

ASX Announcement

25 March 2024



DRILLING APPROVALS RECEIVED FOR GASCOYNE EAST PROJECT

Odessa Minerals Limited (ASX:ODE) ("Odessa" or the "Company") is pleased to provide an update on its Gascoyne East Project ("Project") in the Gascoyne region of Western Australia.

Highlights:

- Completion of lithological and structural interpretation from geophysical datasets
- PoW approval for Phase 1 aircore drilling to assist bedrock mapping
- Geophysical interpretation has confirmed drill targets for:
 - Intrusion-related porphyry and Iron Oxide Copper-Gold (IOCG) mineralisation
 - Magmatic Ni-Cu-PGE mineralisation within a distinct layered mafic intrusion
 - Orogenic and intrusion-related gold mineralisation within the Dalgaringa Supersuite and Camel Hills Metamorphics.
 - Intrusion-related gold and base metal deposits within the Edmund Basin
 - Sedimentary-hosted base metal deposits in the Edmund Basin analogous to the Abra deposit
- At-surface uranium targets identified through airborne radiometric survey data

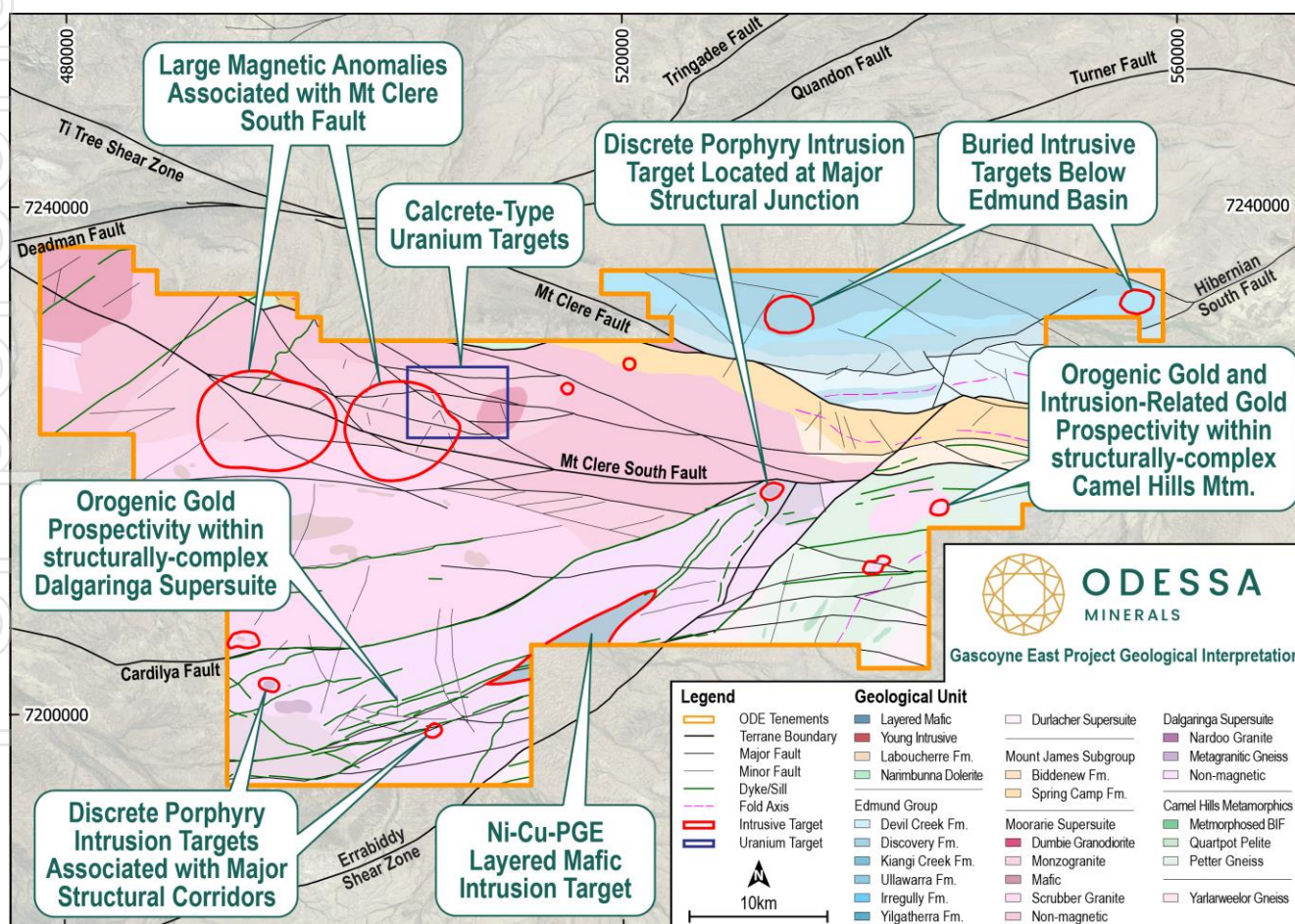


Figure 1: Interpreted bedrock geology with key intrusion and uranium targets outlined.

Exploration Plan

Target Generation

The Gascoyne East Project is one of the most under-explored areas of the emergent Gascoyne Province. Due to being almost entirely concealed under a thin veneer of transported cover, previous explorers have largely overlooked the area encapsulated by Odessa's Gascoyne East Project, despite multiple mantle-tapping structures transecting the Project along strike from known mineralisation.

Odessa has now completed initial target generation through detailed litho-structural interpretation of the recently acquired airborne gradiometer-magnetic and radiometric data (Figure 1).

Multiple intrusion-related targets have been highlighted across the Project, including a layered mafic intrusive in the south, that is prospective for Ni-Cu-PGE, large-scale intrusions that are prospective for IOCG mineralisation, multiple discrete porphyry Cu-Au targets throughout the region, and base metal targets within the Edmund Basin.

Additionally, several uranium anomalies have been highlighted by radiometric survey data across the Project, coincident with calcrete deposits mantling fault structures, within an outcrop of the Moorarie Supersuite granite, a potential host to uranium and REE carbonatite mineralisation (Figure 2).

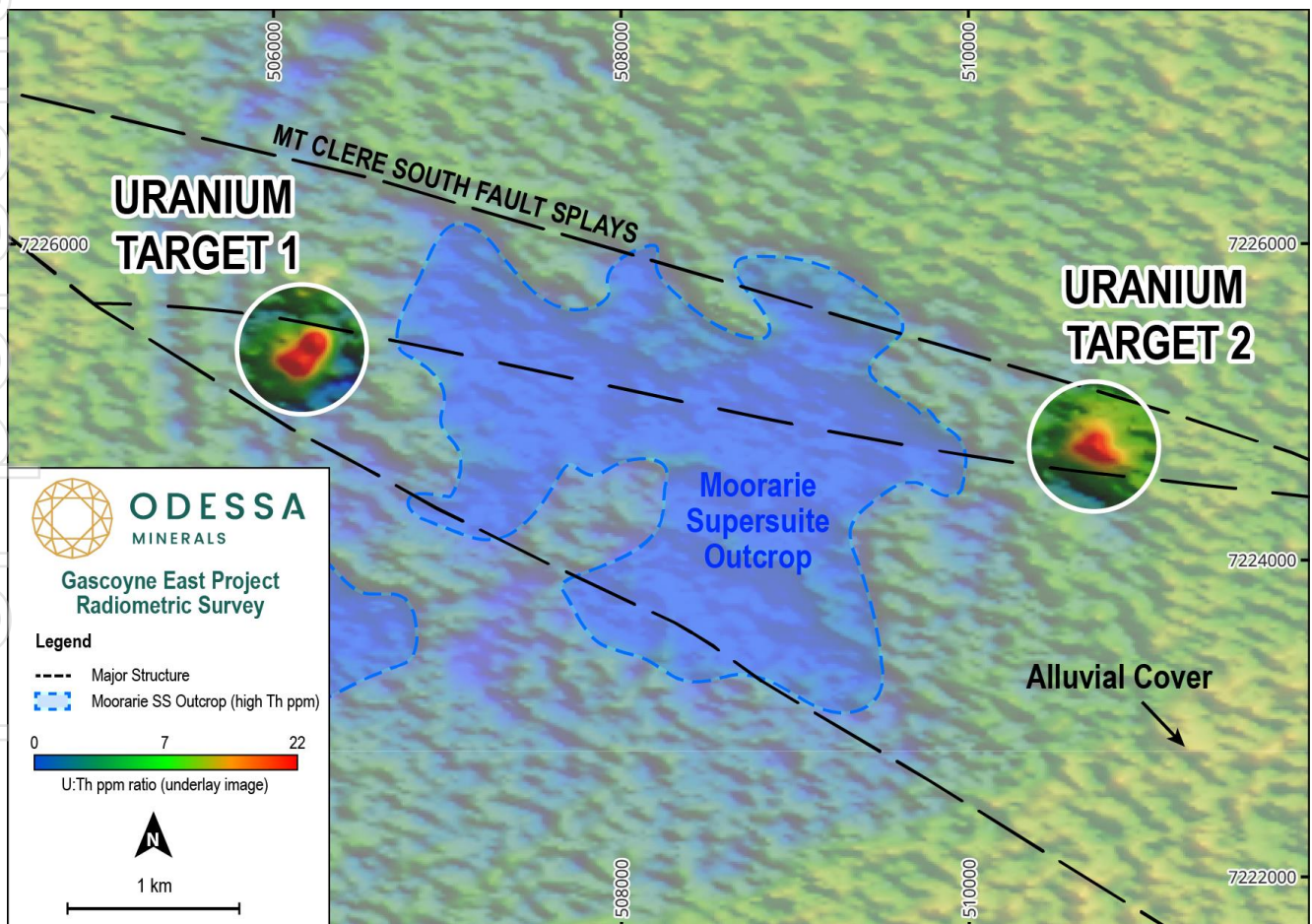


Figure 2: Radiometric uranium targets mantling fault splays of the Mt Clere Fault System.

Aircore Drilling

With no previous drilling and a lack of exposure, the basement lithologies remain almost entirely inferred from geophysical datasets. As such, a mineral systems-based approach to exploration at the Project is required to build up high-quality regional datasets that can inform targeted and impactful exploration across the highly prospective Project. As the company has now completed acquisition and interpretation of high resolution magnetic and radiometric data, drilling is required to confirm and update current interpretations.

Phase 1 aircore drilling is planned predominantly along existing tracks with hole spacings ranging from 200m to 400m. This round of drilling aims to intercept basement lithologies in fresh rock below the transported cover material to validate the litho-structural basement geology interpretation of geophysical data (Figure 1), as well as test key structural corridors and intrusive target features. Bottom-of-hole core of fresh rock will be collected to conduct petrographical and petrophysical analysis alongside multi-element geochemical characterisation of lithologies.

Upon completion of Phase 1 drilling, the basement geology model will be updated, and targets re-ranked accordingly for follow-up Phase 2 drill testing for mineralisation at depth associated with intrusion-related systems.

The Company has received PoW approval from the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) to conduct air core drilling across the Project as part of the Phase 1 drill campaign scheduled to commence in June 2024.

Mapping and Sampling

Though the majority of the tenure is covered by transported material, a portion of the Edmund Basin carbonates in the northeast are partially exposed. According to Open File data, no work has ever been completed across the exposures.

Odessa will conduct systematic mapping and rock chipping of the carbonate sequence for sedimentary-hosted base metal potential, as well as sampling of quartz veining and sheared outcrops associated with the Hibernian South fault that is host to the Mt Edgerton Gold Deposit located 20km along strike.

First-pass rock chipping will also be conducted across the two radiometric uranium anomalies (Figure 2) to assess the tenor of anomalism, confirm the deposit style, and evaluate the link between the Mt Clere South Fault system and uranium mineralisation.

Gravity Surveying

Detailed gravity surveying is being considered across the Camel Hills Metamorphic sequence to delineate the contacts between the Quartpot pelite, Petter calc-silicate gneiss and BIF units.

The Camel Hills Metamorphics are interpreted to be folded and later transected by the confluence of the Errabiddy Shear Zone, the Mt Clere South Fault and the Hibernian South Fault. The strong rheological contrasts created by the interbedded units, iron-rich BIF and mafic chemical traps, dilation generated by folding/shearing, and the fluid conduits provided by shearing and faulting, highlight the southeastern portion of the Project as an excellent prime target for orogenic gold mineralisation.

Gascoyne East Project

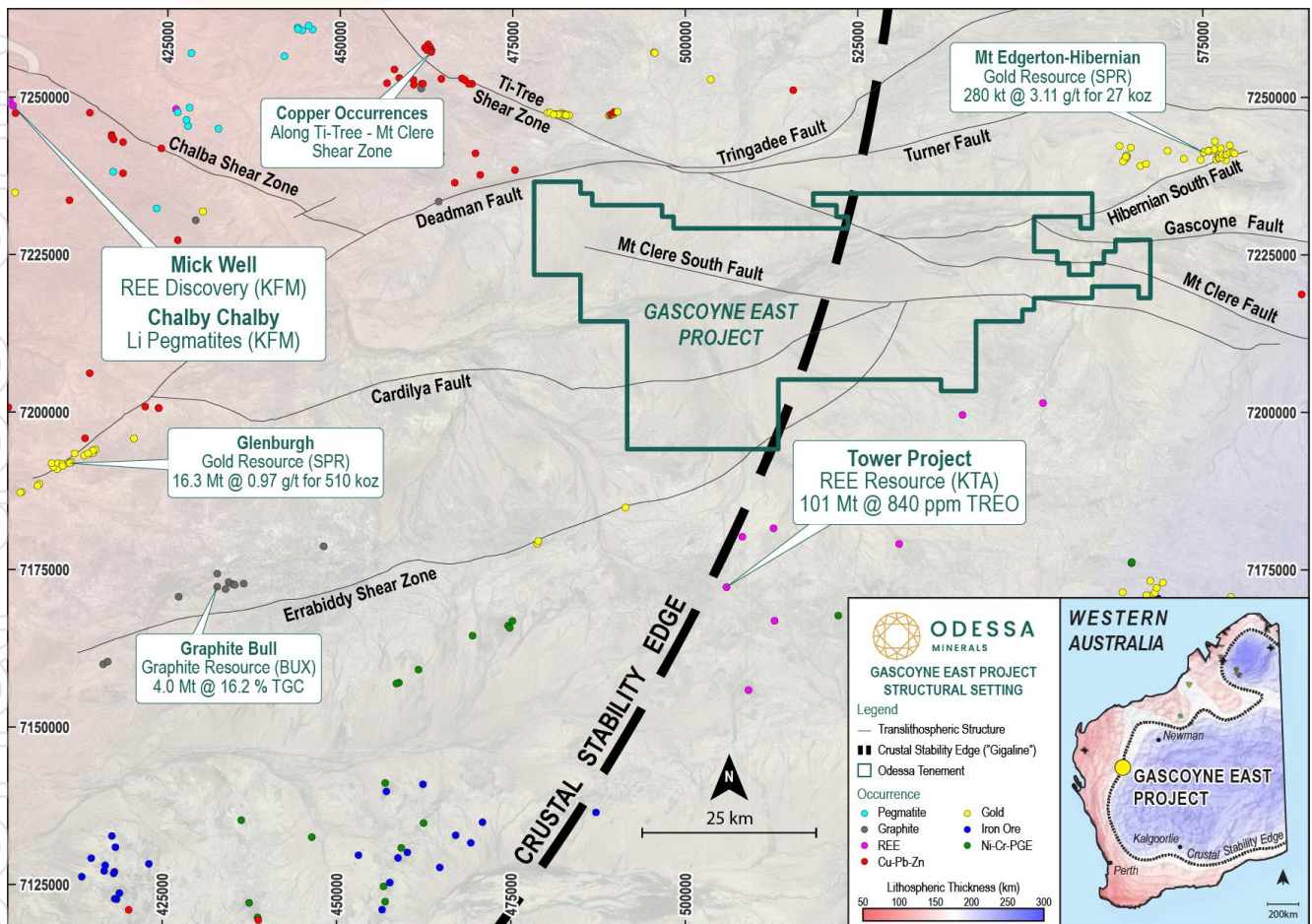


Figure 3: Structural architecture across the Gascoyne East Project, showing the confluence of major mineral-endowed shear zones (GSWA), faults and the crustal stability edge (Czarnota et al., 2019) relative to mineral occurrences (Minedex).

The Gascoyne East Project consists of 2,108km² of exploration licences and covers the southern margin of the Edmund Basin and metamorphic core of the Proterozoic Capricorn Orogen. The Project encompasses the confluence of major, metal-endowed trans-lithospheric structural corridors (including the Ti-Tree, Errabiddy, Chalba, Cardilya, Mt Clere and Hibernian South Fault/Shear zones), offering favourable fluid conduits spanning multiple, overprinting metal-endowed events.

The Project is transected by a recently interpreted deep crustal stability edge that is a focus for mantle-derived fluid upwelling and heat-driven hydrothermal processes. These tectonic edges are associated with **85% of large-scale sediment-hosted base metal deposits globally** and is strongly correlated with porphyry, IOCG and Pb-Zn deposits.

Critically, the basement lithologies pre-date known lithium pegmatite and rare earth events, such as the Mutherbukin event (carbonatites) and Edmundian Orogeny (Yinnetharra LCT pegmatites). As such, the Project offers a unique geological setting of multiple metal-rich structural events converging at the location. Successful exploration has been conducted across the broader region, yet the Gascoyne East Project has remained relatively unexplored.

About Odessa Minerals

Odessa Minerals Ltd is an ASX listed company (ASX:ODE) that holds exploration licenses over 3,000km² of highly prospective ground in the highly sought-after Gascoyne region of Western Australia. Odessa's Projects are located in close proximity to significant recent lithium/pegmatite discoveries and lie in a north-south corridor of recent world class REE carbonatite discoveries.

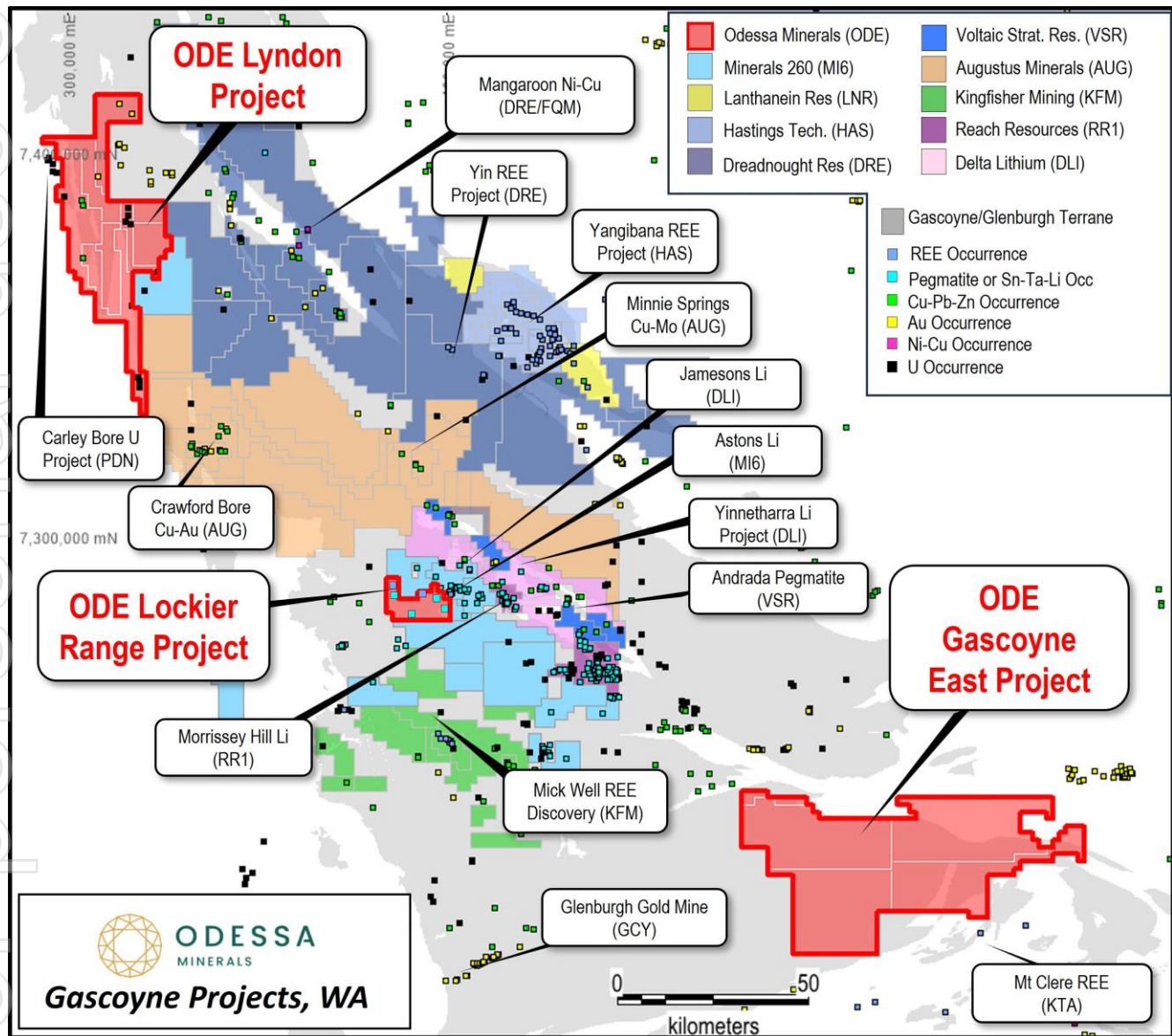


Figure 4: Odessa Minerals regional Gascoyne Project location map overlain with Geological Survey WA Minedex Occurrences.

ENQUIRIES

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www.odessaminerals.com.au

Competent Persons Statement

Information in this report relating to exploration information is based on and fairly represents data compiled by Odessa Minerals and reviewed by Peter Langworthy, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Langworthy is Managing Director (Principal Consultant) of Omni GeoX Ltd and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which he is undertaking, to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Langworthy consents to the inclusion of the data in the form and context in which it appears.

JORC CODE, 2012 EDITION – TABLE 1 REPORT

1.1 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">• Nature and quality of sampling (e.g., cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.• Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.• Aspects of the determination of mineralisation that are Material to the Public Report.• In cases where 'industry standard' work has been done this would be relatively simple (e.g., 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g., submarine nodules) may warrant disclosure of detailed information. | <ul style="list-style-type: none">• Not applicable: No sampling reported in this release |
| Drilling techniques | <ul style="list-style-type: none">• Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). | <ul style="list-style-type: none">• Not applicable: No drilling reported in this release. |
| Drill sample recovery | <ul style="list-style-type: none">• Method of recording and assessing core and chip sample recoveries and results assessed.• Measures taken to maximise sample recovery and ensure representative nature of the samples.• Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. | <ul style="list-style-type: none">• Not applicable: No drilling reported in this release. |
| Logging | <ul style="list-style-type: none">• Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.• Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.• The total length and percentage of the relevant intersections logged. | <ul style="list-style-type: none">• Not applicable: No drilling reported in this release. |

| Criteria | JORC Code explanation | Commentary |
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| Sub-sampling techniques and sample preparation | <ul style="list-style-type: none"> • If core, whether cut or sawn and whether quarter, half or all core taken. • If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. • For all sample types, the nature, quality and appropriateness of the sample preparation technique. • Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. • Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling. • Whether sample sizes are appropriate to the grain size of the material being sampled. | <ul style="list-style-type: none"> • Not applicable: No drilling reported in this release. |
| Quality of assay data and laboratory tests | <ul style="list-style-type: none"> • The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. • For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. • Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e., lack of bias) and precision have been established. | <p>Survey Parameters</p> <ul style="list-style-type: none"> • Positional: Novatel OEM DGPS receiver • Altimeter: Bendix/King KRA 405 radar altimeter with 0.3m resolution and 20Hz sample rate • Barometry: RSS+/-0.25% FS at constant temperature (600-1100hPa) • Line spacing: 100m • Flight Height: 40m <p>Gradiometer Magnetic Survey</p> <ul style="list-style-type: none"> • Magnetometer: G-823A caesium vapour magnetometer • Tail sensor mounted in a stinger housing, plus wingtip sensors with 13.2m separation • Resolution: 0.001nT • Sensitivity: 0.01nT • Sample Rate: 20Hz (approximately 3.5m) • Compensation: 3-axis fluxgate magnetometer <p>Spectrometry/Radiometric Survey</p> <ul style="list-style-type: none"> • Spectrometer: RSI RS-500 gamma-ray spectrometer incorporating 2 x RSX-4 detectors • Total Crystal Volume: 32L • Channels: 1024 • Sample Rate: 2Hz (approximately 35m) • Stabilisation: multi-peak automatic gain <p>Calibrations and Checks</p> <ul style="list-style-type: none"> • Diurnal base stations were monitored by ground crew • The base station magnetometers were located near the Yarlarweelor Station and Mt Clere Station Airstrips <p>Magnetometers: A compensation box was flown prior to survey. The compensation consisted of</p> |

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| | <p>a series of pitch, roll and yaw manoeuvres in reciprocal survey headings at high altitude. The measured output from the 3-axis fluxgate magnetometer was recorded and used to resolve a compensation solution. This solution was applied when post-compensating all survey magnetometer data to remove manoeuvre effects and heading error.</p> <p>GPS: GPS accuracy tests were performed by accumulating GPS readings for approximately 5 minutes whilst the aircraft was static. All readings (X, Y, Z) were within 2 metres.</p> <p>Altimeters: Prior to commencement of survey production, the radar altimeter was checked for linearity by way of a sloop test over flat terrain.</p> |
| <p><i>Verification of sampling and assaying</i></p> <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"> • Upon completion of each flight all survey data were transferred from the acquisition system to the infield data processing computer. Using customised techniques, the data were checked for any errors and compliance with specifications. • All profiles were visually checked. The flight path was plotted with colour-coded indicators of any out of specification height or cross-track. The data were gridded and visually inspected for errors and compared for continuity with previous flights. • The summed 256-channel spectra were plotted and inspected. The test line and pre- and post-flight ground calibration data were tabulated and reviewed. • External geophysical consultants at Terra Resources conducted QAQC checks on data. <p>The following steps were performed during the magnetics processing:</p> <ul style="list-style-type: none"> • Review or application of compensation • Parallax correction • Diurnal filtering and subtraction • IGRF correction using the updated current IGRF model • Tie line levelling • Micro levelling • Gradient enhanced grid processing <p>Radiometric processing consisted of the following steps:</p> <ul style="list-style-type: none"> • 256-channel spectral noise reduction using the NASVD method • Dead time, cosmic and background radiation corrections • Energy recalibration • Channel interaction correction (stripping) and extraction of ROIs • Height corrections using STP altitude to the nominal survey height • Radon removal using the Spectral Ratio method • Levelling where required |

| Criteria | JORC Code explanation | Commentary |
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| Location of data points | <ul style="list-style-type: none"> 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. Specification of the grid system used. Quality and adequacy of topographic control. | <p>Grid: GDA94 Zone 50S</p> <p><u>Survey Parameters</u></p> <ul style="list-style-type: none"> Positional: Novatel OEM DGPS receiver Altimeter: Bendix/King KRA 405 radar altimeter with 0.3m resolution and 20Hz sample rate Barometry: RSS+/-0.25% FS at constant temperature (600-1100hPa) Line spacing: 100m Flight Height: 40m <p><u>Magnetometers</u></p> <ul style="list-style-type: none"> Sample Rate: 20Hz (approximately 3.5m) Compensation: 3-axis fluxgate magnetometer <p><u>Spectrometry</u></p> <ul style="list-style-type: none"> Sample Rate: 2Hz (approximately 35m) Stabilisation: multi-peak automatic gain <p><u>Topography</u></p> <ul style="list-style-type: none"> Altimeter and GPS heights visually inspected for errors and any spikes were corrected Altimeter data were then subtracted from the GPS height to create the Digital Elevation channels Tie line levelling was applied by way of a least squares minimisation procedure using a polynomial fit of order 0 over the cross over errors calculated between the traverse and tie line intersections Using MAGPSEC Airborne Surveys' proprietary micro levelling techniques, some selective micro-levelling was carefully applied and the resulting channel was then considered final At all stages of processing the data were stringently checked against and compared to the previous processing stage to ensure the integrity of the data was protected and no detail was removed or altered. |
| Data spacing and distribution | <ul style="list-style-type: none"> Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. | <ul style="list-style-type: none"> Traverse Line spacing: 100m Traverse Line Direction: 000-180 degrees Tie Line spacing: 1km Tie Line Direction: 090-270 degrees Flight height 40m <p><u>Magnetometers</u></p> <ul style="list-style-type: none"> Sample Rate: 20Hz (approximately 3.5m) |

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| | | <ul style="list-style-type: none"> • Compensation: 3-axis fluxgate magnetometer |
| | | Spectrometry <ul style="list-style-type: none"> • Sample Rate: 2Hz (approximately 35m) • Stabilisation: multi-peak automatic gain |
| Orientation of data in relation to geological structure | <ul style="list-style-type: none"> • Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. • If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. | <ul style="list-style-type: none"> • Not applicable: No new drilling reported in this release |
| Sample security | <ul style="list-style-type: none"> • The measures taken to ensure sample security. | <ul style="list-style-type: none"> • Not applicable: No new drilling reported in this release |
| Audits or reviews | <ul style="list-style-type: none"> • The results of any audits or reviews of sampling techniques and data | External geophysical consultants at Terra Resources conducted QAQC checks on data and processing of magnetic and radiometric images from MagSpec data. |

1.2 Section 2 Reporting of Exploration Results

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

| Criteria | JORC Code explanation | Commentary |
|---|--|---|
| Mineral tenement and land tenure status | <ul style="list-style-type: none"> Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. | <p>Gascoyne East</p> <ul style="list-style-type: none"> E52/4182, 4183, 4184, 4186, 4187, 4198 are under the name of Odessa Lyndon Pty Ltd, a 100% owned subsidiary of Odessa Minerals. Odessa holds 85% interest in the projects. 15% interest in the projects is held by Odette One Pty Ltd, a private company. Odette One Pty Ltd is free carried until decision to mine, and if it elects not to contribute at decision to mine stage, it dilutes to an uncapped 1.5% Net Return Royalty. |
| Exploration done by other parties | <ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. | <p>Gascoyne East</p> <ul style="list-style-type: none"> There is minimal previous exploration work on the Gascoyne East Project area There are no known drill holes in Open File data |
| Geology | <ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. | <p>Gascoyne East</p> <ul style="list-style-type: none"> The project area is 90% covered by alluvial sediments/transported cover. The interpreted bedrock geology consists of Gascoyne and Glenburgh terrane metamorphosed intrusions and meta-sediments. The Edmund Basin sediments on-lap on the northern part of the project area. The area is considered prospective for REE carbonatite, base-metal deposits, lithium pegmatites and gold throughout the metamorphic terranes, as well as graphite associated with the basal sequences of the Edmund Basin sediments. Litho-structural interpretation within the body of this report was provided by Terra Resources, an external geophysical consultancy: <ul style="list-style-type: none"> Vertical magnetic derivative products have been used to map structural offsets, with faults interpreted along magnetic lows where magnetite has likely been oxidised to haematite, or where units are offset. Fold hinges are interpreted through the hinge of folded magnetic lineations. Lineations were mapped over magnetic highs primarily from TMI RTP imagery. Where possible, outcrop geology maps were referred to and units extrapolated under cover where geophysical character and texture is continuous. |

| Criteria | JORC Code explanation | Commentary |
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| | | <ul style="list-style-type: none"> ○ Intrusions were interpreted over semi-circular magnetic highs or lows, often with distinct textural character. ○ Petrophysical studies were referred to, where applicable, to identify if there is known variation within lithological groups. For example, in Aitken et al. (2014), the Morrarie Supersuite shows great variation in magnetic susceptibility and specific gravity variations and as such has been sub-classified into magnetic and non-magnetic components. Similarly, petrophysical measurements of dolerite sills show higher density and magnetic susceptibility than underlying Edmund group rocks. ○ Satellite and cover maps were referred to, showing areas where the cover sequence is likely thicker and magnetic intensity is likely muted. |
| Drill hole Information | <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> ○ easting and northing of the drill hole collar ○ elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar ○ dip and azimuth of the hole ○ down hole length and interception depth ○ hole length. • If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. | <ul style="list-style-type: none"> • Not applicable: No new drilling reported in this release |
| Data aggregation methods | <ul style="list-style-type: none"> • In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off grades are usually Material and should be stated. • Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. • The assumptions used for any reporting of metal equivalent values should be clearly stated. | <ul style="list-style-type: none"> • Not applicable: No new drilling reported in this release |
| 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 (e.g., 'down hole length, true width not known'). | <ul style="list-style-type: none"> • Not applicable: No new drilling reported in this release |

| Criteria | JORC Code explanation | Commentary |
|------------------------------------|---|--|
| 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"> Maps included in the body of this release. |
| 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"> Maps included in the body of this release. |
| 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"> Geological maps in this release are derived from work completed by geophysical consultants, Terra Resources, on behalf of Odessa Minerals following completion of airborne gradiometer-magnetic and radiometric surveys. Litho-structural information has been cross-referenced with 1:500k and 1:100k GSWA bedrock geology maps. The location of, and information/diagrams relating to, the crustal stability edge are sourced from and modified after: Czarnota, K., Hoggard, M., Richards, F., Huston, D. & Jaques, A. (2019). Gigayear stability of cratonic edges controls global distribution of sediment-hosted metals. |
| Further work | <ul style="list-style-type: none"> The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. | <ul style="list-style-type: none"> Mapping and sampling of uranium radiometric anomalies around the Moorarie Supersuite and carbonate sequences within the Edmund Basin. Air core drilling to confirm basement lithologies and test across interpreted targets. Planning of further exploration including drilling and other geophysical methods (e.g. gravity) based on the outcomes of phase 1 air core drilling. |