	43	66	1.54	99.96
TOTAL	287	443	1.54	99.82

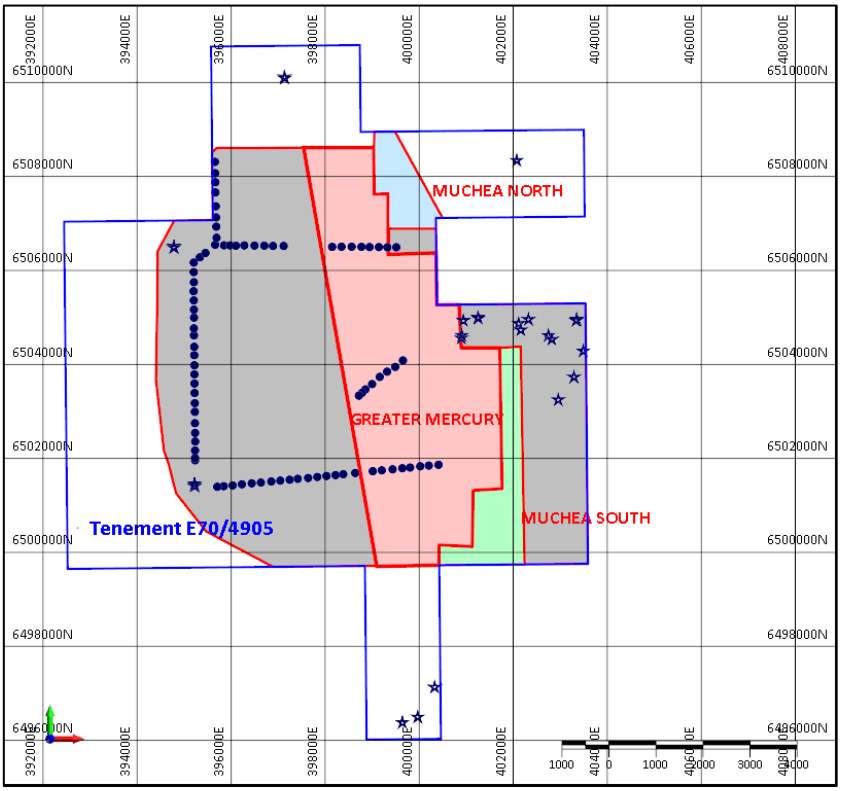

Figure 8: Silica Sand Target Areas

The limited exploration completed to date outlines the extent of the white sand portion of the Upper Bassendean Sands dune system and results in an Exploration Target as outlined below:

- Eastern Area 400 to 480 Mt of Silica Sand at an average grade of 99.7 to 99.9 % SiO_2
- Western Area 400 to 550 Mt of Silica Sand at an average grade of 99.6 to 99.8 % SiO_2

High Grade Silica Sand Deportment Study

Independent Metallurgical Operations Pty Ltd (**IMO**) was requested to conduct a study on the iron deportment in a series of Silica Sand samples (the full report is available on the Carbine website, www.carbineresources.com.au).

30 samples from the 2019 drilling were collected from storage and delivered to IMO to undertake microscopic analysis to determine the nature and form of deleterious materials included in the Muchea West white sand (predominantly Fe_2O_3 and Al_2O_3) and test work to determine if the quantity of deleterious material could be readily reduced.

Eight samples were chosen due to the high assayed content of deleterious elements specifically for microscopic determination of the form and nature of these elements in the sample. Iron occurring as coatings on the sand grains or as inclusions may prove difficult to remove in processing whereas iron in aluminosilicate clays is more readily removed.

The master composite was generated by:

- Riffle splitting individual drill holes samples into two individual sub samples; and
- One sub sample was added to the master composite, while one sub sample was retained for further test work.

The samples used in the master composite were:

- AUS 001 (2-3M)
- AUS 004 (5-6M & 6-7M)
- AUS 006 (7-8M & 8-9M)
- AUS 008 (3-4M & 4-5M)
- AUS 009 (3-4M & 4-5M)
- AUS 011 (3-4M & 4-5M)
- AUS 013 (1-2M & 2-3M)
- AUS 016 (5-6M & 6-7M)
- AUS 076 (9-10M)
- AUS 078 (1-2M, & 2-3M)
- AUS 080 (7-8M & 8-9M)
- AUS 082 (3-4M & 4-5M)

The samples used in the variability composites were:

- AUS 042 (4-5M)
- AUS 046 (7-8M & 8-9M)
- AUS 059 (5-6M & 6-7M)

- AUS 061 (7-8M & 8-9M)

One supplied sample was omitted from the master composite, AUS 001 (1-2M).

The master composite was sub sampled for the following:

- Head assay;
- Size by size assay. Screening at 500, 250, 150, 125, 106, 75 and 45µm, with an assay on the products;
- Attritioning at two input energies;
- Size by size assay on the attritioning products. Conditions as per head size by size assay; and
- Optical microscopy analysis on feed and 60 minute product.

The variability composites were subsampled for the following:

- Head assay; and
- Optical microscopy analysis.

Four variability composites were produced for the study. Composites 1 and 2 had high Al_2O_3, TiO_2, Fe_2O_3 and high loss on ignition (LOI). Composites 3 and 4 had high Fe_2O_3.

Microscopic analysis indicated that high Al2O3 levels were due to the presence of aluminosilicate clays, high TiO_2 was due to the presence of minor ilmenite grains and high Fe_2O_3 levels were due to aluminosilicate clays and as gangue mineral coatings on sand grains.

A composite sample was created by combining the remaining 22 drill samples and mixing to ensure homogeneity. The samples were selected from varying traverses and diversely spaced holes and depths from drillholes in the eastern section of the tenement, E70/4905, to produce a composite representing the area uniformly. The samples were selected to represent the grade range for the eastern half of the tenement, between 99.6% and 99.8% SiO_2.

The master composite underwent wet attritioning at two different input energies. The attritioning was conducted utilising a standard Denver attritioning cell, under the following conditions:

- 75% solids (2kg solids, 0.66L water)
- 1,300 RPM
- 30 minute and 60 minute attritioning times
- Size by size assays of the two products

This process produced significant reductions in the deleterious elements in a final screened product. By rejecting the -150µm portion of the attritioned sample the resultant affect was:

- After 30 minute attrition time,
  - 15.1% mass rejected
  - 62.3% Fe_2O_3 rejected
  - 46.5% Al_2O_3 rejected

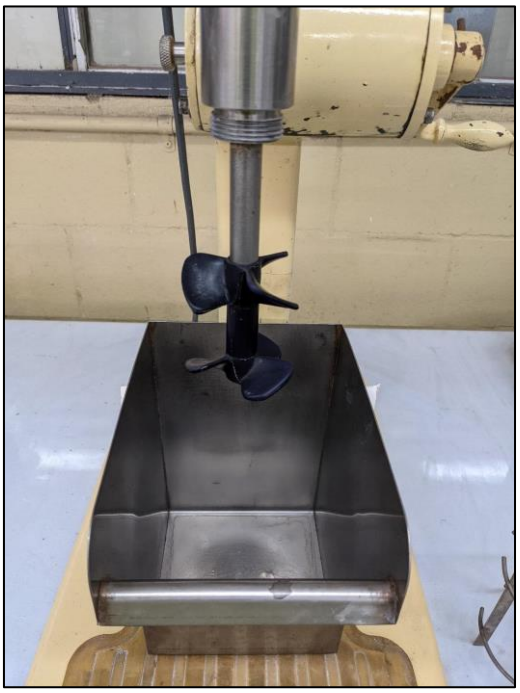

Figure 9: Denver Attrition Cell

  - 53.9% TiO_2 rejected
  - 15.5% SiO_2 rejected

- After 60 minute attrition time,
  - 15.9% mass rejected
  - 65.5% Fe_2O_3 rejected
  - 41.1% Al_2O_3 rejected
  - 53.2% TiO_2 rejected
  - 15.8% SiO_2 rejected

The final product had an improved SiO_2 grade in excess of 99.9% and a recovery of approximately 85%.

The optical mineralogy assessment confirmed the presence of low levels of iron bearing clays in the master composite, which were readily removed under the attritioning conditions used, resulting in significant removal of the coatings, as was observed in the +53µm and +150µm product from the 60 minute attrition.

A wet process was used for the purpose of determining the nature and deportment of the iron.

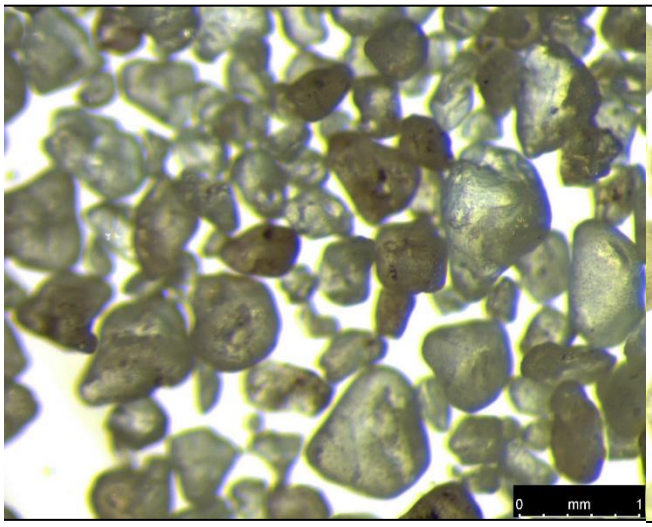

Figure 10: Master Composite

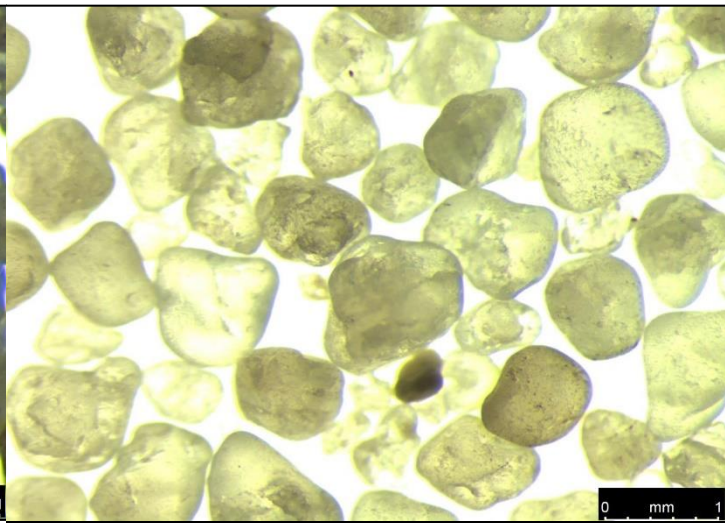

Figure 11: 60 Minute Attrition Product

Proposed Exploration

An exploration programme has been developed to progress the Muchea West Silica Sand Project. It includes 8,500m of drilling with subsequent assays, Drone magnetometer clearance surveys, Lidar surveys, metallurgical testwork, environmental studies, resource estimations and scoping and feasibility studies with the expectation that Carbine will be in a position to apply for a Mining Licence programme.

Carbine will commence drilling at Muchea West as soon as permission is granted by all relevant parties and a survey has been completed to clear the drilling locations. A Programme of Work (**PoW**) has been submitted to the DMIRS.

The initial drill programme includes 250 holes but the two year exploration budget has an allowance for 8,500m. The average hole depth is expected to be 10m. An initial resource estimate is expected from the results of this Phase one drilling and the samples will provide the material required to complete a

Scoping Study that should produce a flowsheet for the processing of the resources and an indication of the potential end products that will allow Carbine to engage in offtake discussions.

Preparation will commence for the studies required to complete an expanded resource drilling programme to progress on from the Phase one drilling. The completion of this drilling will lead into a Definitive Feasibility Study that will include Resource/Reserve estimations, final processing options, transport and infrastructure studies and the production of bulk samples for potential client engagements.

At the completion of this process Carbine expects to be in a position to apply for a Mining Licence and Mining Approvals.

Summary

The results of the two commissioned reports indicate that E70/4905 has the potential to host a substantial, high grade, low impurity silica sand deposit. The final processed grade is significant as it meets all the specifications for flat and container glass markets and for foundry glass the top end of silica consumption and the upper price ranges for product.

This announcement is approved for release by the Board of the Company.

For further information, please contact:

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COMPETENT PERSON'S STATEMENT

The information in this report that relates to historical exploration results were initially reported by the Company to ASX on 1 April 2021 and again on 22 July 2021. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The information in this report that relates to technical assessment of the mineral target is based on, and fairly represents, information and supporting documentation prepared by Mr Lynn Widenbar BSc(Hons), MSc, DIC, a Competent Person who is a member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Widenbar is an employee of Widenbar and Associates Pty Ltd. Mr Widenbar has sufficient experience that is relevant to the technical assessment of the mineral assets under consideration, the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

Mr Widenbar consents to the inclusion of the matters based on his information in the form and context in which it appears in this Presentation and has not withdrawn his consent before lodgement of this report.

The information in this report that relates to technical assessment of the iron deportment and wet attritioning work is based on, and fairly represents, information and supporting documentation prepared by Independent Metallurgical Operations Ltd (**IMO**). IMO consents to the inclusion of the matters based on this information in the form and context in which it appears in this Presentation and has not withdrawn their consent before lodgement of this report.

CARBINE RESOURCES
LIMITED

Appendix 1: Drilling Information

JORC Code, 2012 Table 1. Muchea West Silica Sand Project
Section 1 Sampling Techniques and Data

Criteria	JORC Code exploration	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 downhole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. • Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. • 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.	• Aircore Vacuum drilling and sampling was completed in October 2019. • All sand samples were collected via a cyclone in a plastic tub and homogenised, rotary split into a larger sample bag (~3kg) and 2 smaller 250 subsamples. Sampling was carried out 1 m intervals. • One of the subsamples is prepared for laboratory and the other is retained for repeat analysis and QA/QC purposes. The bulk sample is retained for later metallurgical test work. Drilled samples for each 1 m interval were also placed into chip trays. • The first meter of all the drill holes is mainly the humus layer and not considered for lab analysis. • The samples were analysed by Intertek Genalysis Laboratories. • Major and trace elements in exception to SiO_2 were analysed using a four-acid digest followed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry (ICP-OES) analysis.
Drilling techniques	• Drill type (e.g. core, reverse circulation, openhole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, facesampling bit or other type, whether core is oriented and if so, by what method, etc).	• A total of 82 air-core drill holes were drilled to an average depth of 10m, with the deepest hole ending at 20m. • Aircore Vacuum drilling was undertaken using a track mounted drill rig. All holes were drilled vertically.
Drill sample recovery	• Method of recording and assessing core and chip sample recoveries and results assessed. • Measures taken to maximise sample recovery and ensure representative nature of the samples.	• Each sample bag was weighed to determine the indirect record of sample recovery. • All the samples were visually checked for recovery, moisture and contamination.

	• 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.	• The sample splitter and cyclone are cleaned regularly to prevent sample contamination.
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. • Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. • The total length and percentage of the relevant intersections logged	• All the holes were logged by a senior geologist. Sand colour, roundness, sorting and composition was recorded. • Logging was qualitative in nature. • All logged results were plotted in a plotting software (Strater). All the Chip tray samples for each hole were photographed.
Subsampling techniques and sample preparation	• If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • Quality control procedures adopted for all subsampling stages to maximise representivity of samples. • 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. • Whether sample sizes are appropriate to the grain size of the material being sampled.	• Two sub-samples weighing ~250 g were collected using rotary split. The remainder was retained for metallurgical test work. • Subsample collected from every 2m were composited and submitted to Intertek Genalysis Laboratories in Perth for drying and pulverization in a zircon bowl and disk pulveriser. • QC procedures involved the use of certified and non-certified reference materials and field duplicates. The field duplicates have accurately reflected the original assay. • Sample sizes are considered appropriate to correctly represent the bulk tonnage mineralisation based on the style of mineralisation, the thickness and consistency of the intersections, the sampling methodology and assay value ranges for silica sand.
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. • For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. • Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks)	• 2m composite samples were submitted to the Intertek Genalysis Laboratory in Perth. The assay method for multi-element analysis consisted of a four-acid digest including hydrofluoric, nitric, perchloric and hydrochloric acids in Teflon beakers, with inductively coupled plasma (ICP)-optical (atomic) emission spectrometry finish. Silica is reported by difference. • Laboratory QAQC includes the use of internal standards using certified reference material, laboratory duplicates and

	and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	pulp repeats. The field duplicates have accurately reflected the original assay. Certified standards have generally reported within acceptable limits. A full analysis of all the quality control data has been undertaken. • No geophysical tools were utilised for the exploration.
Location of data Points	• 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. • Specification of the grid system used. • Quality and adequacy of topographic control	• The position of the drill holes were located using a GPS in MGA coordinates with the expected relative accuracy. Down hole surveys have not been carried out as drill holes are less than 20 m in depth and drilled vertically through the predominantly flat lying sand deposits. • The collars have been located in UTM, MGA94, Zone 50K co-ordinates. • The topographic surface was based on LiDAR digital elevation model obtained from the DWER, Western Australia.
Data spacing and distribution	• Data spacing for reporting of Exploration Results. • 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. • Whether sample compositing has been applied	• The drilling was spread evenly across the project area. A total of 82 drill holes were drilled at nominal 200m spacing on six drill lines along existing tracks. • The adopted spacing for the drilling investigation was sufficient based on the geological continuity of the sand formation being tested, and sufficient to be applied for resource estimation • All samples were taken at even 1 m intervals, and compositing of every 2m was required for assays.
Orientation of data in relation to geological structure	• Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. • If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	• The vertical air-core drilling program has systematically covered the initial area of interest within the tenement, It only covers some section of an extensive dune system. • The orientation of the drilling (vertical) is approximately perpendicular to the sub-horizontal mineralisation and is unlikely to have introduced any significant sampling bias. • No sampling bias has been identified in the data.

Sample security	• The measures taken to ensure sample security	• All samples have been bagged and removed from site and are under the care of the senior geologist and stored at a secure Canning vale storage unit.
Audits or reviews	• The results of any audits or reviews of sampling techniques and data.	• There has been no audit or review of the drilling, sampling or analysis at this time.

Section 2: Reporting of Exploration Results

Criteria	JORC Code exploration	Commentary
Mineral tenement and land tenure status	• Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. • The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	• The drilling was completed on E70/4905, a granted Exploration Licence. 100% owned by Australian United Silica Corporation Pty Ltd. The tenement area falls within the Whadjuk People claim (managed by SWALSC). • No impediments on a licence to operate at time of reporting.
Exploration done by other parties	• Acknowledgment and appraisal of exploration by other parties.	• The region surrounding the Project has been explored for both silica sand and mineral sands. Between 1986 and 2005 ACI Operations Pty Ltd (ACI) owned and operated a silica sands mine within the tenure producing 7,000 to 10,000t of silica for container glass applications.
Geology	• Deposit type, geological setting and style of mineralisation.	• The tenement is underlain by the Bassendean Sand, which extends over large areas of the Swan Coastal Plains of the Perth Basin from about 23 km north of Jurien, to about 15km southwest of Busselton. • The Bassendean Sand is considered to have a maximum thickness of about 45 m, and the unit is found as a strip parallel to the coast, having a width of about 10-20 km, and its western edge about 5-10km inland. • The Bassendean Sands is typically clean, well-rounded and well sorted. At depth, it is commonly brown to dark brown with high iron contents, however closer to the surface the sand is cream/white. The physical, chemical and

		mineralogical characteristics of the Bassendean Sands can vary considerably, resulting in variation in the quality of the sand regionally as well as locally. In general, the Bassendean Sands is covered with very little or no overburden.
Drill hole information	• A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes: - -easting and northing of the drillhole collar - elevation or RL (Reduced Level – elevation above sea level in metres) of the drillhole collar - dip and azimuth of the hole - downhole length and interception depth - hole length. • If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case	• All exploration results for drilling completed during October 2019 are reported in this release. The drillhole locations are presented in Figure 3.
Data aggregation methods	• In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. • 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 assumptions used for any reporting of metal equivalent values should be clearly stated.	• Weighted average grades were calculated at a minimum of 98% SiO2 cut-off grade • Grade range estimates for SiO_2% have been calculated using a 10m x 10m Gridded Seam Model methodology (using the minimum curvature gridding method in Micromine 2021 Software). • Not applicable as a mineral resource is not being reported. • No metal equivalents have been reported.
Relationship between mineralisation widths and intercept lengths	• These relationships are particularly important in the reporting of Exploration Results. • If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported. • If it is not known and only the downhole lengths are reported, there should be a clear statement to this effect (e.g. ‘downhole length, true width not known’).	• All drill holes are vertical and intersect the tabular, flat lying mineralisation orthogonally, and represent close to true thickness.

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 drillhole collar locations and appropriate sectional views.	• Relevant diagrams have been included in this report.
Balance 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	• All assay results have been provided in Appendix 2.
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.	• Groundwater was intersected in some holes. Holes were terminated once encounter water table. • Groundwater table anticipated to be within 9 and 11 m bgl in this area since the intercepted groundwater table at AUS008 is 9 m bgl. • Particle size distribution was carried out on ten representative samples. Tests were undertaken Jinning Testing & Inspection, Perth, WA.
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). • Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive	• Planned to conduct further drilling in potential target areas.

Appendix 2: Drill-hole information

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS001	399655.0	6504085.0	71.01	10	85mm	0	-90	1	3	2	99.2	0.1601	0.140	0.1137	0.0648	0.0062	0.0097	0.0665	0.24
AUS001	399655.0	6504085.0	71.01	10	85mm	0	-90	3	5	2	99.6	0.0859	0.039	0.0889	0.0185	0.0053	0.0067	0.0586	0.12
AUS001	399655.0	6504085.0	71.01	10	85mm	0	-90	5	7	2	99.6	0.0532	0.040	0.0484	0.0208	0.0045	0.0068	0.0620	0.12
AUS001	399655.0	6504085.0	71.01	10	85mm	0	-90	7	9	2	99.8	0.0237	0.013	0.0332	0.0063	0.0040	0.0056	0.0685	0.08
AUS001	399655.0	6504085.0	71.01	10	85mm	0	-90	9	10	1	99.7	0.0379	N/A	0.0636	0.0050	N/A	0.0044	0.0992	0.09
AUS001	399655.0	6504085.0	71.01	10	85mm	0	-90	1	10	9	99.6	0.0760	0.052	0.0702	0.0251	0.0044	0.0069	0.0678	0.13
AUS002	399491.0	6503948.0	70.22	10	85mm	0	-90	1	3	2	99.7	0.0292	N/A	0.0252	0.0047	N/A	0.0054	0.0508	0.16
AUS002	399491.0	6503948.0	70.22	10	85mm	0	-90	3	5	2	99.7	0.0180	N/A	0.0174	0.0042	N/A	0.0052	0.0571	0.14
AUS002	399491.0	6503948.0	70.22	10	85mm	0	-90	5	7	2	99.8	0.0173	N/A	0.0189	0.0048	N/A	0.0051	0.0492	0.11
AUS002	399491.0	6503948.0	70.22	10	85mm	0	-90	7	9	2	99.8	0.0174	N/A	0.0305	N/A	N/A	0.0046	0.0630	0.06
AUS002	399491.0	6503948.0	70.22	10	85mm	0	-90	9	10	1	99.8	0.0219	N/A	0.0344	0.0046	N/A	0.0044	0.0723	0.09
AUS002	399491.0	6503948.0	70.22	10	85mm	0	-90	1	10	9	99.8	0.0206	N/A	0.0243	0.0036	N/A	0.0050	0.0569	0.11
AUS003	399318.0	6503846.0	76.84	10	85mm	0	-90	1	3	2	99.6	0.0362	N/A	0.0348	N/A	N/A	N/A	0.0449	0.22
AUS003	399318.0	6503846.0	76.84	10	85mm	0	-90	3	5	2	99.8	0.0210	N/A	0.0252	N/A	N/A	N/A	0.0443	0.14
AUS003	399318.0	6503846.0	76.84	10	85mm	0	-90	5	7	2	99.8	0.0202	N/A	0.0268	N/A	N/A	N/A	0.0454	0.11
AUS003	399318.0	6503846.0	76.84	10	85mm	0	-90	7	9	2	97.8	0.4860	N/A	0.0452	0.0351	0.0049	0.0069	0.1161	1.47
AUS003	399318.0	6503846.0	76.84	10	85mm	0	-90	1	9	8	99.3	0.1409	N/A	0.0330	0.0088	0.0012	0.0017	0.0627	0.49
AUS004	399161.0	6503735.0	79.12	10	85mm	0	-90	1	3	2	99.7	0.0329	N/A	0.0230	N/A	N/A	N/A	0.0350	0.15
AUS004	399161.0	6503735.0	79.12	10	85mm	0	-90	3	5	2	99.8	0.0211	N/A	0.0157	N/A	N/A	N/A	0.0304	0.08
AUS004	399161.0	6503735.0	79.12	10	85mm	0	-90	5	7	2	99.8	0.0180	N/A	0.0181	N/A	N/A	N/A	0.0442	0.08

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS004	399161.0	6503735.0	79.12	10	85mm	0	-90	7	9	2	99.8	0.0167	N/A	0.0262	N/A	0.0073	N/A	0.0491	0.08
AUS004	399161.0	6503735.0	79.12	10	85mm	0	-90	9	10	1	99.8	0.0165	N/A	0.0204	N/A	N/A	0.0044	0.0325	0.06
AUS004	399161.0	6503735.0	79.12	10	85mm	0	-90	1	10	9	99.8	0.0215	N/A	0.0207	0.0000	0.0016	0.0005	0.0389	0.09
AUS005	398999.0	6503582.0	78.11	10	85mm	0	-90	1	3	2	99.8	0.0315	N/A	0.0253	N/A	N/A	0.0043	0.0339	0.07
AUS005	398999.0	6503582.0	78.11	10	85mm	0	-90	3	5	2	99.8	0.0250	N/A	0.0224	N/A	N/A	0.0042	0.0291	0.10
AUS005	398999.0	6503582.0	78.11	10	85mm	0	-90	5	7	2	99.8	0.0202	N/A	0.0170	N/A	N/A	N/A	0.0349	0.09
AUS005	398999.0	6503582.0	78.11	10	85mm	0	-90	7	9	2	99.8	0.0196	N/A	0.0206	N/A	N/A	N/A	0.0369	0.07
AUS005	398999.0	6503582.0	78.11	10	85mm	0	-90	9	10	1	99.5	0.0604	N/A	0.0309	N/A	0.0046	N/A	0.1099	0.31
AUS005	398999.0	6503582.0	78.11	10	85mm	0	-90	1	10	9	99.8	0.0281	N/A	0.0224	0.0000	0.0005	0.0019	0.0422	0.11
AUS006	398856.0	6503469.0	73.21	10	85mm	0	-90	1	3	2	99.7	0.0418	N/A	0.0691	N/A	N/A	N/A	0.0342	0.14
AUS006	398856.0	6503469.0	73.21	10	85mm	0	-90	3	5	2	99.8	0.0189	N/A	0.0139	N/A	N/A	N/A	0.0345	0.11
AUS006	398856.0	6503469.0	73.21	10	85mm	0	-90	5	7	2	99.8	0.0208	N/A	0.0189	0.0043	N/A	N/A	0.0445	0.09
AUS006	398856.0	6503469.0	73.21	10	85mm	0	-90	7	9	2	99.8	0.0169	N/A	0.0179	N/A	N/A	N/A	0.0392	0.11
AUS006	398856.0	6503469.0	73.21	10	85mm	0	-90	1	9	8	99.8	0.0246	N/A	0.0300	0.0011	N/A	N/A	0.0381	0.11
AUS007	398782.8	6503394.4	75.18	10	85mm	0	-90	1	3	2	99.7	0.0692	N/A	0.0389	0.0043	N/A	N/A	0.0394	0.14
AUS007	398782.8	6503394.4	75.18	10	85mm	0	-90	3	5	2	99.8	0.0503	N/A	0.0263	N/A	N/A	N/A	0.0359	0.09
AUS007	398782.8	6503394.4	75.18	10	85mm	0	-90	5	7	2	99.1	0.0365	N/A	0.0266	N/A	N/A	N/A	0.0448	0.77
AUS007	398782.8	6503394.4	75.18	10	85mm	0	-90	7	9	2	99.8	0.0498	N/A	0.0439	N/A	N/A	N/A	0.0360	0.10
AUS007	398782.8	6503394.4	75.18	10	85mm	0	-90	9	10	1	99.7	0.0459	N/A	0.0367	0.0053	N/A	N/A	0.0998	0.09
AUS007	398782.8	6503394.4	75.18	10	85mm	0	-90	1	10	9	99.6	0.0508	N/A	0.0342	0.0015	N/A	N/A	0.0458	0.25
AUS008	398718.1	6503336.3	76.09	9	85mm	0	-90	1	3	2	99.8	0.0307	N/A	0.0153	N/A	N/A	N/A	0.0484	0.13

CARBINE RESOURCES
LIMITED

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS008	398718.1	6503336.3	76.09	9	85mm	0	-90	3	5	2	99.7	0.0208	N/A	0.0128	N/A	N/A	N/A	0.0484	0.15
AUS008	398718.1	6503336.3	76.09	9	85mm	0	-90	5	7	2	99.8	0.0253	N/A	0.0166	0.0041	N/A	N/A	0.0390	0.13
AUS008	398718.1	6503336.3	76.09	9	85mm	0	-90	7	9	2	99.7	0.0438	0.019	0.0428	0.0082	N/A	0.0059	0.0537	0.12
AUS008	398718.1	6503336.3	76.09	9	85mm	0	-90	1	9	8	99.8	0.0302	0.005	0.0219	0.0031	N/A	0.0015	0.0474	0.13
AUS009	400412.0	6501865.0	68.78	8	85mm	0	-90	1	3	2	99.6	0.0166	N/A	0.0071	N/A	0.0043	N/A	0.0356	0.30
AUS009	400412.0	6501865.0	68.78	8	85mm	0	-90	3	5	2	99.8	0.0156	N/A	0.0079	N/A	0.0044	N/A	0.0293	0.15
AUS009	400412.0	6501865.0	68.78	8	85mm	0	-90	5	7	2	99.8	0.0147	N/A	0.0089	N/A	N/A	N/A	0.0271	0.12
AUS009	400412.0	6501865.0	68.78	8	85mm	0	-90	7	8	1	99.7	0.0175	N/A	0.0123	N/A	N/A	N/A	0.0358	0.18
AUS009	400412.0	6501865.0	68.78	8	85mm	0	-90	1	8	7	99.7	0.0159	N/A	0.0086	0.0000	0.0025	N/A	0.0314	0.19
AUS010	400204.0	6501848.0	73.52	10	85mm	0	-90	1	3	2	99.8	0.0178	N/A	0.0092	N/A	N/A	N/A	0.0322	0.11
AUS010	400204.0	6501848.0	73.52	10	85mm	0	-90	3	5	2	99.8	0.0169	N/A	0.0139	N/A	N/A	N/A	0.0356	0.08
AUS010	400204.0	6501848.0	73.52	10	85mm	0	-90	5	7	2	99.8	0.0162	N/A	0.0134	N/A	N/A	N/A	0.0371	0.11
AUS010	400204.0	6501848.0	73.52	10	85mm	0	-90	7	9	2	99.9	0.0155	N/A	0.0111	N/A	N/A	N/A	0.0327	0.04
AUS010	400204.0	6501848.0	73.52	10	85mm	0	-90	9	10	1	99.9	0.0149	N/A	0.0113	N/A	N/A	N/A	0.0295	0.07
AUS010	400204.0	6501848.0	73.52	10	85mm	0	-90	1	10	9	99.8	0.0164	N/A	0.0118	N/A	N/A	N/A	0.0339	0.08
AUS011	400023.0	6501832.0	74.76	10	85mm	0	-90	1	3	2	99.8	0.0189	N/A	0.0112	N/A	N/A	N/A	0.0345	0.16
AUS011	400023.0	6501832.0	74.76	10	85mm	0	-90	3	5	2	99.9	0.0163	N/A	0.0095	N/A	N/A	0.0041	0.0357	0.04
AUS011	400023.0	6501832.0	74.76	10	85mm	0	-90	5	7	2	99.9	0.0153	N/A	0.0111	N/A	N/A	N/A	0.0407	X
AUS011	400023.0	6501832.0	74.76	10	85mm	0	-90	7	9	2	99.9	0.0164	N/A	0.0111	N/A	N/A	N/A	0.0417	0.06
AUS011	400023.0	6501832.0	74.76	10	85mm	0	-90	9	10	1	99.8	0.0187	N/A	0.0234	N/A	N/A	N/A	0.0787	0.05
AUS011	400023.0	6501832.0	74.76	10	85mm	0	-90	1	10	9	99.9	0.0169	N/A	0.0121	0.0000	0.0000	0.0009	0.0427	0.06

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS012	399807.0	6501806.0	74.73	10	85mm	0	-90	1	3	2	99.7	0.0190	N/A	0.0092	N/A	0.0042	N/A	0.0323	0.24
AUS012	399807.0	6501806.0	74.73	10	85mm	0	-90	3	5	2	99.8	0.0161	N/A	0.0085	N/A	N/A	N/A	0.0365	0.14
AUS012	399807.0	6501806.0	74.73	10	85mm	0	-90	5	7	2	99.8	0.0161	N/A	0.0103	N/A	N/A	N/A	0.0340	0.10
AUS012	399807.0	6501806.0	74.73	10	85mm	0	-90	7	9	2	99.9	0.0159	N/A	0.0105	N/A	N/A	N/A	0.0288	0.08
AUS012	399807.0	6501806.0	74.73	10	85mm	0	-90	9	10	1	99.8	0.0155	N/A	0.0108	N/A	N/A	0.0042	0.0342	0.10
AUS012	399807.0	6501806.0	74.73	10	85mm	0	-90	1	10	9	99.8	0.0166	N/A	0.0098	N/A	0.0009	0.0005	0.0330	0.14
AUS013	399641.0	6501791.0	74.89	10	85mm	0	-90	1	3	2	99.8	0.0190	N/A	0.0115	N/A	0.0111	0.0042	0.0371	0.08
AUS013	399641.0	6501791.0	74.89	10	85mm	0	-90	3	5	2	99.9	0.0157	N/A	0.0085	N/A	N/A	N/A	0.0354	0.05
AUS013	399641.0	6501791.0	74.89	10	85mm	0	-90	5	7	2	99.9	0.0156	N/A	0.0078	N/A	N/A	N/A	0.0294	0.03
AUS013	399641.0	6501791.0	74.89	10	85mm	0	-90	7	9	2	99.9	0.0160	N/A	0.0102	N/A	N/A	N/A	0.0359	0.06
AUS013	399641.0	6501791.0	74.89	10	85mm	0	-90	9	10	1	99.8	0.0186	N/A	0.0177	N/A	N/A	N/A	0.0559	0.07
AUS013	399641.0	6501791.0	74.89	10	85mm	0	-90	1	10	9	99.9	0.0168	N/A	0.0104	N/A	0.0025	0.0009	0.0368	0.06
AUS014	399435.0	6501768.0	74.08	10	85mm	0	-90	1	3	2	99.8	0.0175	N/A	0.0091	N/A	N/A	N/A	0.0384	0.09
AUS014	399435.0	6501768.0	74.08	10	85mm	0	-90	3	5	2	99.9	0.0158	N/A	0.0081	N/A	0.0109	N/A	0.0332	0.07
AUS014	399435.0	6501768.0	74.08	10	85mm	0	-90	5	7	2	99.8	0.0168	N/A	0.0557	N/A	N/A	N/A	0.0404	0.09
AUS014	399435.0	6501768.0	74.08	10	85mm	0	-90	7	9	2	99.9	0.0157	N/A	0.0109	N/A	N/A	0.0043	0.0382	0.03
AUS014	399435.0	6501768.0	74.08	10	85mm	0	-90	9	10	1	99.9	0.0172	N/A	0.0120	N/A	N/A	0.0043	0.0413	0.06
AUS014	399435.0	6501768.0	74.08	10	85mm	0	-90	1	10	9	99.9	0.0165	N/A	0.0200	N/A	0.0024	0.0014	0.0380	0.07
AUS015	399204.0	6501746.0	75.84	10	85mm	0	-90	1	3	2	99.8	0.0250	N/A	0.0119	0.0041	0.0071	0.0069	0.0402	0.07
AUS015	399204.0	6501746.0	75.84	10	85mm	0	-90	3	5	2	99.9	0.0170	N/A	0.0145	N/A	N/A	0.0042	0.0428	0.03
AUS015	399204.0	6501746.0	75.84	10	85mm	0	-90	5	7	2	99.9	0.0157	N/A	0.0071	N/A	N/A	0.0040	0.0307	0.07

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS015	399204.0	6501746.0	75.84	10	85mm	0	-90	7	9	2	99.9	0.0161	N/A	0.0125	N/A	N/A	0.0044	0.0362	0.03
AUS015	399204.0	6501746.0	75.84	10	85mm	0	-90	9	10	1	99.8	0.0175	N/A	0.0163	N/A	N/A	0.0048	0.0484	0.07
AUS015	399204.0	6501746.0	75.84	10	85mm	0	-90	1	10	9	99.9	0.0183	0	0.0120	0.0009	0.0016	0.0049	0.0387	0.05
AUS016	399013.0	6501728.0	71.38	10	85mm	0	-90	1	3	2	99.8	0.0201	N/A	0.0103	N/A	N/A	0.0043	0.0408	0.12
AUS016	399013.0	6501728.0	71.38	10	85mm	0	-90	3	5	2	99.7	0.0178	N/A	0.0126	N/A	N/A	0.0046	0.0413	0.17
AUS016	399013.0	6501728.0	71.38	10	85mm	0	-90	5	7	2	99.8	0.0179	N/A	0.0125	N/A	N/A	0.0043	0.0437	0.14
AUS016	399013.0	6501728.0	71.38	10	85mm	0	-90	7	9	2	99.8	0.0174	N/A	0.0147	N/A	N/A	0.0044	0.0588	0.08
AUS016	399013.0	6501728.0	71.38	10	85mm	0	-90	9	10	1	99.7	0.0192	N/A	0.0327	N/A	N/A	0.0045	0.1245	0.08
AUS016	399013.0	6501728.0	71.38	10	85mm	0	-90	1	10	9	99.8	0.0184	0	0.0148	N/A	N/A	0.0044	0.0549	0.12
AUS017	398639.0	6501690.0	84.54	10	85mm	0	-90	1	3	2	99.8	0.0185	N/A	0.0112	N/A	N/A	0.0059	0.0449	0.11
AUS017	398639.0	6501690.0	84.54	10	85mm	0	-90	3	5	2	99.9	0.0174	N/A	0.0115	N/A	N/A	N/A	0.0343	0.06
AUS017	398639.0	6501690.0	84.54	10	85mm	0	-90	5	7	2	99.9	0.0174	N/A	0.0120	N/A	0.0047	0.0041	0.0273	0.05
AUS017	398639.0	6501690.0	84.54	10	85mm	0	-90	7	9	2	99.8	0.0180	N/A	0.0102	N/A	N/A	0.0040	0.0289	0.13
AUS017	398639.0	6501690.0	84.54	10	85mm	0	-90	9	10	1	99.9	0.0176	N/A	0.0139	N/A	N/A	N/A	0.0261	0.03
AUS017	398639.0	6501690.0	84.54	10	85mm	0	-90	1	10	9	99.9	0.0178	N/A	0.0115	N/A	0.0010	0.0031	0.0330	0.08
AUS018	398385.0	6501664.0	79.61	10	85mm	0	-90	1	3	2	99.8	0.0283	N/A	0.0102	N/A	N/A	0.0042	0.0439	0.14
AUS018	398385.0	6501664.0	79.61	10	85mm	0	-90	3	5	2	99.8	0.0260	N/A	0.0120	N/A	N/A	N/A	0.0408	0.12
AUS018	398385.0	6501664.0	79.61	10	85mm	0	-90	5	7	2	99.8	0.0230	N/A	0.0118	N/A	N/A	0.0040	0.0319	0.08
AUS018	398385.0	6501664.0	79.61	10	85mm	0	-90	7	9	2	99.8	0.0239	N/A	0.0141	N/A	N/A	0.0043	0.0458	0.10
AUS018	398385.0	6501664.0	79.61	10	85mm	0	-90	9	10	1	99.8	0.0199	N/A	0.0153	N/A	N/A	0.0041	0.0768	0.03
AUS018	398385.0	6501664.0	79.61	10	85mm	0	-90	1	10	9	99.8	0.0247	N/A	0.0124	N/A	N/A	0.0032	0.0446	0.10
AUS019	398221.0	6501646.0	74.6	10	85mm	0	-90	1	3	2	99.8	0.0249	N/A	0.0140	N/A	N/A	N/A	0.0578	0.11

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS019	398221.0	6501646.0	74.6	10	85mm	0	-90	3	5	2	99.8	0.0304	N/A	0.0208	N/A	N/A	N/A	0.0638	0.10
AUS019	398221.0	6501646.0	74.6	10	85mm	0	-90	5	7	2	99.7	0.0226	N/A	0.0346	N/A	N/A	0.0049	0.0960	0.10
AUS019	398221.0	6501646.0	74.6	10	85mm	0	-90	1	7	6	99.8	0.0260	N/A	0.0231	N/A	N/A	0.0016	0.0725	0.10
AUS020	398029.0	6501627.0	78.43	10	85mm	0	-90	1	3	2	99.8	0.0221	N/A	0.0132	N/A	N/A	N/A	0.0461	0.09
AUS020	398029.0	6501627.0	78.43	10	85mm	0	-90	3	5	2	99.7	0.0197	N/A	0.0202	N/A	N/A	N/A	0.0852	0.12
AUS020	398029.0	6501627.0	78.43	10	85mm	0	-90	5	7	2	99.8	0.0194	N/A	0.0305	N/A	N/A	0.0041	0.1022	0.07
AUS020	398029.0	6501627.0	78.43	10	85mm	0	-90	7	9	2	99.8	0.0178	N/A	0.0140	N/A	N/A	N/A	0.0501	0.07
AUS020	398029.0	6501627.0	78.43	10	85mm	0	-90	1	9	8	99.8	0.0198	N/A	0.0195	N/A	N/A	0.0010	0.0709	0.09
AUS021	397833.0	6501606.0	77.71	10	85mm	0	-90	1	3	2	99.7	0.0376	N/A	0.0078	N/A	N/A	N/A	0.0367	0.19
AUS021	397833.0	6501606.0	77.71	10	85mm	0	-90	3	5	2	99.7	0.0244	N/A	0.0096	N/A	N/A	N/A	0.0423	0.21
AUS021	397833.0	6501606.0	77.71	10	85mm	0	-90	5	7	2	99.8	0.0209	N/A	0.0164	N/A	N/A	N/A	0.0590	0.08
AUS021	397833.0	6501606.0	77.71	10	85mm	0	-90	7	9	2	99.8	0.0214	N/A	0.0257	N/A	N/A	N/A	0.0907	0.06
AUS021	397833.0	6501606.0	77.71	10	85mm	0	-90	1	9	8	99.8	0.0261	N/A	0.0149	N/A	N/A	N/A	0.0572	0.14
AUS022	397638.0	6501584.0	77.39	9	85mm	0	-90	1	3	2	99.8	0.0187	N/A	0.0097	N/A	N/A	N/A	0.0447	0.13
AUS022	397638.0	6501584.0	77.39	9	85mm	0	-90	3	5	2	99.8	0.0176	N/A	0.0185	N/A	N/A	N/A	0.0597	0.08
AUS022	397638.0	6501584.0	77.39	9	85mm	0	-90	5	7	2	99.8	0.0169	N/A	0.0183	N/A	N/A	N/A	0.0541	0.08
AUS022	397638.0	6501584.0	77.39	9	85mm	0	-90	1	7	6	99.8	0.0177	N/A	0.0155	N/A	N/A	N/A	0.0528	0.10
AUS023	397417.0	6501566.0	79.29	10	85mm	0	-90	1	3	2	99.8	0.0194	N/A	0.0139	N/A	N/A	N/A	0.0541	0.07
AUS023	397417.0	6501566.0	79.29	10	85mm	0	-90	3	5	2	99.7	0.0198	N/A	0.0226	N/A	N/A	N/A	0.0863	0.14
AUS023	397417.0	6501566.0	79.29	10	85mm	0	-90	5	7	2	99.8	0.0173	N/A	0.0133	N/A	N/A	N/A	0.0499	0.08
AUS023	397417.0	6501566.0	79.29	10	85mm	0	-90	7	9	2	99.8	0.0178	N/A	0.0123	N/A	N/A	N/A	0.0444	0.07
AUS023	397417.0	6501566.0	79.29	10	85mm	0	-90	1	9	8	99.8	0.0186	N/A	0.0155	N/A	N/A	N/A	0.0587	0.09

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS024	397246.0	6501546.0	79.22	10	85mm	0	-90	1	3	2	99.8	0.0199	N/A	0.0121	N/A	N/A	N/A	0.0577	0.10
AUS024	397246.0	6501546.0	79.22	10	85mm	0	-90	3	5	2	99.8	0.0186	N/A	0.0149	N/A	N/A	N/A	0.0664	0.07
AUS024	397246.0	6501546.0	79.22	10	85mm	0	-90	5	7	2	99.8	0.0189	N/A	0.0292	N/A	N/A	N/A	0.0864	0.09
AUS024	397246.0	6501546.0	79.22	10	85mm	0	-90	7	9	2	99.8	0.0169	N/A	0.0159	N/A	N/A	N/A	0.0425	0.06
AUS024	397246.0	6501546.0	79.22	10	85mm	0	-90	9	10	1	99.8	0.0231	N/A	0.0188	0.0051	N/A	0.0046	0.0596	0.08
AUS024	397246.0	6501546.0	79.22	10	85mm	0	-90	1	10	9	99.8	0.0191	N/A	0.0181	0.0006	N/A	0.0005	0.0628	0.08
AUS025	397046.0	6501527.0	78.78	10	85mm	0	-90	1	3	2	99.7	0.0198	N/A	0.0107	N/A	N/A	N/A	0.0405	0.17
AUS025	397046.0	6501527.0	78.78	10	85mm	0	-90	3	5	2	99.8	0.0186	N/A	0.0086	N/A	N/A	0.0042	0.0381	0.10
AUS025	397046.0	6501527.0	78.78	10	85mm	0	-90	5	7	2	99.8	0.0180	N/A	0.0078	N/A	N/A	N/A	0.0380	0.12
AUS025	397046.0	6501527.0	78.78	10	85mm	0	-90	7	9	2	99.8	0.0177	N/A	0.0145	N/A	N/A	N/A	0.0777	0.08
AUS025	397046.0	6501527.0	78.78	10	85mm	0	-90	9	10	1	99.7	0.0206	N/A	0.0348	N/A	N/A	N/A	0.1160	0.10
AUS025	397046.0	6501527.0	78.78	10	85mm	0	-90	1	10	9	99.8	0.0188	0	0.0131	N/A	N/A	0.0009	0.0561	0.12
AUS026	396854.0	6501509.0	81.39	10	85mm	0	-90	1	3	2	99.8	0.0205	N/A	0.0147	N/A	N/A	N/A	0.0445	0.13
AUS026	396854.0	6501509.0	81.39	10	85mm	0	-90	3	5	2	99.8	0.0128	N/A	0.0061	N/A	N/A	N/A	0.0232	0.13
AUS026	396854.0	6501509.0	81.39	10	85mm	0	-90	5	7	2	99.8	0.0212	N/A	0.0091	N/A	N/A	0.0040	0.0311	0.10
AUS026	396854.0	6501509.0	81.39	10	85mm	0	-90	7	9	2	99.8	0.0175	N/A	0.0109	N/A	N/A	N/A	0.0466	0.07
AUS026	396854.0	6501509.0	81.39	10	85mm	0	-90	9	10	1	99.8	0.0195	N/A	0.0324	N/A	N/A	N/A	0.0860	0.09
AUS026	396854.0	6501509.0	81.39	10	85mm	0	-90	1	10	9	99.8	0.0182	N/A	0.0127	N/A	N/A	0.0009	0.0419	0.11
AUS027	396633.0	6501487.0	83.17	10	85mm	0	-90	1	3	2	99.8	N/A	N/A	0.0027	N/A	N/A	N/A	0.0060	0.14
AUS027	396633.0	6501487.0	83.17	10	85mm	0	-90	3	5	2	99.8	0.0189	N/A	0.0084	N/A	N/A	N/A	0.0403	0.12
AUS027	396633.0	6501487.0	83.17	10	85mm	0	-90	5	7	2	99.8	0.0188	N/A	0.0095	N/A	N/A	N/A	0.0371	0.09

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS027	396633.0	6501487.0	83.17	10	85mm	0	-90	7	9	2	99.8	0.0203	N/A	0.0166	N/A	N/A	N/A	0.0724	0.11
AUS027	396633.0	6501487.0	83.17	10	85mm	0	-90	9	10	1	99.7	0.0223	N/A	0.0327	N/A	N/A	N/A	0.1301	0.11
AUS027	396633.0	6501487.0	83.17	10	85mm	0	-90	1	10	9	99.8	0.0154	N/A	0.0119	N/A	N/A	N/A	0.0491	0.11
AUS028	396438.0	6501471.0	88.83	10	85mm	0	-90	1	3	2	99.7	0.0209	N/A	0.0086	N/A	N/A	N/A	0.0373	0.19
AUS028	396438.0	6501471.0	88.83	10	85mm	0	-90	3	5	2	99.8	0.0185	N/A	0.0117	N/A	N/A	N/A	0.0371	0.12
AUS028	396438.0	6501471.0	88.83	10	85mm	0	-90	5	7	2	99.8	0.0175	N/A	0.0070	N/A	N/A	N/A	0.0294	0.11
AUS028	396438.0	6501471.0	88.83	10	85mm	0	-90	7	9	2	99.8	0.0194	N/A	0.0095	N/A	N/A	N/A	0.0386	0.10
AUS028	396438.0	6501471.0	88.83	10	85mm	0	-90	9	10	1	99.8	0.0187	N/A	0.0145	N/A	N/A	N/A	0.0697	0.07
AUS028	396438.0	6501471.0	88.83	10	85mm	0	-90	1	10	9	99.8	0.0190	N/A	0.0098	N/A	N/A	N/A	0.0394	0.12
AUS029	396230.0	6501450.0	90.22	10	85mm	0	-90	1	3	2	99.7	0.0232	N/A	0.0110	N/A	0.0044	N/A	0.0392	0.18
AUS029	396230.0	6501450.0	90.22	10	85mm	0	-90	3	5	2	99.8	0.0200	N/A	0.0079	N/A	N/A	N/A	0.0373	0.13
AUS029	396230.0	6501450.0	90.22	10	85mm	0	-90	5	7	2	99.8	0.0219	N/A	0.0072	N/A	N/A	N/A	0.0281	0.11
AUS029	396230.0	6501450.0	90.22	10	85mm	0	-90	7	9	2	99.8	0.0237	N/A	0.0115	N/A	N/A	N/A	0.0306	0.11
AUS029	396230.0	6501450.0	90.22	10	85mm	0	-90	9	10	1	99.8	0.0273	N/A	0.0093	N/A	N/A	N/A	0.0353	0.12
AUS029	396230.0	6501450.0	90.22	10	85mm	0	-90	1	10	9	99.8	0.0228	N/A	0.0094	N/A	0.0010	N/A	0.0340	0.13
AUS030	396033.0	6501426.0	86.04	10	85mm	0	-90	1	3	2	99.7	0.0289	N/A	0.0077	N/A	N/A	N/A	0.0450	0.17
AUS030	396033.0	6501426.0	86.04	10	85mm	0	-90	3	5	2	99.8	0.0258	N/A	0.0092	N/A	N/A	N/A	0.0442	0.14
AUS030	396033.0	6501426.0	86.04	10	85mm	0	-90	5	7	2	99.7	0.0291	N/A	0.0133	N/A	N/A	N/A	0.0597	0.15
AUS030	396033.0	6501426.0	86.04	10	85mm	0	-90	7	9	2	99.7	0.0336	N/A	0.0214	N/A	N/A	0.0056	0.0667	0.12
AUS030	396033.0	6501426.0	86.04	10	85mm	0	-90	9	10	1	99.8	0.0209	N/A	0.0193	N/A	N/A	N/A	0.0622	0.09
AUS030	396033.0	6501426.0	86.04	10	85mm	0	-90	1	10	9	99.7	0.0284	N/A	0.0136	N/A	N/A	0.0012	0.0548	0.14
AUS031	395844.0	6501409.0	80.38	9	85mm	0	-90	1	3	2	99.8	0.0332	N/A	0.0094	N/A	N/A	N/A	0.0618	0.10

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS031	395844.0	6501409.0	80.38	9	85mm	0	-90	3	5	2	99.8	0.0224	N/A	0.0108	N/A	N/A	N/A	0.0721	0.07
AUS031	395844.0	6501409.0	80.38	9	85mm	0	-90	5	7	2	99.8	0.0204	N/A	0.0109	N/A	N/A	N/A	0.0495	0.07
AUS031	395844.0	6501409.0	80.38	9	85mm	0	-90	1	7	6	99.8	0.0253	N/A	0.0104	N/A	N/A	N/A	0.0611	0.08
AUS032	395706.5	6501395.4	77.62	9	85mm	0	-90	1	3	2	99.7	0.0197	N/A	0.0130	N/A	N/A	N/A	0.0933	0.20
AUS032	395706.5	6501395.4	77.62	9	85mm	0	-90	3	5	2	99.7	0.0199	N/A	0.0156	N/A	N/A	0.0041	0.0884	0.20
AUS032	395706.5	6501395.4	77.62	9	85mm	0	-90	5	6	1	99.8	0.0204	N/A	0.0206	N/A	N/A	N/A	0.0783	0.08
AUS032	395706.5	6501395.4	77.62	9	85mm	0	-90	1	6	5	99.7	0.0199	N/A	0.0156	N/A	N/A	0.0016	0.0883	0.18
AUS033	395234.1	6501959.3	84.98	10	85mm	0	-90	1	3	2	99.7	0.0204	N/A	0.0105	N/A	0.0047	N/A	0.0451	0.20
AUS033	395234.1	6501959.3	84.98	10	85mm	0	-90	3	5	2	99.8	0.0174	N/A	0.0088	N/A	N/A	N/A	0.0465	0.09
AUS033	395234.1	6501959.3	84.98	10	85mm	0	-90	5	7	2	99.9	0.0178	N/A	0.0101	N/A	N/A	N/A	0.0524	0.05
AUS033	395234.1	6501959.3	84.98	10	85mm	0	-90	7	9	2	99.9	0.0192	N/A	0.0184	N/A	N/A	N/A	0.0660	0.03
AUS033	395234.1	6501959.3	84.98	10	85mm	0	-90	9	10	1	99.8	0.0196	N/A	0.0328	N/A	N/A	N/A	0.1024	0.02
AUS033	395234.1	6501959.3	84.98	10	85mm	0	-90	1	10	9	99.8	0.0188	N/A	0.0143	N/A	0.0010	N/A	0.0580	0.08
AUS034	395232.8	6502010.5	85.24	10	85mm	0	-90	1	3	2	99.8	0.0191	N/A	0.0098	N/A	N/A	N/A	0.0413	0.09
AUS034	395232.8	6502010.5	85.24	10	85mm	0	-90	3	5	2	99.8	0.0186	N/A	0.0138	N/A	N/A	N/A	0.0465	0.10
AUS034	395232.8	6502010.5	85.24	10	85mm	0	-90	5	7	2	99.8	0.0199	N/A	0.0154	N/A	N/A	N/A	0.0538	0.06
AUS034	395232.8	6502010.5	85.24	10	85mm	0	-90	7	9	2	99.9	0.0186	N/A	0.0131	N/A	N/A	N/A	0.0579	0.04
AUS034	395232.8	6502010.5	85.24	10	85mm	0	-90	9	10	1	99.8	0.0191	N/A	0.0258	N/A	N/A	0.0042	0.0849	0.02
AUS034	395232.8	6502010.5	85.24	10	85mm	0	-90	1	10	9	99.8	0.0191	N/A	0.0144	N/A	N/A	0.0005	0.0538	0.07
AUS035	395233.0	6502168.0	90.69	10	85mm	0	-90	1	3	2	99.8	0.0220	N/A	0.0124	N/A	N/A	N/A	0.0388	0.07
AUS035	395233.0	6502168.0	90.69	10	85mm	0	-90	3	5	2	99.9	0.0209	N/A	0.0177	N/A	N/A	N/A	0.0377	0.03
AUS035	395233.0	6502168.0	90.69	10	85mm	0	-90	5	7	2	99.8	0.0221	N/A	0.0181	N/A	N/A	0.0041	0.0323	0.06

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS035	395233.0	6502168.0	90.69	10	85mm	0	-90	7	9	2	99.8	0.0204	N/A	0.0127	N/A	N/A	N/A	0.0392	0.10
AUS035	395233.0	6502168.0	90.69	10	85mm	0	-90	9	10	1	99.8	0.0194	N/A	0.0156	N/A	N/A	N/A	0.0587	0.07
AUS035	395233.0	6502168.0	90.69	10	85mm	0	-90	1	10	9	99.8	0.0211	0	0.0153	N/A	N/A	0.0009	0.0394	0.07
AUS036	395236.0	6502360.0	88.44	10	85mm	0	-90	1	3	2	99.8	0.0234	N/A	0.0097	N/A	N/A	N/A	0.0467	0.13
AUS036	395236.0	6502360.0	88.44	10	85mm	0	-90	3	5	2	99.7	0.0193	N/A	0.0724	N/A	N/A	N/A	0.0432	0.10
AUS036	395236.0	6502360.0	88.44	10	85mm	0	-90	5	7	2	99.8	0.0195	N/A	0.0088	N/A	N/A	N/A	0.0388	0.09
AUS036	395236.0	6502360.0	88.44	10	85mm	0	-90	7	9	2	99.8	0.0240	N/A	0.0136	N/A	N/A	N/A	0.0503	0.12
AUS036	395236.0	6502360.0	88.44	10	85mm	0	-90	9	10	1	99.8	0.0193	N/A	0.0106	N/A	N/A	N/A	0.0524	0.08
AUS036	395236.0	6502360.0	88.44	10	85mm	0	-90	1	10	9	99.8	0.0213	N/A	0.0244	N/A	N/A	N/A	0.0456	0.11
AUS037	395234.0	6502542.0	83.03	8	85mm	0	-90	1	3	2	99.7	0.0238	N/A	0.0095	N/A	N/A	N/A	0.0580	0.23
AUS037	395234.0	6502542.0	83.03	8	85mm	0	-90	3	5	2	99.7	0.0211	N/A	0.0155	N/A	0.0042	N/A	0.0798	0.20
AUS037	395234.0	6502542.0	83.03	8	85mm	0	-90	5	7	2	99.8	0.0228	N/A	0.0137	N/A	N/A	N/A	0.0531	0.10
AUS037	395234.0	6502542.0	83.03	8	85mm	0	-90	1	7	6	99.7	0.0226	0	0.0129	N/A	0.0014	N/A	0.0636	0.18
AUS038	395231.0	6502750.0	81.91	9	85mm	0	-90	1	3	2	99.7	0.0207	N/A	0.0103	N/A	N/A	N/A	0.0568	0.16
AUS038	395231.0	6502750.0	81.91	9	85mm	0	-90	3	5	2	99.8	0.0184	N/A	0.0083	N/A	N/A	N/A	0.0444	0.10
AUS038	395231.0	6502750.0	81.91	9	85mm	0	-90	5	7	2	99.8	0.0195	N/A	0.0124	N/A	N/A	N/A	0.0484	0.11
AUS038	395231.0	6502750.0	81.91	9	85mm	0	-90	1	7	6	99.8	0.0195	N/A	0.0103	N/A	N/A	N/A	0.0499	0.12
AUS039	395229.0	6502991.0	86.46	10	85mm	0	-90	1	3	2	99.7	0.0292	N/A	0.0088	N/A	N/A	N/A	0.0416	0.16
AUS039	395229.0	6502991.0	86.46	10	85mm	0	-90	3	5	2	99.8	0.0226	N/A	0.0095	N/A	N/A	N/A	0.0368	0.10
AUS039	395229.0	6502991.0	86.46	10	85mm	0	-90	5	7	2	99.8	0.0213	N/A	0.0100	N/A	N/A	N/A	0.0457	0.13
AUS039	395229.0	6502991.0	86.46	10	85mm	0	-90	7	9	2	99.8	0.0209	N/A	0.0142	N/A	N/A	N/A	0.0492	0.06
AUS039	395229.0	6502991.0	86.46	10	85mm	0	-90	9	10	1	99.8	0.0250	N/A	0.0246	N/A	N/A	N/A	0.0728	0.09

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS039	395229.0	6502991.0	86.46	10	85mm	0	-90	1	10	9	99.8	0.0237	N/A	0.0122	N/A	N/A	N/A	0.0466	0.11
AUS040	395229.0	6503176.0	88.48	10	85mm	0	-90	1	3	2	99.7	0.0382	N/A	0.0292	N/A	0.0041	N/A	0.0482	0.16
AUS040	395229.0	6503176.0	88.48	10	85mm	0	-90	3	5	2	99.8	0.0376	N/A	0.0077	N/A	N/A	N/A	0.0357	0.09
AUS040	395229.0	6503176.0	88.48	10	85mm	0	-90	5	7	2	99.8	0.0403	N/A	0.0129	N/A	N/A	N/A	0.0352	0.09
AUS040	395229.0	6503176.0	88.48	10	85mm	0	-90	7	9	2	99.8	0.0314	N/A	0.0116	N/A	N/A	N/A	0.0458	0.09
AUS040	395229.0	6503176.0	88.48	10	85mm	0	-90	9	10	1	99.8	0.0206	N/A	0.0158	N/A	N/A	N/A	0.0548	0.07
AUS040	395229.0	6503176.0	88.48	10	85mm	0	-90	1	10	9	99.8	0.0351	N/A	0.0154	N/A	0.0009	N/A	0.0427	0.10
AUS041	395224.0	6503392.0	83.09	10	85mm	0	-90	1	3	2	99.5	0.0247	N/A	0.0128	N/A	0.0041	N/A	0.0591	0.37
AUS041	395224.0	6503392.0	83.09	10	85mm	0	-90	3	5	2	99.7	0.0207	N/A	0.0126	N/A	N/A	N/A	0.0578	0.15
AUS041	395224.0	6503392.0	83.09	10	85mm	0	-90	5	7	2	99.8	0.0226	N/A	0.0187	N/A	N/A	N/A	0.0510	0.11
AUS041	395224.0	6503392.0	83.09	10	85mm	0	-90	1	7	6	99.7	0.0227	N/A	0.0147	N/A	0.0014	N/A	0.0560	0.21
AUS042	395221.0	6503594.0	80.32	10	85mm	0	-90	1	3	2	99.7	0.0315	N/A	0.0234	N/A	0.0042	N/A	0.1039	0.17
AUS042	395221.0	6503594.0	80.32	10	85mm	0	-90	3	4	1	94.6	2.1478	N/A	0.0536	0.0949	0.0048	0.0112	0.1629	2.91
AUS042	395221.0	6503594.0	80.32	10	85mm	0	-90	1	4	3	98	0.7369	0	0.0335	0.0316	0.0044	0.0037	0.1236	1.08
AUS043	395219.0	6503790.0	95.28	10	85mm	0	-90	1	3	2	99.7	0.0228	N/A	0.0139	N/A	0.0044	N/A	0.0474	0.17
AUS043	395219.0	6503790.0	95.28	10	85mm	0	-90	3	5	2	99.8	0.0273	N/A	0.0106	N/A	N/A	N/A	0.0374	0.14
AUS043	395219.0	6503790.0	95.28	10	85mm	0	-90	5	7	2	99.8	0.0171	N/A	0.0105	N/A	N/A	N/A	0.0352	0.08
AUS043	395219.0	6503790.0	95.28	10	85mm	0	-90	7	9	2	99.9	0.0167	N/A	0.0128	N/A	N/A	N/A	0.0310	0.03
AUS043	395219.0	6503790.0	95.28	10	85mm	0	-90	9	10	1	99.8	0.0168	N/A	0.0183	N/A	N/A	N/A	0.0345	0.07
AUS043	395219.0	6503790.0	95.28	10	85mm	0	-90	1	10	9	99.8	0.0205	N/A	0.0127	N/A	0.0010	N/A	0.0374	0.10
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	1	3	2	99.7	0.0245	N/A	0.0142	N/A	0.0046	0.0069	0.0428	0.19

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	3	5	2	99.8	0.0220	N/A	0.0128	N/A	N/A	0.0067	0.0385	0.12
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	5	7	2	99.8	0.0403	N/A	0.0161	N/A	0.0041	0.0066	0.0318	0.13
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	7	9	2	99.7	0.0206	N/A	0.1956	N/A	N/A	0.0066	0.0341	0.03
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	9	11	2	99.8	0.0276	N/A	0.0304	N/A	0.0051	0.0068	0.0464	0.07
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	11	13	2	99.8	0.0318	N/A	0.0298	N/A	N/A	0.0093	0.0535	0.10
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	13	15	2	99.7	0.0788	N/A	0.0354	N/A	0.0052	0.0058	0.0546	0.16
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	15	17	2	99.7	0.0897	N/A	0.0413	N/A	0.0045	0.0068	0.0486	0.10
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	17	19	2	99.7	0.0709	N/A	0.0355	N/A	0.0046	0.0068	0.0405	0.11
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	19	20	1	99.7	0.0888	N/A	0.0317	N/A	0.0043	0.0061	0.0443	0.08
AUS044	395219.0	6503981.0	112.87	20	85mm	0	-90	1	20	19	99.7	0.0474	N/A	0.0449	N/A	0.0032	0.0069	0.0435	0.11
AUS045	395216.0	6504197.0	98.95	10	85mm	0	-90	1	3	2	99.7	0.0248	N/A	0.0186	N/A	0.0043	0.0060	0.0561	0.14
AUS045	395216.0	6504197.0	98.95	10	85mm	0	-90	3	5	2	99.7	0.0480	N/A	0.0150	N/A	N/A	0.0060	0.0436	0.18
AUS045	395216.0	6504197.0	98.95	10	85mm	0	-90	5	7	2	99.8	0.0210	N/A	0.0139	N/A	N/A	0.0058	0.0351	0.09
AUS045	395216.0	6504197.0	98.95	10	85mm	0	-90	7	9	2	99.8	0.0197	N/A	0.0147	N/A	N/A	0.0050	0.0364	0.12
AUS045	395216.0	6504197.0	98.95	10	85mm	0	-90	9	10	1	99.9	0.0189	N/A	0.0146	N/A	N/A	0.0058	0.0390	0.03
AUS045	395216.0	6504197.0	98.95	10	85mm	0	-90	1	10	9	99.8	0.0273	N/A	0.0154	N/A	0.0010	0.0057	0.0424	0.12
AUS046	395215.0	6504375.0	85.23	10	85mm	0	-90	1	3	2	99.9	0.0229	N/A	0.0142	N/A	N/A	0.0055	0.0426	0.05
AUS046	395215.0	6504375.0	85.23	10	85mm	0	-90	3	5	2	99.8	0.0206	N/A	0.0130	N/A	N/A	0.0057	0.0405	0.10
AUS046	395215.0	6504375.0	85.23	10	85mm	0	-90	5	7	2	99.6	0.1116	N/A	0.0331	N/A	N/A	0.0063	0.0908	0.11
AUS046	395215.0	6504375.0	85.23	10	85mm	0	-90	7	9	2	95.9	2.1806	N/A	0.0859	0.0403	0.0066	0.0095	0.1746	1.63
AUS046	395215.0	6504375.0	85.23	10	85mm	0	-90	9	10	1	99.5	0.2481	N/A	0.0229	N/A	0.0043	0.0061	0.0671	0.15
AUS046	395215.0	6504375.0	85.23	10	85mm	0	-90	1	10	9	98.9	0.5466	0	0.0350	0.0090	0.0019	0.0067	0.0849	0.44
AUS047	395210.0	6504619.0	95.86	10	85mm	0	-90	1	3	2	99.7	0.0295	N/A	0.0137	N/A	N/A	0.0049	0.0530	0.15

CARBINE RESOURCES LIMITED

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS047	395210.0	6504619.0	95.86	10	85mm	0	-90	3	5	2	99.8	0.0221	N/A	0.0130	N/A	N/A	0.0051	0.0418	0.06
AUS047	395210.0	6504619.0	95.86	10	85mm	0	-90	5	7	2	99.8	0.0230	N/A	0.0151	N/A	N/A	0.0055	0.0434	0.07
AUS047	395210.0	6504619.0	95.86	10	85mm	0	-90	1	7	6	99.8	0.0249	N/A	0.0139	N/A	N/A	0.0052	0.0461	0.09
AUS048	395208.0	6504768.0	90.26	10	85mm	0	-90	1	3	2	99.7	0.0218	N/A	0.0124	N/A	0.0043	0.0056	0.0385	0.18
AUS048	395208.0	6504768.0	90.26	10	85mm	0	-90	3	5	2	99.9	0.0217	N/A	0.0178	N/A	N/A	0.0051	0.0449	0.03
AUS048	395208.0	6504768.0	90.26	10	85mm	0	-90	5	7	2	99.9	0.0217	N/A	0.0143	N/A	N/A	0.0050	0.0393	0.04
AUS048	395208.0	6504768.0	90.26	10	85mm	0	-90	7	9	2	99.8	0.0206	N/A	0.0127	N/A	N/A	0.0054	0.0381	0.11
AUS048	395208.0	6504768.0	90.26	10	85mm	0	-90	9	10	1	99.8	0.0468	N/A	0.0311	N/A	N/A	0.0056	0.0418	0.04
AUS048	395208.0	6504768.0	90.26	10	85mm	0	-90	1	10	9	99.8	0.0243	N/A	0.0162	N/A	0.0010	0.0053	0.0404	0.08
AUS049	395211.0	6504996.0	90.37	10	85mm	0	-90	1	3	2	99.7	0.0273	N/A	0.0161	N/A	0.0047	0.0055	0.0562	0.18
AUS049	395211.0	6504996.0	90.37	10	85mm	0	-90	3	5	2	99.8	0.0238	N/A	0.0142	N/A	N/A	0.0042	0.0487	0.11
AUS049	395211.0	6504996.0	90.37	10	85mm	0	-90	5	7	2	99.9	0.0281	N/A	0.0209	N/A	N/A	0.0045	0.0629	0.01
AUS049	395211.0	6504996.0	90.37	10	85mm	0	-90	7	9	2	99.7	0.0434	N/A	0.0281	N/A	N/A	0.0055	0.0548	0.11
AUS049	395211.0	6504996.0	90.37	10	85mm	0	-90	9	10	1	99.7	0.1001	N/A	0.0654	N/A	0.0048	0.0055	0.0599	0.06
AUS049	395211.0	6504996.0	90.37	10	85mm	0	-90	1	10	9	99.8	0.0384	N/A	0.0249	N/A	0.0016	0.0050	0.0561	0.10
AUS050	395209.0	6505166.0	82.68	10	85mm	0	-90	1	3	2	99.8	0.0348	N/A	0.0127	N/A	N/A	0.0056	0.0505	0.04
AUS050	395209.0	6505166.0	82.68	10	85mm	0	-90	3	5	2	99.8	0.0269	N/A	0.0150	N/A	0.0040	0.0049	0.0629	0.12
AUS050	395209.0	6505166.0	82.68	10	85mm	0	-90	5	7	2	99.7	0.0279	N/A	0.0303	N/A	N/A	0.0053	0.0949	0.09
AUS050	395209.0	6505166.0	82.68	10	85mm	0	-90	7	9	2	99.7	0.0358	N/A	0.0384	N/A	N/A	0.0046	0.1069	0.08
AUS050	395209.0	6505166.0	82.68	10	85mm	0	-90	1	9	8	99.8	0.0314	N/A	0.0241	N/A	0.0010	0.0051	0.0788	0.08
AUS051	395207.0	6505363.0	75.73	10	85mm	0	-90	1	3	2	99.5	0.0337	N/A	0.0308	N/A	0.0051	0.0053	0.1002	0.36
AUS051	395207.0	6505363.0	75.73	10	85mm	0	-90	3	5	2	98.9	0.2134	N/A	0.0338	0.0300	0.0066	0.0076	0.1264	0.71

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS051	395207.0	6505363.0	75.73	10	85mm	0	-90	1	5	4	99.2	0.1236	N/A	0.0323	0.0150	0.0059	0.0065	0.1133	0.54
AUS052	395202.0	6505558.0	81.85	10	85mm	0	-90	1	3	2	99.7	0.0328	N/A	0.0288	N/A	0.0043	0.0046	0.0917	0.16
AUS052	395202.0	6505558.0	81.85	10	85mm	0	-90	3	5	2	99.2	0.2641	N/A	0.0602	0.0133	0.0055	0.0056	0.0954	0.31
AUS052	395202.0	6505558.0	81.85	10	85mm	0	-90	5	7	2	99.3	0.2730	N/A	0.0537	0.0199	0.0050	0.0067	0.1085	0.26
AUS052	395202.0	6505558.0	81.85	10	85mm	0	-90	7	9	2	99.2	0.2807	N/A	0.0489	0.0121	0.0054	0.0061	0.0762	0.39
AUS052	395202.0	6505558.0	81.85	10	85mm	0	-90	9	10	1	99.3	0.2760	N/A	0.0394	0.0147	0.0049	0.0063	0.0845	0.30
AUS052	395202.0	6505558.0	81.85	10	85mm	0	-90	1	10	9	99.3	0.2197	N/A	0.0470	0.0117	0.0050	0.0058	0.0920	0.28
AUS053	395208.0	6505750.0	79.01	10	85mm	0	-90	1	3	2	99.7	0.0309	N/A	0.0262	N/A	0.0044	0.0048	0.0942	0.09
AUS053	395208.0	6505750.0	79.01	10	85mm	0	-90	3	5	2	99.7	0.0254	N/A	0.0328	N/A	0.0046	0.0052	0.1038	0.14
AUS053	395208.0	6505750.0	79.01	10	85mm	0	-90	1	5	4	99.7	0.0282	N/A	0.0295	0.0000	0.0045	0.0050	0.0990	0.12
AUS054	395205.0	6505965.0	76.66	10	85mm	0	-90	1	3	2	99.6	0.0686	N/A	0.0284	0.0040	0.0054	0.0053	0.0927	0.22
AUS054	395205.0	6505965.0	76.66	10	85mm	0	-90	3	5	2	98.9	0.2164	N/A	0.0206	N/A	0.0051	0.0056	0.0811	0.78
AUS054	395205.0	6505965.0	76.66	10	85mm	0	-90	5	7	2	99.8	0.0250	N/A	0.0139	N/A	N/A	0.0045	0.0518	0.08
AUS054	395205.0	6505965.0	76.66	10	85mm	0	-90	7	9	2	99.8	0.0226	N/A	0.0205	N/A	N/A	0.0042	0.0770	0.05
AUS054	395205.0	6505965.0	76.66	10	85mm	0	-90	9	10	1	98	0.7702	N/A	0.0578	0.0708	0.0063	0.0100	0.2361	0.88
AUS054	395205.0	6505965.0	76.66	10	85mm	0	-90	1	10	9	99.4	0.1595	N/A	0.0250	0.0088	0.0030	0.0055	0.0935	0.35
AUS055	395206.0	6506168.0	80.39	10	85mm	0	-90	1	3	2	99.8	0.0430	N/A	0.0256	N/A	0.0041	0.0053	0.0836	0.03
AUS055	395206.0	6506168.0	80.39	10	85mm	0	-90	3	5	2	98.8	0.4800	N/A	0.0445	0.0318	0.0058	0.0068	0.1089	0.47
AUS055	395206.0	6506168.0	80.39	10	85mm	0	-90	5	7	2	99.6	0.0898	N/A	0.0322	N/A	N/A	0.0045	0.0966	0.12
AUS055	395206.0	6506168.0	80.39	10	85mm	0	-90	7	9	2	99.5	0.1150	N/A	0.0289	N/A	0.0047	0.0048	0.1454	0.19
AUS055	395206.0	6506168.0	80.39	10	85mm	0	-90	1	9	8	99.4	0.1820	N/A	0.0328	0.0080	0.0037	0.0054	0.1086	0.20

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS056	395336.0	6506280.0	83.89	10	85mm	0	-90	1	3	2	99.7	0.0312	N/A	0.0218	N/A	N/A	0.0044	0.0696	0.11
AUS056	395336.0	6506280.0	83.89	10	85mm	0	-90	3	5	2	99.2	0.3171	N/A	0.0577	0.0255	0.0053	0.0067	0.0942	0.26
AUS056	395336.0	6506280.0	83.89	10	85mm	0	-90	5	7	2	99	0.4680	N/A	0.0688	0.0256	0.0045	0.0065	0.0854	0.38
AUS056	395336.0	6506280.0	83.89	10	85mm	0	-90	7	9	2	99	0.4199	N/A	0.0418	0.0327	0.0053	0.0063	0.0776	0.36
AUS056	395336.0	6506280.0	83.89	10	85mm	0	-90	9	10	1	99.5	0.0828	N/A	0.0425	N/A	0.0045	0.0040	0.1191	0.22
AUS056	395336.0	6506280.0	83.89	10	85mm	0	-90	1	10	9	99.3	0.2839	N/A	0.0470	0.0186	0.0039	0.0058	0.0859	0.27
AUS057	395453.0	6506372.0	94.98	10	85mm	0	-90	1	3	2	99.3	0.2766	N/A	0.0747	N/A	0.0059	0.0067	0.0945	0.17
AUS057	395453.0	6506372.0	94.98	10	85mm	0	-90	3	5	2	98.9	0.4403	N/A	0.0860	0.0305	0.0047	0.0065	0.1047	0.40
AUS057	395453.0	6506372.0	94.98	10	85mm	0	-90	5	7	2	99.4	0.2989	N/A	0.0393	0.0336	0.0049	0.0065	0.0836	0.17
AUS057	395453.0	6506372.0	94.98	10	85mm	0	-90	7	9	2	99.3	0.3268	N/A	0.0511	0.0479	0.0052	0.0073	0.1196	0.17
AUS057	395453.0	6506372.0	94.98	10	85mm	0	-90	9	10	1	99.2	0.3392	N/A	0.0495	0.0648	0.0050	0.0087	0.1122	0.18
AUS057	395453.0	6506372.0	94.98	10	85mm	0	-90	1	10	9	99.2	0.3360	N/A	0.0613	0.0321	0.0052	0.0070	0.1019	0.22
AUS058	395660.0	6506547.0	83.16	10	85mm	0	-90	1	3	2	99.8	0.0317	N/A	0.0287	N/A	N/A	0.0042	0.0859	0.05
AUS058	395660.0	6506547.0	83.16	10	85mm	0	-90	3	5	2	99.6	0.0920	N/A	0.0404	N/A	0.0045	N/A	0.1138	0.15
AUS058	395660.0	6506547.0	83.16	10	85mm	0	-90	5	7	2	98.8	0.3579	N/A	0.0450	0.0148	0.0051	0.0050	0.1824	0.55
AUS058	395660.0	6506547.0	83.16	10	85mm	0	-90	7	9	2	99.2	0.2627	N/A	0.0194	0.0112	0.0049	0.0051	0.0584	0.42
AUS058	395660.0	6506547.0	83.16	10	85mm	0	-90	9	10	1	99.4	0.1633	N/A	0.0335	N/A	0.0051	0.0044	0.1537	0.21
AUS058	395660.0	6506547.0	83.16	10	85mm	0	-90	1	10	9	99.4	0.1835	N/A	0.0334	0.0058	0.0038	0.0037	0.1150	0.28
AUS059	395691.0	6506696.0	90.39	10	85mm	0	-90	1	3	2	99.2	0.2433	N/A	0.0955	0.0220	0.0054	0.0057	0.1890	0.19
AUS059	395691.0	6506696.0	90.39	10	85mm	0	-90	3	5	2	99	0.4606	N/A	0.0815	0.0331	0.0049	0.0062	0.1343	0.29
AUS059	395691.0	6506696.0	90.39	10	85mm	0	-90	5	7	2	98.7	0.5139	N/A	0.0887	0.0460	0.0051	0.0070	0.1184	0.47
AUS059	395691.0	6506696.0	90.39	10	85mm	0	-90	7	9	2	99.2	0.3624	N/A	0.0323	0.0380	0.0043	0.0063	0.0785	0.22
AUS059	395691.0	6506696.0	90.39	10	85mm	0	-90	9	10	1	99.2	0.3464	N/A	0.0378	0.0461	0.0050	0.0071	0.0934	0.21

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS059	395691.0	6506696.0	90.39	10	85mm	0	-90	1	10	9	99.0	0.3896	N/A	0.0704	0.0360	0.0049	0.0064	0.1260	0.28
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	1	3	2	99.8	0.0345	N/A	0.0201	N/A	N/A	N/A	0.0617	0.06
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	3	5	2	99.2	0.3357	N/A	0.0724	0.0161	0.0050	0.0053	0.0788	0.24
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	5	7	2	99	0.4126	N/A	0.0724	0.0188	0.0044	0.0057	0.0885	0.35
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	7	9	2	98.8	0.4389	N/A	0.0674	0.0158	0.0054	0.0056	0.0938	0.60
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	9	11	2	99.1	0.3866	N/A	0.0499	0.0244	0.0043	0.0064	0.0705	0.37
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	11	13	2	99.2	0.3156	N/A	0.0567	0.0304	N/A	0.0060	0.1154	0.24
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	13	15	2	99.2	0.3365	N/A	0.0772	0.0474	0.0041	0.0074	0.1656	0.19
AUS060	395684.0	6506932.0	103.11	15	85mm	0	-90	1	15	14	99.2	0.3229	0	0.0594	0.0218	0.0033	0.0052	0.0963	0.29
AUS061	395680.0	6507129.0	97.77	10	85mm	0	-90	1	3	2	99.8	0.0360	N/A	0.0163	N/A	0.0100	N/A	0.0547	0.05
AUS061	395680.0	6507129.0	97.77	10	85mm	0	-90	3	5	2	99.7	0.1097	N/A	0.0355	0.0192	N/A	0.0055	0.0704	0.05
AUS061	395680.0	6507129.0	97.77	10	85mm	0	-90	5	7	2	99	0.3837	N/A	0.1167	0.0266	0.0047	0.0057	0.0950	0.31
AUS061	395680.0	6507129.0	97.77	10	85mm	0	-90	7	9	2	98.9	0.4333	N/A	0.1239	0.0233	0.0045	0.0058	0.1037	0.38
AUS061	395680.0	6507129.0	97.77	10	85mm	0	-90	9	10	1	99.1	0.4084	N/A	0.0424	0.0346	0.0045	0.0062	0.0722	0.34
AUS061	395680.0	6507129.0	97.77	10	85mm	0	-90	1	10	9	99.3	0.2593	N/A	0.0697	0.0192	0.0048	0.0045	0.0800	0.21
AUS062	395674.0	6507366.0	90.88	10	85mm	0	-90	1	3	2	99.8	0.0359	N/A	0.0217	N/A	N/A	N/A	0.0684	0.06
AUS062	395674.0	6507366.0	90.88	10	85mm	0	-90	3	5	2	99.4	0.2141	N/A	0.0515	0.0204	0.0051	0.0054	0.0762	0.19
AUS062	395674.0	6507366.0	90.88	10	85mm	0	-90	5	7	2	99.3	0.3631	N/A	0.0761	0.0381	0.0042	0.0064	0.0811	0.17
AUS062	395674.0	6507366.0	90.88	10	85mm	0	-90	7	9	2	99.1	0.3744	N/A	0.0643	0.0437	0.0047	0.0068	0.0963	0.28
AUS062	395674.0	6507366.0	90.88	10	85mm	0	-90	1	9	8	99.4	0.2469	N/A	0.0534	0.0256	0.0035	0.0047	0.0805	0.18
AUS063	395667.0	6507660.0	88.07	10	85mm	0	-90	1	3	2	99.8	0.0299	N/A	0.0198	N/A	N/A	N/A	0.0625	0.12
AUS063	395667.0	6507660.0	88.07	10	85mm	0	-90	3	5	2	99.6	0.1836	N/A	0.0493	0.0143	0.0077	0.0046	0.0828	0.01

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS063	395667.0	6507660.0	88.07	10	85mm	0	-90	5	7	2	99.3	0.4190	N/A	0.0560	0.0252	0.0041	0.0061	0.0730	0.15
AUS063	395667.0	6507660.0	88.07	10	85mm	0	-90	7	9	2	99.2	0.3745	N/A	0.0357	0.0280	0.0043	0.0054	0.0593	0.25
AUS063	395667.0	6507660.0	88.07	10	85mm	0	-90	9	10	1	99.1	0.4018	N/A	0.0421	0.0304	0.0050	0.0061	0.0621	0.30
AUS063	395667.0	6507660.0	88.07	10	85mm	0	-90	1	10	9	99.4	0.2684	N/A	0.0404	0.0184	0.0041	0.0043	0.0686	0.15
AUS064	395665.0	6507878.0	87.88	10	85mm	0	-90	1	3	2	99.9	0.0348	N/A	0.0192	N/A	N/A	N/A	0.0558	0.01
AUS064	395665.0	6507878.0	87.88	10	85mm	0	-90	3	5	2	99.4	0.2670	N/A	0.0530	0.0167	N/A	0.0046	0.0709	0.18
AUS064	395665.0	6507878.0	87.88	10	85mm	0	-90	5	7	2	99.1	0.4928	N/A	0.0798	0.0223	0.0047	0.0053	0.0759	0.24
AUS064	395665.0	6507878.0	87.88	10	85mm	0	-90	7	9	2	99	0.3064	N/A	0.0792	0.0214	0.0199	0.0050	0.0758	0.49
AUS064	395665.0	6507878.0	87.88	10	85mm	0	-90	9	10	1	99.4	0.3073	N/A	0.0433	0.0243	0.0046	0.0053	0.0781	0.18
AUS064	395665.0	6507878.0	87.88	10	85mm	0	-90	1	10	9	99.4	0.2788	N/A	0.0562	0.0161	0.0060	0.0039	0.0705	0.22
AUS065	395661.0	6508070.0	86.54	10	85mm	0	-90	1	3	2	99.8	0.0309	N/A	0.0215	N/A	0.0095	N/A	0.0649	0.10
AUS065	395661.0	6508070.0	86.54	10	85mm	0	-90	3	5	2	99.6	0.2638	N/A	0.0520	0.0156	0.0043	0.0053	0.0840	0.01
AUS065	395661.0	6508070.0	86.54	10	85mm	0	-90	5	7	2	99.1	0.4297	N/A	0.0681	0.0210	0.0042	0.0060	0.0775	0.27
AUS065	395661.0	6508070.0	86.54	10	85mm	0	-90	7	9	2	99.2	0.3761	N/A	0.0600	0.0233	0.0049	0.0056	0.0716	0.30
AUS065	395661.0	6508070.0	86.54	10	85mm	0	-90	9	10	1	99.7	0.1714	N/A	0.0515	0.0084	0.0047	0.0051	0.0565	0.01
AUS065	395661.0	6508070.0	86.54	10	85mm	0	-90	1	10	9	99.5	0.2636	N/A	0.0505	0.0142	0.0056	0.0043	0.0725	0.15
AUS066	395656.0	6508311.0	86.49	10	85mm	0	-90	1	3	2	99.8	0.0281	N/A	0.0197	N/A	N/A	0.0041	0.0477	0.10
AUS066	395656.0	6508311.0	86.49	10	85mm	0	-90	3	5	2	99.8	0.0308	N/A	0.0138	N/A	N/A	N/A	0.0409	0.06
AUS066	395656.0	6508311.0	86.49	10	85mm	0	-90	5	7	2	99.6	0.1018	N/A	0.0361	N/A	0.0042	N/A	0.0682	0.14
AUS066	395656.0	6508311.0	86.49	10	85mm	0	-90	7	9	2	99.6	0.0860	N/A	0.0414	N/A	N/A	N/A	0.0788	0.15
AUS066	395656.0	6508311.0	86.49	10	85mm	0	-90	1	9	8	99.7	0.0617	N/A	0.0278	N/A	0.0011	0.0010	0.0589	0.11
AUS067	395851.0	6506535.0	98.68	10	85mm	0	-90	1	3	2	99.7	0.0303	N/A	0.0181	N/A	0.0041	N/A	0.0614	0.19

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS067	395851.0	6506535.0	98.68	10	85mm	0	-90	3	5	2	99.8	0.0260	N/A	0.0233	N/A	0.0063	N/A	0.0771	0.10
AUS067	395851.0	6506535.0	98.68	10	85mm	0	-90	5	7	2	99.8	0.0282	N/A	0.0206	N/A	N/A	N/A	0.0639	0.07
AUS067	395851.0	6506535.0	98.68	10	85mm	0	-90	7	9	2	99.5	0.1572	N/A	0.0756	0.0120	0.0050	0.0052	0.0915	0.17
AUS067	395851.0	6506535.0	98.68	10	85mm	0	-90	9	10	1	99.3	0.2265	N/A	0.0658	0.0043	0.0046	0.0041	0.1001	0.24
AUS067	395851.0	6506535.0	98.68	10	85mm	0	-90	1	10	9	99.7	0.0789	N/A	0.0379	0.0031	0.0039	0.0016	0.0764	0.14
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	1	3	2	99	0.4324	N/A	0.0874	0.0134	0.0042	0.0048	0.0796	0.38
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	3	5	2	99.3	0.2803	N/A	0.0547	0.0160	0.0098	0.0045	0.0838	0.20
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	5	7	2	99.5	0.1668	N/A	0.0305	0.0050	0.0071	0.0041	0.0630	0.21
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	7	9	2	99.5	0.1674	N/A	0.0333	0.0100	0.0043	0.0044	0.0777	0.17
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	9	11	2	99.6	0.1509	N/A	0.0381	0.0134	N/A	0.0042	0.0870	0.12
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	11	13	2	99.6	0.1459	N/A	0.0368	0.0088	0.0045	0.0048	0.0765	0.07
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	13	15	2	99.6	0.1597	N/A	0.0452	0.0157	0.0057	0.0047	0.0998	0.08
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	15	17	2	99.6	0.1382	N/A	0.0402	0.0066	0.0044	0.0046	0.0730	0.09
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	17	19	2	99.6	0.1373	N/A	0.0438	0.0090	N/A	N/A	0.0924	0.07
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	19	20	1	99.5	0.1636	N/A	0.0647	0.0182	0.0047	0.0051	0.1476	0.10
AUS068	395977.0	6506533.0	109.91	20	85mm	0	-90	1	20	19	99.5	0.1959	N/A	0.0466	0.0113	0.0045	0.0041	0.0849	0.15
AUS069	396101.0	6506527.0	90.8	10	85mm	0	-90	1	3	2	99.7	0.0305	N/A	0.0148	N/A	N/A	N/A	0.0526	0.16
AUS069	396101.0	6506527.0	90.8	10	85mm	0	-90	3	5	2	99.8	0.0257	N/A	0.0156	N/A	N/A	N/A	0.0531	0.11
AUS069	396101.0	6506527.0	90.8	10	85mm	0	-90	5	7	2	99.8	0.0220	N/A	0.0162	N/A	N/A	N/A	0.0552	0.06
AUS069	396101.0	6506527.0	90.8	10	85mm	0	-90	7	9	2	99.8	0.0237	N/A	0.0207	N/A	N/A	N/A	0.0614	0.09
AUS069	396101.0	6506527.0	90.8	10	85mm	0	-90	9	10	1	99.5	0.0984	N/A	0.0757	0.0165	0.0044	0.0054	0.1209	0.14
AUS069	396101.0	6506527.0	90.8	10	85mm	0	-90	1	10	9	99.7	0.0336	N/A	0.0234	0.0018	0.0005	0.0006	0.0628	0.11
AUS070	396280.0	6506533.0	80.39	10	85mm	0	-90	1	3	2	99.8	0.0239	N/A	0.0152	N/A	0.0053	N/A	0.0582	0.12

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS070	396280.0	6506533.0	80.39	10	85mm	0	-90	3	5	2	99.8	0.0221	N/A	0.0173	N/A	0.0046	N/A	0.0596	0.11
AUS070	396280.0	6506533.0	80.39	10	85mm	0	-90	1	3	4	99.8	0.0230	N/A	0.0163	N/A	0.0050	N/A	0.0589	0.12
AUS071	396498.0	6506529.0	94.19	10	85mm	0	-90	1	3	2	99.7	0.0287	N/A	0.0158	N/A	N/A	N/A	0.0589	0.14
AUS071	396498.0	6506529.0	94.19	10	85mm	0	-90	3	5	2	99.8	0.0247	N/A	0.0138	N/A	N/A	N/A	0.0455	0.07
AUS071	396498.0	6506529.0	94.19	10	85mm	0	-90	5	7	2	99.8	0.0210	N/A	0.0145	N/A	N/A	N/A	0.0439	0.06
AUS071	396498.0	6506529.0	94.19	10	85mm	0	-90	7	9	2	99.8	0.0201	N/A	0.0166	N/A	N/A	N/A	0.0452	0.07
AUS071	396498.0	6506529.0	94.19	10	85mm	0	-90	9	10	1	99.9	0.0201	N/A	0.0161	N/A	N/A	N/A	0.0401	0.05
AUS071	396498.0	6506529.0	94.19	10	85mm	0	-90	1	9	9	99.8	0.0232	N/A	0.0153	N/A	N/A	N/A	0.0475	0.08
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	1	3	2	99.8	0.0200	N/A	0.0178	N/A	N/A	N/A	0.0537	0.10
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	3	5	2	99.7	0.0208	N/A	0.0161	N/A	N/A	N/A	0.0469	0.18
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	5	7	2	99.8	0.0196	N/A	0.0157	N/A	N/A	N/A	0.0459	0.07
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	7	9	2	99.9	0.0211	N/A	0.0185	N/A	N/A	N/A	0.0394	0.06
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	9	11	2	99.5	0.0429	N/A	0.0368	N/A	0.0043	N/A	0.0452	0.36
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	11	13	2	99.5	0.1105	N/A	0.0647	N/A	0.0043	N/A	0.0544	0.27
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	13	15	2	99.7	0.0825	N/A	0.0393	N/A	N/A	N/A	0.0561	0.15
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	15	17	2	99.8	0.0585	N/A	0.0304	N/A	N/A	N/A	0.0379	0.09
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	17	19	2	99.8	0.0456	N/A	0.0367	N/A	N/A	N/A	0.0328	0.08
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	19	20	1	99.8	0.0442	N/A	0.0305	N/A	N/A	N/A	0.0319	0.08
AUS072	396705.0	6506527.0	97.53	20	85mm	0	-90	1	20	19	99.7	0.0467	N/A	0.0307	N/A	0.0009	N/A	0.0451	0.15
AUS073	396891.0	6506521.0	84.5	10	85mm	0	-90	1	3	2	99.8	0.0216	N/A	0.0161	N/A	N/A	N/A	0.0408	0.11
AUS073	396891.0	6506521.0	84.5	10	85mm	0	-90	3	5	2	99.8	0.0204	N/A	0.0186	N/A	N/A	N/A	0.0497	0.08
AUS073	396891.0	6506521.0	84.5	10	85mm	0	-90	5	7	2	99.8	0.0201	N/A	0.0185	N/A	N/A	N/A	0.0548	0.12
AUS073	396891.0	6506521.0	84.5	10	85mm	0	-90	7	9	2	99.8	0.0204	N/A	0.0268	N/A	N/A	N/A	0.0719	0.06

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS073	396891.0	6506521.0	84.5	10	85mm	0	-90	1	9	8	99.8	0.0206	N/A	0.0200	N/A	N/A	N/A	0.0543	0.09
AUS074	397117.0	6506521.0	97.23	10	85mm	0	-90	1	3	2	99.8	0.0254	N/A	0.0139	N/A	N/A	N/A	0.0544	0.13
AUS074	397117.0	6506521.0	97.23	10	85mm	0	-90	3	5	2	99.8	0.0223	N/A	0.0120	N/A	N/A	N/A	0.0416	0.10
AUS074	397117.0	6506521.0	97.23	10	85mm	0	-90	5	7	2	99.8	0.0215	N/A	0.0199	N/A	N/A	N/A	0.0388	0.10
AUS074	397117.0	6506521.0	97.23	10	85mm	0	-90	7	9	2	99.8	0.0224	N/A	0.0135	N/A	N/A	N/A	0.0372	0.11
AUS074	397117.0	6506521.0	97.23	10	85mm	0	-90	9	10	1	99.8	0.0202	N/A	0.0175	N/A	N/A	N/A	0.0405	0.10
AUS074	397117.0	6506521.0	97.23	10	85mm	0	-90	1	10	9	99.8	0.0226	N/A	0.0151	N/A	N/A	N/A	0.0427	0.11
AUS075	398149.0	6506502.0	79.74	10	85mm	0	-90	1	3	2	99.8	0.0169	N/A	0.0100	N/A	N/A	N/A	0.0443	0.12
AUS075	398149.0	6506502.0	79.74	10	85mm	0	-90	3	5	2	99.8	0.0242	N/A	0.0158	N/A	N/A	N/A	0.0691	0.09
AUS075	398149.0	6506502.0	79.74	10	85mm	0	-90	5	7	2	99.8	0.0191	N/A	0.0137	N/A	N/A	N/A	0.0614	0.11
AUS075	398149.0	6506502.0	79.74	10	85mm	0	-90	7	9	2	99.8	0.0195	N/A	0.0141	N/A	0.0066	N/A	0.0585	0.12
AUS075	398149.0	6506502.0	79.74	10	85mm	0	-90	9	10	1	99.8	0.0205	N/A	0.0173	N/A	N/A	N/A	0.0556	0.09
AUS075	398149.0	6506502.0	79.74	10	85mm	0	-90	1	10	9	99.8	0.0200	N/A	0.0138	N/A	0.0015	N/A	0.0580	0.11
AUS076	398347.0	6506505.0	82.66	10	85mm	0	-90	1	3	2	99.7	0.0221	N/A	0.0145	N/A	0.0045	N/A	0.0567	0.15
AUS076	398347.0	6506505.0	82.66	10	85mm	0	-90	3	5	2	99.7	0.0211	N/A	0.0143	N/A	N/A	N/A	0.0461	0.16
AUS076	398347.0	6506505.0	82.66	10	85mm	0	-90	5	7	2	99.8	0.0198	N/A	0.0121	N/A	N/A	N/A	0.0435	0.08
AUS076	398347.0	6506505.0	82.66	10	85mm	0	-90	7	9	2	99.8	0.0195	N/A	0.0120	N/A	N/A	N/A	0.0411	0.07
AUS076	398347.0	6506505.0	82.66	10	85mm	0	-90	9	10	1	99.8	0.0168	N/A	0.0119	N/A	0.0198	N/A	0.0423	0.05
AUS076	398347.0	6506505.0	82.66	10	85mm	0	-90	1	10	9	99.8	0.0202	N/A	0.0131	N/A	0.0032	N/A	0.0463	0.11
AUS077	398564.0	6506505.0	90.03	10	85mm	0	-90	1	3	2	99.8	0.0206	N/A	0.0139	N/A	N/A	N/A	0.0499	0.14
AUS077	398564.0	6506505.0	90.03	10	85mm	0	-90	3	5	2	99.8	0.0187	N/A	0.0159	N/A	0.0047	N/A	0.0518	0.08
AUS077	398564.0	6506505.0	90.03	10	85mm	0	-90	5	7	2	99.8	0.0190	N/A	0.0170	N/A	N/A	N/A	0.0458	0.06

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS077	398564.0	6506505.0	90.03	10	85mm	0	-90	7	9	2	99.9	0.0183	N/A	0.0152	N/A	N/A	N/A	0.0400	0.05
AUS077	398564.0	6506505.0	90.03	10	85mm	0	-90	9	10	1	99.8	0.0188	N/A	0.0162	N/A	N/A	N/A	0.0390	0.07
AUS077	398564.0	6506505.0	90.03	10	85mm	0	-90	1	10	9	99.8	0.0191	0	0.0156	N/A	0.0010	N/A	0.0460	0.08
AUS078	398772.0	6506503.0	88.7	10	85mm	0	-90	1	3	2	99.8	0.0214	N/A	0.0146	N/A	0.0047	N/A	0.0527	0.11
AUS078	398772.0	6506503.0	88.7	10	85mm	0	-90	3	5	2	99.8	0.0194	N/A	0.0123	N/A	N/A	N/A	0.0450	0.08
AUS078	398772.0	6506503.0	88.7	10	85mm	0	-90	5	7	2	99.8	0.0184	N/A	0.0129	N/A	N/A	N/A	0.0494	0.07
AUS078	398772.0	6506503.0	88.7	10	85mm	0	-90	7	9	2	99.8	0.0171	N/A	0.0173	N/A	N/A	N/A	0.0485	0.09
AUS078	398772.0	6506503.0	88.7	10	85mm	0	-90	9	10	1	99.8	0.0182	N/A	0.0185	N/A	0.0052	N/A	0.0513	0.06
AUS078	398772.0	6506503.0	88.7	10	85mm	0	-90	1	10	9	99.8	0.0190	N/A	0.0147	N/A	0.0016	N/A	0.0492	0.08
AUS079	398944.0	6506497.0	85.8	10	85mm	0	-90	1	3	2	99.8	0.0205	N/A	0.0148	N/A	N/A	N/A	0.0539	0.12
AUS079	398944.0	6506497.0	85.8	10	85mm	0	-90	3	5	2	99.7	0.0166	N/A	0.0110	N/A	0.0082	N/A	0.0386	0.19
AUS079	398944.0	6506497.0	85.8	10	85mm	0	-90	5	7	2	99.8	0.0201	N/A	0.0131	N/A	N/A	N/A	0.0382	0.09
AUS079	398944.0	6506497.0	85.8	10	85mm	0	-90	7	9	2	99.9	0.0179	N/A	0.0158	N/A	N/A	N/A	0.0426	0.05
AUS079	398944.0	6506497.0	85.8	10	85mm	0	-90	9	10	1	99.8	0.0187	N/A	0.0170	N/A	N/A	N/A	0.0461	0.08
AUS079	398944.0	6506497.0	85.8	10	85mm	0	-90	1	10	9	99.8	0.0188	N/A	0.0140	N/A	0.0018	N/A	0.0436	0.11
AUS080	399142.0	6506497.0	87.47	10	85mm	0	-90	1	3	2	99.7	0.0245	N/A	0.0167	N/A	0.0041	N/A	0.0519	0.19
AUS080	399142.0	6506497.0	87.47	10	85mm	0	-90	3	5	2	99.8	0.0212	N/A	0.0172	N/A	N/A	N/A	0.0501	0.11
AUS080	399142.0	6506497.0	87.47	10	85mm	0	-90	5	7	2	99.8	0.0244	N/A	0.0199	N/A	N/A	N/A	0.0530	0.08
AUS080	399142.0	6506497.0	87.47	10	85mm	0	-90	7	9	2	99.8	0.0199	N/A	0.0211	N/A	N/A	N/A	0.0491	0.05
AUS080	399142.0	6506497.0	87.47	10	85mm	0	-90	9	10	1	99.8	0.0193	N/A	0.0221	N/A	N/A	N/A	0.0605	0.05
AUS080	399142.0	6506497.0	87.47	10	85mm	0	-90	1	10	9	99.8	0.0221	N/A	0.0191	N/A	0.0009	N/A	0.0521	0.10
AUS081	399323.0	6506494.0	82.47	10	85mm	0	-90	1	3	2	99.7	0.0238	N/A	0.0127	N/A	N/A	N/A	0.0485	0.17

Hole ID	Easting	Northing	RL	Depth	Width	Azimuth	Dip	From	To	Interval	SiO2 %	AL2O3 %	CaO %	Fe2O3 %	K2O %	MgO %	Na2O %	TiO2 %	LOI %
AUS081	399323.0	6506494.0	82.47	10	85mm	0	-90	3	5	2	99.8	0.0198	N/A	0.0144	N/A	N/A	N/A	0.0525	0.07
AUS081	399323.0	6506494.0	82.47	10	85mm	0	-90	5	7	2	99.8	0.0197	N/A	0.0164	N/A	N/A	N/A	0.0549	0.08
AUS081	399323.0	6506494.0	82.47	10	85mm	0	-90	7	9	2	99.8	0.0220	N/A	0.0222	N/A	0.0043	N/A	0.0540	0.06
AUS081	399323.0	6506494.0	82.47	10	85mm	0	-90	9	10	1	99.8	0.0279	N/A	0.0274	N/A	N/A	N/A	0.0555	0.09
AUS081	399323.0	6506494.0	82.47	10	85mm	0	-90	1	10	9	99.8	0.0221	N/A	0.0176	N/A	0.0010	N/A	0.0528	0.09
AUS082	399513.0	6506493.0	75.81	9	85mm	0	-90	1	3	2	99.7	0.0227	N/A	0.0221	N/A	N/A	N/A	0.0588	0.22
AUS082	399513.0	6506493.0	75.81	9	85mm	0	-90	3	5	2	99.8	0.0198	N/A	0.0179	N/A	N/A	N/A	0.0597	0.10
AUS082	399513.0	6506493.0	75.81	9	85mm	0	-90	5	7	2	99.8	0.0180	N/A	0.0151	N/A	N/A	N/A	0.0432	0.11
AUS082	399513.0	6506493.0	75.81	9	85mm	0	-90	1	7	6	99.8	0.0202	N/A	0.0184	N/A	N/A	N/A	0.0539	0.14