

29th September 2022

Updated Resource Estimates for the Hawsons Magnetite Project, Western NSW

H&S Consultants Pty Ltd (“H&SC”) has completed updated Mineral Resource estimates for Hawsons Iron Ltd.’s (“HIO”) Hawsons Magnetite Project in western New South Wales, where the target commodity is iron ore as magnetite. The new resource estimates are based on outstanding assay data from the 2022 drilling programme that were not available for the July 2022 Mineral Resource update. The new data has comprised:

1. New downhole gyro surveys for 24 holes (736 records) and 4 diamond tails (105 records).
2. New lithology logging data for 8 diamond holes (487 records) and 18 diamond tails (2,274 records).
3. An extra 1,624 recovered magnetic fraction (“DTR”) assays for 5m sample intervals (replaced estimated grades from downhole magnetic susceptibility data).
4. An extra 2,023 DTR concentrate-XRF assays for 5m sample intervals (replaced estimated grades from downhole magnetic susceptibility data).
5. New downhole geophysical data for 4 diamond holes and 5 diamond tails.
6. A revised density dataset based exclusively on the downhole geophysics that now comprises 6,525 5m composites with levelling of some of density values.

The new data resulted in very minor changes to the geological interpretation, generally due to the new gyro data repositioning the hole from the original default downhole surveys.

The estimation methodology is the same as that used for the July 2022 Mineral Resource update (Refer July 2022 Resource Estimation Report and Table 1 Section 3 with this release). The classification methodology has remained the same.

The estimates have been reported using the 2012 JORC Code and Guidelines and the author has the requisite experience to act as a Competent Person under the code. H&SC has completed three previous resource estimates for the deposit in 2011, 2014 and 2017, plus an update to the 2017 Mineral Resource in 2021. The latest Mineral Resource update was reported to the ASX in July 2022.

The new Mineral Resource estimates are reported at a 6% DTR cut-off grade, as advised by HIO, constrained by a pit shell supplied by HIO. This pit shell went to a maximum depth of -360mRL, approximately 550m below surface. The Mineral Resources include a modest amount of transition and oxide material, approximately 9% of the total Mineral Resources.

The new Mineral Resources have not materially changed from when the Mineral Resources were reported in July 2022. Therefore under ASX listing rule 5.8 (b) it is not necessary to publicly report the new estimates.

2022 Global Mineral Resources for the Hawsons Iron Deposit

Category	Mt	DTR %	DTR Concentrate Mt	Density t/m ³
Measured	394	13.7	54	3.09
Indicated	1,576	12.0	190	3.05
Inferred	1,954	12.1	237	3.16
Total	3,924	12.3	481	3.11

(minor rounding errors)

Category	DTR Concentrate Grade						
	Fe %	SiO ₂ %	Al ₂ O ₃ %	P %	S %	TiO ₂ %	LOI %
Measured	69.4	3.0	0.23	0.006	0.002	0.05	-3.0
Indicated	68.4	3.6	0.32	0.009	0.004	0.06	-2.7
Inferred	68.0	4.1	0.34	0.009	0.004	0.06	-2.8
Total	68.3	3.8	0.32	0.008	0.004	0.06	-2.8

Comparison with the July 2022 Mineral Resource update indicates a 0.9% decrease in the size of the resource with a 0.7% decrease in DTR tonnes. The resource was accompanied by a 0.1% increase in the DTR grade with a 0.9% drop in iron concentrate grade to 68.3%. The reduction in size is most likely due to lower DTR assay grades from the newly acquired lab data especially when compared to the regression-derived estimated values used in the July 2022 estimates. Other items of note are modest increases in the silica, alumina, sulphur and titanium content of the concentrate that are directly inverse related to the slight decrease in the iron concentrate grades. This change in grades is a function of the new DTR-XRF assay data, which is consistent with the trend noted for the previous estimates.

Exploration potential for the main Hawsons deposit is defined as an Exploration Target of 0.8 to 1.2Bt with a DTR grade range of 10 to 12.5% and concentrate grade ranges of 67.5-69.5% Fe, 0.2 to 0.4% Al₂O₃, 0.007 to 0.011% P, 0.001 to 0.002% S, 3.5 to 4.8% SiO₂, 0.04 to 0.065% TiO₂ and -2.5 to -3% LOI. The Exploration Target is based on material within the supplied pit shell not included in the Mineral Resource. 90% of the Exploration Target is fresh rock with the majority of it coming from the periphery to the current Mineral Resource.

The potential quantity and grade of the Exploration Target is conceptual in nature and there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource.

Further infill drilling is required to increase the confidence of the Mineral Resources with potential for additional material to be discovered along strike and down dip around the Fold hinge area and for the SE Limb area.

Some of the issues noted previously with the drillhole database are still being investigated by HIO. These include potential calibration errors with some of the downhole geophysics in particular some of the magnetic susceptibility and density data. H&SC also note that several of geotechnical holes intersected significant mineralisation but were not sampled and assayed due to geotechnical sample requirements. It would be worthwhile to see if any material remains from the geotechnical testing that could be analysed for DTR. The downhole magnetic susceptibility data was used to generate DTR grades via regression analysis for these geotechnical holes, where the data existed.

The data in this report that relates to Mineral Resource Estimates and Exploration Targets for the Core and Fold deposits of the Hawsons Magnetite Project is based on information evaluated by Mr Simon Tear who is a Member of The Australasian Institute of Mining and Metallurgy (MAusIMM). Mr Tear has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code"). Mr Tear is a Director of H&S Consultants Pty Ltd and he consents to the inclusion in the ASX announcement of the Mineral Resources in the form and context in which they appear.

Simon Tear

Director and Consulting Geologist

H&S Consultants Pty Ltd

JORC Code, 2012 Edition – Table 1 Hawsons Magnetite Project

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> • <i>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</i> • <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> • <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i> • <i>In cases where 'industry standard' work has been done this would be relatively simple (eg '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 (eg submarine nodules) may warrant disclosure of detailed information.</i> 	<ul style="list-style-type: none"> • Samples were taken from drillholes with a mixture of: <ul style="list-style-type: none"> ○ Reverse Circulation (RC) from surface to total depth (TD). ○ RC to max drill depth and diamond tails to TD. ○ Fully cored diamond from surface (DD) to TD. • Previous drilling includes a total of 73 drillholes for 21,429.5m that occurred in two main phases in 2010 (RC & DD) and 2016 (RC). <ul style="list-style-type: none"> ○ For the 2010 RC drilling, sampling comprised 2m to 10m 3kg composite samples. ○ The 2016 sampling comprised 5m composites generating 6kg of sample. All samples were pulverized to produce 150g aliquot for X-Ray Fluorescence (XRF) and Davis Tube Recovery (DTR) analysis. ○ Diamond core sampling (predominantly NQ core) involved sawing half core samples to produce an 8m composite sample which was pulverized to produce a 150g aliquot for XRF and DTR analysis. ○ Geophysical logging was completed for a majority of holes and consisted of natural gamma, magnetic susceptibility, density and calliper readings • During the 2021-22 drilling program a further 67 holes were drilled for 25,257.97m of RC spoil and core. Full assay data sets for 63 of these drillholes were received by the cut-off date of 30th August 2022 for this Resource update. <ul style="list-style-type: none"> ○ The RC components of the drillholes were used to obtain 1m bulk samples. ○ The 1m bulk samples were sub-sampled via spear sampling into 5m composites of approximately 5kg in order to obtain manageable sample sizes for laboratory sample prep and assaying. ○ QAQC riffled samples were taken from a selection of holes across the site to verify the validity of the spear-sampling method (McMahon, 2022). See Appendix 2 in the Report on Exploration Results attached to this document. ○ Diamond core (all HQ3) were sampled by sawing the core into half and then one half into half again to give quarter core samples. These quarter core samples were used to produce 5m composite

Criteria	JORC Code explanation	Commentary
		<p>samples which were then pulverized at the laboratory to produce a 150g aliquot for XRF and DTR analysis.</p> <ul style="list-style-type: none"> • Holes were drilled as perpendicular to bedding as possible to obtain as representative samples as possible. • Geophysical logging was completed for a majority of holes presented in this data set, including logs of natural gamma, magnetic susceptibility, density and calliper data. • Consistency of sampling method was maintained. • The sampling technique is considered appropriate for a deposit type with all sampling to industry standard practice.
<p><i>Drilling techniques</i></p>	<ul style="list-style-type: none"> • <i>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</i> 	<ul style="list-style-type: none"> • The RC drilling for 2010 was carried out using a truck mounted Schramm and truck mounted KWL 1600H. Both rigs used 4.5" rods and 5.5" face bits. • PD and DD drilling was carried out using a truck mounted UDR650 using NQ2 and standard HQ diameters. Core orientation used the Ace Core orientation tool. • For the 2016 drilling (all RC drilling) truck-mounted Sandvik DE 840 (UDR1200), UDR1000 and Metzke rigs were used. All rigs used 4.5" rods with 5.5" face bits. • The RC drilling for 2021-2022 was carried out using the following truck mounted drill rigs: <ul style="list-style-type: none"> ○ Sandvik UDR 1200HC ○ Sandvik UDR 1000 ○ Both rigs used 4.5" rods and 5-5/8" face bits. • The DD drilling was carried out using a range of truck-mounted drill rigs, including: <ul style="list-style-type: none"> ○ Two x Sandvik UDR 1000 ○ Sandvik UDR 1200 ○ Bournedrill L1000THD ○ Boart Longyear KWL 1600. • All core drilled was HQ3 diameter. A range of core orientation tools were used on geotechnical core, they include: <ul style="list-style-type: none"> ○ Reflex Act III ○ Boart Longyear TruCore ○ Boart Longyear TruShot
<p><i>Drill sample recovery</i></p>	<ul style="list-style-type: none"> • <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i> • <i>Measures taken to maximise sample recovery and ensure</i> 	<ul style="list-style-type: none"> • Sample recoveries were recorded for the 2021/2022 RC program for an investigation of RC recovery versus DTR grade indicated no sampling bias of significance.

Criteria	JORC Code explanation	Commentary
	<p><i>representative nature of the samples.</i></p> <ul style="list-style-type: none"> • <i>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.</i> 	<ul style="list-style-type: none"> • Core recoveries were recorded by measuring the length of core recovered in each drill run divided by the drilled length of the individual core runs.
Logging	<ul style="list-style-type: none"> • <i>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.</i> • <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i> • <i>The total length and percentage of the relevant intersections logged.</i> 	<ul style="list-style-type: none"> • Geological logging of chips/core/rock samples is qualitative by nature. • For the 2021-22 program, every RC and DD drillhole was lithologically logged by a geologist and entered into iGloo, a tablet-based geological logging program recording; recovery, moisture, oxidation state, colour, magnetite %, hematite %, martite %, vein composition and %, gangue min, sulphide min. Data was validated against a company lithological dictionary and uploaded to a SharePoint cloud-based file storage facility. This data was then loaded into the propriety Lab-In database software system. • Geological and defect logging was completed on all core holes drilled and is considered of appropriate detail to be utilised in future studies. • RC drill chips were wet sieved from each one-meter sample and geologically logged and codes digitally recorded onsite. Washed drill chips from one-meter intervals are stored in chip trays. • Processing of drillcore included core orientation (Geotechnical and minimal resource definition core), half meter marking, magnetic susceptibility measurements (every 0.1m), core recoveries, rock quality designation (RQD). All drill core was photographed wet and dry after logging and before cutting, these images represent quantitative records. • Handheld magnetic susceptibility was recorded using a CormaGeo RT-1 Magnetic Susceptibility Meter with inbuilt data logger. Three measurements were recorded on each RC sample bag (top, middle & base), then averaged to give a single 1m quantitative measurement. • Handheld magnetic susceptibility measurements were taken at 10cm intervals along core (see the magnetic susceptibility data in the lithology log in Appendix 1, Table 3 in the Report on Exploration Results attached to this document).
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> • <i>If core, whether cut or sawn and whether quarter, half or all core taken.</i> • <i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i> • <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i> • <i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i> 	<ul style="list-style-type: none"> • The 2010 RC samples were composited using geological control via the spear sampling method of the 1m bulk sample bags. The spear method was concluded by CAP to be adequate based on the results of a handheld XRF orientation exercise. The green plastic bags were speared from a range of angles to the bottom of the bag to ensure a representative sample was produced. The compositing provided a 2m to 10m 3kg sample for laboratory analysis at ALS Labs in Perth. • The 2016 RC samples were split using a riffle splitter (no details of type

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	<ul style="list-style-type: none"> 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. 	<p>used) that produced a 1/16th split taken from the rig every metre and then composited to 5m intervals by splitting again using a 50/50 splitter to give a 6-7kg sample.</p> <ul style="list-style-type: none"> The 2010 work employed field duplicates (23 x 5m samples) using the spear sampling technique which on analysis produced acceptable results. The 2016 work had a much more comprehensive QAQC programme which included 87 field pairs (not actual duplicates unfortunately) at an insertion rate of 1 in 10, 111 lab duplicates and 39 blanks (river sand) at an insertion rate of 1 in 20, 58 2nd lab checks (Intertek Labs in Perth), pulp duplicates for XRF analysis and sample prep checks. The 2021/2022 RC samples were split using a 1/8th-7/8th riffle splitter placed under the rig cyclone every metre and then composited in 5m intervals using the spear sampling method implemented in 2010. DD core was cut perpendicular at start and end of sample interval and cut longitudinally in quarter for geochemical sampling. Where a hole is to be utilised for metallurgical work, it is drilled HQ diameter and then quartered, with a quarter core interval submitted for assay, and half core submitted for metallurgical work. Sample Prep was completed at Bureau Veritas Laboratories Adelaide Crush the sample to 100% below 3.35 mm. A 150 g sub-sample for pulverizing in a C125 ring pulveriser (record weight) – DTR SAMPLE. Initially pulverize the 150 g sample for nominal 30 seconds – the sample is unusually soft for a ferro-silicate rock. Wet screen the DTR sample at 38 micron pressure filter and dry, screen at 1 mm to de-clump and re-homogenize. Record the oversize weights – if less than approximately 20 g is oversize, stop the procedure – failure. If failure - select another 150 g DTR Sample and reduce the initial pulverization time by 5 secs, repeat until initial grind pass returns greater than approximately 20 g oversize. Once achieved retain the – 38 micron undersize. Regrind only the oversize for 4 seconds of every 5 g weight of oversize. Repeat the wet screening, drying, de-clumping & weighing stages until less than 5g above 38micron remains. Ensure the remaining < 5 g oversize is returned back into the previously retained -38 micron product. Report the times and weights for each grind pass phase.

Criteria	JORC Code explanation	Commentary
<p>Quality of assay data and laboratory tests</p>	<ul style="list-style-type: none"> <i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i> <i>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i> <i>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</i> 	<ul style="list-style-type: none"> Combine and homogenize all retained -38 micron aliquots and <5 g oversize –final pulverized product. Sub-sample the final pulverized product to give a 20 g feed sample for DTR work and a ~10 g sample for HEAD analysis via XRF fusion. The 2020/2021 work included 78 field pairs for determining field precision, 73 field halving pairs for determining field halving precision, prepared at sample number 20, 40, 70 and 90 per drillhole, 93 DTR Mags% certified reference materials (CRM's) & 133 XRF CRM's (with multi element / elemental oxide comparison) from four different CRM types inserted at sample number 25 and 75 per drillhole, 121 laboratory duplicates on Fe% for XRF (Head Samples), and 140 blank samples (washed sand) for DTR Mags% and Fe% (Head Sample) at metre 1 and 51 per drillhole. Field precision duplicates defining total precision / primary sampling error outcomes showed relative precision and bias which were acceptable compared with the limits defined for Davis Tube Recovery Magnetics% (DTR Mags%) and Head Iron % (Head Fe%). Half-field pairs defining field halving precision / primary sampling error outcomes showed relative precision and bias which were acceptable compared with the limits defined for DTR Mags% and Head Fe%. The OREAS 700 & 701 Certified Reference Materials (CRM's) defining analytical precision / analytical error outcomes showed relative precision which was acceptable compared with the limits defined for DTR Mags%. The OREAS 700 & 701 Certified Reference Materials (CRM's) defining analytical precision / analytical error outcomes showed relative precision and bias which were acceptable compared with the limits defined for Head Fe%. The OREAS 700 & 701 Certified Reference Materials (CRM's) defining analytical precision / analytical error outcomes showed relative bias which was not acceptable compared with the limits defined for DTR Mags%. The absolute bias was calculated at -0.5% for the OREAS 700 CRM, with only two outcomes for the OREAS 701 CRM being attained, but showing a similar low bias (though still within CRM limits).. That is, 0.5% lower DTR outcomes generally. The testing laboratory was made aware of this difficulty early in testing via data processing checks and maintained that the outcomes were due to the supplied OREAS 700 & 701 mass of 50 grams being lower than the DTR test mass requirement of 150 grams. Hawsons will investigate further including supplied sample mass requirements and effects for future programs.

Criteria	JORC Code explanation	Commentary
		<ul style="list-style-type: none"> • The OREAS 700, 701 & GIOP 96 CRM testing on of the Head Sample (ore) for elemental oxides and elements of SiO₂, Al₂O₃, P, S, TiO₂ and LOI (Loss on Ignition) either had precision and bias outcomes or control limits met jointly or in at least one instance. • The GIOP 118 CRM testing of the Mags Sample (concentrate) for elemental oxides and elements of SiO₂, Al₂O₃, P, S, TiO₂ and LOI (Loss on Ignition) either had precision and bias outcomes or control limits met jointly or in at least one instance. • Laboratory duplicates were tested for Head Iron (Fe%) for the measurement component (XRF measuring device) were from the same prepared sample and were found to be in accord with required analytical precision limits. • Blanks were found to be in keeping with ranges observed in the 2016 program for DTR Mags% and Head Fe%. • All sampling methods and samples sizes were deemed appropriate. •
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none"> • <i>The verification of significant intersections by either independent or alternative company personnel.</i> • <i>The use of twinned holes.</i> • <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i> • <i>Discuss any adjustment to assay data.</i> 	<ul style="list-style-type: none"> • For the 2021-22 exploration program, a file based database system was used "DataStore" which utilised import and export tools that also validated and formatted the data. Data inputs for lithology, geochemistry and geophysics were utilised. Heading checks on each file were enacted via the software and once flagged corrections made in the input forms to ensure correct allocation of outcomes. Data was verified maximum / minimum value checks, sample advice to report reconciliation, dictionary checks and text value checks. Clean validated files once available were automatically uploaded to the database.
<i>Location of data points</i>	<ul style="list-style-type: none"> • <i>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.</i> • <i>Specification of the grid system used.</i> • <i>Quality and adequacy of topographic control.</i> 	<ul style="list-style-type: none"> • For the 2010 and 2016 programs, drillhole collars were surveyed by a local accredited surveyor using a Differential GPS with accuracy to less than 1 metre. • Coordinates were supplied in GDA 94 – MGA Zone 54. H&SC used a local grid conversion which involved rotating the drilling data 320° in a clockwise direction to give an orthogonal E-W strike to the mineralisation. • Down hole surveys for the 2010 drilling were initially recorded as single shot digital displays and were then recorded using a gyroscope due to the highly magnetic nature of the deposit. All the 2016 drillholes had downhole surveys measured using a gyroscope. • It is noted that the downhole surveys in the database for the 2010 drilling consisted of 30 to 60m spaced single shot camera surveys and not the gyro data due to limitations with the gyro data as result of hole

Criteria	JORC Code explanation	Commentary
		<p>collapse and reluctance of the contractor to send the probe to the full hole depths.</p> <ul style="list-style-type: none"> • For the 2021-22 exploration program, drillhole collars were surveyed by a local accredited surveyor using ALTUS APS-3 RTK (Real Time Kinematic) GPS units in differential mode, which provided an accuracy of some 2 to 3 centimetres in horizontal and vertical measurements. • Current GDA94 coordinates of existing permanent control point HK1 at the exploration site were utilised as a basis for the surveys. • Coordinates were supplied in both GDA94 – MGA Zone 54 and GDA2020 – MGA Zone 54. HIO is now operating in GDA2020 – MGA Zone 54 and is using this as standard. • Due to the highly magnetic nature of the mineralisation, down hole surveys for the 2021-22 drilling were measured using a gyroscope where possible. • Due to hole conditions (wall cave) in 4 drillholes, a multi shot downhole camera survey was utilised because gyro surveys were not feasible. • Difficulty with getting the tool down the hole because of hole cave meant that some holes could not be logged along their entire length. • Downhole logging, including gyro surveys was not feasible in one drillhole due to poor ground conditions, handheld MagSus data was utilised as an alternative. • A 3D check plot of five holes indicated minimal deviation for the common downhole lengths between the single shot and gyro data. Hole deviation appeared to increase at significant distances but this is associated with a ‘run over’ projection of the gyro data. • Topographic control was maintained using data control points set out by an accredited local surveyor. In 2021, a LiDAR survey was conducted to better constrain the local topography. • The DGPS location methods used to determine accuracy of drillhole collars are considered appropriate.
<p><i>Data spacing and distribution</i></p>	<ul style="list-style-type: none"> • <i>Data spacing for reporting of Exploration Results.</i> • <i>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.</i> • <i>Whether sample compositing has been applied.</i> 	<ul style="list-style-type: none"> • The deposit is drilled at a nominal spacing of 200m in section and plan, and extends to 400m on the periphery of the drilled area within the proposed pitshell • In 2021-22, closer spaced drilling on approximately 100m centres was completed within the Core West area and the drill spacing was deemed adequate for the interpretation of geological and grade continuity for the stratigraphic homogeneity associated with the style of mineralization along strike. • The data spacing is deemed appropriate for Mineral Resources and their classifications. • The 2021/22 RC and DD samples were composited into 5m intervals

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Orientation of data in relation to geological structure	<ul style="list-style-type: none"> • <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> • <i>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.</i> 	<p>along the hole length.</p> <ul style="list-style-type: none"> • In the Core East and Core West portions of the deposit, angled drilling commenced at -55° dip and a hole azimuth of 040 degrees True. This was targeted to intersect geological strike and bedding dip of the sediment-hosted ore body as close to perpendicular as possible. • In the Fold portion of the deposit, the strike of the ore bedding is controlled by folding of the sedimentary sequence. The azimuth of drillholes was altered accordingly with the varying strike of the ore body, again to intersect bedding as close to right angles as possible. • Locally, holes suffered directional deviation to the east with depth. Deviation in inclination was also observed, typically causing shallowing of the drillhole and this increased with depth. The affect was more pronounced the lower part of Unit 2 more than in the upper part of Unit 3. • Drilling orientations are considered appropriate and display no bias. • The drilling dip and azimuths made it challenging to intersect the cross-cutting fault structures as the drilling was often sub-parallel to these features. One drillhole was designed to intersect the NW magnetically inferred fault. It has provided a preliminary assessment of the impact that local fault systems have on magnetite grade through zones of structural deformation and penetrative oxidation. • An Excel spreadsheet containing identified fault intersections in a number of holes has been made available to the geotechnical engineers and hydrogeologist for further design work.
Sample security	<ul style="list-style-type: none"> • <i>The measures taken to ensure sample security.</i> 	<ul style="list-style-type: none"> • All samples were bagged using industry standard UV resistant thermoplastic Samplex bags and stored on site under the supervision of an HIO representative. Samples were combined into polyweave bags and were dispatched to the HIO yard in Broken Hill on a weekly basis and were accompanied by a manifest. • The polyweave bags of samples were then loaded onto a hardwood pallet and pallet wrapped and secured to ensure no loose material could shift, these were then transported to the laboratory via a trusted freighting network company. • Chain-of-custody documentation was utilised to track the transport of all samples to the BV Adelaide laboratory.
Audits or reviews	<ul style="list-style-type: none"> • <i>The results of any audits or reviews of sampling techniques and data.</i> 	<ul style="list-style-type: none"> • An audit on sample tracking/arrival, sample preparation and analysis procedures was conducted by Wes Nichols on 01/12/2021 at the Bureau Veritas Laboratory at Wingfield in Adelaide. While the equipment and procedures were observed for XRF analysis during this

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		<p>audit visit, no samples were ready to be analysed via XRF at that date.</p> <ul style="list-style-type: none"> • The lab procedures observed were considered to be appropriate and followed the applicable standards. • Chris McMahon (McMahon Resources) completed a review of the sampling and assaying for the 2021-22 drilling program data. An excerpt from his report is included in Appendix 2 in the Report on Exploration Results attached to this document.

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <i>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.</i> <i>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.</i> 	<ul style="list-style-type: none"> The Hawsons Magnetite project is located in Western NSW, 60 km southwest of Broken Hill. The deposit is 30km from the Adelaide-Sydney railway line, a main highway and a power supply. The project is wholly owned by Hawsons Iron Ltd (HIO). HIO currently manage the project. The project area is entirely within Exploration Licences (ELs) 6979, 7208 & 7504. Hawsons is the sole tenure holder of these ELs. Licence conditions for all ELs have been met and are in good standing. An application for a Mining Lease (ML) was lodged with the NSW Trade & Investment Department in October 2013 and HIO is not aware of any impediments to obtaining a mining lease. MLA460 remains in force.
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <i>Acknowledgment and appraisal of exploration by other parties.</i> 	<ul style="list-style-type: none"> In 1960 Enterprise Exploration Company (the exploration arm of Consolidated Zinc) outlined a number of track-like exposures of Neoproterozoic magnetite ironstone (+/- hematite) which returned a maximum result of 6m at 49.1% Fe from a cross- strike channel sample. No drilling was undertaken by Enterprise. in 1984, CRAE completed five holes within EL 6979 seeking gold mineralisation in a second-order linear magnetic low. This interpreted to be a concealed, faulted iron formation within the hinge of the curvilinear Hawsons' aeromagnetic anomaly. CRAE's program failed to locate significant gold or base metal mineralisation but the drilling intersected concealed broad magnetite ironstone units interbedded with diamictite adjacent to the then untested peak of the highest amplitude segment of the Hawsons aeromagnetic anomaly. Carpentaria Resources (CAP) completed drilling programs in 2009, 2010 and 2016.
<i>Geology</i>	<ul style="list-style-type: none"> <i>Deposit type, geological setting and style of mineralisation.</i> 	<ul style="list-style-type: none"> The Hawsons Magnetite Project is situated within folded, upper greenschist facies Neoproterozoic rocks of the Adelaide Fold Belt. The Braemar Facies magnetite ironstone is the host stratigraphy and comprises a series of strike-extensive, magnetite-bearing siltstones generally with a moderate dip (circa -45°), primarily to the south west, in the core area of the deposit and this is folded around to circa 55-75° down to the west-north-west in the Fold area. The airborne magnetic data clearly indicates the magnetite siltstones as a series of parallel, high amplitude magnetic anomalies. Large areas of the Hawsons deposit stratigraphy are concealed by transported ferricrete and other

Criteria	JORC Code explanation	Commentary
		<p>younger cover. Due to weathering over the prospective horizons, the base of oxidation is estimated to average 50-80m from surface across most of the area, with some areas as shallow as 30m.</p> <ul style="list-style-type: none"> • The Hawsons project comprises a number of prospects including the Core, Fold, T-Limb, South Limb and Wonga deposits. Mineral Resources have been generated for the Core and Fold areas which are contiguous. • The depositional environment for the Braemar Iron Formation is believed to be a subsiding basin, with initial rapid subsidence related to rifting possibly in a graben setting as indicated by the occurrence of diamictites in the lower part of the sequence (Unit 2). A possible sag phase of cyclical subsidence followed with deposition of finer grained sediments with more consistent, as compared to the diamictite units, bed thicknesses, style and clast composition (Unit 3). The top of the Interbed Unit marks the transition from high (Unit 2) to lower (Unit 3) energy sediment deposition • The distribution of disseminated, inclusion-free magnetite in the Braemar Iron Formation at Hawsons is related to the composition and nature of the sedimentary beds. The idioblastic nature of the magnetite is believed to be due to one or more of a range of possible processes including in situ recrystallisation of primary detrital grains, chemical precipitation from seawater, permeation of iron-rich metamorphic fluids associated with regional greenschist metamorphism. Grain size generally ranges from 10microns to 0.2mm but tends to average around the 40microns. Sediment composition and grain size appear to be the main controlling factors of mineralisation. There is no evidence of structural control in the form of veins or veinlets coupled with the lack of a strong structural fabric • In the majority of the Core and Fold deposits the units strike southeast and dip between 45° and 65° to the southwest. The eastern part of the Fold deposit comprises a relatively tight synclinal fold structure resulting in a 90° strike rotation.
<p><i>Drill hole Information</i></p>	<ul style="list-style-type: none"> • <i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> ○ <i>easting and northing of the drill hole collar</i> ○ <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i> ○ <i>dip and azimuth of the hole</i> ○ <i>down hole length and interception depth</i> ○ <i>hole length.</i> 	<ul style="list-style-type: none"> • Appropriate tabulations of drill results are available as Excel spreadsheets and examples are included in Appendix 1 in the Report on Exploration Results attached to this document. • Because of the potential for mineralisation in the upper oxidised zone, the entire hole length was considered to be the intercept interval.

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	
Data aggregation methods	<ul style="list-style-type: none"> 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. 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. 	<ul style="list-style-type: none"> All RC samples were collected on 1m intervals Each 1m interval was carefully speared and then aggregated into 5m intervals. ¼ core samples were aggregated into 5m intervals 1cm downhole density logs were aggregated over the length of each sample that was used to determine a relationship with specific gravity. This was then extrapolated down the hole lengths to estimate gravity from geophysical logs.
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	<ul style="list-style-type: none"> Drilling is predominantly NE steeply dipping, perpendicular to the SW steeply dipping nature of sedimentary beds. Drilling is SE steeply dipping, perpendicular to the NW dipping nature of beds in the SE limb of the "Fold" zone. Mineralisation exists from the surface for the full length of drillholes and this constituted the intercept lengths. See Appendix 1, Table 1 in the Report on Exploration Results attached to this document.
Diagrams	<ul style="list-style-type: none"> Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	<ul style="list-style-type: none"> Appropriate plans and tabulations are included as an attachment.
Balanced reporting	<ul style="list-style-type: none"> Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	<ul style="list-style-type: none"> Comprehensive reporting is not practicable. Examples of data are included in the Appendices.
Other substantive exploration data	<ul style="list-style-type: none"> Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	<ul style="list-style-type: none"> A geotechnical report was furnished by Gutteridge Haskins and Davey (GHD) in 2019 titled "Carpentaria-Hawsons Iron Ore project 2017 Prefeasibility Study Geotechnical Assessment." This study was completed via a staged approach in order to progressively improve the level of Geotechnical understanding for the PFS and to identify gaps that needed to be addressed. In the 2021-2022 exploration program, Pells, Sullivan & Meynink (PSM) are undertaking the geotechnical design study for pitwall stability and to fill the gaps outlined in the GHD report. This report is not yet at hand. 11 cored holes were nominated by PSM to generate the data for geotechnical analysis that will feed into mine design. Of these holes, 3 were fully cored and the remainder were cored from depths nominated

Criteria	JORC Code explanation	Commentary
		<p>by PSM to total depth.</p> <ul style="list-style-type: none"> • A specialist PSM geotechnical geologist logged and sampled the core and the samples were transported to Trilab in Brisbane for testing. • The majority of samples were analysed for Uniaxial Compressive Strength (UCS), Young's Modulus and Poisson's Ratio. Selected samples were submitted for shear box testing. • A substantial amount of downhole geophysics data was logged throughout the 2021/2022 drilling program, comprising magnetic susceptibility, natural gamma, density and resistivity data. This has been utilised to define the magnetic (and density related) stratigraphy that is coincident with a chronostratigraphic interpretation. Sonic velocity and acoustic televiewer data was also collected to aid in structural interpretation necessary for pit wall stability investigation. • Acoustic Televiewer (ATV) logs were run for holes where hole cave and other geological conditions did not compromise logging. • Analysis of geotechnical results/findings is in progress and the results will be reported when they come to hand. • PSM performed a preliminary desktop study on terrain assessment in December 2021 and then proposed a geotechnical test pitting program to cater for construction of civil infrastructure. Several of these test pits have been cleared for excavation works and sampling and this program is expected to proceed in the second half of 2022.
<i>Further work</i>	<ul style="list-style-type: none"> • <i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> • <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i> 	<ul style="list-style-type: none"> • Drilling in the 2022-23 period is being considered to determine extents of the ore body outside of the current main drilling pattern. • Geophysical surveys are being considered to help identify structural features and the lateral extents of the mineralized zone. • Sterilisation holes are being planned to positively identify that ore potential doesn't exist under planned infrastructure. • Test pits have been planned to determine the geomechanical properties of the surface material to determine what is required to support infrastructure.

Section 3 Estimation and Reporting of Mineral Resources

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

Criteria	JORC Code explanation	Commentary
<i>Database integrity</i>	<ul style="list-style-type: none"> • <i>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection</i> 	<ul style="list-style-type: none"> • Independently customised 2016 Access database by GR-FX Pty Ltd for CAP was supplied to H&S Consultants (H&SC).

Criteria	JORC Code explanation	Commentary
	<p><i>and its use for Mineral Resource estimation purposes.</i></p> <ul style="list-style-type: none"> <i>Data validation procedures used.</i> 	<ul style="list-style-type: none"> • Validation of CAP database was undertaken by Keith Hannan of Geochem Pacific Pty Ltd, an independent consultant. Additional validation completed by H&SC in 2017. • Database for new HIO data was compiled by independent database manager Chris McMahon of McMahon Resources. An Excel based database system (DataStore) was used by HIO which utilised import and export tools that also validated and formatted the data. Data inputs for lithology, geochemistry and geophysics were utilised. Heading checks on each file were enacted via the software and once flagged corrections made in the input forms to ensure correct allocation of outcomes. Data was verified maximum / minimum value checks, sample advice to report reconciliation, dictionary checks and text value checks. Clean validated files once available were automatically uploaded to the database. • H&SC completed some independent validation of the new data to ensure the drill hole database is internally consistent. Validation included checking that no assays, density measurements or geological logs occur beyond the end of hole and that all drilled intervals have been geologically logged (not the case). The minimum and maximum values of assays and density measurements were checked to ensure values are within expected ranges (some density and magnetic susceptibility data was suspect). Further checks include testing for duplicate samples and overlapping sampling or logging intervals • H&SC takes responsibility for the accuracy and reliability of the CAP data used in the Mineral Resource estimates. • HIO takes responsibility for the accuracy and reliability of the HIO data used in the Mineral Resource estimates. • H&SC created a local E-W orthogonal grid for all interpretation and modelling work. • The deadline date for HIO to report the Mineral Resources meant that a significant amount of data for the new drilling was not available. This will be addressed in an updated Mineral Resource estimate in September 2022.
<p><i>Site visits</i></p>	<ul style="list-style-type: none"> <i>Comment on any site visits undertaken by the Competent Person and the outcome of those visits.</i> <i>If no site visits have been undertaken indicate why this is the case.</i> 	<ul style="list-style-type: none"> • Regular site visits were completed by HIO's Competent Person for Exploration Results throughout the 2020/2021 exploration program. • Regular site visits were completed by CAP's Competent Person for Exploration Results for the period 2009 to 2017. • A site visit was undertaken in 2012 by Simon Tear of H&SC, Competent Person for the CAP Exploration Results and the reporting of the new Mineral Resources. The visit included geological logging of diamond

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<p><i>Geological interpretation</i></p>	<ul style="list-style-type: none"> • <i>Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.</i> • <i>Nature of the data used and of any assumptions made.</i> • <i>The effect, if any, of alternative interpretations on Mineral Resource estimation.</i> • <i>The use of geology in guiding and controlling Mineral Resource estimation.</i> • <i>The factors affecting continuity both of grade and geology.</i> 	<p>drillhole DD10BRP023 covering over 500m of stratigraphy and an inspection of drill sites and outcropping mineralisation.</p> <ul style="list-style-type: none"> • The broad geological interpretation of the Hawsons deposit is relatively straightforward and reasonably well constrained by drilling and the high amplitude airborne and ground magnetic anomalies. • The mineralisation is stratabound as disseminated grains of magnetite associated with interstitial porosity of the clastic sediments with no obvious structural remobilisation or overprint. Mineralisation exhibits relatively poor downhole continuity with zones of variable magnetite grade (a function of the clastic grain size and composition) but in most instances the contacts between higher and lower grade mineralisation are gradational and precludes the use of hard boundaries as stratigraphic controls to mineral grade interpolation. • The downhole geophysical data, gamma and magnetic susceptibility, has been used in conjunction with DTR recovered magnetic fraction grades to produce a detailed geological interpretation and to the generation of a set of 3D wireframes representing variously mineralised units that provide a stratigraphic framework to the deposit. • The consistency of the geophysical patterns for the sediments provides for a high level of confidence in the stratigraphic interpretation. • Two main cross faults, possibly a conjugate pair, have been interpreted and are believed to have caused small offsets in the mineral-bearing stratigraphy. The faults have been used to delineate three structural domains. The exact orientation of the faults is unknown with the interpretation based on magnetic anomaly discontinuities. • H&SC used the geological logs of the drill holes to create a wireframe surface representing the base of colluvium. • H&SC also used the geological logs of the drill holes to create wireframe surfaces representing the base of complete oxidation (BOCO) and the top of fresh rock (TOFR). The new drilling has indicated that magnetite mineralisation can extend up into the oxide/transition zones as remnant mineralisation. As a result the Cover, BOCO and TOFR surfaces were not treated as hard boundaries in the grade interpolation. • Any additional faulting in the deposit is assumed to be insignificant relative to the resource estimation. • H&SC is aware that alternative interpretations of the mineralised zones and faults are possible but consider the wireframes to adequately approximate the locations of the mineralised zones for the purposes of resource estimation. Alternative interpretations may have a limited

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<i>Dimensions</i>	<ul style="list-style-type: none"> <i>The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.</i> 	<p>impact on the resource estimates.</p> <ul style="list-style-type: none"> The Mineral Resources have a strike length of around 3.3km in a south easterly direction. The plan width of the resource varies from 700m to 1.9km with an average of around 1.1km (noting the relatively moderate dip angle of the beds). The upper limit of the mineralisation is exposed in the SE of the deposit with the fresh rock generally occurring between 25 and 80m below surface (average 65m) and the lower limit of the Mineral Resource extends to an approximate depth of 550m below surface (-360mRL). The lower limit to the Mineral Resource is a direct function of the depth limitations to the drilling in conjunction with the search parameters. The mineralisation is open at depth and to the south beyond the Fold area (Limb).
<i>Estimation and modelling techniques</i>	<ul style="list-style-type: none"> <i>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</i> <i>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</i> <i>The assumptions made regarding recovery of by-products.</i> <i>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</i> <i>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</i> <i>Any assumptions behind modelling of selective mining units.</i> <i>Any assumptions about correlation between variables.</i> <i>Description of how the geological interpretation was used to control the resource estimates.</i> <i>Discussion of basis for using or not using grade cutting or capping.</i> <i>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</i> 	<ul style="list-style-type: none"> The drilling data was transposed to an E-W orthogonal local grid to facilitate geological interpretation and grade interpolation. Ordinary Kriging with multiple search domains was used to complete the estimation using H&SC's in-house GS3M modelling software. The geological interpretation and block model creation and validation was completed in the Surpac mining software. H&SC considers Ordinary Kriging to be an appropriate estimation technique for the type of mineralisation and extent of data available from the Core and Fold prospects. All data have low coefficients of variation, generally <1. Two main cross faults have been interpreted to have caused small offsets in the mineral-bearing stratigraphy. These faults were treated as hard boundaries during estimation allowing for the creation of 3 structural domains so that data from within a particular fault block were only used to estimate blocks in that fault block. Regression equations via Conditional Expectation, based on downhole surveyed magnetic susceptibility data were used to estimate missing DTR values for the different structural domains, company drilling campaigns and levels of oxidation. Regression equations based on the handheld magnetic susceptibility data was used to estimate the DTR values where downhole magnetic susceptibility was not available. Missing Fe concentrate grades were calculated using regression equations based on the DTR grades for the structural domains, different companies and oxidation levels and the remaining concentrate elements were calculated using regressions based on the iron concentrate grade. The use of regression equations has been historically a small part of the Hawsons project and while not ideal the subsequent drilling has indicated no immediate issue with the use of

Criteria	JORC Code explanation	Commentary
		<p>generated estimated values for DTR and DTR concentrates in the Mineral Resources.</p> <ul style="list-style-type: none"> • A total of 8,918 unconstrained 5m composites, including residuals, were generated from the drillhole database and modelled for Davis Tube recovered magnetic fraction (“DTR”) and the concentrate elements of Fe, Al₂O₃, P, S, SiO₂, TiO₂ and LOI. • Grade interpolation was unconstrained, except by the search parameters and the variography, due to the gradational nature to changes in sediment composition and grain size of the host sediments. Comparison of block grades with the interpretation of stratigraphic sub-units showed a good match with the block grades except in the basal stratigraphy where there was a notable lack of drilling control i.e. around mineralised Unit 1. • In prior estimates the TOFR surface was found to coincide with a marked difference in density and DTR but the hardness of the boundary has softened with the new drilling (and substantially more oxide/transition data) such that the surface was not treated as a hard boundary for density or DTR grade interpolation. • The cover data was used in the grade interpolation to act as a buffer to the oxide/transition data. No modelled data was loaded into the cover zone in the block model. • No recovery of any by-products has been considered in the resource estimates as no products beyond iron are considered to exist in economic concentrations. • No top-cutting was applied as extreme values were not present and top-cutting was considered by H&SC to be unnecessary. • No check estimate was carried out though the estimates were in line with previous estimates. Hellman & Schofield, the predecessor to H&SC, estimated the Mineral Resources for Hawsons in 2010 and updated in 2011. The resource estimates were further updated in 2013 by H&SC following an in-depth analysis and interpretation of downhole geophysical data resulting in the delineation of Indicated Resources. The 2017 Mineral Resources showed a modest increase in size at the same grade. but contained considerably more Indicated Resource due to extra drilling. The extra Mineral Resources were primarily from peripheral areas in the Core and the Fold areas. The marked lowering of the cut off grade used for reporting the 2021 Mineral Resources had resulted in a substantial increase in size with a nominal 10% drop in DTR grade. The new updated estimates (2022) show a modest increase in size with a modest drop in DTR grade. The major changes are the appearance of Measured Resources and a significant increase

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		<p>in the amount of Indicated Resources, all in line with the expectations for the infill drilling completed in 2021/22.</p> <ul style="list-style-type: none"> • Block dimensions are 50m x 25m x 10m (Local E, N, RL respectively) with no sub-blocking. The east dimension was chosen as it is around half to a third of the nominal drillhole distances in the detailed drilled area of structural Domain 1. The north dimension was chosen partly on the drillhole spacing but also taking into account the geometry of the mineralisation with its moderately grid south-dipping stratigraphy. The vertical dimension was chosen to reflect the sample spacing and possible mining bench heights and to allow for flexibility in potential mining scenarios. • All elements were modelled as a combined dataset for each structural domain as each had the same number of composites for that domain and all values were inter-related. Six search passes were employed with progressively larger radii or decreasing search criteria. The Pass 1 used radii of 150x150x25m, Passes 2 and 3 used 300x300x50m, the fourth pass used 400x400x75m (along strike, down dip and across mineralisation respectively). The first and second passes required a maximum of 24 data and a minimum of 12 data points from 4 octants whereas the third and fourth passes required a minimum of 6 data points from at least 2 octants. A fifth and sixth search pass (for exploration potential) used search dimensions of 600m by 600m by 112.5m with 6 and 3 minimum data respectively and 2 octants. • The maximum extrapolation for the Mineral Resources was in the order of 300m down dip and 400m along strike to the SW and 100m along strike to the NW. The rollover zone in the NW of the deposit was limited to 400m of extrapolation. The across strike and dip extent was 75m. • The new block model was reviewed visually by H&SC and it was concluded that the block model fairly represents the grades observed in the drill holes. H&SC also validated the block model using a variety of summary statistics and cumulative frequency plots. No issues were noted.
<i>Moisture</i>	<ul style="list-style-type: none"> • <i>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</i> 	<ul style="list-style-type: none"> • Tonnages of the Mineral Resources are estimated on a dry weight basis.
<i>Cut-off parameters</i>	<ul style="list-style-type: none"> • <i>The basis of the adopted cut-off grade(s) or quality parameters applied.</i> 	<ul style="list-style-type: none"> • The resources are reported at a cut-off of 6% DTR based on the outcome of a recently completed pit optimisation study by independent consultants KPS Innovation of Brisbane. All oxidation levels were included in the Mineral Resources except the cover sequence.

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		<ul style="list-style-type: none"> • A pit shell created by KPS was used to constrain the resource estimates; no other wireframe constraint was used. This pit had a base at -360mRL. • The cut-off grade at which the resource is quoted reflects the intended bulk-mining approach.
<p><i>Mining factors or assumptions</i></p>	<ul style="list-style-type: none"> • <i>Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.</i> 	<ul style="list-style-type: none"> • The Mineral Resources were estimated on the assumption that the material is to be mined by open pit using a bulk mining method. • Minimum mining dimensions are envisioned to be around 25m x 10m x 10m (strike, across strike, vertical respectively). The block size is significantly larger than the likely minimum mining dimensions. • The resource estimation includes internal mining dilution. • The proposed mining method would use a combination of In-Pit crushing and conveying as well as truck and shovel operations • Mine design and production is targeting production of a 69% iron product at 20Mtpa.
<p><i>Metallurgical factors or assumptions</i></p>	<ul style="list-style-type: none"> • <i>The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.</i> 	<ul style="list-style-type: none"> • The idiomorphic nature of the magnetite lends itself to relatively easy liberation. • The ROM material is considered relatively soft for a magnetite deposit with a bond work index much lower than typical Banded Iron Formation deposits. • Liberation of the magnetite grains is a function of crushing to fine size. Tests have been conducted that show crushing the ore to -38 microns gives a P80 of 25 microns. • XRF analysis from metallurgical testwork on the recovered magnetic fraction shows that a 69-70% iron product is feasible. Liberation of the magnetite grains is a function of crushing to fine size. Tests have been conducted that show crushing the ore to -38 microns gives a P80 of 25 microns. • Design of a processing plant is underway and is being undertaken by Stantec in cooperation with Worley who are providing expert metallurgical advice.
<p><i>Environmental factors or assumptions</i></p>	<ul style="list-style-type: none"> • <i>Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with</i> 	<ul style="list-style-type: none"> • The deposit lies within flat, open country typical of Western NSW. • Predominantly scrub vegetation that allows for sheep grazing. • There are large flat areas for waste and tailings disposal. • Small number of creeks with only seasonal flows. • The host sediments have relatively low sulphur contents, generally <<0.5% pyrite • Baseline data collection of a variety of environmental parameters is in progress e.g. dust monitoring, surface water, weather records • SLR Consulting have been commissioned to complete a Review of Environmental Factors for the site. The draft report is imminent and the

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	<p><i>an explanation of the environmental assumptions made.</i></p>	<p>work that has been conducted to date indicates that there are no significant impediments to mining.</p> <ul style="list-style-type: none"> The preliminary environmental assessments conducted on the mine site showed there are no significant impediments to the development of a mine, subsequently the NSW government released the SEAR's for the project to progress to the development assessment phase. There are reasonable prospects of eventual economic extraction of the Resource.
<p><i>Bulk density</i></p>	<ul style="list-style-type: none"> <i>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</i> <i>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</i> <i>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</i> 	<ul style="list-style-type: none"> The short-spaced density (SSD) data from the downhole geophysics was used for the density of the Mineral Resources. Data consisted of averaged 1cm data points for 10cm intervals. The CAP SSD data was collected using a FDS50 down hole tool containing a 3500CO radioactive source. The HIO SSD data was collected using a Robertson Geo Sidewall Density with BRD and Temperature, (Part No I002016) down hole tool containing an iOS Cs137 125 milli-curie radioactive source. The CAP data had a correction factor of +5.2% applied based on comparative testwork completed on 194 10-15cm NQ core samples using the immersion-in-water weight in air/weight in water (Archimedes) method. The HIO data had a correction factor of +4.94% applied based on testwork completed on 166 10 to 15cm HQ core samples using the immersion-in-water weight in air/weight in water (Archimedes) method. No moisture determinations were made. The siltstones show no vughs and porosity as observed from polished and thin section work is occluded. There is no characteristic alteration associated with the mineralisation. The density data was composited to 5m prior to modelling. Missing values were generated from regression equations derived in 2017 from Fe head assays for fresh rock and oxide/transition zones. Any remaining missing data had default grades inserted relevant to the oxidation level. A total 8918 5m composite samples were used. The density at Hawsons was estimated using Ordinary Kriging in the same manner to the methodology used for the DTR grades.
<p><i>Classification</i></p>	<ul style="list-style-type: none"> <i>The basis for the classification of the Mineral Resources into varying confidence categories.</i> <i>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</i> <i>Whether the result appropriately reflects the Competent Person's</i> 	<ul style="list-style-type: none"> The classification of the resource estimates is based on the data point distribution which is a function of the drillhole spacing. The 100m spaced infill drilling in Domain 1 has indicated much improved grade continuity as demonstrated by the variogram maps; 60-70% of the variance between samples occurs within a 100-120m range. This forms the basis for Measured Resources.

Criteria	JORC Code explanation	Commentary
	<p><i>view of the deposit.</i></p>	<ul style="list-style-type: none"> • Other aspects have been considered in the classification including, the style of mineralisation, the geological model, sampling method and recovery, missing data and estimated grades, coherency of the downhole geophysics including density, the QAQC programme and results and comparison with previous resource estimates. • The initial pass categories were reviewed and in 4 specific areas Pass 1 blocks occurred in clusters, due to closer spaced drilling (circa 100m), that were delineated using Defined Shapes to retain the Pass 1 category as Measured Resource. Elsewhere more isolated Pass 1 blocks and all Pass 2 blocks were classed as Indicated Resource (removal of the 'spotted dog' effect) and Passes 3 and 4 were classed as Inferred Resources. • A 2017 detailed sedimentological review using gamma and magnetic susceptibility downhole data had demonstrated strong stratigraphic continuity of the DTR grades with the sediment packages. Current resource reporting deadline did not allow time for updating the interpretation. • H&SC believes the confidence in tonnage and grade estimates, the continuity of geology and grade, and the distribution of the data reflect Measured, Indicated and Inferred categorisation. The estimates appropriately reflect the Competent Person's view of the deposit. H&SC has assessed the reliability of the input data and takes responsibility for the accuracy and reliability of the CAP data used to estimate the Mineral Resources. HIO takes responsibility for the recent 2021/2022 drilling data used to estimate the Mineral Resources.
<p><i>Audits or reviews</i></p>	<ul style="list-style-type: none"> • <i>The results of any audits or reviews of Mineral Resource estimates.</i> 	<ul style="list-style-type: none"> • The estimation procedure was reviewed as part of an internal H&SC peer review. • Mining Associates Limited ("MA") completed a technical review in 2016 on the 2014 Indicated and Inferred Resources. MA concluded that the model is a good global representation of the magnetite resource and considers Ordinary Kriging to be an appropriate estimating technique for the type of mineralisation with very low coefficients of variation. • In a follow up report in 2020 MA concluded that for the 2017 Mineral Resources: "Following [a] review of the geology, MRE and Reserve, MA does not consider the current approach to the geology model and MRE suitable. A much higher level of detail needs to be incorporated into the Geological Model and MRE" and strongly proposed its own methodology of using implicit modelling "with much smaller blocks" incorporating upwards of 20+ stratigraphic boundaries, as being more suitable.

Criteria	JORC Code explanation	Commentary
<p><i>Discussion of relative accuracy/confidence</i></p>	<ul style="list-style-type: none"> • <i>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</i> • <i>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</i> • <i>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</i> 	<ul style="list-style-type: none"> • Behre Dolbear Australia (“BDA”) completed a technical review for CAP in 2010 based on a GHD study. BDA considered that the broad geology and geological controls on mineralisation, the sampling methodology and the geological database were generally adequately defined for estimation of Inferred [2010] Resources. • No statistical or geostatistical procedures were used to quantify the relative accuracy of the resource. The global Mineral Resource estimates of the Hawsons deposit are moderately sensitive to higher cut-off grades but does not vary significantly at lower cut-offs. • The relative accuracy and confidence level in the Mineral Resource estimates are considered to be in line with the generally accepted accuracy and confidence of the nominated Mineral Resource categories. This has been determined on a qualitative, rather than quantitative, basis, and is based on the Competent Person’s experience with similar deposits and geology. • The Mineral Resource estimates are considered to be accurate globally, but there is some uncertainty in the local estimates due to the current drillhole spacing, a lack of geological definition in certain places eg fault zones. • No mining of the deposit has taken place, so no production data is available for comparison.

Hawsons Iron Exploration Results 2021-22 Program

Report Date: 28/09/2022

This report outlines the sampling techniques used and data taken at Hawsons Magnetite Project in western New South Wales (NSW). It also covers the reporting of exploration results for the 2021-22 exploration drilling program.

Location

The Hawsons magnetite project is about 60km south-west of Broken Hill in western NSW (see Figure 1). The deposit is 30km from the Adelaide-Sydney railway line, a main highway and a power supply.

Terrain is generally flat and the red soil ground surface is covered in short shrubby vegetation (mainly salt bush & blue bush). It is approximately 1.5 hours drive to the site from Broken Hill. The project area lies within the Hawsons Exploration Licence areas EL6979, EL7208 and EL7504.

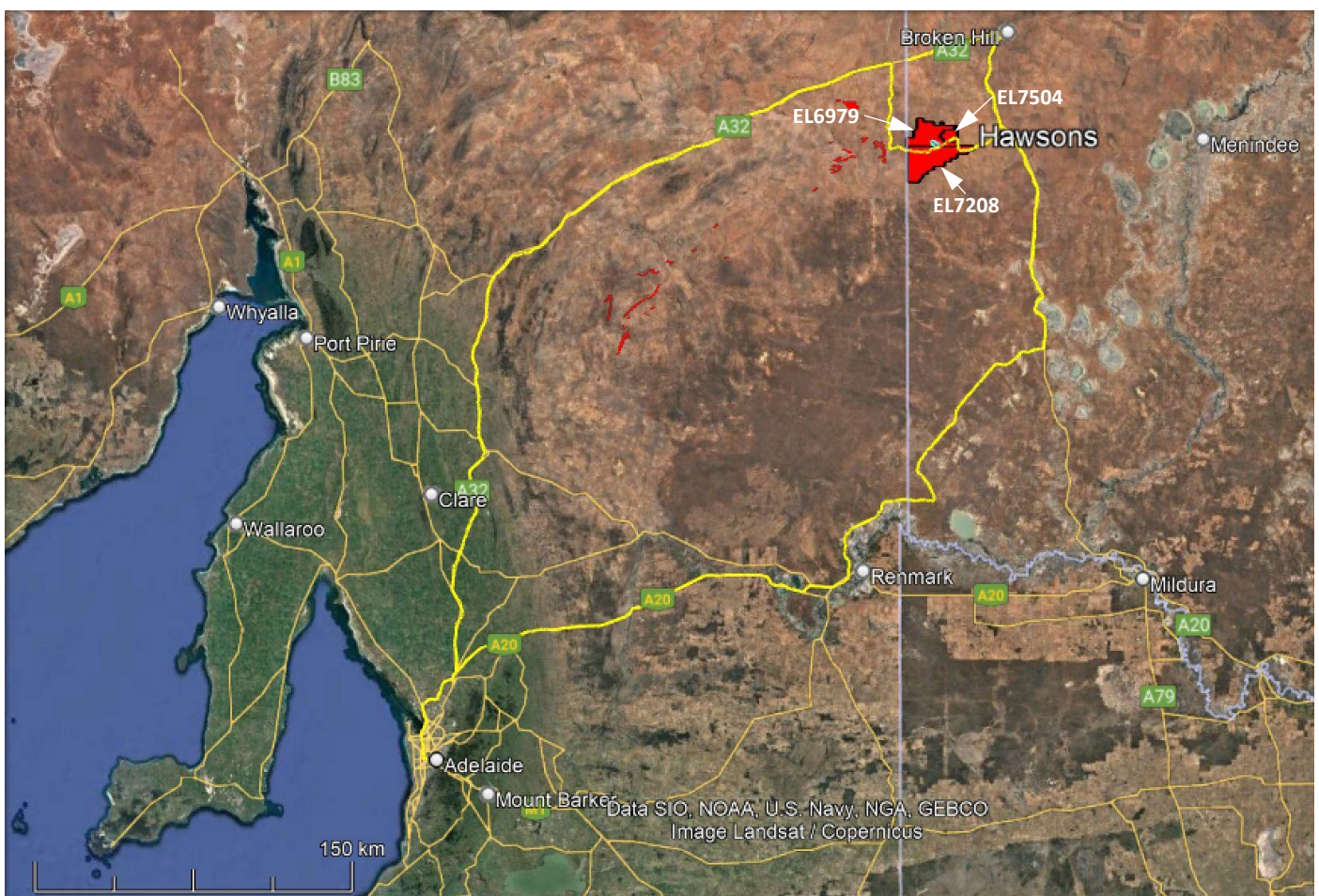


Figure 1: Hawsons magnetite project location and Exploration Licences.

Figures 2a-2d show the location of holes drilled in the 2021-22 exploration program. Table 1 in the Appendix provides information on collar, depth, orientation and other locational data. Table 2 shows the data that was available for modelling as at 15/06/2022.

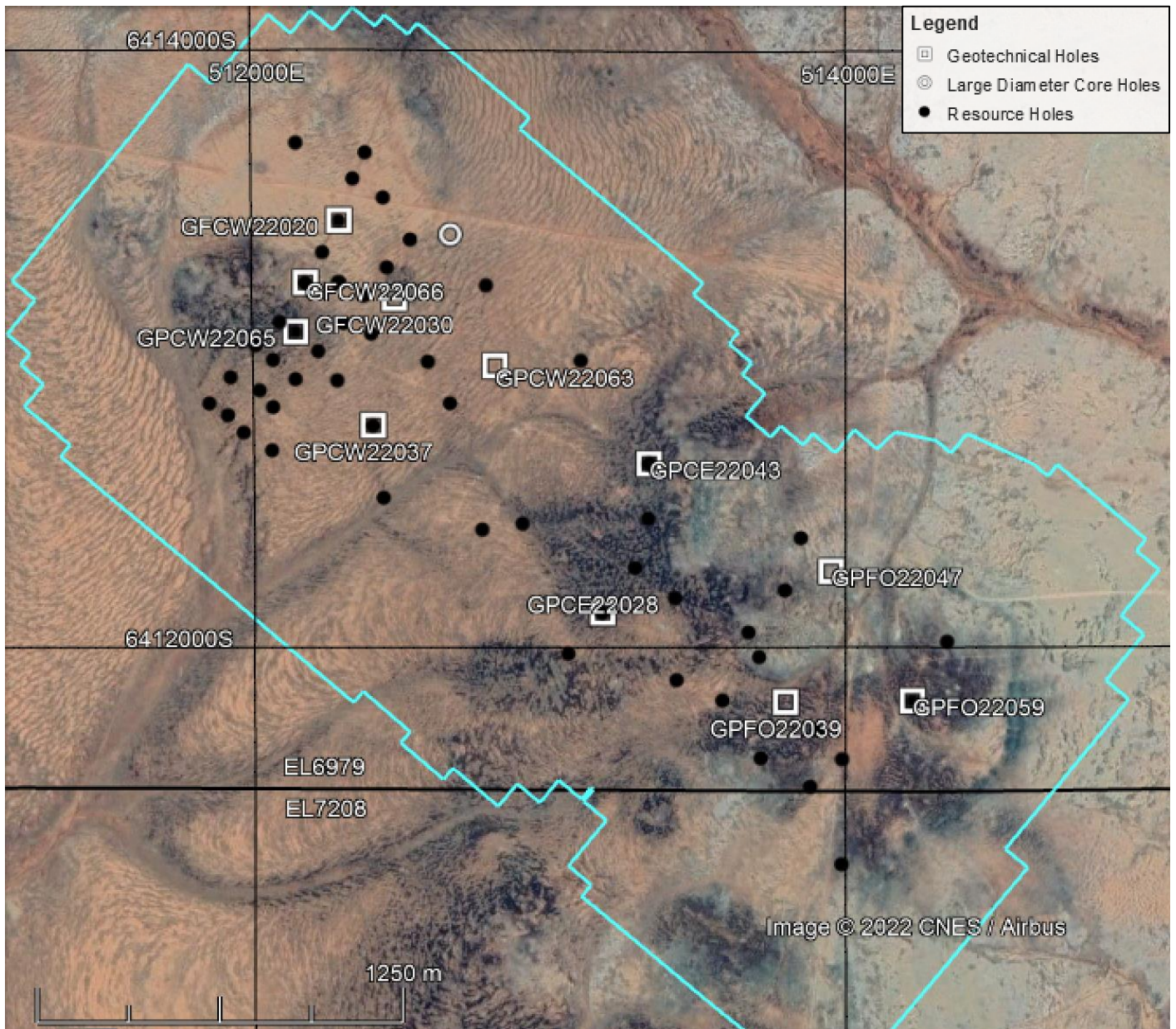


Figure 2a: 2021-22 exploration program drilling showing all holes (geotechnical drillholes numbered).

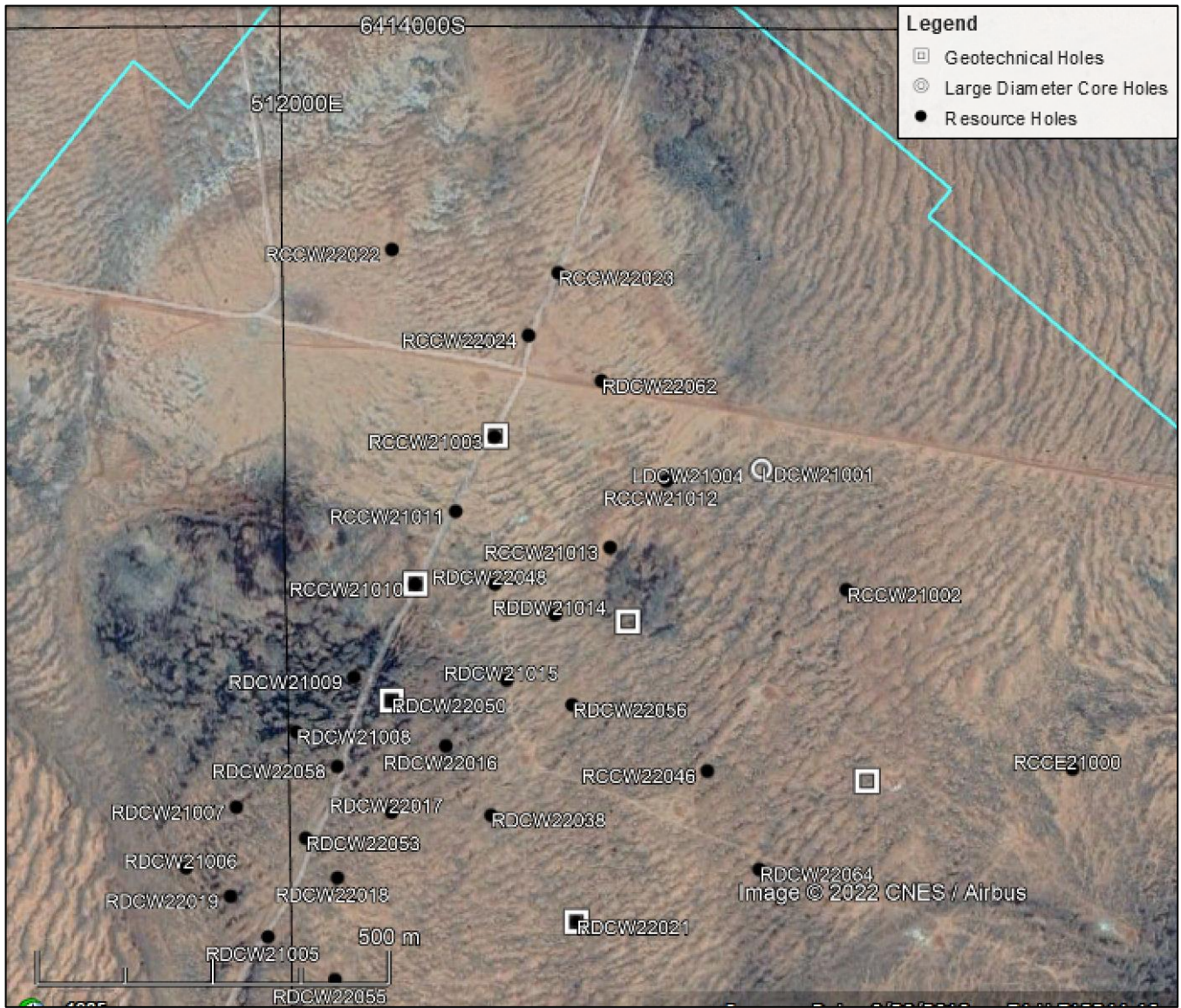


Figure 2b: 2021-22 exploration program drilling showing resource drillholes (Core West).

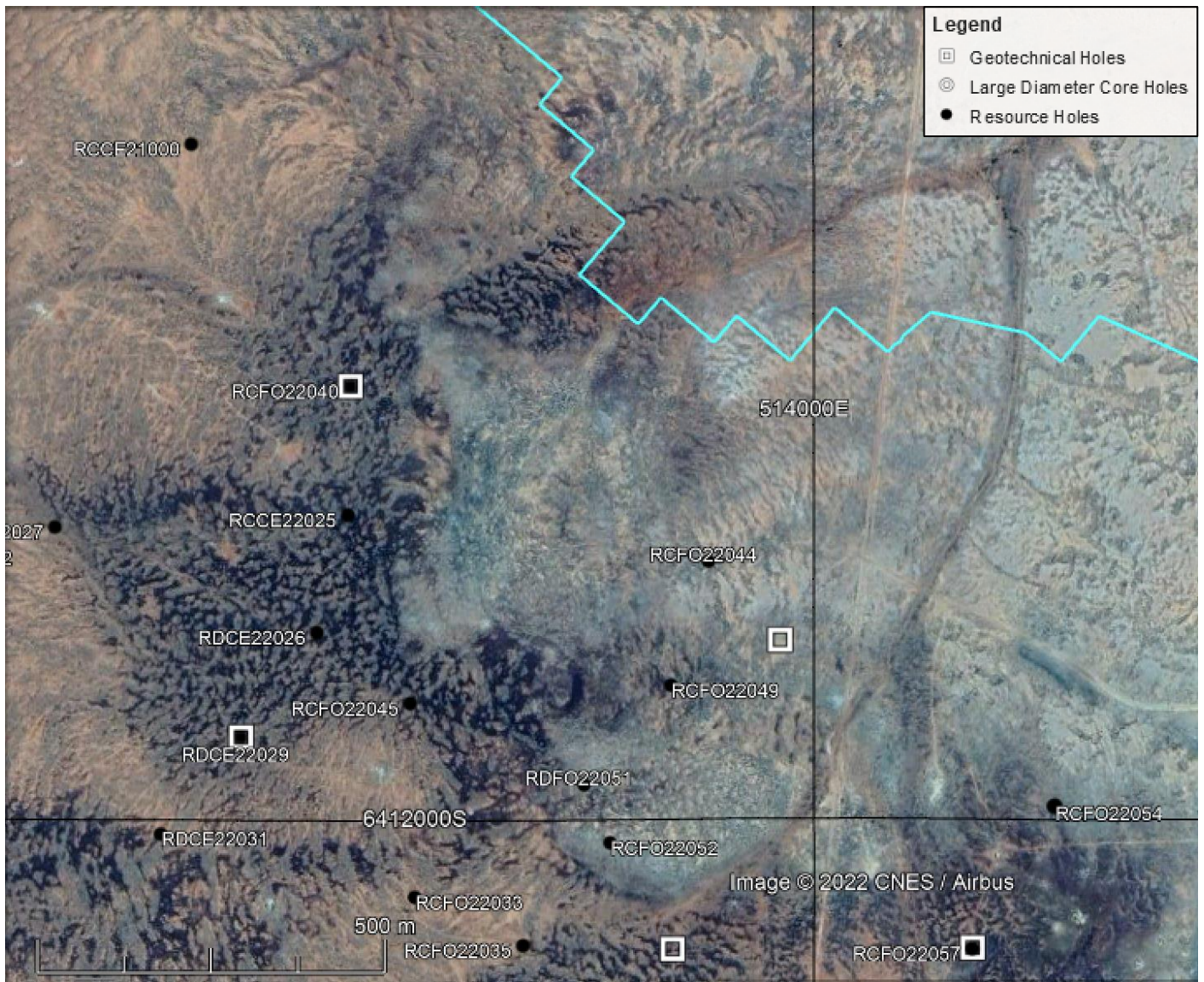


Figure 2c: 2021-22 exploration program drilling showing resource drillholes (Core East/Fold).

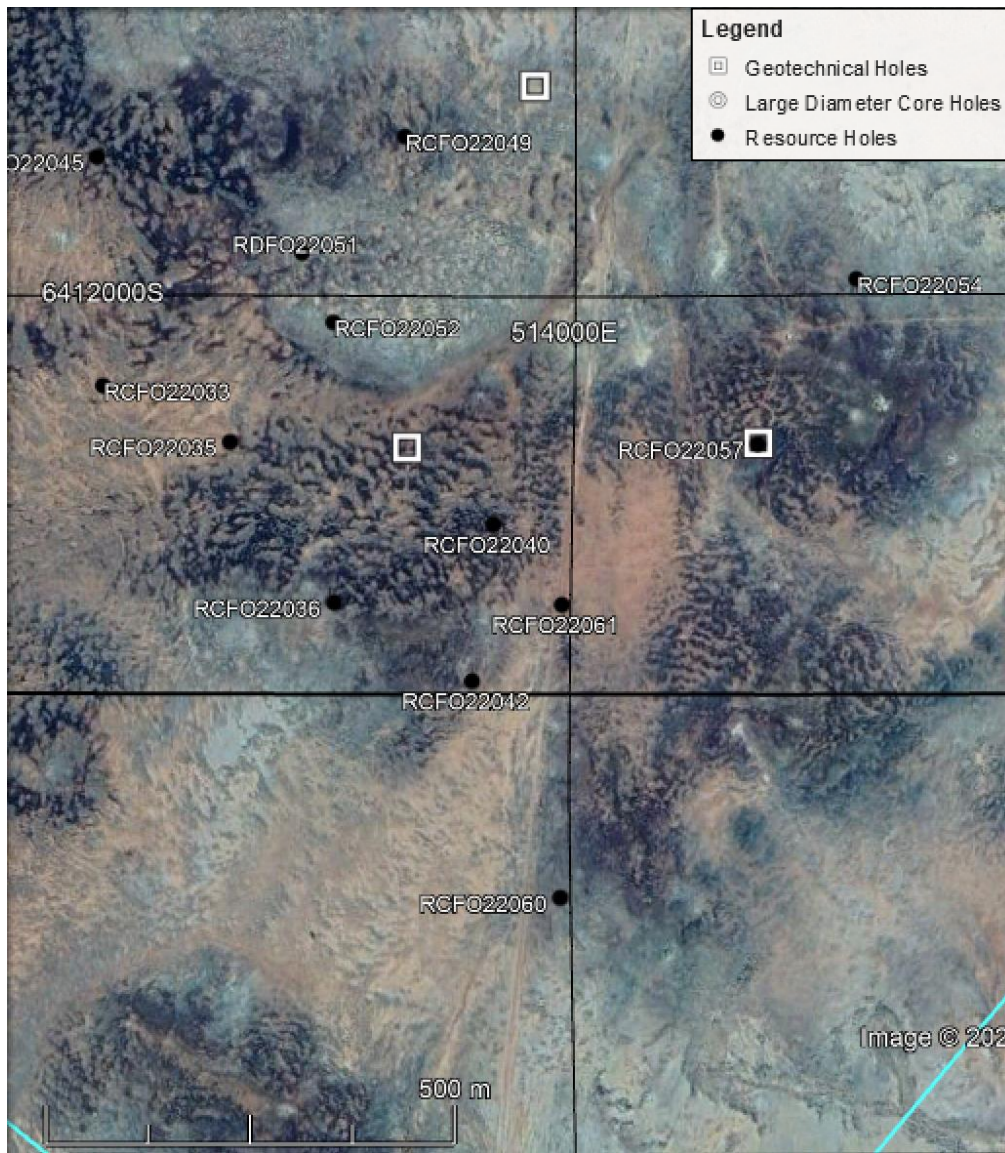


Figure 2d: 2021-22 exploration program drilling showing resource drillholes (Fold).

Brief Geology

The 2021-22 drilling was conducted as an infill program to increase the borehole density (i.e. reduce the hole spacing) across the proposed mine pitshell area. As such there has been no change to the geology as reported in previous announcements.

The Hawsons deposit lies in Neoproterozoic sedimentary basement rocks of the Adelaide Fold Belt. Specifically, it is within the Yudnamutana Sub-Group (750 -700) Ma at the base of the Umbertana Group and contains diamictite & calcareous siltstones (tillites), quartz sandstones, dolomite and magnetite & hematite rich units of the Braemar Ironstone Facies.

Mineralisation comprises bands of variable thickness of disseminated, idiomorphic magnetite in low metamorphic grade fine grained siliciclastics and diamictites. Siliciclastic grain size tends to provide a strong control to mineralisation. Substantial regional deformation has occurred but, locally, the main mineral units are relatively straight forward moderately dipping units.

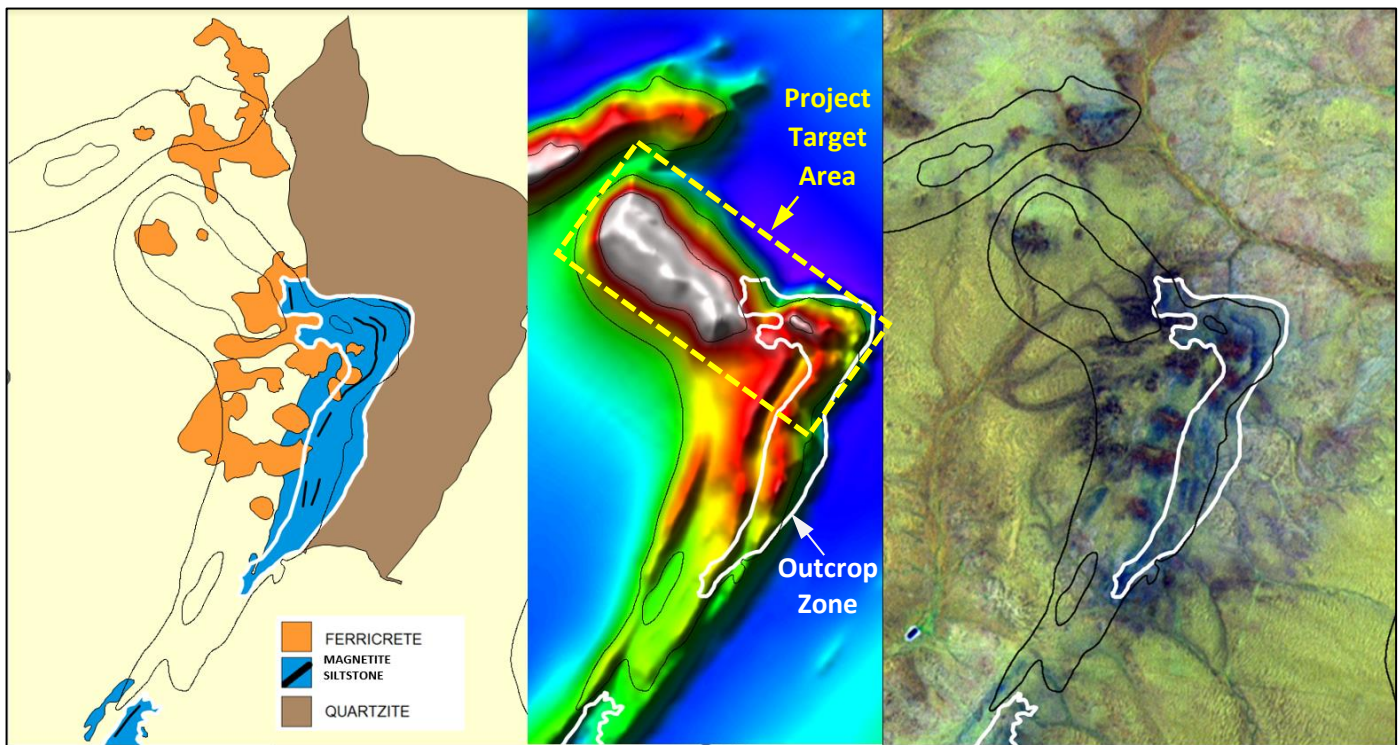


Figure 3: Surface geology, magnetic anomaly signature and Aster image (source: Donohue, 2012)

The Hawsons magnetic anomaly represents a SW plunging syncline and this anomaly defines the target mineralisation. Steeply-dipping magnetite siltstone outcrop is limited to the area bounded by the white polygon. The yellow polygon outlines the target mineralised zone (Figure 3). The north-western portion of the project target area is under cover.

Brief Drilling Summary

Carpentaria Resources (CAP) Drilling Summary

Sampling consisted of drillholes with a mixture of reverse circulation (RC) from surface, diamond tails to RC pre-collars (PD) and diamond from surface (DD). A total of 73 drillholes for 21,429.5m, were drilled by CAP in two main phases i.e. 2010 (RC & DD) and 2016 (RC). RC drillholes were drilled to obtain 1m bulk samples with sample compositing (various lengths under geological control) via spear sampling applied in order to obtain manageable sample sizes for laboratory sample prep and assaying. For the 2010 RC drilling, sampling comprised 2m to 10m 3kg composite samples. The 2016 sampling comprised 5m composites. Geophysical logging was completed for a majority of holes and consisted of natural gamma, magnetic susceptibility, density and calliper readings. The sampling techniques are considered appropriate for the deposit type with all sampling to industry standard practices. No recoveries available for the RC drilling (a minimal number of wet samples) but very good recoveries were noted for the DD. Hole twinning suggested no grade issues with the RC drilling. Logging used a mixture of qualitative and quantitative codes.

All relevant intersections were logged with the geological logging of sufficient detail to allow the creation of a geological model. All RC sample metres were sub-sampled, sieved, washed and stored in a labelled plastic chip tray. All remaining drill core after sampling was stored in labelled plastic core trays and subsequently stored at the company's offices in Broken Hill.

The 2010 RC samples were composited using geological control via the spear sampling method of the 1m bulk sample bags. The spear method was concluded by CAP to be adequate based on the results of a handheld XRF orientation exercise. The compositing produced a 2m to 10m 3kg sample for laboratory analysis at ALS Labs in Perth. The 2016 RC samples were split using a riffle splitter (no details of type used) that produced a 1/16th split taken from the rig every metre and then composited to 5m intervals by splitting again using a 50/50 splitter to give a 6-7kg sample. DD core was cut into half core using a brick saw and diamond blade. The core was cut using the orientation line or perpendicular to bedding. to produce an 8m composite sample (predominantly NQ core). Half core was sent to ALS Perth for analysis, whilst remaining half core was retained for reference.

Sample prep by ALS Laboratories involved crushing, sub-sampling and pulverising to a 38 micron size using an industry standard procedure. All sampling methods and samples sizes are deemed appropriate.

The recovered magnetic fraction analysis was measured by using the Davis Tube method with concentrate analysis by XRF. The QAQC programme was variable sometimes not to industry standard; included the use of Coarse blanks certified reference material and 2nd lab checks. All assay methods are deemed appropriate. The 'twin hole' site data was limited but although there is demonstrable variation in average magnetite grades within several metres along-strike, there is no evidence of a consistent positive bias in the magnetite levels determined for RC samples

Drillhole collars were located by a local surveyor using a Differential GPS with accuracy to less than one metre. Coordinates were supplied in GDA 94 – MGA Zone 54. Down hole surveys for the 2010 drilling were initially recorded as single shot digital displays and were then recorded using a gyroscope due to the highly magnetic nature of the deposit. All the 2016 drillholes had downhole surveys measured using a gyroscope.

Hawsons Iron (HIO) Drilling Summary

The 2021-22 exploration program was comprised of drilling 3 fully cored geotechnical holes (HQ3), 8 partially-cored geotechnical holes (RC top and HQ3 tail), 55 infill Resource upgrade holes (a mix of RC only and RC top with HQ3 diamond tail) and 2 large diameter holes (200mm diameter PCD). All holes were drilled to inform detailed mine design studies.

The geotechnical holes were drilled to determine pit wall (hanging wall, foot wall and end walls) stability and to investigate geological structures. The resource infill drillholes focussed on upgrading the Resource from Indicated status to Measured status, from Inferred status to Indicated status and to investigate geology.

1. Sampling Techniques and Data 2021-2022

Sampling Techniques

Sampling was performed from ground surface to TD. Sampling from surface was a new initiative and had not been done in previous exploration programs. Samples for assay analysis were taken from drillholes in the following ways:

- Reverse Circulation (RC) from surface to total depth (TD);
- RC to max drill depth and diamond tails to TD; and
- Fully cored diamond from surface to TD.

1) RC sampling.

During the 2021-22 drilling program, 67 holes were drilled for 25,094.17m of RC chips and core. Full assay data sets for 63 of these drillholes were received by the cut-off date of 30th August 2022 to meet the company's requirement for this Resource update.

The RC sampling processes are outlined as follows:

- The RC chips presented in a mostly fine talcum powder consistency and the 7/8 split from the cyclone riffle was used to obtain 1m bulk samples (~25 - ~40kg).
- The 1m bulk samples were sub-sampled via spear sampling into 5m composites of approximately 5kg for laboratory sample prep and assaying.
- QAQC riffled samples were taken from a selection of holes across the site to verify the validity of the spear-sampling method.
- Diamond core (all HQ3) were sampled by sawing the core into half and then one half into half again to give quarter core samples. These quarter core samples were used to produce 5m composite samples which were then pulverized at the laboratory to produce a 150g aliquot for XRF and DTR analysis.
- The 1/7 residual split samples (~1kg – ~10kg) from the rig cyclone split are being retained in storage.



Figure 4: RC samples laid out in 60m rows at drill site (photo taken 22/10/2021)

2) HQ3 core sampling for assay.

All HQ3 core for assay sampling was transported to the Hawsons laydown yard at 403 Eyre Street, Broken Hill where it was cut for sampling.

3) Sampling of core for geotechnical analysis.

Geotechnical core was transported in core trays to the machinery shed bay at Burta Homestead. Sampling of core from geotechnical drillholes was conducted by cutting the core with a diamond blade using a hand-held grinder with a thin diamond blade.



Figure 5: Photo of HQ3 geotechnical core: GPFO22047 171.80-175.90m (top = dry, bottom = wet). The core plug on the bottom flute denotes the information for the core run. Core plugs are also used to denote where lab samples are taken from.

A range of core orientation tools were used on geotechnical core, including:

- Reflex Act III
- Boart Longyear TruCore
- Boart Longyear TruShot

4) Sampling of large diameter (LD) core for comminution testing.

- Each 3m stick of LD core produced from the core barrel was cut/broken into approximately 1m lengths and placed into 400L drums and these were then sealed shut. A small amount (approximately 2 hands full) of drilling fluid was put in the drum with the core to prevent it drying out.
- LDCW21001 was abandoned at 64.00m due to dislodged tungsten carbide buttons damaging the core bit.
- The rig moved forward ~3m and started a new hole (LDCW21004).

5) QAQC Sampling

The 2020/2021 program included 87 field pairs for determining field halving precision prepared at sample number 20, 40, 70 and 90 per drillhole. 88 blanks (washed sand) were inserted at sample number 1 and 51 per drillhole.

A special sampling program for determining total precision from was undertaken with 78 field duplicates obtained to check for sample bias.

There were 59 OREAS 700 DTR Certified Reference Materials (CRM's) inserted at sample number 25 and 75 per drillhole.



Figure 6: Large diameter (8" = 200mm) corehole LDCW21004 for comminution testing and 400L drum for storage and transport.

Drilling Techniques

The RC drilling for 2021-2022 was carried out using the following truck-mounted drill rigs:

- 1 x Sandvik UDR 1200HC
- 1 x Sandvik UDR 1000
- Both rigs used 4.5" rods and 5-5/8" face bits.

The DD drilling was carried out using a range of truck-mounted drill rigs, including:

- 2 x Sandvik UDR 1000
- 1 x Sandvik UDR 1200
- 1 x Bournedrill L1000THD
- 1 x Boart Longyear KWL 1600.

All resource hole core drilled was HQ3 (3m barrel). The large diameter drilling produced 200mm (8") diameter core using a PCD bit (3m barrel).

Logging

Geological logging of chips/core/rock samples is qualitative by nature. Geological lithology and defect logging was completed on all core holes drilled and is considered of appropriate detail to be utilised in future studies. Core was either logged on the core table at the rig or in the yard

Every RC and DD drillhole was lithologically and defect logged by a geologist and entered into iGloo, a tablet-based geological logging program.

iGloo records included: recovery, moisture, oxidation state, colour, magnetite %, hematite %, martite %, vein composition and %, gangue min, sulphide min. Data was validated against a company lithological dictionary and uploaded to a SharePoint cloud-based file storage facility. This data was then loaded into the proprietary Lab-In database software system.

RC drill chips were wet sieved from each one-meter sample and geologically logged and codes digitally recorded into iGloo onsite. Washed drill chips from one-meter intervals were stored in Samplex chip trays with 20 x 1m compartments.



Figure 7: Photo of RC sample chips: Drillhole GPCE22043 1-100m

Records of drillcore included: core orientation (Geotechnical and minimal resource definition core), half meter marking, magnetic susceptibility measurements (every 0.1m), core recoveries, rock quality designation (RQD). All drill core was photographed wet and dry after logging and before cutting, these images represent quantitative records.

Handheld magnetic susceptibility was recorded using a CormaGeo RT-1 Magnetic Susceptibility Meter with inbuilt data logger. Three measurements were recorded on each RC sample bag (top, middle & base), then averaged to give a single 1m quantitative measurement. Handheld magnetic susceptibility measurements were taken at 10cm intervals along core.



Figure 8a: Marked up core for lithology logging on the core table at the rig site (blue chalk numbers are magnetic susceptibility readings). The CormaGeo RT-1 Magnetic Susceptibility Meters used to take these measurements is at the top left (pink).



Figure 8b: Core for assay in trays: RDCW21015 336.70-340.40m (top = dry; bottom = wet).

An example of a lithology log is contained in Appendix 1 – Table 3.

Sub-sampling techniques and sample preparation

1) Rig Cyclone & RC Sampling

The 2021/2022 RC samples were split using a 7/8th riffle splitter placed under the rig cyclone. Samples were taken every 1 metre interval and were then a spear sample was taken diagonally from the top to the bottom of the bag and these spear samples were composited into 5m intervals. A QAQC check program of riffling the one metre samples on both a mass and quantity basis was completed to check for analysis bias. A total of 90 samples were taken from holes distributed across the deposit. The results of this QAQC check are contained in separate report (McMahon, 2022) and show that there is no sample bias.

2) Core sampling for assay

DD core was cut perpendicular across the core at the start and end of the sample interval and cut longitudinally to produce a quarter core sample for geochemical analysis. The quarter core was combined in 5m intervals for transport to the laboratory.

3) Core sampling for metallurgical testing

A combination of full HQ3 core and half HQ3 core for intervals nominated by metallurgical consultants was sent to metallurgical laboratories for comminution test work. Remaining geotechnical hole quarter core was sent to Bureau Veritas Laboratory Adelaide for assay analysis.

4) Laboratory sample preparation

Sample Prep was completed at Bureau Veritas Laboratory, Adelaide as follows:

- Crush the sample to 100% below 3.35 mm.
- A 150 g sub-sample for pulverizing in a C125 ring pulveriser (record weight) – DTR SAMPLE.
- Initially pulverize the 150 g sample for nominal 30 seconds – the sample is unusually soft for a ferro-silicate rock.
- Wet screen the DTR sample at 38 micron pressure filter and dry, screen at 1 mm to de-clump and re-homogenize.
- Record the oversize weights – if less than approximately 20 g is oversize, stop the procedure – failure.
- If failure - select another 150 g DTR Sample and reduce the initial pulverization time by 5 secs, repeat until initial grind pass returns greater than approximately 20 g oversize. Once achieved retain the – 38 micron undersize.
- Re grind only the oversize for 4 seconds of every 5 g weight of oversize.
- Repeat the wet screening, drying, de-clumping & weighing stages until less than 5g above 38micron remains.
- Ensure the remaining < 5 g oversize is returned back into the previously retained -38 micron product.
- Report the times and weights for each grind pass phase.
- Combine and homogenize all retained -38 micron aliquots and <5 g oversize –final pulverized product. Sub-sample the final pulverized product to give a 20 g feed sample for DTR work and a ~10 g sample for HEAD analysis via XRF fusion

Quality of assay data and laboratory tests

The 2020/2021 work included 78 field pairs for determining field precision, 73 field halving pairs for determining field halving precision, prepared at sample number 20, 40, 70 and 90 per drillhole, 93 DTR Mags% certified reference materials (CRM's) & 133 XRF CRM's (with multi-element/elemental-oxide comparison) from four different CRM types inserted at sample number 25 and 75 per drillhole, 121 laboratory duplicates on Fe% for XRF (Head Samples), and 140 blank samples (washed sand) for DTR Mags% and Fe% (Head Sample) at metre 1 and 51 per drillhole.

Field Sample Precision

- Field precision duplicates defining total precision/primary sampling error outcomes showed relative precision and bias which were acceptable compared with the limits defined for Davis Tube Recovery Magnetics% (DTR Mags%) and Head Iron % (Head Fe%).
- Half-field pairs defining field halving precision/primary sampling error outcomes showed relative precision and bias which were acceptable compared with the limits defined for DTR Mags% and Head Fe%.

Laboratory Sample Precision

- The OREAS 700 & 701 Certified Reference Materials (CRM's) defining analytical precision/analytical error outcomes showed relative precision which was acceptable compared with the limits defined for DTR Mags%.
- The OREAS 700 & 701 Certified Reference Materials (CRM's) defining analytical precision / analytical error outcomes showed relative precision and bias which were acceptable compared with the limits defined for Head Fe%.
- The OREAS 700 & 701 Certified Reference Materials (CRM's) defining analytical precision/analytical error outcomes showed relative bias which was not acceptable compared with the limits defined for DTR Mags%. The absolute bias was calculated at -0.5% for the OREAS 700 CRM, with only two outcomes for the OREAS 701 CRM being attained, but showing a similar low bias (though still within CRM limits). That is, 0.5% lower DTR outcomes generally. The testing laboratory was made aware of this difficulty early in testing via data processing checks and maintained that the outcomes were due to the supplied OREAS 700 & 701 mass of 50 grams being lower than the DTR test mass requirement of 150 grams. Hawsons is investigating this further, including supplied sample mass requirements and effects for future programs.
- The OREAS 700, 701 & GIOP 96 CRM testing on of the Head Sample (ore) for elemental oxides and elements of SiO₂, Al₂O₃, P, S, TiO₂ and LOI (Loss on Ignition) either had precision and bias outcomes or control limits met jointly or in, at least, one instance.
- The GIOP 118 CRM testing of the Mags Sample (concentrate) for elemental oxides and elements of SiO₂, Al₂O₃, P, S, TiO₂ and LOI (Loss on Ignition) either had precision and bias outcomes or control limits met jointly or in at least one instance.
- Laboratory duplicates were tested for Head Iron (Fe%) for the measurement component (XRF measuring device) were from the same prepared sample and were found to be in accord with required analytical precision limits.
- Blanks were found to be in keeping with ranges observed in the 2016 program for DTR Mags% and Head Fe%.

All sampling methods and samples sizes were deemed appropriate.

Verification of sampling and assaying

- Holes were not twinned in the 2021-22 program. Holes were drilled close to some of the holes drilled in previous programs and these were used for data comparison.
- A file based database system was used "DataStore" which utilised import and export tools that also validated and formatted the data. Data inputs for lithology, geochemistry and geophysics were utilised. Heading checks on each file were enacted via the software and once flagged corrections made in the input forms to ensure correct allocation of outcomes. Data was verified maximum / minimum value checks, sample advice to report reconciliation, dictionary checks and text value checks. Clean validated files once available were automatically uploaded to the Lab-In database.

Location of data points

- For the 2021-22 exploration program, drillhole collars were surveyed by a local accredited surveyor using ALTUS APS-3 RTK (Real Time Kinematic) GPS units in differential mode, which provided an accuracy of some 2 to 3 centimetres in horizontal and vertical measurements.
- Current GDA94 coordinates of existing permanent control point HK1 at the exploration site were utilised as a basis for the surveys.
- Coordinates were supplied in both GDA94 – MGA Zone 54 and GDA2020 – MGA Zone 54. HIO is now operating in GDA2020 – MGA Zone 54 and is using this as standard.
- Due to the highly magnetic nature of the mineralisation, down hole surveys for the 2021-22 drilling were measured using a gyroscope where possible.

- Due to hole conditions (wall cave) in 4 drillholes, a multi shot downhole camera survey was utilised because gyro surveys were not feasible. Difficulty with getting the tool down the hole because of hole cave meant that some holes could not be logged along their entire length.
- Because of the cut-off date for this round of geology model update, for several holes had not yet been logged and gyro data sets were not available.
- Topographic control was maintained using data control points set out by an accredited local surveyor. In 2021, a LiDAR survey was conducted to better constrain the local topography.
- The DGPS location methods used to determine accuracy of drillhole collars are considered appropriate.

Data spacing and distribution

- The deposit is drilled at a nominal spacing of 200m in section and plan, and extends to 400m on the periphery of the drilled area within the proposed pitshell.
- In 2021-22, closer spaced drilling on approximately 100m centres was completed within the Core West area.
- The drill spacing was deemed adequate for the interpretation of geological and grade continuity for the stratigraphic homogeneity associated with the style of mineralization along strike.
- The data spacing is deemed appropriate for Mineral Resources and their classification.
- The 2021/22 RC and DD samples were composited to 5m intervals along the hole length.

Orientation of data in relation to geological structure

- In the Core East and Core West portions of the deposit, angled drilling commenced at -55° dip and a hole azimuth of 040 degrees True. This was targeted to intersect geological strike and bedding dip of the sediment-hosted ore body as close to perpendicular as possible.
- In the Fold portion of the deposit, the strike of the ore bedding is controlled by folding of the sedimentary sequence. The azimuth of drillholes was altered accordingly with the varying strike of the ore body, again to intersect bedding as close to right angles as possible. The varying azimuths and dips of each drillhole are listed in the table in the Appendix.
- Locally, holes suffered directional deviation to the east with depth. Deviation in inclination was also observed, typically causing shallowing of the drillhole and this increased with depth. The affect was more pronounced the lower part of Unit 2 more than in the upper part of Unit 3.
- Drilling orientations are considered appropriate and display no bias.
- The drilling dip and azimuths made it challenging to intersect the cross-cutting fault structures as the drilling was often sub-parallel to these features. One drillhole was designed to intersect the NW magnetically inferred fault. It has provided a preliminary assessment of the impact that local fault systems have on magnetite grade through zones of structural deformation and penetrative oxidation.
- An Excel spreadsheet containing identified fault intersections in a number of holes has been made available to the geotechnical engineers and hydrogeologist for further design work. An example is shown in the appendix.

Sample security

- All samples were bagged using industry standard UV resistant thermoplastic Samplex bags and stored on site under the supervision of an HIO representative. Samples were combined into polyweave bags and were dispatched to the HIO yard in Broken Hill on a weekly basis and were accompanied by a manifest.
- The polyweave bags of samples were then loaded onto a hardwood pallet and pallet wrapped and secured to ensure no loose material could shift, these were then transported to the laboratory via a trusted freighting network company.
- Chain-of-custody documentation was utilised to track the transport of all samples to the BV Adelaide laboratory.

Audits or reviews

- An audit on sample tracking/arrival, sample preparation and analysis procedures was conducted by Wes Nichols on 01/12/2021 at the Bureau Veritas Laboratory at Wingfield in Adelaide. While the equipment and procedures were observed for XRF analysis during this audit visit, no samples were ready to be analysed via XRF at that date.
- The lab procedures observed were considered to be appropriate and followed the applicable standards.
- Chris McMahon (McMahon Resources) completed a review of the sampling and assaying for the 2021-22 drilling program data. An excerpt from his report is included in Appendix 2.

2. Reporting of Exploration Results

Mineral tenement and land tenure status

- The project is wholly owned by Hawsons Iron Ltd (HIO). HIO currently manage the project.
- The project area is entirely within Exploration Licences (ELs) 6979, 7208 & 7504. Hawsons is the sole tenure holder of these ELs.
- Licence conditions for all ELs have been met and are in good standing.
- An application for a Mining Lease (ML) was lodged with the NSW Trade & Investment Department in October 2013 and HIO is not aware of any impediments to obtaining a mining lease. MLA460 remains in place.

Exploration done by other parties

- In 1960 Enterprise Exploration Company (the exploration arm of Consolidated Zinc) outlined a number of track-like exposures of Neoproterozoic magnetite ironstone (+/- hematite) which returned a maximum result of 6m at 49.1% Fe from a cross- strike channel sample. No drilling was undertaken by Enterprise.
- In 1986, CRAE completed five holes within EL 6979 seeking gold mineralisation in a second-order linear magnetic low. This was interpreted to be a concealed, faulted iron formation within the hinge of the curvilinear Hawsons aeromagnetic anomaly. CRAE's program failed to locate significant gold or base metal mineralisation, but the drilling intersected concealed broad magnetite ironstone units interbedded with diamictite adjacent to the then untested peak of the highest amplitude segment of the Hawsons aeromagnetic anomaly.
- Carpentaria Resources (CAP) completed drilling programs in 2009, 2010 and 2016.

Geology

- A brief geology description and plan of the surface geology (Figure 3) was given in the preamble to this document.
- The Hawsons Magnetite Project is situated within folded, upper greenschist facies Neoproterozoic rocks of the Adelaide Fold Belt. The Braemar Facies magnetite ironstone is the host stratigraphy and comprises a series of strike extensive magnetite-bearing siltstones generally with a moderate dip (circa -55°), primarily to the south west. The airborne magnetic data clearly indicates the magnetite siltstones as a series of parallel, high amplitude magnetic anomalies. Large areas of the Hawsons prospective stratigraphy are concealed by transported ferricrete and other younger cover. The base of oxidation due to weathering over the prospective horizons is estimated to average 80m from surface.
- The Hawsons project comprises a number of prospects including the Core West, Core East, Fold, T, Limb and Wonga deposits. Mineral Resources have been generated for the Core and Fold areas which are contiguous.
- The depositional environment for the Braemar Iron Formation is believed to be a subsiding basin, with initial rapid subsidence related to rifting possibly in a graben setting as indicated by the occurrence of diamictites in the lower part of the sequence (Unit 2). A possible sag phase of cyclical subsidence followed with deposition of finer grained sediments with more consistent, as compared to the diamictite units, bed thicknesses, style and clast composition (Unit 3). The top of the Interbed Unit marks the transition from high (Unit 2) to lower (Unit 3) energy sediment deposition
- The distribution of disseminated, inclusion-free magnetite in the Braemar Iron Formation at Hawsons is related to the composition and nature of the sedimentary beds. The idioblastic nature of the magnetite is believed to be due to one or more of a range of possible processes including in situ recrystallisation of primary detrital grains, chemical precipitation from seawater, permeation of iron-rich metamorphic fluids associated with regional greenschist metamorphism. Grain size generally ranges from 10microns to 0.2mm but tends to average around the 40microns. Sediment composition and grain size appear to be the main controlling factors of mineralisation. There is no evidence of structural control in the form of veins or veinlets coupled with the lack of a strong structural fabric
- In the majority of the Core and Fold deposits the units strike southeast and dip between 45° and 65° to the southwest. The eastern part of the Fold deposit comprises a relatively tight synclinal fold structure resulting in a 90° strike rotation.
- A cross section through the Core area is shown in Figure 10.

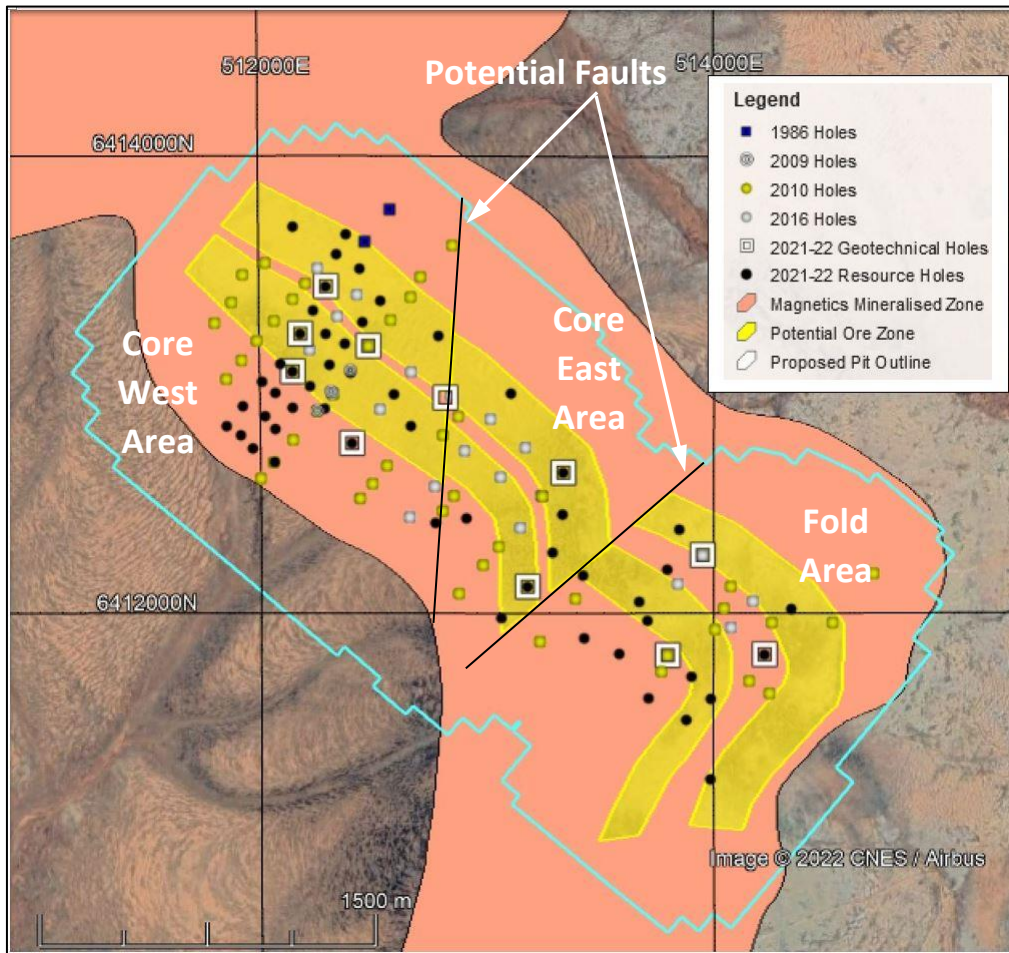


Figure 9: Drillhole location plan within the 2017 mine plan pitshell showing potential modelled units of mineralization (yellow) and potential faulting. The pink zone indicates the extent of the interpreted magnetic anomaly (TMI RTP).

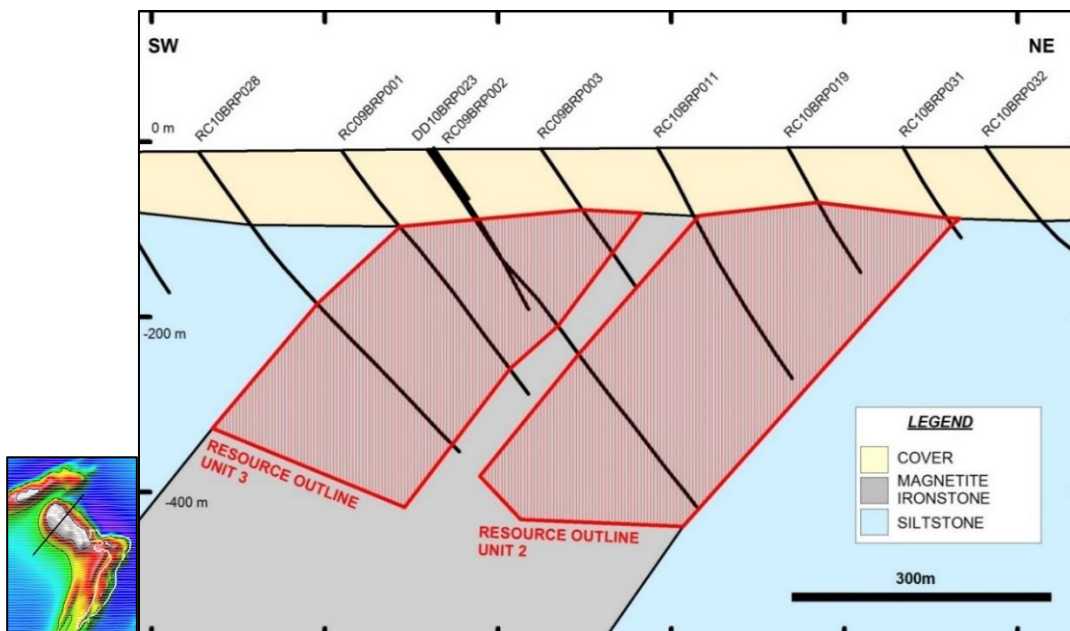


Figure 10: Cross-section through the Core West area showing the dipping sediments and core intersections from previous drilling (source: CAP, 2010).

Drill hole Information

- Drillhole location plans annotated with hole names are included as Figures 2a-2d in this document.
- Appropriate tabulations of drillhole information are available as Excel spreadsheets and examples are included at Appendix 2.
- Because of the potential for mineralisation in the upper oxidised zone, the entire hole length was considered to be the intercept interval.

Data aggregation methods

- All RC samples were collected on 1m intervals
- Each 1m interval was carefully speared and then aggregated into 5m intervals.
- ¼ core samples were aggregated into 5m intervals.
- 1cm downhole density logs were aggregated over the length of each sample that was used to determine a relationship with specific gravity. This was then extrapolated down the hole lengths to estimate gravity from geophysical logs.

Relationship between mineralisation widths and intercept lengths

- Drilling is conducted perpendicular to the dip of the mineralised sediments. This is done in an attempt to get the most representative sample and most representative intercept length possible.
- In Core West and Core East, the drillholes predominantly dip at -55 degrees at azimuth 040, perpendicular to the SW steeply dipping nature of sedimentary beds. In Fold, drilling dips and azimuths vary according to the dip and strike of the folded strata.
- Mineralisation exists from the surface for the full length of drillholes and this constitutes the intercept lengths. See Appendix 1, Table 1 in this report.

Diagrams

- Appropriate plans and tabulations are included in with the text in this document and as tables in the Appendices.

Balanced reporting

- Comprehensive reporting is not practicable.
- Examples of data are included in the Appendices.

Other substantive exploration data

- A geotechnical report was furnished by Gutteridge Haskins and Davey (GHD) in 2019 titled "Carpentaria-Hawsons Iron Ore project 2017 Prefeasibility Study Geotechnical Assessment." This study was completed via a staged approach in order to progressively improve the level of Geotechnical understanding for the PFS and to identify gaps that needed to be addressed.
- In the 2021-2022 exploration program, Pells, Sullivan & Meynink (PSM) are undertaking the geotechnical design study for pitwall stability and to fill the gaps outlined in the GHD report. This report is not yet at hand.
- 11 cored holes were nominated by PSM to generate the data for geotechnical analysis that will feed into mine design. Of these holes, 3 were fully cored and the remainder were cored from depths nominated by PSM to total depth.
- A specialist PSM geotechnical geologist logged and sampled the core and the samples were transported to Trilab in Brisbane for testing.
- The majority of samples were analysed for Uniaxial Compressive Strength (UCS), Young's Modulus and Poisson's Ratio. Selected samples were submitted for shear box testing.
- A substantial amount of downhole geophysics data was generated throughout the 2021/2022 drilling program, comprising magnetic susceptibility, natural gamma, density and resistivity data. This has been utilised to define the magnetic (and density related) stratigraphy that is coincident with a chronostratigraphic interpretation. Sonic velocity and acoustic televiewer data was also collected to aid in structural interpretation necessary for pit wall stability investigation.
- Acoustic Televiewer (ATV) logs were run for holes where hole cave and other geological conditions did not compromise logging.
- Analysis of geotechnical results/findings is in progress and the results will be reported when they come to hand.

Further work

- Drilling in the 2022-23 period is being considered to determine extents of the ore body outside of the current main drilling pattern.
 - Geophysical surveys are being considered to help identify structural features and the lateral extents of the mineralized zone.
 - Sterilisation holes are being planned to positively identify that ore potential doesn't exist under planned infrastructure.
 - Test pits have been planned to determine the geomechanical properties of the surface material to determine what is required to support infrastructure.
 - PSM performed a preliminary desktop study on terrain assessment in December 2021 and then proposed a geotechnical test pitting program to cater for construction of civil infrastructure. Several of these test pits have been cleared for excavation works and sampling and this program is expected to proceed in the second half of 2022.
-

The data in this report that relates to Exploration Results for the Hawsons Magnetite Project is based on information evaluated by Mr Wes Nichols who is a Member of the Australian Institute of Mining and Metallurgy and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code"). Mr Nichols is a full-time employee of Hawsons Iron Ltd and he consents to the inclusion in the report of the Exploration Results in the form and context in which they appear.

Appendix 1

Tables of Data

Table 1: Holes drilled in 2021-22 drilling program

HIO Drilling Summary 2020/2021 Exploration Programme (as at 08/08/22)											
Drill Order	Hole Number	Site Name	Purpose	Planned TD	RC Depth (From)	RC Depth (To)	Date RC Depth Achieved	Core Depth (From)	Core Depth (To)	Total Core	Date Core Depth Achieved
1	RCCE21000	X4	Indicated	250	0	250.00	21/10/2021	N/A	N/A	N/A	N/A
2	LDCW21001	MET D	Bulk sample - Discontinued	175	0	64.00	20/10/2021	64.00	65.25	1.25	25/10/2021
3	RCCW21002	X3 NEW REV	Indicated	250	0	250.00	25/10/2021	N/A	N/A	N/A	N/A
4	RCCW21003	M8_NEW	Measured	300	0	300.00	27/10/2021	N/A	N/A	N/A	N/A
5	LDCW21004	MET D	Bulk sample	175	N/A	N/A	N/A	59.00	92.70	33.70	17/11/2021
6	RDCW21005	M15_NEW	Measured	590	0	228.00	30/10/2021	228.00	590.43	362.43	21/11/2021
7	RDCW21006	PDH-46_M2	Measured	560	0	166.00	11/03/2021	166.00	561.20	395.20	11/01/2022
8	RDCW21007	PDH-50_M3	Measured	600	0	399.00	11/09/2021	N/A	N/A	N/A	N/A
9	RDCW21008	PDH-56_M4	Measured	650	0	221.50	14/11/2021	221.50	650.55	429.05	7/03/2022
10	RDCW21009	PDH-60_M5	Measured	540	0	387.30	19/11/2021	387.30	540.40	153.10	15/02/2022
11	RCCW21010	M6_New	Measured	400	0	405.40	21/11/2021	N/A	N/A	N/A	N/A
12	RCCW21011	M7	Measured	350	0	351.90	15/12/2021	N/A	N/A	N/A	N/A
13	RCCW21012	M22	Measured	320	0	321.20	17/12/2021	N/A	N/A	N/A	N/A
14	RCCW21013	M21	Measured	300	0	300.70	18/12/2021	N/A	N/A	N/A	N/A
15	RDCW21014	M20	Measured	420	0	314.70	19/12/2021	314.70	420.00	105.30	10/03/2022
16	RDCW21015	M19_New	Measured	450	0	326.50	20/12/2021	326.50	452.40	125.90	12/02/2022
17	RDCW22016	M18	Measured	570	0	351.00	1/07/2022	351.00	570.00	219.00	14/06/2022
18	RDCW22017	M17	Measured	640	0	374.50	1/09/2022	N/A	N/A	N/A	N/A
19	RDCW22018	M16	Measured	690	0	290.50	1/11/2022	N/A	N/A	N/A	N/A
20	RDCW22019	M10	Measured	560	0	302.50	13/01/2022	N/A	N/A	N/A	N/A
21	GFCW22020	BFS_GT01 (M8_New)	Geotech	475	N/A	N/A	N/A	0.00	475.03	475.03	20/01/2022
22	RDCW22021	ZC	Indicated	650	0	380.50	16/01/2022	380.50	650.00	269.50	9/02/2022
23	RCCW22022	X1	Indicated	300	0	300.00	19/01/2022	N/A	N/A	N/A	N/A
24	RCCW22023	X2	Indicated	350	0	349.00	20/01/2022	N/A	N/A	N/A	N/A
25	RCCW22024	M1_New	Measured	300	0	303.70	21/01/2022	N/A	N/A	N/A	N/A
26	RCCE22025	X6 New	Indicated	300	0	303.00	24/01/2022	N/A	N/A	N/A	N/A
27	RDCE22026	AI	Indicated	450	0	339.00	26/01/2022	339.00	450.40	111.40	14/02/2022
28	RDCE22027	ZD	Indicated	600	0	287.60	16/02/2022	287.60	600.60	313.00	21/02/2022
29	GPCE22028	BFS_GT08 (AW)	Geotech	250	0	98.50	28/01/2022	98.50	250.15	151.65	1/04/2022
30	RDCE22029	AW	Indicated	400	0	364.00	10/02/2022	N/A	N/A	N/A	N/A
31	GFCW22030	BFS_GT02 (MET C)	Geotech	450	N/A	N/A	N/A	0.00	450.81	450.81	20/02/2022
32	RDCE22031	AH	Indicated	400	0	248.50	11/02/2022	248.50	400.00	151.50	19/02/2022
33	RDCW22032	PDH-80_AZRE_PDH_092	Indicated	670	0	306.00	12/02/2022	306.00	671.10	365.10	12/03/2022
34	RCW22033	X8_New	Indicated	400	0	405.00	12/02/2022	N/A	N/A	N/A	N/A
35	RDCW22034	RC10BRP051_RPT	Indicated	690	0	293.20	13/02/2022	293.20	690.00	396.80	8/03/2022
36	RCFO22035	AL_New	Indicated	300	0	300.00	13/02/2023	N/A	N/A	N/A	N/A
37	RCFO22036	BC New	Indicated	300	0	300.00	15/02/2022	N/A	N/A	N/A	N/A
38	GPCW22037	BFS_GT09	Geotech	400	0	90.00	13/02/2022	90.00	400.00	310.00	6/03/2022
39	RDCW22038	RC10BRP028_EXT	Indicated	470	0	246.90	14/02/2022	246.90	470.10	223.20	4/04/2022
40	GPFO22039	BFS_GT07	Geotech	200	0	80.50	15/02/2022	80.50	200.15	119.65	22/06/2022
41	RDFO22040	AR	Indicated	300	0	245.00	15/02/2022	N/A	N/A	N/A	N/A
42	RCCE22041	X5	Indicated	300	0	300.00	16/02/2022	N/A	N/A	N/A	N/A
43	RCFO22042	BK New	Indicated	300	0	300.00	17/02/2022	N/A	N/A	N/A	N/A
44	GPCE22043	BFS_GT04	Geotech	275	0	149.50	17/02/2022	149.50	275.60	126.10	4/06/2022
45	RCFO22044	X11	Indicated	350	0	350.00	20/02/2022	N/A	N/A	N/A	N/A
46	RCFO22045	AY New	Indicated	350	0	348.00	19/02/2022	N/A	N/A	N/A	N/A
47	RCCW22046	RC16BRP064_WEDGE	Indicated	320	0	320.00	22/02/2022	N/A	N/A	N/A	N/A
48	GPFO22047	BFS_GT05	Geotech	325	0	150.00	22/02/2022	150.00	324.80	174.80	20/06/2022
49	RDCW22048	M14 New	Measured	390	0	348.00	22/02/2022	348.00	402.20	54.20	10/03/2022
50	RCFO22049	X10 New	Indicated	350	0	351.00	23/02/2022	N/A	N/A	N/A	N/A
51	RDCW22050	M13	Measured	550	0	299.30	23/02/2022	299.30	550.20	250.90	6/04/2022
52	RDFO22051	X9 New	Indicated	500	0	362.50	24/02/2022	N/A	N/A	N/A	N/A
53	RCFO22052	AU	Indicated	300	0	303.00	26/02/2022	N/A	N/A	N/A	N/A
54	RDCW22053	M11 New	Measured	680	0	303.70	26/02/2022	N/A	N/A	N/A	N/A
55	RCFO22054	PDH_134_BH New RE_PDH_146	Indicated	300	0	303.00	27/02/2022	N/A	N/A	N/A	N/A
56	RDCW22055	PDH-58_M23	Measured	600	0	300.00	27/02/2022	N/A	N/A	N/A	N/A
57	RDCW22056	RC09BRP003_M24	Measured	440	0	270.00	3/03/2022	N/A	N/A	N/A	N/A
58	RCFO22057	BL_New	Indicated	300	0	303.00	3/03/2022	N/A	N/A	N/A	N/A
59	RDCW22058	M12	Measured	700	0	300.00	4/04/2022	N/A	N/A	N/A	N/A
60	GPFO22059	BFS_GT06	Geotech	400	0	149.60	4/04/2022	149.60	399.80	250.20	16/06/2022
61	RCFO22060	BB_New	Indicated	300	0	300.00	4/04/2022	N/A	N/A	N/A	N/A
62	RDFO22061	BF_New	Indicated	300	0	237.00	5/03/2022	N/A	N/A	N/A	N/A
63	RDCW22062	PDH-71_M9RE_PDH_080	Measured	400	0	348.00	5/03/2022	348.00	400.80	52.80	30/07/2022
64	GPCW22063	BFS_GT03	Geotech	450	0	149.50	6/03/2022	149.50	450.00	300.50	7/06/2022
65	RDCW22064	PDH-84_BB_New	Measured	450	0	340.00	7/03/2022	340.00	451.00	111.00	8/08/2022
66	GPCW22065	BFS_GT10	Geotech	500	0	298.70	8/03/2022	298.70	495.70	197.00	18/04/2022
67	GFCW22066	BFS_GT11	Geotech	550	N/A	N/A	N/A	0.00	549.00	549.00	17/04/2022
						Total	18028.90		6721.30	13891.37	7229.07

2021-22 Hole Naming Convention

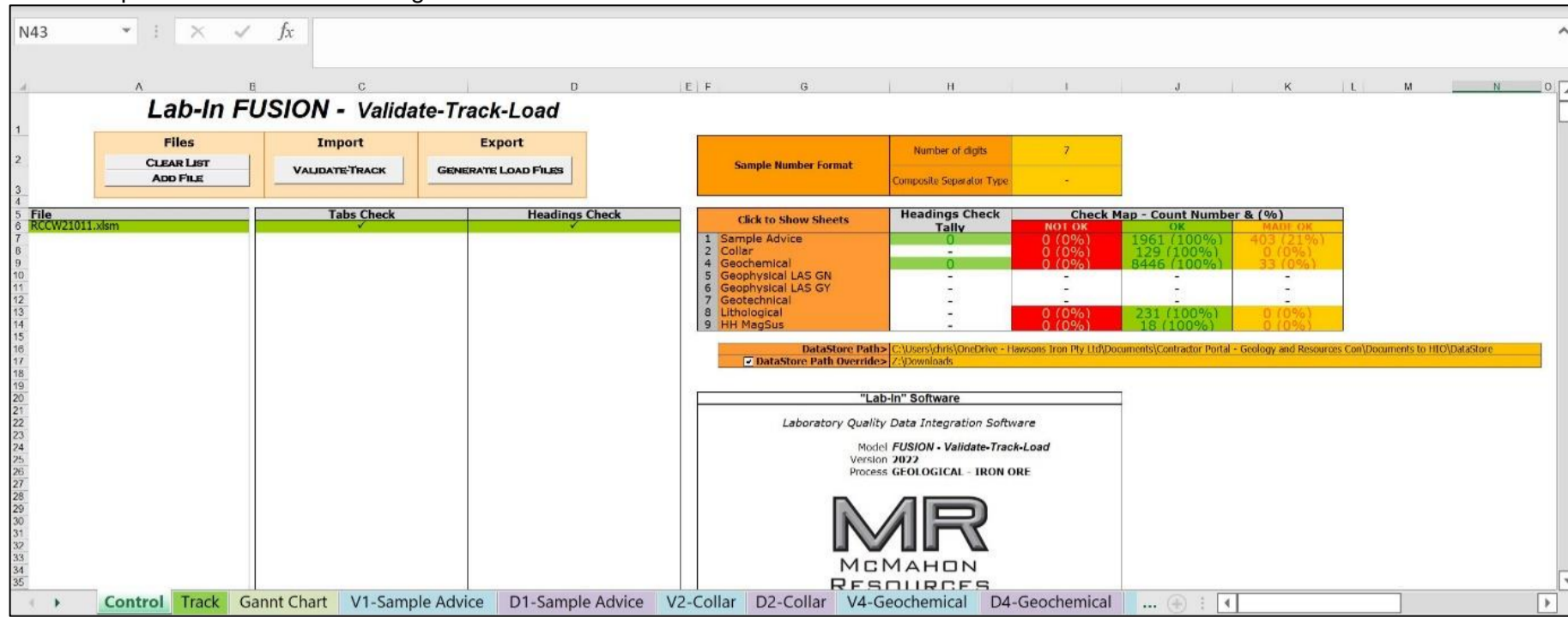
Code Position	Code	Meaning
1 st & 2 nd characters (alpha)	RC	RC from surface to TD
	RD	RC top and Diamond Tail (HQ3)
3 rd & 4 th characters (alpha)	CW	Core West
	CE	Core East
	FO	Fold
5 th & 6 th characters (numeric)	21	Year drilled = 2021
	22	Year drilled = 2022
7 th , 8 th & 9 th characters (numeric)		Hole number in order of drilling

Table 2: Data summary for holes in the 2021-22 program

HIO DataSummary 2020/2021 Exploration Program (as at 30/08/22)							
Drill Hole	DTR	XRF (Fe, Si)	Litho	Geophysics Gyro GY	Geophysics General GN	RC Depth (To)	Core Depth (To)
	63	63	67	65	66	63	31
GFCW22020			x	x	x	N/A	475.5
GFCW22030	x	x	x	x	x	N/A	450.81
GFCW22066			x	x	x	N/A	549
GPCE22028	x	x	x	x	x	98.5	250.8
GPCE22043	x	x	x	x	x	150	275.65
GPCW22037	x	x	x	x	x	90	400
GPCW22063	x	x	x	x	x	149.5	450.3
GPCW22065	x	x	x	x	x	298.7	496.1
GPFO22039	x	x	x	x	x	80.5	200.9
GPFO22047	x	x	x	x	x	150	324.8
GPFO22059	x	x	x	x	x	149.6	400.2
LDCW21001			x		x	64	65.25
LDCW21004			x	x	x	N/A	92.7
RCCE21000	x	x	x	x	x	250	N/A
RCCE22025	x	x	x	x	x	303	N/A
RCCE22041	x	x	x	x	x	300.3	N/A
RCCW21002	x	x	x	x	x	250.7	N/A
RCCW21003	x	x	x	x	x	300.8	N/A
RCCW21010	x	x	x	x	x	405.5	N/A
RCCW21011	x	x	x	x	x	352	N/A
RCCW21012	x	x	x	x	x	321.3	N/A
RCCW21013	x	x	x	x	x	300.8	N/A
RCCW22022	x	x	x	x	x	303.9	N/A
RCCW22023	x	x	x	x	x	349.7	N/A
RCCW22024	x	x	x	x	x	303.8	N/A
RCCW22046	x	x	x	x	x	320	N/A
RCFO22033	x	x	x	x	x	405	N/A
RCFO22035	x	x	x	x	x	300	N/A
RCFO22036	x	x	x	x	x	300	N/A
RCFO22042	x	x	x	x	x	300	N/A
RCFO22044	x	x	x	x	x	350	N/A
RCFO22045	x	x	x	x	x	348.6	N/A
RCFO22049	x	x	x	x	x	351	N/A
RCFO22052	x	x	x	x	x	303.7	N/A
RCFO22054	x	x	x	x	x	303.7	N/A
RCFO22057	x	x	x	x	x	303	N/A
RDCE22026	x	x	x	x	x	339	450.4
RDCE22027	x	x	x	x	x	287.6	600.6
RDCE22029	x	x	x	x	x	365	N/A
RDCE22031	x	x	x	x	x	248.5	400.3
RDCW21005	x	x	x	x	x	228	590.43
RDCW21006	x	x	x	x	x	166	561.2
RDCW21007	x	x	x	x	x	400.21	N/A
RDCW21008	x	x	x	x	x	221.5	650.55
RDCW21009	x	x	x	x	x	387.3	540.4
RDCW21014	x	x	x	x	x	314.7	420.1
RDCW21015	x	x	x	x	x	326.5	452.4
RDCW22016	x	x	x	x	x	351	570.18
RDCW22017	x	x	x	x	x	375	N/A
RDCW22018	x	x	x	x	x	291	N/A
RDCW22019	x	x	x	x	x	303	N/A
RDCW22021	x	x	x	x	x	380.5	650
RDCW22032	x	x	x	x	x	306	671.1
RDCW22034	x	x	x	x	x	293.2	690.22
RDCW22038	x	x	x	x	x	246	470.1
RDCW22048	x	x	x	x	x	348	402.2
RDCW22050	x	x	x	x	x	300	550.2
RDCW22053	x	x	x	x	x	303.7	N/A
RDCW22055	x	x	x	x	x	300.04	N/A
RDCW22056	x	x	x	x	x	270.23	N/A
RDCW22058	x	x	x	x	x	300	N/A
RDCW22062	x	x	x	x	x	348	400.8
RDCW22064	x	x	x	x	x	340	451
RDFO22040	x	x	x	x	x	243.4	N/A
RDFO22051	x	x	x	x	x	362.5	N/A
RDFO22061	x	x	x	x	x	237	N/A
RCFO22060	x	x	x			300	N/A

Table 4: Assay Data Examples

Screen capture of Lab-In data management software.



Example Assay Header

Hole No	Client	Project	Job Number	SAMPLES RECEIVED	INSTRUCTIONS RECEIVED	DATE REPORTED	Client Sample Number	Lab Sample Number	Batch Number	Sample Type	Depth From	Depth To	Thickness	Lab	Drill Diameter_mm	Sample Receipt Weight	DTR Prep Head Weight_grams
RCCW21000	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27251	27251	Batch 1	BLANK	0	0	0	BV Adelaide	143	850	153.61
RCCW21000	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27269	27269	Batch 1	PRIMARY	85	90	5	BV Adelaide	143	4600	150.65
RCCW21000	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27270	27270	Batch 1	DUPLICATE	90	90	0	BV Adelaide	143	1700	150.45
RCCW21000	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27275	27275	Batch 1	OREAS700	110	110	0	BV Adelaide	143	50	
RCCW21000	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27290	27290	Batch 1	DUPLICATE	180	180	0	BV Adelaide	143	3200	150.42
RCCW21000	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27301	27301	Batch 1	BLANK	230	230	0	BV Adelaide	143	900	152.16
RCCW21002	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27306	27306	Batch 1	BLANK	0	0	0	BV Adelaide	143	800	152.08
RCCW21002	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27324	27324	Batch 1	PRIMARY	85	90	5	BV Adelaide	143	3100	151.09
RCCW21002	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27325	27325	Batch 1	DUPLICATE	90	90	0	BV Adelaide	143	1650	154.68
RCCW21002	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27330	27330	Batch 1	OREAS700	110	110	0	BV Adelaide	143	50	
RCCW21002	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27346	27346	Batch 1	PRIMARY	185	190	5	BV Adelaide	143	3150	154.85
RCCW21002	Hawsons Iron	Hawsons Iron	N9879	44522	44638	44643	27347	27347	Batch 1	DUPLICATE	190	190	0	BV Adelaide	143	2200	152.26

Example Assay Data (Part 1)

First Pulverise Time	First Oversize Weight	Second Pulverise Time	Second Oversize Weight	Third Pulverise Time	Third Oversize Weight	Fourth Pulverise Time	Fourth Oversize Weight	Fifth Pulverise Time	Fifth Oversize Weight	DTR Head_grams	DTR Mags_grams	DTR Non-Mags_grams	Mags%	Assay Head_Fe_%	Assay Head_SiO2_%	Assay Head_Al2O3_%	Assay Head_CaO_%
30	101.95	81.56	31.97	25.576	10.6		9	4.42		21.83	0	21.83	0	0.13	2.88	0.11	52.1
30	24.47	22	5.34	4	2.01					21.64	1.12	20.52	5.175600739	27.46	42.19	6.83	1.89
30	24.27	22	5.17	4	1.33					21.71	1.15	20.56	5.297098111	27.84	41.67	6.73	1.97
0										21.85	2.36	19.49	10.80091533	16.26	47.64	10.8	7.94
30	27.67	25	6.56	4	2.16					24.14	3.31	20.83	13.71168186	13.56	50.01	9.59	4.36
30	93.12	74	30.31	24.248	12.79	10.232	4.5			20.35	0	20.35	0	0.12	3.22	0.16	51.5
30	92.54	75	36.68	32	14.09	12	4.97			22.58	0	22.58	0	8.99	66.3	10.2	1.35
30	25.57	21	6.9	6	1.61	0				24.15	1.25	22.9	5.175983437	20.94	51.54	9.02	0.74
30	31.99	26	7	2.5	0	0				23.45	1.06	22.39	4.520255864	21.17	51.23	8.99	0.75
0										23.03	2.45	20.58	10.63829787	16.11	47.53	10.7	7.81
30	41.1	32.88	7.78	6.224	2.1					22.05	2.95	19.1	13.37868481	20.89	48.66	7.13	3.08
30	41.11	32.888	8.33	6.664	2.35					24.71	3.75	20.96	15.17604209	22.62	46.91	6.92	2.79
30	91.03	72.824	33.41	26.728	12.96	10.368	4.98			22.63	0	22.63	0	0.15	2.82	0.13	51.8

Example Assay Data (Part 2)

Assay Head_MgO_%	Assay Head_MnO_ppm	Assay Head_P_%	Assay Head_S_ppm	Assay Head_K2O_%	Assay Head_Na2O_%	Assay Head_TiO2_%	Assay Head_Cu_%	Assay Head_Ni_%	Assay Head_Co_%	Assay Head_Cr_ppm	Assay Head_Pb_%	Assay Head_Zn_%	Assay Head_As_%	Assay Head_Sn_%	Assay Head_Sr_%	Assay Head_Zr_%	Assay Head_Ba_%
1.47	50	0.03	1110	0.04	0.27	0.02	0.002	0.002	0.001	5	0.003	0.0005	0.0005	0.006	0.206	0.005	0.003
2.73	1700	0.309	30	1.39	0.68	0.46	0.006	0.003	0.003	20	0.006	0.008	0.0005	0.002	0.009	0.014	0.037
2.79	1900	0.306	20	1.33	0.75	0.45	0.0005	0.002	0.004	30	0.003	0.008	0.0005	0.002	0.009	0.014	0.022
1.74	4200	0.362	3060	1.86	1.66	0.33	0.223	0.006	0.002	60	0.004	0.021	0.001	0.023	0.012	0.014	0.015
5.3	2700	0.168	730	2.28	0.3	0.74	0.001	0.006	0.0005	70	0.003	0.008	0.0005	0.013	0.011	0.022	0.036
1.46	50	0.029	1080	0.05	0.29	0.03	0.001	0.0005	0.001	5	0.001	0.0005	0.002	0.016	0.203	0.005	0.006
1.01	400	0.024	530	0.98	0.39	0.65	0.002	0.001	0.003	100	0.004	0.077	0.002	0.009	0.008	0.025	0.064
1.95	400	0.248	60	2.02	0.1	0.65	0.004	0.001	0.001	60	0.003	0.008	0.001	0.008	0.005	0.019	0.044
1.93	400	0.254	60	2	0.06	0.65	0.005	0.002	0.002	40	0.005	0.007	0.001	0.005	0.005	0.019	0.031
1.75	4200	0.359	2890	1.83	1.65	0.33	0.21	0.008	0.003	60	0.005	0.021	0.0005	0.016	0.012	0.014	0.013
3.77	700	0.258	50	1.6	0.5	0.54	0.003	0.002	0.003	50	0.005	0.006	0.001	0.01	0.009	0.016	0.03
3.71	700	0.245	50	1.51	0.48	0.54	0.002	0.002	0.003	70	0.006	0.005	0.0005	0.009	0.009	0.016	0.037
1.47	50	0.031	1110	0.05	0.32	0.02	0.0005	0.0005	0.0005	20	0.002	0.0005	0.0005	0.008	0.205	0.003	0.007

Example Assay Data (Part 3)

Assay Head_V_ppm	Assay Head_Cl_%	Assay Head_LOI_%	Assay Mags_Fe_%	Assay Mags_SiO2_%	Assay Mags_Al2O3_%	Assay Mags_CaO_%	Assay Mags_MgO_%	Assay Mags_MnO_ppm	Assay Mags_P_%	Assay Mags_S_ppm	Assay Mags_K2O_%	Assay Mags_Na2O_%	Assay Mags_TiO2_%	Assay Mags_Cu_%	Assay Mags_Ni_%	Assay Mags_Co_%	Assay Mags_Cr_ppm
20	0.018	42.7															
70	0.008	3.24	70.03	0.86	0.16	0.04	0.05	400	0.01	50	0.02	0.005	0.02	0.008	0.006	0.007	110
70	0.006	3.36	71.05	0.95	0.2	0.04	0.05	300	0.008	30	0.01	0.005	0.02	0.006	0.007	0.009	170
80	0.019	2.01	68.55	2.43	0.94	0.53	0.18	700	0.028	200	0.12	0.04	0.08	0.013	0.006	0.002	230
80	0.004	6.88	68.43	4.32	0.15	0.14	0.13	200	0.008	90	0.03	0.005	0.06	0.005	0.008	0.002	290
10	0.017	42.9															
180	0.005	5.63															
80	0.001	3.04	69.19	0.93	0.25	0.03	0.05	50	0.02	30	0.03	0.05	0.03	0.004	0.006	0.005	250
90	0.003	3.04	69.75	1.02	0.28	0.03	0.07	100	0.02	50	0.03	0.08	0.03	0.004	0.006	0.003	210
80	0.012	2.62	68.24	2.59	1.01	0.57	0.2	800	0.032	190	0.14	0.08	0.08	0.008	0.01	0.005	190
90	0.0005	4.2	70.17	2.23	0.13	0.05	0.06	50	0.004	30	0.03	0.1	0.03	0.004	0.004	0.001	130
90	0.003	3.83	70.64	1.87	0.14	0.04	0.09	100	0.004	30	0.02	0.02	0.04	0.004	0.006	0.003	190
5	0.016	42.9															

Example Assay Data (Part 4)

Assay Mags_Pb_%	Assay Mags_Zn_%	Assay Mags_As_%	Assay Mags_Sn_%	Assay Mags_Sr_%	Assay Mags_Zr_%	Assay Mags_Ba_%	Assay Mags_V_ppm	Assay Mags_Cl_%	Assay Mags_LOI_%	Distribution_Fe	Distribution_SiO2	Distribution_Al2O3	Distribution_CaO	Distribution_MgO	Distribution_MnO	Distribution_P	Distribution_S
0.004	0.008	0.0005	0.002	0.002	0.009	0.0005	170	0.004		13.19910123	0.105499328	0.121243941	0.109536524	0.094791222	1.217788409	0.16749517	8.626001232
0.005	0.008	0.0005	0.007	0.008	0.009	0.0005	110	0.008		13.51863581	0.120764176	0.157417477	0.107555292	0.094930074	0.836383912	0.138486225	7.945647167
0.004	0.009	0.001	0.008	0.002	0.004	0.0005	80	0.018	-2.73	45.53522423	0.550928301	0.940079668	0.7209679	1.117336069	1.800152555	0.835429915	0.705942179
0.006	0.005	0.0005	0.0005	0.002	0.013	0.0005	260	0.014	-2.88	69.19545645	1.184452422	0.214468434	0.440283362	0.336324272	1.015680137	0.652937231	1.690481325
0.008	0.005	0.0005	0.01	0.002	0.01	0.003	190	0.003		17.10249733	0.093396674	0.143458521	0.209837166	0.132717524	0	0.417418019	2.587991718
0.006	0.005	0.001	0.008	0.002	0.01	0.001	170	0.0005		14.89314343	0.08999238	0.140786612	0.180810235	0.163947104	1.130063966	0.355925659	3.766879886
0.004	0.011	0.0005	0.012	0.002	0.002	0.013	110	0.001	-2.63	45.06253549	0.579701062	1.00417578	0.776418667	1.215805471	2.026342452	0.948260535	0.699403666
0.006	0.005	0.001	0.0005	0.002	0.008	0.017	130	0.003	-2.99	44.93931608	0.613120985	0.24393114	0.217186442	0.212923366	0	0.20742147	8.027210884
0.004	0.007	0.001	0.01	0.002	0.008	0.019	170	0.003	-3.17	47.39326318	0.604971194	0.307029753	0.217577664	0.368151964	2.168006013	0.247772116	9.105625253
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Example Assay Data (Part 5)

Distribution_K2O	Distribution_Na2O	Distribution_TiO2	Distribution_Cu	Distribution_Ni	Distribution_Co	Distribution_Cr	Distribution_Pb	Distribution_Zn	Distribution_As	Distribution_Sn	Distribution_Sr	Distribution_Zr	Distribution_Ba	Distribution_V	Distribution_Cl
0.074469075	0	0.225026119	6.900800986	10.3											

Table 5: Fault Data Example

Drillhole ID	FZ Code	FZ Top	FZ Base	FZ TK	Angle1	Angle2	Vein_Type	Defect
RDCW21006	1	35.00	40.00	5.00			quartz	
RDCW21006	1	66.00	67.00	1.00			Qtz vein due to high volume of angular qtz	
RDCW21005	1	527.80	528.12	0.32			calcite	brecciated - minor
RDCW21005	1	531.76	541.40	9.64			Calcite 1%	joint - highly fractured
RDCW21005	1	575.73	576.75	1.02			Calcite 3%	Calcite vein infilling jt
RDCW21005	1	585.02	587.33	2.31			Calcite? 2-3%	
RDCE22031	1	251.67	251.72	0.05	60			Vein, Planar, Rough, Calcite, Coating (≥ 1 mm) 60°
RDCE22031	2	251.80	255.05	3.25			Clay & chlorite	Brecciated Zone, Rough, Calcite, Moderately Weathered (DW), Filled , Clay & chlorite.
RDCE22031	1	258.60	275.90	17.30			Chlorite and Haematite alteration	Alteration Zone, Irregular, Rough, Clay, , Chlorite and Haematite alteration .
RDCE22031	1	281.86	282.03	0.17	40			Vein, Planar, Smooth, Quartz, Filled 40°
RDCE22031	2	283.50	311.85	28.35	30		4 faults, soft sed def,central fault Qtz filled	Fault, Planar, Smooth, Quartz, Displaced 30°, 4 faults, soft sed def,central fault Qtz filled.
RDCE22031	0	313.22	319.75	6.53	45		Haem alt	Brecciated Zone, Planar, Rough, Clay, Slightly Altered, Coating (≥ 1 mm) 45°, Haem alt.
RDCE22031	2	323.20	324.85	1.65			Haem alt.	Brecciated Zone, Rough, Calcite, Slightly Altered, Veneer (<1 mm) , Haem alt..
RDCE22031	2	327.63	328.70	1.07	30		Clay filled in part	Brecciated Zone, Irregular, Rough, Calcite, Slightly Altered, Coating (≥ 1 mm) 30°, Clay filled in part.

Table 6: Example Geophysical Logs

Example Gyro Log (LAS)

WELL.	DEPT.M	DIRE.DEG	TILT.DEG	NORT.M	EAST.M	AZIM.DEG	DRIF.M	TDEP.M
RCCW21002	0	51.04	34.66	0	0	0	0	0
RCCW21002	10	53.92	35.15	3.39	4.653	53.9	5.757	8.176
RCCW21002	20	52.26	36.19	7.005	9.322	53.1	11.661	16.247
RCCW21002	30	53.74	37.3	10.589	14.209	53.3	17.72	24.202
RCCW21002	40	52.26	38.55	14.403	19.137	53	23.951	32.022
RCCW21002	50	52.44	39.41	18.273	24.17	52.9	30.3	39.749
RCCW21002	60	53.35	39.95	22.106	29.321	53	36.721	47.415
RCCW21002	70	52.32	40.9	26.108	34.503	52.9	43.268	54.973
RCCW21002	80	52.81	41.68	30.128	39.8	52.9	49.918	62.442
RCCW21002	90	52.32	42.88	34.287	45.186	52.8	56.722	69.77
RCCW21002	100	52.48	44.46	38.553	50.741	52.8	63.726	76.907
RCCW21002	110	54.53	45.47	42.69	56.547	52.9	70.852	83.92
RCCW21002	120	53.68	46.16	46.962	62.359	53	78.064	90.847
RCCW21002	130	54.11	47.06	51.253	68.289	53.1	85.383	97.659
RCCW21002	140	56.07	47.56	55.373	74.413	53.3	92.754	104.407
RCCW21002	150	55.52	48.34	59.602	80.571	53.5	100.22	111.054
RCCW21002	160	54.91	49.56	63.977	86.799	53.6	107.829	117.541
RCCW21002	170	55.23	49.78	68.332	93.071	53.7	115.462	123.998
RCCW21002	180	55.79	50.77	72.687	99.477	53.8	123.203	130.322
RCCW21002	190	54.2	51.89	77.29	105.859	53.9	131.071	136.494
RCCW21002	200	54.2	52.27	81.916	112.273	53.9	138.98	142.613
RCCW21002	210	50.89	53.17	86.965	118.484	53.7	146.974	148.608
RCCW21002	220	50.3	54.38	92.158	124.738	53.5	155.089	154.432
RCCW21002	230	48.94	54.93	97.534	130.91	53.3	163.249	160.178
RCCW21002	240	46.69	55.33	103.175	136.894	53	171.421	165.866

Example GN Geophysical Log (LAS)

WELL.	DEPT[M]	MagS	SSD	LSD	GAM	CAL	BRD	CDL	Temp	MC2F	MC4F	DT	LON	SHN	SPR
RCCW21002	94.00	4.95974	2.19288	1.97904	135.517	154.04	2.34032	2.17007	23.0578	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.10	3.78702	2.1423	2.12788	137.862	147.254	2.2571	2.17453	23.0501	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.20	5.52842	2.35561	2.12148	149.064	151.662	2.22115	2.23661	23.0543	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.30	7.11453	2.43379	2.09647	115.275	146.259	2.66444	2.3956	23.0678	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.40	7.92724	2.42288	2.11992	128.182	149.837	2.48757	2.34221	23.058	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.50	7.91142	2.36932	2.11556	92.6403	145.143	2.37032	2.28774	23.0602	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.60	3.61134	2.43447	2.09321	150.906	145.222	2.48471	2.34013	23.0676	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.70	3.01911	2.4574	2.05693	102.36	146.767	2.52144	2.34787	23.0502	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.80	2.00911	2.43273	2.20099	83.8973	149.821	2.59356	2.4092	23.0621	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	94.90	7.28132	2.67022	2.25118	87.9252	149.087	2.6771	2.53802	23.068	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	95.00	18.7248	2.977	2.31172	61.6571	148.914	3.02672	2.77107	23.0699	-999.25	-999.25	-999.25	-999.25	-999.25	-999.25
RCCW21002	95.10	25.4652	3.02669	2.39756	44.9238	147.579	3.06132	2.82406	23.066	-999.25	-999.25	-999.25	669.053	138.825	2815.51
RCCW21002	95.20	36.9461	3.05683	2.47179	111.238	145.198	3.02756	2.85806	23.068	-999.25	-999.25	-999.25	779.809	150.088	1693.96
RCCW21002	95.30	38.0277	2.89853	2.36321	90.787	144.164	3.00253	2.76053	23.07	-999.25	-999.25	-999.25	301.885	92.2989	2311.88
RCCW21002	95.40	54.1741	2.72114	2.32209	117.358	144.891	2.82615	2.61844	23.0681	-999.25	-999.25	-999.25	55.8572	42.0313	1840.02
RCCW21002	95.50	57.0324	2.38112	2.22472	98.6534	143.18	2.53224	2.37281	23.072	-999.25	-999.25	-999.25	56.3678	77.9389	1560.02
RCCW21002	95.60	52.0168	2.23367	2.05971	91.1485	147.858	2.24829	2.17915	23.0721	-999.25	-999.25	-999.25	64.2025	117.56	1807.55
RCCW21002	95.70	44.185	1.9206	1.849	95.5398	149.926	2.15212	1.96932	23.0756	-999.25	-999.25	-999.25	88.2252	134.822	2678.32
RCCW21002	95.80	37.7628	1.85569	1.89903	127.129	144.06	1.58579	1.77966	23.0584	-999.25	-999.25	-999.25	78.2571	132.799	2913.66
RCCW21002	95.90	25.1534	2.04006	1.95053	91.1033	148.665	2.26058	2.09097	23.0779	-999.25	-999.25	-999.25	75.0299	124.728	1209.43
RCCW21002	96.00	15.0692	2.23752	1.97772	87.6046	153.476	2.19304	2.14053	23.0722	-999.25	-999.25	-999.25	72.4028	76.9204	1200.55
RCCW21002	96.10	5.44644	2.11947	2.06339	132.57	150.81	2.33781	2.1672	23.08	-999.25	-999.25	-999.25	69.0821	89.1636	924.747
RCCW21002	96.20	3.25205	2.29558	2.13308	71.0585	144.118	2.14047	2.19888	23.0799	-999.25	-999.25	-999.25	67.8471	87.2586	924.942
RCCW21002	96.30	2.90054	2.57391	2.18754	70.7557	145.265	2.65329	2.47293	23.0758	-999.25	-999.25	-999.25	65.1364	77.8996	607.341
RCCW21002	96.40	4.94099	2.87057	2.26527	78.3224	143.53	2.72333	2.62184	23.0681	-999.25	-999.25	-999.25	63.5731	106.269	384.491
RCCW21002	96.50	8.74845	3.19592	2.32908	60.3551	143.444	3.08688	2.8784	23.0722	-999.25	-999.25	-999.25	62.9298	120.053	142.881
RCCW21002	96.60	18.5062	3.29177	2.38586	65.6977	144.261	3.22832	2.96539	23.08	-999.25	-999.25	-999.25	62.4088	130.335	16.5851
RCCW21002	96.70	49.0091	3.37254	2.57435	41.6948	146.607	3.24155	3.06339	23.08	-999.25	-999.25	-999.25	61.3384	122.498	15.6411
RCCW21002	96.80	60.7806	3.09806	2.49347	67.9313	147.101	3.11667	2.89867	23.0798	-999.25	-999.25	-999.25	59.9721	111.996	15.1854
RCCW21002	96.90	66.0001	2.70472	2.46542	135.411	144.998	2.84906	2.66578	23.0682	-999.25	-999.25	-999.25	59.1858	77.3322	14.0702
RCCW21002	97.00	58.361	2.54096	2.3344	114.861	144.787	2.50864	2.45467	23.08	-999.25	-999.25	-999.25	58.861	113.073	13.779
RCCW21002	97.10	33.4612	2.38968	2.15539	120.199	144.437	2.53399	2.35309	23.08	-999.25	-999.25	-999.25	57.8027	104.441	13.5318
RCCW21002	97.20	13.9919	2.27376	2.0274	135.518	147.645	2.2372	2.1768	23.08	-999.25	-999.25	-999.25	56.431	125.555	13.3294
RCCW21002	97.30	0.144183	2.26378	2.09436	143.133	143.889	2.20305	2.18513	23.08	-999.25	-999.25	-999.25	55.1849	109.389	13.4872
RCCW21002	97.40	0.823158	2.34691	2.01468	133.462	154.904	2.44749	2.27094	23.08	-999.25	-999.25	-999.25	53.8014	104.613	13.1529
RCCW21002	97.50	1.49303	2.0958	2.04768	139.237	158.38	2.31433	2.15	23.082	-999.25	-999.25	-999.25	50.9058	99.7756	12.9983
RCCW21002	97.60	1.64111	2.08997	2.0314	108.2	169.365	1.85067	1.99145	23.0802	-999.25	-999.25	-999.25	45.5369	106.009	12.9088
RCCW21002	97.70	1.69011	2.2854	2.00044	131.496	144.545	2.37383	2.225	23.0878	-999.25	-999.25	-999.25	42.495	114.388	12.6529
RCCW21002	97.80	2.12471	2.24688	1.92176	140.141	144.961	2.2594	2.13667	23.0802	-999.25	-999.25	-999.25	41.166	111.274	12.5947
RCCW21002	97.90	2.06411	1.79772	1.812	124.39	152.785	1.82915	1.80651	23.09	-999.25	-999.25	-999.25	40.5586	107.83	12.3301
RCCW21002	98.00	3.33935	1.69284	1.81404	117.714	150.387	1.40795	1.64113	23.09	-999.25	-999.25	-999.25	39.7034	112.363	12.135
RCCW21002	98.10	2.71811	2.03586	1.91761	115.858	145.209	2.09686	2.02857	23.09	-999.25	-999.25	-999.25	39.6915	127.022	11.8837
RCCW21002	98.20	4.32075	2.42709	2.09909	87.6237	144.195	2.34627	2.29162	23.09	-999.25	-999.25	-999.25	40.4644	140.273	11.5692
RCCW21002	98.30	8.6977	2.57956	2.25026	84.5552	144.617	2.74969	2.53366	23.0898	-999.25	-999.25	-999.25	41.0971	140.957	11.2142
RCCW21002	98.40	11.9449	2.65696	2.26145	74.6321	143.496	2.73328	2.54993	23.0822	-999.25	-999.25	-999.25	42.3492	134.174	10.0379
RCCW21002	98.50	22.5003	2.70128	2.2318	120.16	142.851	2.69864	2.5452	23.09	-999.25	-999.25	-999.25	43.319	125.645	9.53069
RCCW21002	98.60	27.3696	2.56772	2.12547	82.0259	145.23	2.72689	2.47268	23.09	-999.25	-999.25	-999.25	44.4635	60.5849	9.07082
RCCW21002	98.70	34.1703	2.55336	2.19611	106.228	143.535	2.57548	2.4396	23.09	-999.25	-999.25	-999.25	45.2514	41.1255	8.90854
RCCW21002	98.80	26.8908	2.51952	2.10184	130.577	142.231	2.64562	2.4176	23.09	-999.25	-999.25	-999.25	46.6098	39.022	8.64116
RCCW21002	98.90	27.3234	2.39568	1.99727	89.9034	141.801	2.52744	2.29897	23.09	-999.25	-999.25	-999.25	47.6069	37.6623	8.60351
RCCW21002	99.00	24.1176	2.28368	2.05984											

Table 7: Example Specific Gravity Data For Core Samples

Hole ID	Date	Core Type	Core Subtype	Depth From (m)	Depth To (m)	Length (cm)	Dry Weight (g)	Wet Weight (g)	Specific Gravity	Corresponding Sample Number and Interval		
RDCW21009	24/05/2022	HQ3	3/4	390.60	390.80	20	1138	734	2.8168	292196	387.3	392
RDCW21009	24/05/2022	HQ3	3/4	395.60	395.83	23	1376	906	2.9277	292197	392	397
RDCW21009	24/05/2022	HQ3	3/4	400.52	400.66	14	878	588	3.0276	292198	397	402
RDCW21009	24/05/2022	HQ3	3/4	406.00	406.19	19	1164	772	2.9694	292199	402	407
RDCW21009	24/05/2022	HQ3	3/4	411.29	411.49	20	1134	742	2.8929	292200	407	412
RDCW21009	24/05/2022	HQ3	3/4	414.58	414.83	25	1512	1006	2.9881	292201	412	417
RDCW21009	24/05/2022	HQ3	3/4	420.60	420.84	24	1514	1000	2.9455	292202	417	422
RDCW21009	24/05/2022	HQ3	3/4	424.26	424.42	16	892	582	2.8774	292203	422	427
RDCW21009	24/05/2022	HQ3	3/4	431.10	431.35	25	1548	1040	3.0472	292204	427	432
RDCW21009	24/05/2022	HQ3	3/4	436.40	436.58	18	1010	672	2.9882	292205	432	437
RDCW21009	24/05/2022	HQ3	3/4	439.52	439.75	23	1416	950	3.0386	292206	437	442
RDCW21009	24/05/2022	HQ3	3/4	442.71	442.97	26	1692	1142	3.0764	292207	442	447
RDCW21009	24/05/2022	HQ3	3/4	450.60	450.85	25	1458	956	2.9044	292208	447	452
RDCW21009	24/05/2022	HQ3	3/4	456.04	456.23	19	1230	826	3.0446	292209	452	457
RDCW21009	24/05/2022	HQ3	3/4	460.55	460.75	20	1126	766	3.1278	292210	457	462
RDCW21009	24/05/2022	HQ3	3/4	465.84	466.05	21	1262	832	2.9349	292211	462	467
RDCW21009	24/05/2022	HQ3	3/4	470.03	470.26	23	1358	888	2.8894	292212	467	472
RDCW21009	24/05/2022	HQ3	1/2	475.45	475.70	25	948	626	2.9441	292213	472	477
RDCW21009	24/05/2022	HQ3	3/4	480.79	481.00	21	1422	958	3.0647	292215	477	482
RDCW21009	24/05/2022	HQ3	3/4	485.31	485.51	20	1152	789	3.1736	292216	482	487
RDCW21009	24/05/2022	HQ3	3/4	490.85	491.10	25	1650	1118	3.1015	292217	487	492
RDCW21009	24/05/2022	HQ3	3/4	495.20	495.39	19	1118	756	3.0884	292218	492	497
RDCW21009	24/05/2022	HQ3	3/4	501.54	501.81	27	1650	1086	2.9255	292220	497	502
RDCW21009	24/05/2022	HQ3	3/4	505.77	506.00	23	1538	1052	3.1646	292221	502	507
RDCW21009	24/05/2022	HQ3	3/4	510.29	510.52	23	1886	1386	3.7720	292222	507	512
RDCW21009	24/05/2022	HQ3	3/4	516.17	516.43	26	1704	1144	3.0429	292223	512	517
RDCW21009	24/05/2022	HQ3	3/4	519.76	520.00	24	1726	1264	3.7359	292224	517	522
RDCW21009	24/05/2022	HQ3	3/4	523.84	524.04	20	1302	896	3.2069	292225	522	527
RDCW21009	24/05/2022	HQ3	3/4	530.00	530.23	23	1386	864	2.6552	292226	527	532
RDCW21009	24/05/2022	HQ3	3/4	535.95	536.19	24	1486	1010	3.1218	292227	532	537
RDCW21009	24/05/2022	HQ3	3/4	539.62	539.85	23	1512	1036	3.1765	292228	537	540.4

Appendix 2
Excerpts From McMahon QAQC Report

1 SUMMARY

1.1 Brief

This report details the QAQC (quality assurance, quality control) methods and outcomes employed by Hawson's Iron for their 2021 drilling program on laboratory and other test results.

The investigation of multiple sources of QAQC was performed for the magnetite recoveries (DTR Magnetite% / DTR Mags%) and chemical analyses (XRF on Head and Concentrate samples) was attained for sample composites from RC and diamond drilling.

The outcomes were evaluated against industry practice and certification standards and the methods found to be in accord with accuracy measures (precision and bias), and with prior programs outcomes (2016 program), for the intended purpose of ore resource estimation and planning.

Sampling and laboratory preparation and analytical errors (precision) are within industry standard tolerances, and without bias of significance.

DTR Magnetic outcomes for OREAS 700 CRM samples (and limited OREAS 701 samples) were biased low of certified averages and limits through insufficient sample supply, biasing the test an approximate absolute value of 0.5%. Future testing will ensure sufficient sample supply to the testing laboratory.

Outlying values were identified and excluded if justifiable process faults were found, or included if not.

Some low concentration CRM's gave outcomes outside expected relative precision and bias limits (low concentration samples are prone to this as testing errors often do not change with magnitude), but were always within the CRM control limits specified save one CRM noted below.

Loss on ignition (LOI) for one CRM value showed some higher values outside control limits, but had acceptable relative precision and bias outcomes. Moisture changes between certification and testing are suspected as a likely explanation for this one CRM.

1.2 Results Evaluation

1.2.1 Comparison Basis

Primary and duplicate samples from drill holes, plus lab duplicates, certified reference materials and blank samples were reviewed using statistical methods consistent with the QAQC report from the 2016 (prior) drilling program from Geochem Pacific, entitled "Hawsons Iron Project, QA Evaluation of the RC Drilling Program", 26th February 2017 (The Geochem Pacific report) for precision and bias.

The samples, methods and 2021 outcomes for evaluation described in this report are tabulated in the sections following along with outcomes from the prior 2016 program, and acceptable limits via the Geochem Pacific report & Certified Reference Materials (CRM's).

1.3 Outcomes

1.3.1 Davis Tube Recovery Magnetics (DTR Mags%)

Following are the summary outcomes from the DTR Mags% testing. Green cells indicate acceptable outcomes, orange cells, less acceptable outcomes.

The first outcomes quoted are for statistical methods as employed in the 2016 program for direct comparison of outcomes for relative errors, with the bracketed outcomes being McMahon Resources relative error data set average outcomes.

The latter method in the opinion of McMahon Resources is more accurate than the prior method (discussion made in report following). Using either set of outcomes gives practically identical findings as presented in this report.

QA Sample Type	QA Parameter	Test Parameter	Type	Relative Precision Average% (2 x APD) ¹			Relative Bias Average (RDP) ²			Number of Samples	
				2021*	2016	Acceptable Limits ³	2021*	2016	Acceptable Limits ³	2021	2016
Field duplicates of 5 m RC composites	Total precision / primary sampling error	DTR Magnetics (DTR Mags)	Sub Sets I, II & III - All Duplicates	31.3 (26.7)	24.1 ⁴	40	-5.0 (-2.5)	-1.7	5% Intra-lab	78	23
			Sub-Set I - Equal Mass Duplicates	40.5 (29.9)			-12.5 (-11.2)			26	
			Sub-Set II - Half-Split, Equal Mass Duplicates	28.4 (25.1)	24.1 ⁴	40	-3.0 (2.4) ⁷	-1.7	5% Intra-lab	26	23
			Sub-Set III - Half-Split, Proportional Mass Duplicates	25.2 (22.8)			0.6 (4.0)			26	
Field pairs of 5 m RC composites	Field halving precision / primary sampling error		All Duplicates	26.8 (15.9)	20.4	40	-2 (-1.3)	-3.7	5% Intra-lab	73	87
Certified Reference Materials (CRM's)	Analytical precision / analytical error		All compared with OREAS 700 CRM	4.4 (4.4) ⁵	3	5	-5.0 (-5.1) ⁶	Not calculated	2% Intra-lab	99	10
			All compared with OREAS 701 CRM	0.7 (0.7) ⁵			-4.4 (-4.3) ⁶			2	9

*Green shading denotes acceptable outcomes, orange less acceptable.

¹APD - absolute pair difference; the absolute value of the difference between the primary and duplicate sample pair, divided by the mean of the sample pair and multiplied by two (2) to attain the relative precision value at 95% confidence. All samples tested are then averaged to give the relative precision average.

²RDP - the relative difference between pairs; the difference between the primary and duplicate sample pair, divided by the mean of the sample pair to attain the relative bias. All samples tested are then averaged to give the relative bias average.

³Limits are per Table 4 of the Geochem Pacific report.

⁴Based on 2010 result of spaired field duplicates (Hawson's Iron Project) applied to 2016 data by Geochem Pacific.

⁵Mathematical adjustment with bias removed and two outlying values removed.

⁶Low mass of CRM sample supplied to the lab may be producing bias. Further investigation to be undertaken with potential modified (increased) future sample mass. Two outlying values removed.

⁷Calculated absolute bias flip from negative to positive as the weight on the bias outcome changes with the magnitude of the value in 2016 calculation method.

Table 1: Samples, methods, outcomes and comparisons for the 2021 drill program, DTR Mags%.

2021 v 2016 Data - The magnitude of 2021 outcomes for all QA Sample Types per the above table were in general accord with those of the 2016 program where available.

Field Duplicates - Field duplicates defining total precision / primary sampling error outcomes for all data subsets combined were as follows.

1. **DTR Mags%¹ / Relative Precision²** - DTR Mags% gave a relative precision average of 31.3%, which was acceptable compared with the limits defined³ of 40%.

This would likely be further reduced if discounting Subset I which suffered some in field sampling errors (explanatory notes given below).

2. **DTR Mags% / Relative Bias⁴** - DTR Mags% gave a relative bias average of -5.0% (duplicate low of original), which was acceptable compared with the limits defined.

As for the precision, the bias would likely be further reduced if discounting Subset I which suffered some in field sampling errors (explanatory notes given below).

3. Subset I – Equal Mass Duplicates – Subset I showed high values (low accuracy) relative precision and bias compared with the Subsets II & III.

For Subset I, a flaw in the manual sampling method employed is thought to have been identified upon review.

The method was to use a sampling scoop to take horizontal increments from a mixed, flattened bag with the end open to attain the equal mass portions. This is less precise than other sub-division methods (more discussion below), due to the significant mass for each one metre section available, that had to be manually sampled (at least double the mass required usually) into a much smaller equal mass increment for combination into five metre composites.

Further, Half-Split Equal Mass and Half-Split Proportional Mass Duplicates showed more precise outcomes as minimal mass was left for manual sampling of the former, the riffle giving a representative split, thus minimising this error.

¹Magnetics % determined from Davis Tube Recovery method.

²Relative Precision – the variability relative to the data average of the duplicate sample pair examined (thus standardised to 100% of the duplicate pair sample average). Average of all outcomes. 95% statistical confidence.

³Per Table 4 of the Geochem Pacific report.

⁴Relative Bias – the mean difference of the duplicate sample pair relative to the data average of the duplicate pair examined (thus standardised to 100% of the duplicate pair sample average). Average of all outcomes.

Field Pairs - Field pairs defining field halving precision / primary sampling error outcomes for all data were as follows.

1. DTR Mags% / Relative Precision - DTR Mags% gave a relative precision average of 26.8%, which was acceptable compared with the limits defined of 40%.
2. DTR Mags% / Relative Bias - DTR Mags% gave a relative bias average of -2.0% (duplicate low of original), which was acceptable compared with the limits defined.

OREAS 700 Certified Reference Material (CRM) – the “OREAS 700” CRM outcomes define analytical precision / analytical error outcomes at lower DTR Magnetics% values. The outcomes were as follows*.

*Two outlying values removed through lab feedback that testing was compromised.

1. DTR Mags% / Relative Precision - DTR Mags% gave a relative precision average of 4.4%, which was acceptable compared with the limits defined of 5%.

The precision was calculated with bias removed - the bias shown (discussed following) increasing the precision value also. The outcome indicates that if the bias was removed, the variability is within acceptable limits.

2. DTR Mags% / Relative Bias - DTR Mags% gave a relative bias average of -5.0% (original low of CRM), which was not acceptable compared with the limits defined of 2%.

The absolute bias was calculated at -0.55%. That is, 0.55% lower DTR outcomes.

The testing laboratory was made aware of this difficulty early in testing via data processing checks and maintained that the outcomes were due to the supplied OREAS 700 mass of 50 grams being lower than the DTR test mass requirement of 150 grams.

In order to alleviate this difficulty, Hawson’s will supply additional sample mass for future programs.

OREAS 701 Certified Reference Material (CRM) – the “OREAS 701” CRM outcomes define analytical precision / analytical error outcomes at higher DTR Magnetics% values.

Two values only were tested, both at low mass as for the OREAS 700 samples described previously, resultingly giving two values that were within limits, but generally low in value and similar in magnitude to the low bias of the OREAS 700 CRM.

As per the OREAS 700, the testing laboratory maintained that the low outcomes were due to the supplied OREAS 701 mass of less than 150 grams as being required for testing and thus effecting a faulty outcome.

In order to alleviate this difficulty, Hawson's will supply additional sample mass for future programs.

1.3.2 Iron % in Head Sample (Fe%)

Following are the summary outcomes from the Fe% testing in the Head Sample. Green cells indicate acceptable outcomes, orange cells, less acceptable outcomes.

The first outcomes quoted are for statistical methods as employed in the 2016 program for direct comparison of outcomes for relative errors, with the bracketed outcomes being McMahon Resources relative error data set average outcomes.

The latter method in the opinion of McMahon Resources is more accurate than the prior method (discussion made in report following). Using either set of outcomes gives practically identical findings as presented in this report.

QA Sample Type	QA Parameter	Test Parameter	Type	Relative Precision Average% (2 x APD ¹)			Relative Bias Average (RDP ²)			Number of Samples	
				2021*	2016	Acceptable Limits ³	2021*	2016	Acceptable Limits ³	2021	2016
Field duplicates of 5 m RC composites	Total precision / primary sampling error	Head Fe	Sub Sets I, II & III - All Duplicates	15.3 (15.6)	12.7 ⁴	40	-0.9 (-1.0)	Not calculated	5% intra-lab	73	23
			Sub-Set I - Equal Mass Duplicates	17.1 (17.3)			-4.8 (-5.5)			25	
			Sub-Set II - Half-Split, Equal Mass Duplicates	15.2 (15.1)	12.7 ⁴	40	0.1 (0.5)	Not calculated	5% intra-lab	24	23
			Sub-Set III - Half-Split, Proportional Mass Duplicates	13.4 (14.3)			2.1 (1.9)			24	
Field pairs of 5 m RC composites	Field halving precision / primary sampling error	Head Fe	All Duplicates	6.4 (6.0)	10.6	40	0.2 (0.4)	Not calculated	5% intra-lab	73	87
Certified Reference Materials (CRM's)	Analytical precision / analytical error	Head Fe	All compared with OREAS 700 CRM	1.5 (0.7)	0.9		0.7 (0.7)			92	10
			All compared with OREAS 701 CRM	0.7 (0.7)	0.8	5	0.0 (0.0)	Not calculated	2% intra-lab	15	9
			All compared with GIOP-96 CRM	0.5 (0.5)	Not calculated		-0.2 (-0.2)			13	17
			All compared with GIOP-118 CRM	0.2 (0.2)			0 (0.0)			12	18

*Green shading denotes acceptable outcomes, orange less acceptable.

¹APD - absolute pair difference; the absolute value of the difference between the primary and duplicate sample pair, divided by the mean of the sample pair and multiplied by two (2) to attain the relative precision value at 95% confidence. All samples tested are then averaged to give the relative precision average.

²RDP - the relative difference between pairs; the difference between the primary and duplicate sample pair, divided by the mean of the sample pair to attain the relative bias. All samples tested are then averaged to give the relative bias average.

³Limits are per Table 4 of the Geochem Pacific report.

⁴Based on 2010 result of speared field duplicates (Hawson's Iron Project) applied to 2016 data by Geochem Pacific.

Table 2: Samples, methods, outcomes and comparisons for the 2021 drill program, Fe%.

2021 v 2016 Data - The magnitude of 2021 outcomes for all QA Sample Types per the above table were in general accord with those of the 2016 program where available.

Field Duplicates - Field duplicates defining total precision / primary sampling error outcomes for all data subsets combined were as follows.

1. **DTR Head Fe%¹ / Relative Precision** - Head Fe% gave a relative precision average of 15.3%, which was acceptable compared with the limits defined of 40%.

2. DTR Head Fe% / Relative Bias - Head Fe% gave a relative bias average of -0.9% (duplicate just low of original), which was acceptable compared with the limits defined of 5%.

¹Iron% determined from the Head (ore) sample from the XRF analytical (X-ray fluorescence).

Note that Sub Set I gave relative precision values on the accepted limits. Difficulty with Sub Set I sampling representation is discussed in the prior section on DTR Magnetics.

Field Pairs - Field pairs defining field halving precision / primary sampling error outcomes for all data were as follows.

1. DTR Head Fe% / Relative Precision - Head Fe% gave a relative precision average of 6.4%, which was acceptable compared with the limits defined of 40%.
2. DTR Head Fe% / Relative Bias - Head Fe%% gave a relative bias average of 0.2% (duplicate just high of original), which was acceptable compared with the limits defined of 5%.

Note is made that the 2016 and 2021 programs had slight method differences.

OREAS 700 Certified Reference Material's (CRM) - the "OREAS 700" CRM outcomes define analytical precision / analytical error outcomes at lower DTR Magnetics% values for iron (Fe%) in the Head Assay sample. The outcomes were as follows.

1. DTR Head Fe% / Relative Precision - Head Fe% gave a relative precision average of 1.5%, which was acceptable compared with the limits defined of 5%.
2. DTR Head Fe% / Relative Bias - Head Fe% gave a relative bias average of 0.7% (original just high of CRM), which was acceptable compared with the limits defined of 2%.

OREAS 701 Certified Reference Material's (CRM) - the "OREAS 701" CRM outcomes define analytical precision / analytical error outcomes at higher DTR Magnetics% values for iron (Fe%) in the Head Assay sample. The outcomes were as follows.

1. DTR Head Fe% / Relative Precision - Head Fe% gave a relative precision average of 0.7%, which was acceptable compared with the limits defined of 5%.
2. DTR Head Fe% / Relative Bias - Head Fe% gave a relative bias average of 0%, which was acceptable compared with the limits defined of 2%.

GIOP-96 Certified Reference Material's (CRM) - the "GIOP-96" CRM outcomes define analytical precision / analytical error outcomes at higher iron (Fe%) in the Head Assay sample. The outcomes were as follows.

1. DTR Head Fe% / Relative Precision - Head Fe% gave a relative precision average of 0.5%, which was acceptable compared with the limits defined of 5%.
2. DTR Head Fe% / Relative Bias - Head Fe% gave a relative bias average of -0.2% (original just low of CRM), which was acceptable compared with the limits defined of 2%.

GIOP-118 Certified Reference Material's (CRM) - the "GIOP-118" CRM outcomes define analytical precision / analytical error outcomes at higher iron (Fe%) in the Concentrate Assay sample. The outcomes were as follows.

1. DTR Head Fe% / Relative Precision - Head Fe% gave a relative precision average of 0.2%, which was acceptable compared with the limits defined of 5%.
2. DTR Head Fe% / Relative Bias - Head Fe% gave a relative bias average of 0%, which was acceptable compared with the limits defined of 2%.

1.3.3 Laboratory Duplicates / Measure Splitting Precision – Head Fe%

Head Iron (Fe%) laboratory duplicates for the measurement component (XRF measuring device) were tested from the same prepared sample.

These gave a relative precision average and a relative bias average of 3.1% & -1.1% respectively which were in accord with analytical precision limits as specified in Table 4 of the Geochem Pacific Report of 3.5% and 2% respectively.

1.3.4 CRM Values – OREAS 700 Values (Other than DTR Mags% & Fe%)

Following are the summary outcomes from the OREAS CRM testing of the Head Sample (ore).

The first outcomes quoted are for statistical methods as employed in the 2016 program for direct comparison of outcomes for relative errors, with the bracketed outcomes being McMahon Resources relative error data set average outcomes.

The latter method in the opinion of McMahon Resources is more accurate than the prior method (discussion made in report following). Using either set of outcomes gives practically identical findings as presented in this report.

QA Sample Type	QA Parameter	Test Parameter	Type	Relative Precision Average% (2 x APD ¹)			Relative Bias Average (RDP ²)			Number of Samples		CRM (3SD) Limits Met ³	CRM Limits Comments	
				2021*	2016	Acceptable Limits ³	2021*	2016	Acceptable Limits ³	2021	2016			
Certified Reference Materials (CRM's)	Analytical precision / analytical error	SiO2	All compared with OREAS 700 CRM	1.6 (0.4)	Not calculated	5	Not calculated	2% intra-lab	94	9	✓	One LOI on limit		
				Al2O3							3 (1.2)		1.5 (1.5)	✓
				P							2.6 (1.4)		1.2 (1.2)	✓
				S							5.2 (5.2)		0.2 (0.2)	✓
				TiO2							2.5 (2.5)		-0.1 (0.0)	✓
				LOI							9.1 (8.9)		2.1 (2.3)	✓
		SiO2	All compared with OREAS 701 CRM	1.3 (0.6)	Not calculated	5	Not calculated	2% intra-lab	15	10	✓	LOI all within standard deviation limits.		
				Al2O3							3.5 (1.3)		1.7 (1.8)	✓
				P							3.9 (1.1)		2 (2)	✓
				S							2.3 (2.3)		0.5 (0.5)	✓
				TiO2							3.8 (3.5)		0.6 (0.6)	✓
				LOI							24.5 (20.5)		-5.2* (-4.4)	✓
		SiO2	All compared with GIOP-96 CRM	0.5 (0.4)	Not calculated	5	Not calculated	2% intra-lab	13	17 (GIOP-102)	✓	One Fe on lower limit. LOI very small and 0.1% absolute bias, but within CRM Limits.		
				Al2O3							3 (1.7)		1.4 (1.5)	✓
				P							2.8 (2.8)		0.1 (0.1)	✓
				S							N/A ⁴		N/A ⁴	✓
				TiO2							24.8 (29.4)		12.4 (14.3)	✓
				LOI							13.7 (13.9) ⁵		-26.6 (-23.1)	✓
		SiO2	All compared with GIOP-118 CRM	8.7 (4.8)	Not calculated	5	Not calculated	2% intra-lab	12	18	✓	LOI 0.1% absolute bias and several outcomes high of CRM 3SD upper limit.		
				Al2O3							0 (0)		0 (0)	✓
				P							32.3 (19.2)		-16.2 (-18.2)	✓
				S							N/A ⁴		N/A ⁴	✓
				TiO2							0 (0)		0 (0)	✓
				LOI							4.1 (1.9) ⁵		2 (2)	✗

*Green shading denotes acceptable outcomes, orange less acceptable.
¹APD - absolute pair difference; the absolute value of the difference between the primary and duplicate sample pair, divided by the mean of the sample pair and multiplied by two (2) to attain the relative precision value at 95% confidence. All samples tested are then averaged to give the relative precision average.
²RDP - the relative difference between pairs; the difference between the primary and duplicate sample pair, divided by the mean of the sample pair to attain the relative bias. All limits are per Table 4 of the Geochem Pacific report.
³Limits are per Table 4 of the Geochem Pacific report.
⁴No CRM data available for comparison.
⁵Bias removed estimate.
⁶Bias CRM x3 standard deviation (3SD) limits set from CRM recommendations.

Table 3: Samples, methods, outcomes and comparisons for the 2021 drill program.

The above table shows the following.

1. Precision & Bias Outcomes Generally Within Acceptable Ranges – the green coloured cells for the three columns noted indicate where the precision and bias are within acceptable limits for the testing as defined by relative precision for 2 standard

deviations, relative bias, and in relation to CRM three standard deviation limits (as suggested for use by the CRM supplier) respectively.

Where trace concentrations are measured (very low compared with other CRM's), such as S & LOI in OREAS 700, LOI in OREAS 701, TiO₂ & LOI in GIOP-96, and P in GIOP-118, unacceptable outcomes are flagged for precision & bias, yet the outcomes were within accepted CRM Three Standard Deviation Limits.

Four samples in the GIOP-118 showed value high of CRM Three Standard Deviation Limits, yet precision and bias were within expected limits. Changes in moisture of the tested sample compared with original CRM outcome testing could account for such as bias (higher moisture, higher LOI outcome).

2. Precision & Bias Outcomes and / or Control Limits Met - each element either had precision and bias outcomes or control limits met jointly or in at least one instance. Some minor biases in regards LOI were noted, however these could be due to differences in moisture between certification and sample despatch / testing.

Thus the testing for all elements examined appears to be within expectation and reasonably enacted giving confidence in resource data outcomes.

1.3.5 Blanks

Blanks were found to be in keeping with ranges observed in the 2016 program for DTR Mags% (average of 0.20%) and Head Fe% (average of 0.50%).

3.1.3 Half-Split Equal Mass Duplicates

Following is a chart and statistics for Half-Split Equal Mass Duplicates for 26 samples (of all 78 samples).

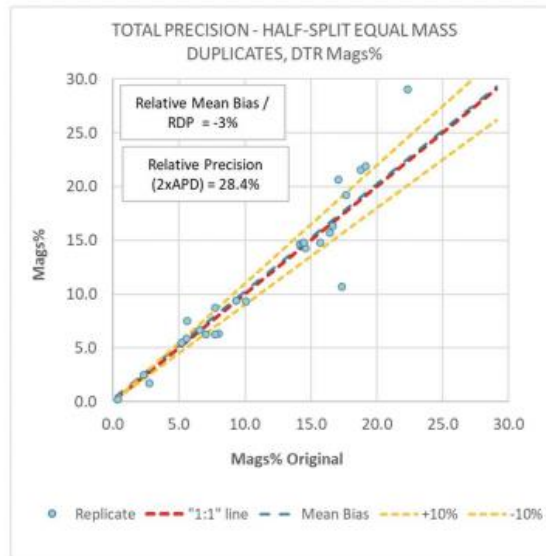


Figure 8: Half-Split Equal Mass Duplicates for DTR Mags% chart & statistics.

3.1.4 Half-Split Proportional Mass Duplicates

Following is a chart and statistics for Half-Split Proportional Mass Duplicates for 26 samples (of all 78 samples).

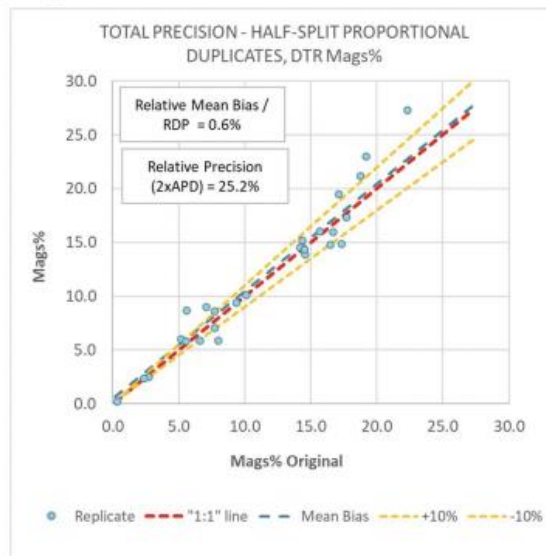


Figure 9: Half-Split Proportional Duplicates for DTR Mags% chart & statistics.

HIO Exploration Target Estimate 2021-22

28/09/2022

There has been no change to tonnage estimates in this September 2022 edition, but typographical errors that existed in the July 2022 edition have been corrected.

Hawsons Iron Ltd upgraded its Exploration Target in July 2022 to 5-18 billion tonnes at a recoverable magnetic fraction via Davis Tube Recovery (DTR) of 7.5% to 33.6% and a potential iron concentrate grade range of 65.3% to 70.6% (see Table 1). The potential quantity and grade of the Exploration Target is conceptual in nature only. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

This upgrade is derived from:

- 1) The existence and continuity of high amplitude and linear airborne magnetic signatures discrete to the mineralisation;
- 2) Existing holes in the current Mineral Resources have confirmed the magnetic anomalies as being the source of the magnetite mineralisation
- 3) An average density of known mineralisation of 3.10t/m³; and
- 4) The stratigraphic nature to the mineralisation and its associated geometry indicate the expectation of continuation at depth.

The assay results shown in this report relate to the samples taken for the intersections in the drillholes.

Table 1: Exploration Target tonnage (Billion Tonnes) and grade approximations.

Target Area	Approx. Tonnes Range (Bt)		Approx. DTR% Range		Approx. Concentrate Fe% Range	
	Min	Max	Min	Max	Min	Max
Core/Fold	1	1	10.0	12.5	67.5	69.5
Dam	0	1	7.4	27.4	68.9	69.9
Limb	2	8	7.6	30.1	65.7	70.1
T	1	5	7.5	54.7	61.8	71.4
Wonga	1	3	5.2	43.4	62.4	71.9
	5	18	7.5	33.6	65.3	70.6

Table 2 below outlines the parameters used to determine Exploration Target tonnage approximations for the target areas within the Hawsons Exploration Licence Areas.

Table 2: Parameters used to derive approximate tonnages.

Target Area	No of Bands	Approx. Strike Range (km)		Approx. Thickness Range (m)		Approx. Width Range (m)		Approx. Volume Range (Million m ³)		Approx. Tonnes Range (Bt)	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Core/Fold	5	See H&S July 2022 Resource report.								1	1
Dam	1	5.0	11.0	100	273	250	300	125	899	0	3
Limb	1 to 4	9.0	19.0	100	250	400	450	360	2138	1	7
T	1	7.0	14.0	100	120	400	600	280	1008	1	3
Wonga	?3	7.5	8.1	100	250	600	750	450	1519	1	5
	Totals/Aves	28.5	52.1	100	223	413	525	1215	5564	5	18

The total number of drillholes available in each of the areas outside of the mine pitshell area are: 1 at Dam, 7 at Limb, 12 in the T area and 6 at Wonga.

Table 3 shows a selection of the drillholes within these various deposit areas that have intersected mineralisation and that have lithology records to indicate they are still in mineralisation at total depth (TD). The availability of assay data for these holes is shown in Table 3. The assay analyses were conducted by ALS Laboratory, Perth.

Table 3: Selected drillholes intersecting mineralisation within Dam, Limb, T and Wonga areas with assay approximations.

Deposit Area	Hole Name	No. Samples	Assay Top Depth (m)	Assay Base Depth (m)	Intersection Thickness (m)	Total Depth (m)	Approx Ave DTR%	Approx Ave Concentrate Fe%
Dam	RC10HA007	9	93.0	227.0	134.0	272.5	14.90	69.37
Limb	RC10HA001	10	65.0	230.0	165.0	230.0	15.89	68.43
Limb	RC10HA009	3	112.0	135.0	23.0	250.0	14.39	69.63
T Area	RC10BRP006	13	120.0	250.0	130.0	250.0	14.85	69.26
T Area	RC10BRP008	4	89.0	125.0	36.0	249.0	12.75	70.05
T Area	RC10BRP027	22	78.0	300.0	222.0	300.0	12.22	68.23
T Area	RC10BRP044	20	98.0	270.0	172.0	270.0	12.86	70.44
Wonga	DD10HA003	34	121.3	300.0	178.7	300.0	15.00	67.26
Wonga	RC10HA012	39	28.0	291.4	263.4	295.5	15.22	60.03

The range in DTR% and concentrate Fe% was determined by averaging the full set of sample interval data for holes within each Target area shown above.

The new Mineral Resources estimate for the main Hawsons prospects has included potentially economic material in the oxide/transition zone. The same may be the case for the Exploration Targets. Most of the CAP drilling had holes that stopped in mineralisation and the expectation would be that there is additional exploration potential down dip from the current drill intercepts.

Figure 1 shows the location of the magnetic anomalies which form the basis for the surface extents of the Exploration Targets (also labelled in the diagram). The diagram also shows the location of some of the drillholes used in the target assessment.

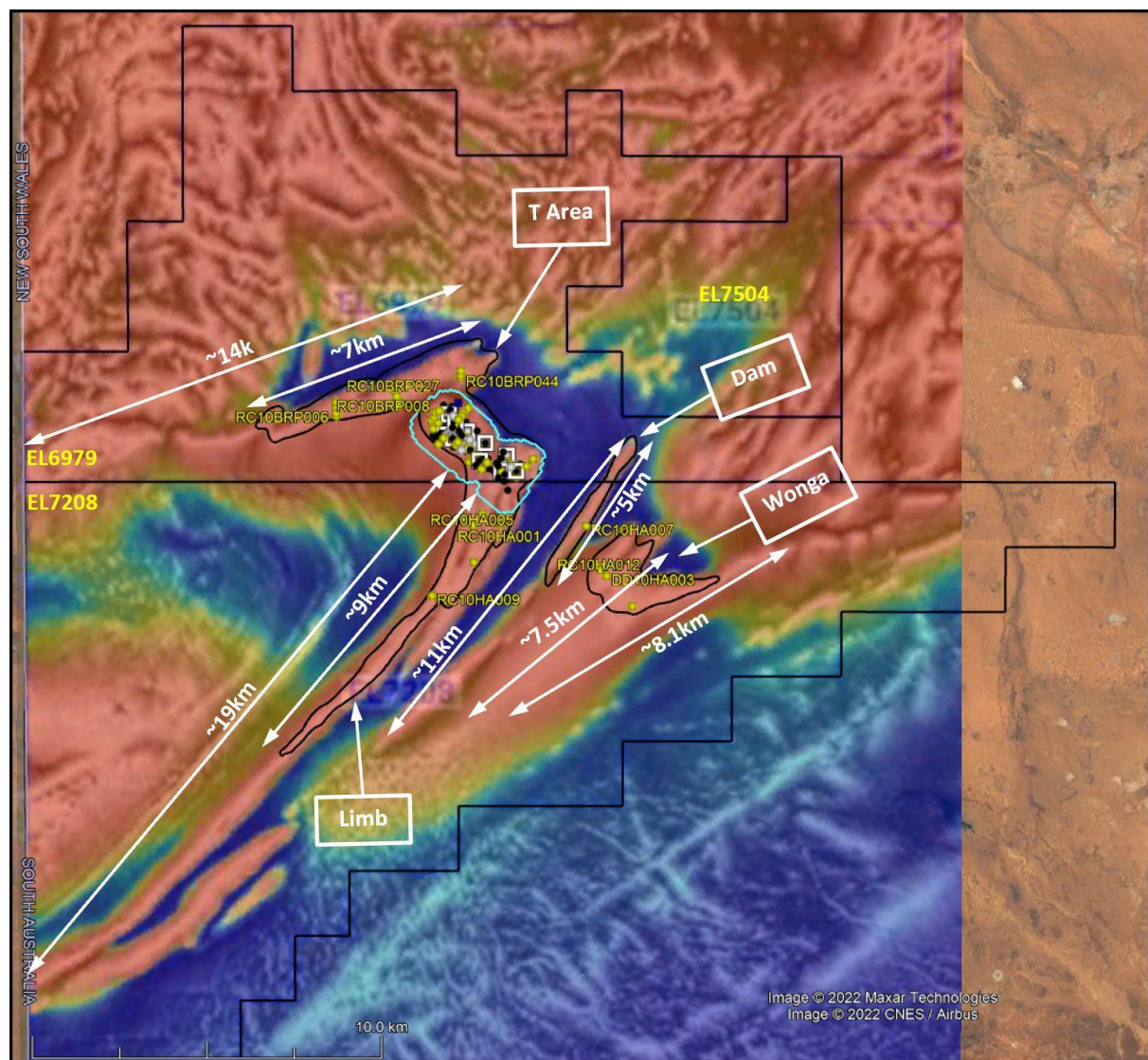


Figure 1: Airborne magnetics (TMI RTP Tilt Filtered) showing potential mineralization zones, selected drillholes and the extents of the Exploration Target areas used in the conceptual approximations.

Exploration activities, including ground-borne geophysical surveys and drilling, to investigate the Exploration target areas further is expected to be undertaken between 2023-2025.

This Exploration Target report is a statement of an estimate of the exploration potential for additional quantities of mineralisation that are contained in satellite deposits outside of the main (proposed mine pitshell) Hawsons mineral deposit. Hawsons sits in a defined geological setting and this Exploration Target is quoted as a range of tonnes and a range of grade that relates to mineralisation for which there has been insufficient exploration to estimate a Mineral Resource.

The data in this report that relates to Exploration Target for the Hawsons Magnetite Project is based on information evaluated by Mr Wes Nichols who is a Member of the Australian Institute of Mining and Metallurgy and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code"). Mr Nichols is a full-time employee of Hawsons Iron Ltd and he consents to the inclusion in the report of the Exploration Target approximations in the form and context in which they appear.

30/09/2022

Competent Person's Consent Form

Pursuant to the requirements of ASX Listing Rule 5.6 and clause 8 of the 20012 JORC Code (Written Consent Statement)

Report Description

ASX Announcement :

Hawsons Iron Limited is releasing to the ASX an update to the Mineral Resource estimates for the Hawsons Magnetite Project. Includes the latest resource estimates for the Core and Fold Deposits. The new resource estimates are reported at a 6% DTR cut off and includes the results from a substantial amount of infill drilling completed in 2021/22.

Resource Estimate Table from H&S Consultants Resource Estimate memo for the Hawsons Magnetite Project, 30th September 2022.

30th September 2022

Statement

I, Simon Tear confirm that:

- I have read and understood the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("2012 JORC Code").
- I am a Competent Person as defined by the 2012 JORC Code, having five years experience which is relevant to the style of mineralisation and type of deposit described in the Report, and to the activity for which I am accepting responsibility.
- I am a Member of The Australasian Institute of Mining and Metallurgy
- I have reviewed the Report to which this Consent Statement applies.
- I am a Director of H & S Consultants Pty Ltd and was engaged by Hawsons Iron to prepare the documentation for the Mineral Resources, for the period ended September 2022.
- I verify that the tables fairly and accurately reflect the Mineral Resources in the form and context in which they appear, and the information in my supporting documentation relating to Mineral Resources.

CONSENT

I consent to the release of the Report and this Consent Statement by the directors of:

Hawsons Iron Limited

Signature of Competent Person:



Simon Tear, Esq
AusIMM Membership No. 202841

Date:

30th September 2022

Professional Membership:

MAusIMM, MIOM3, PGeo, EurGeol

Signature of Witness:



Witness Name and Place of Residence:

Luke A Burlet
Director
H & S Consultants Pty Ltd
Belrose NSW 2085