

Clark (EL10/2018) Annual Report on Exploration 2022

(to September 19th 2022)



By Robert Reid (BSc Hons, MSc Econ Geol, MAIG)

Consultant Geologist

ph (+61) 419586349

email robreid@bigpond.com

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Summary

EL10/2018 is highly prospective for VHMS and hybrids, as well as IRG and IOCG/IOA styles and as yet remains undrilled. No field work was conducted during the year to 20/09/2022 on EL10/2018, with activities interrupted by COVID pandemic concerns and operator time constraints.

GIS based data processing, re-interpretation and prospectivity analysis was ongoing at completion of the 2022 tenure year, in part leading to improved and confirmatory interpretation for a successful Round 7 EDGI grant application. This work further contributed to formulating information memorandums for JV opportunity search, with renewed effort undertaken for a financial partner towards end of the tenure year. The idealistic plan was to joint venture EL10/2018 and also held EL31/2014 with the adjacent pending ERA ground formerly held by Corona Resources. However, like past tenure years, attempts to obtain JV finances were unsuccessful.

Following on from last tenure year, an assessment of the REE potential of the Clark Grid was continued in light of demonstrated magnetite-related potential on the adjacent South Darwin area. The result was inconclusive with respect to obvious economic REE potential. Simple statistics show relatively low maximums of 170ppm LREE, 37 HREE (Y), 113ppm REE and 253ppm TREE. Further analysis is required to discriminate currently weakly conclusive alteration versus lithogeochemical relationships. Simple analysis shows weak correlation exists for REE with potentially magnetite related elements and alteration indices. Spatial REE distribution provides informative trends consistent with lithology and alteration zones. LREE distribution is consistently elevated in the interpreted footwall, east of the high Ti/Zr (mafic) distribution and is broader and open to the south, likely reflecting a folded/hinge zone. Whilst REE classified elements readily correspond with mafic volcanics, as well as potentially focused footwall alteration.

Planned exploration involves further prospectivity assessment via desktop and regional reconnaissance mapping and sampling activities, whilst undertaking a search for financial support. A more significant program involving gridding, soil sampling and ground geophysics, leading to drilling is planned subject to gaining financial support.

Introduction

This fourth annual report on Clark EL10/2018 details work undertaken to 19th September 2022. The Clark and Pillinger (EL31/2014; adjacent to the south) exploration licences are held by R Reid (50%) and B Koster (50%).

Clark EL10/2018 is prospective for Cambrian Volcanic Hosted Massive Sulphide (VHMS, Zn-Pb-Cu-Ag-Au) deposits and hybrids including Henty Gold style. Two large targeted VHMS end members being Rosebery (51.5Mt @ 12.1% Zn, 3.9% Pb, 0.50% Cu, 130g/t Ag, 1.9g/t Au) and Mount Lyell (311Mt @ 0.97% Cu and 0.5g/t Au). Potential also exists for magnetite-Cu-Au mineralisation similar to that located on nearby Mt Darwin and at the Garfield Prospect.

The Clark tenement is little explored with no drilling and minimal geological mapping having been undertaken. Stream sediment sampling is relatively extensive within Clark, but rock chip sampling is limited. Soil sampling incompletely covers much of the tenement with a focused 100m spaced Clark grid in the southeast. Favourably a 1995 aeromagnetics survey and regional aeromagnetics and radiometrics surveys cover the tenement. Intensive gridding surveys (geological mapping, soil sampling, Induced Polarisation and ground magnetics) and WTRMP (Western Tasmanian Regional Minerals Program) airborne electromagnetics also extend across the tenement.

Access

Clark EL10/2018 covering 13km² lies approximately 30km south of Queenstown, west coast Tasmania (Figure 1). The principal access to the tenements north is via the 4WD track along South Mount Darwin Plateau, which further utilises a walking track to the Clark River grid.

Geology

The area is little mapped with what's known coming from MRT 250,000 scale mapping, possibly in part derived from EZ company work. The structurally complex geology of EL10/2018 and adjacent EL31/2014 comprises three principal rock types; the Middle Cambrian-aged Mount Read Volcanics (MRV), the Late Cambrian-aged Owen Group siliciclastics and uppermost Cambro-Ordovician Gordon Group (including limestone; Figure 2 & 3). The Mount Read Volcanics are largely mapped as Yolande River Sequence (YRS; Western Volcano-Sedimentary Sequence), which in a local regional context inter fingers with the Central Volcanic Complex (CVC) at or near it's top, beneath Tyndall Group (TG) quartz-feldspar phyric volcanoclastics (mapped on the eastern flank of Mt Sorell). A narrow band of CVC is aligned NW through the eastern portion of the tenement. The CVC/YRS - TG boundary represents a Volcanic Hosted Massive Sulphide (VHMS; Zn-Pb-Cu-Ag-Au) prospective stratigraphic position.

Cambrian granite outcrops on the South Darwin Plateau, proximal to the northeast of Clark (EL10/2018) is associated with magnetite – Cu +/- Au mineralisation.

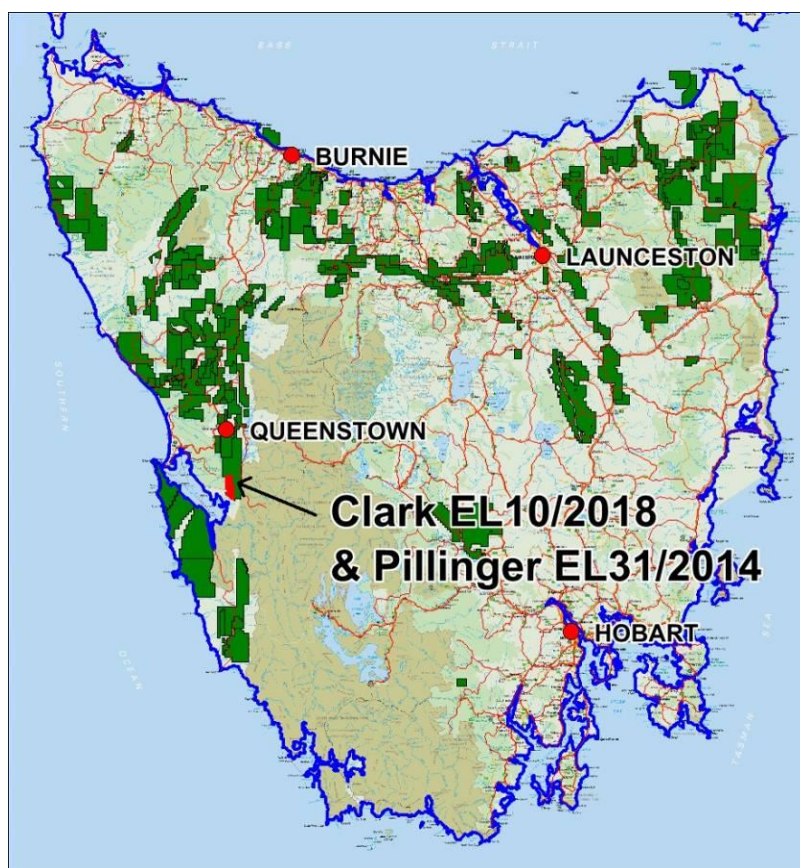


Figure 1: Location of EL10/2018.

Previous Work and Exploration History

A summary of exploration history over the Clark Valley tenement area follows. Recognition and significant advances in VHMS potential are highlighted in more recent interpretation provided in Reid (2012, 14 & 15).

Early History

The Jukes Darwin Mining Field, lying largely adjacent and to the east of the Clark Valley is reported in GSB16 (Hills, 1914). This report mostly describes Cu, Au and magnetite mineralisation.

Old mining leases 3334 93M, 3335 93M, 4831 93M, 4778 93M and 5221 93M are noted in MRT records; being located on the eastern margin of the tenement.

The Mt Lyell Mining & Railway Company (1970's)

Howland-Rose (1978; TCR 84_2239) provides a summary of gradient array IP and ground magnetic surveys over the Clark Valley area. Phase 1 data reported ends at 00N, whereas Howland-Rose (1979; TCR 84_2242) reports data extending a further 600m south to line 6S, ending immediately within the northeastern 1km² block of the adjacent Pillinger EL31/2014. A less powerful 3kw generator was used for the follow up survey but was considered adequate. Thus, anomaly discrimination in the furthest south zone may not be quite as precise as the original survey (Howland-Rose, 1979).

Chargeability ranged from 10 to 70 millivolts/volt. Resistivities range from 1500 to 20000 ohm-metres. Grid line spacing was wide at 200 to 400m.

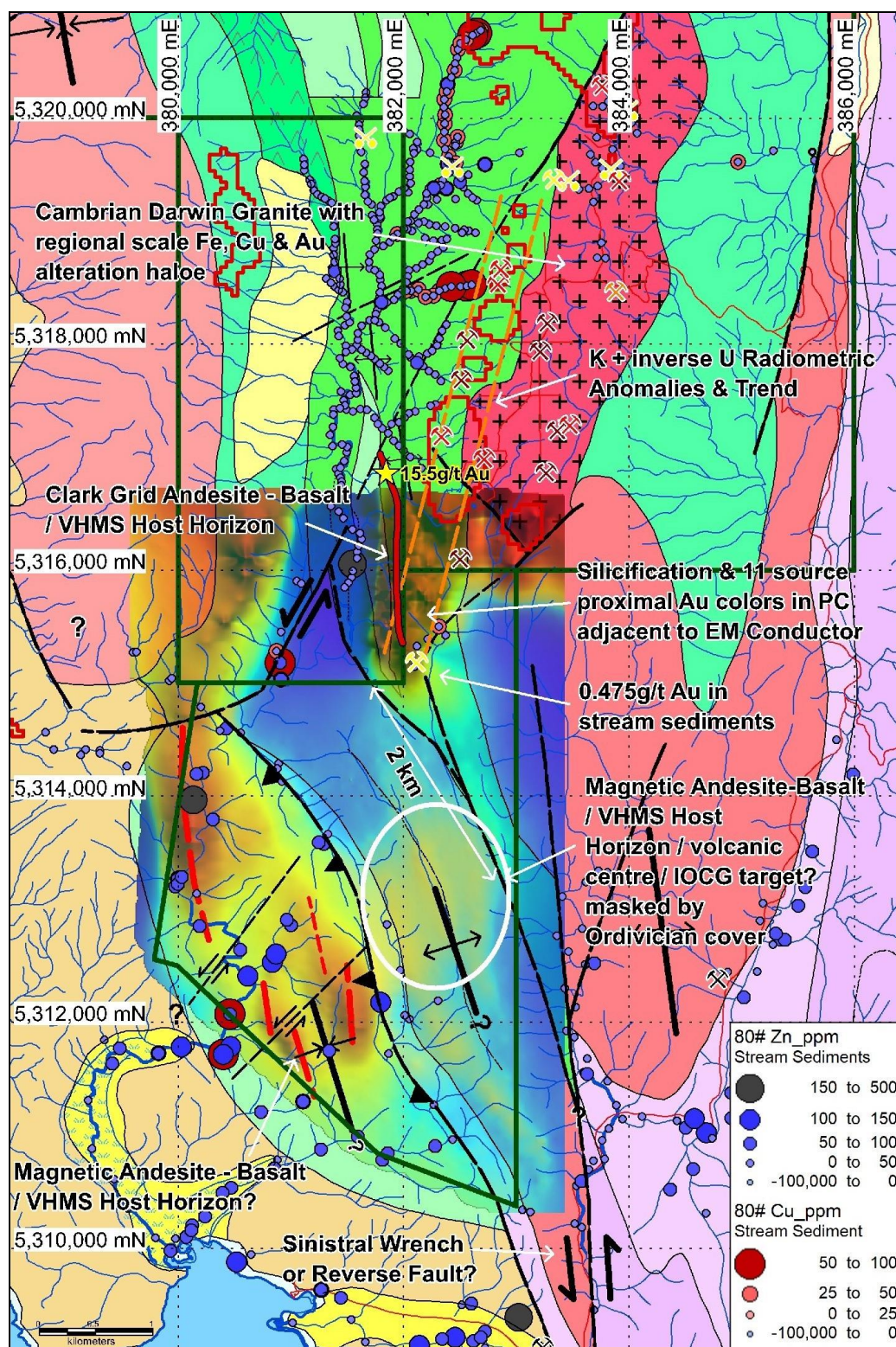


Figure 2: Regional geology of the Clark Valley and Pillinger areas, showing interpreted Geology/Structure, inferred basalt / VHMS host horizon (Red dash lines), known prospects, Shree Mineral's 15.5g/t Au in rock chip site and known prospects over clipped 1995 aeromagnetics grid transparency and MRT 250k digital geology (See Figure 3 for legend).

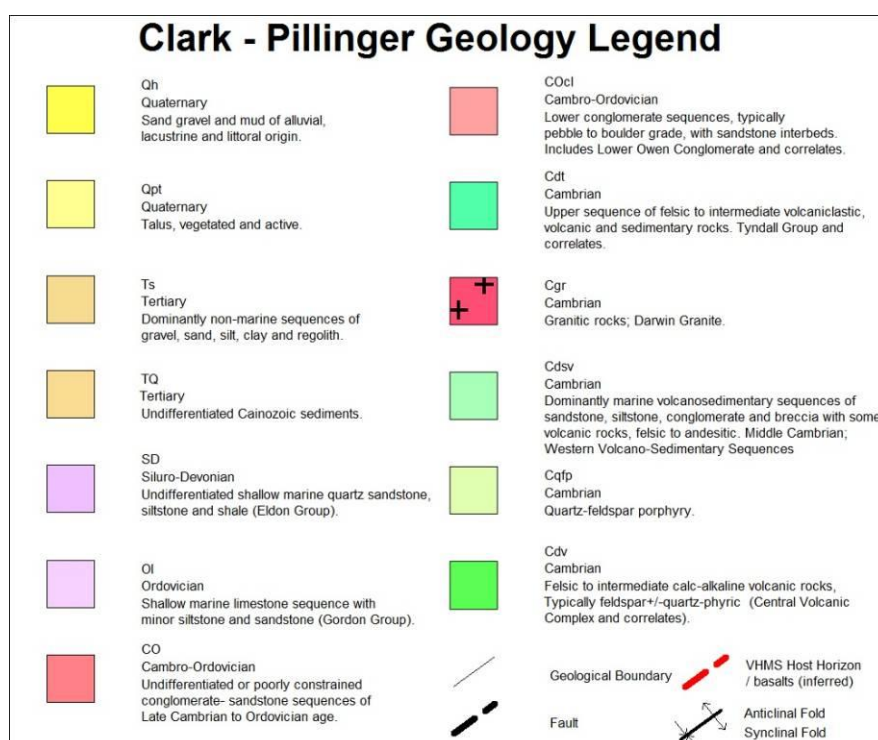


Figure 3: MRT 250k digital geology legend for the Clark Valley and Pillinger areas.

BHP (1990-1)

A comprehensive previous exploration data review is provided in Cameron and Read (1991; TCR91-3252). Among this is the location of two 1957 Turan helicopter EM anomalies, coincident with the Owen / MRV contact on South Darwin. BHP undertook a ground electromagnetic UTEM survey in 1990 over the upper Clark Valley but didn't extend south into the Clark Grid (EL10/2018), finishing well outside Pillinger EL31/2014 on 17600N, approximately 1km north of Shree Mineral's gold in rock chip anomaly.

RGC Exploration Pty. Ltd. (1992-3)

Undertook extensive geological mapping, rock chip and soil sampling identifying anomalous base metals in soils (to 880ppm Zn) on what is now in filled by soil sampling on the Clark Grid.

Aberfoyle (1995)

Aberfoyle conducted a helicopter aeromagnetic survey of the Clarke Valley and Mt Darwin in 1995. The survey defined a magnetic zone within the Central Volcanic Complex, which subsequently has been shown to correspond with basalts and anomalous base metal in soils on the Clark Grid. The helimag data was not processed beyond an initial assessment and is not reported upon by McNeill (1996) in his relinquishment report.

WTRMP (2002)

The 2002 WTRMP airborne electromagnetic and magnetic survey covers to the southern boundary of EL10/2018 and the top NE 1km² block of the adjacent EL31/2014. The WTRMP also undertook a separate widespread aeromagnetics and radiometrics over the west coast, including the Clark Valley area.

Zinico Resources – Zelos Resources - Gujarat NRE Resources (2004 –7)

Zelos cut but did not sample the Clark Grid (21 lines of 500m length and 100m spacing), which planned to assess RGC's anomalous base metals in soils, extending north of Pillinger EL31/2014.

Three discrete EM responses were identified by Hungerford (in Vanzino 2007) from WTRMP electromagnetics, within both the YRS and the CVC. 'Ground truthing' by way of reconnaissance stream sediment sampling and minor rock sampling was undertaken in drainages in the vicinity of each of these anomalies and returned poor results. Best gold reported was 20ppb, with copper to 60ppm, Pb 105ppm and Zn 145ppm.

For ground follow up, Hungerford considered that TEM (Time Domain Electromagnetic) and IP (Induced Polarisation) surveys would both locate conductive black shales, with the IP being of greater benefit overall. Although TEM might be easier to undertake and would provide more accurate estimates of conductors properties. Hungerford's images clearly show that BHP's UTEM survey stopped well north of Pillinger EL31/2014 and the Clark Grid.

Shree Minerals Ltd. 2011-15

In 2012, the Clark Grid immediately north of Pillinger EL31/2014 was soil sampled, ground magnetic surveyed and mapped confirming a coherent zone of anomalous base metals in soils and identifying positive vectors to VHMS mineralisation. A 0.6g/t Au in composite rock chip sample was re-sampled in 2015, returning 15.5g/t Au. This sample is coincident an ~150m plus zone of silica-sericite-pyrite alteration and remains to be further followed up. Potential to find a Rosebery or Que-Hellyer like VHMS within the grid area was considered high (Reid, 2015). The inferred VHMS exhalative horizon trends into the north of Pillinger (EL31/2014).

Reid and Koster (2016 to date)

Concurrent EL10/2018 and EL31/2014 exploration identified unexplained magnetic anomalies of possibly similar affinity to the Clark inferred VHMS host horizon basalt, within the adjacent to south Pillinger EL31/2014 (Figure 2). Three principal targets were identified as the southwestern magnetic anomalies, NE block and a buried VHMS conceptual target located in the centre of the tenement. A regional interpretation evolved suggesting that the host horizon from the Clark Grid, striking into the northeast of Pillinger, maybe fault offset to the south into the centre of EL31/2014, where it's marked by elevated magnetics, possibly reflecting a source beneath the Owen Group.

Sampling in Pillinger's NE Block comprised 28 rock chips, 2 -80# stream sediment samples and 7 panned concentrates. Peak results were 1210ppm Zn and 0.05g/t Au in rock chip, as well as 0.475g/t Au in -80# draining off the southern end of the Clark Grid.

A key outcome was the location and sampling of an extensive silicification zone at an interpreted structural intersection, in the vicinity of a significant apparently structure controlled EM conductor/anomaly. Rock chip analysis for gold by fire assay returned low level Au to 0.02ppm. Gold of irregular proximal to source form was found in the silica zones drainage, with up to 11 colours returned in panned concentrate sample. Potential for Henty style Au, including remobilised Devonian gold exists in this area.

Rock chips bearing low level gold (to 0.014g/t Au) were derived from a zone of lithic volcanoclastics, representing the strike extent of the Clark inferred VHMS horizon on the Clark Grid. Highly

anomalous gold (0.475g/t Au) was in returned from a -80# stream sediment sample draining this area.

An EDGI Grant was successfully sought in 2018 upon the basis of various demonstrated prospective features in the anomalous Au rock chip vicinity. The grant was not utilised, in part due to discouraging Au results from limited focused soil and rock chip sampling that aimed to further verify the anomaly during the tenure year to 20/09/2019. Fire assay Au and portable Niton XRF analysis confirmed and further defined two Zn-Cu+/-Pb+/-Au anomalous zones, which in conjunction with a number of other compelling VHMS-like features, defining a likely exhalative or immediate sub seafloor replacement mineralised target zone in the northern Clark Grid (Figures 4, 5 & 6).

GIS based data processing, re-interpretation and prospectivity analysis was ongoing at completion of the 2020 tenure year. Principal activity involved re-gridding and interpretation of WTRMP 2001 radiometrics, WTRMP 2002 airborne EM and historic ground IP, along with regional soil data compilation for comparative assessment, with the aim to define a variety of prospective features for priority follow up. Ongoing assessment complimented pursuit of JV opportunities.

Radiometrics assessment of the WTRMP 2001 survey during the 2020 tenure year revealed a strong spatial correlation between high K and low U (+/- low Th) with known mineralisation and alteration, particularly in the Mt Lyell mining field (Figure 7). A Radiometric Alteration Index (RAI) was derived to aid prospectivity assessment from adding normalised values for K to inverse ordered U. Gridding revealed a clear NE to NNE aligned RAI trend extending south from Mt Lyell through Mount Darwin, with an anomaly of moderate intensity located as an outlier in the upper north east of the Clark Valley (Figure 8). This untested anomaly area has an ambiguous proximal airborne EM response and prospect character differs from that in the Central Volcanics Complex, nearby to the east on Mt Jukes and Darwin, as it lies within upper MRV Tyndall Group stratigraphy; Mt Lyell and Henty style mineralisation potential exists.

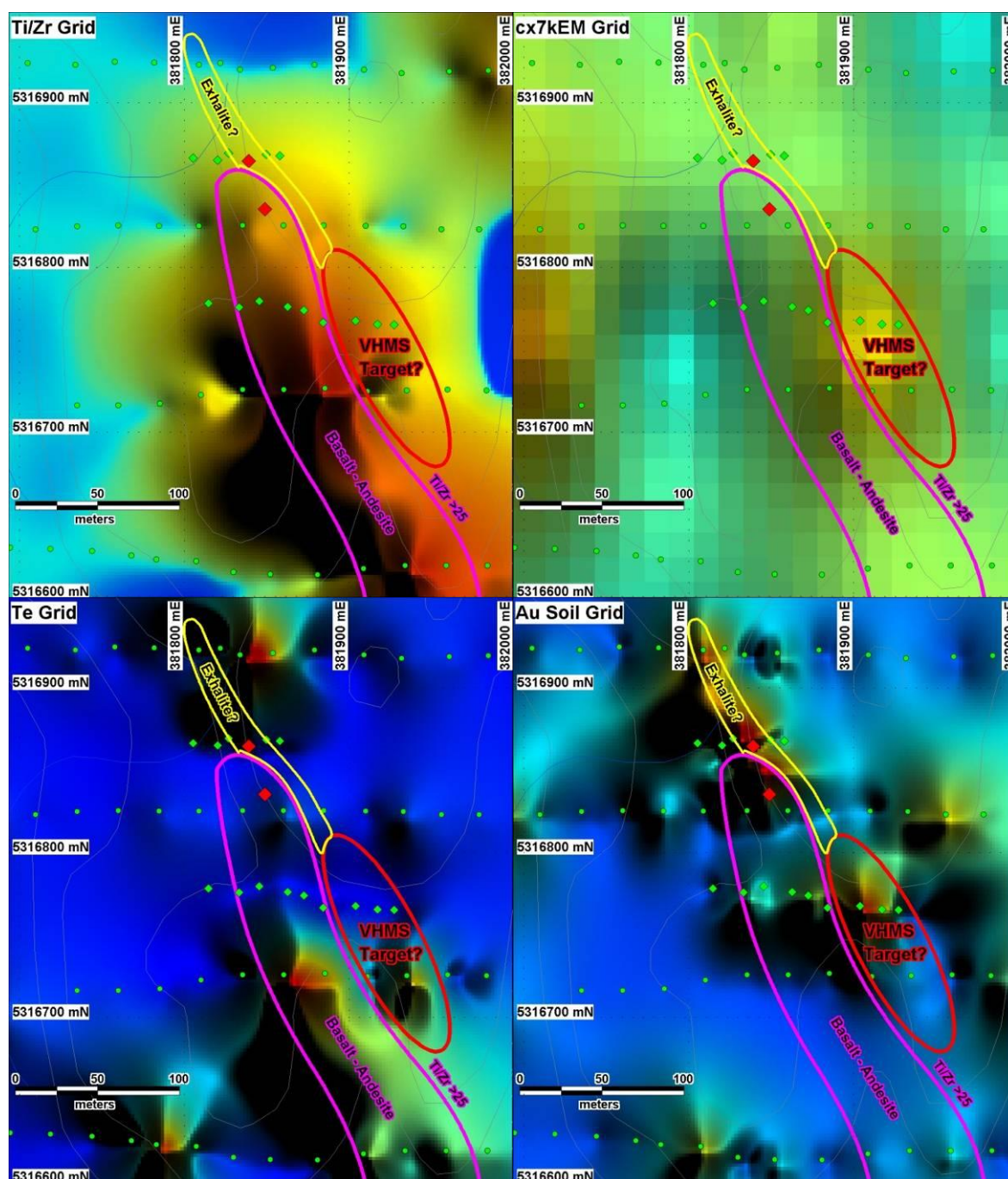


Figure 4: Northern Clark Grid diagrams illustrating 2019 sampling and various salient features; Ti/Zr soil grid illustrating mafic volcanic distribution relative to a relative conductor (all frequencies) and soil sample points over Te and Au soil grids (NB: soil max Te 0.23ppm & Au 0.02ppm)

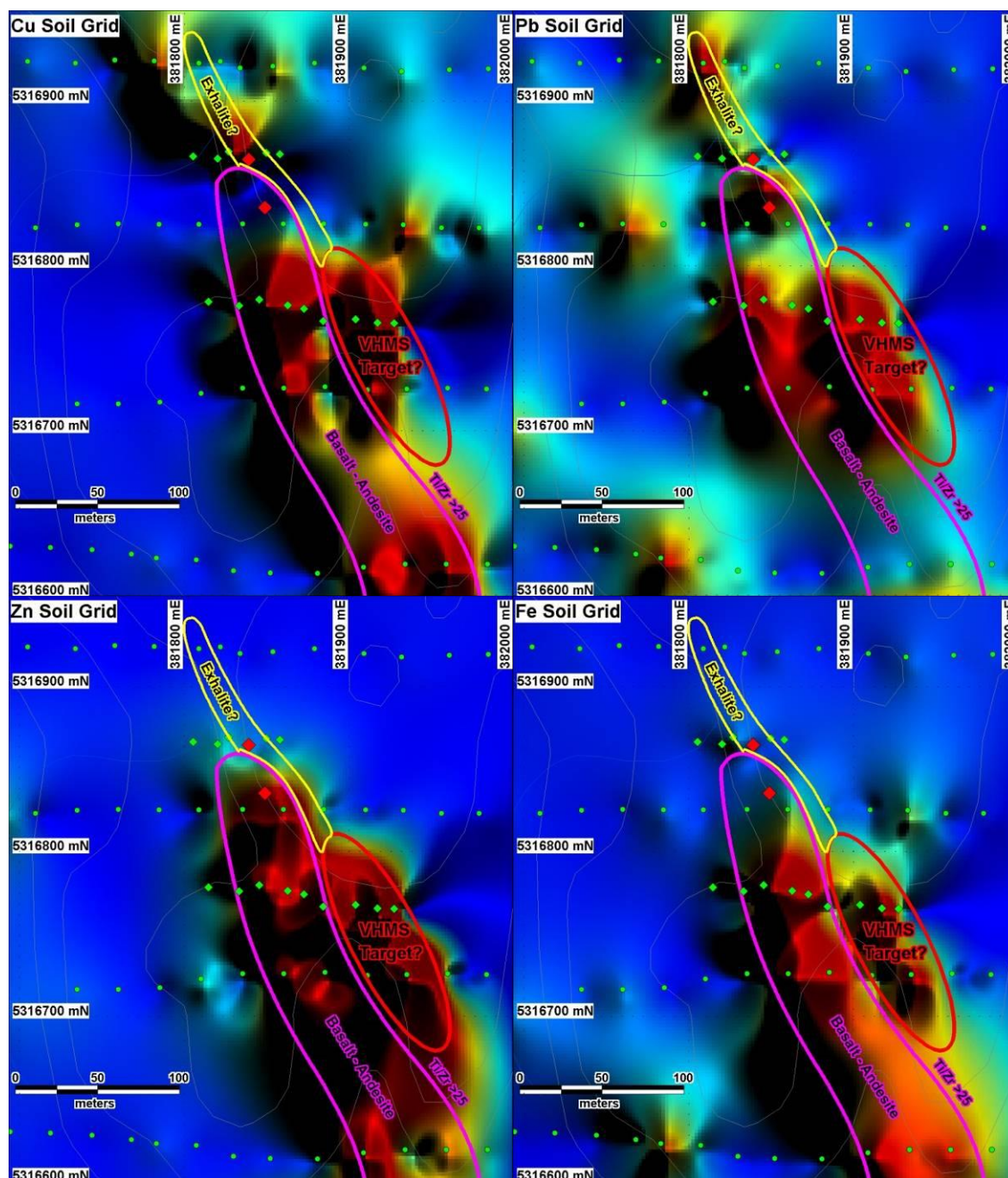


Figure 5: Northern Clark Grid diagrams illustrating 2019 sample points, soil grids for Cu, Pb, Zn & Fe and various salient features (NB: XRF soil max 116ppm Cu, 185ppm Pb, 835ppm Zn & 17% Fe).

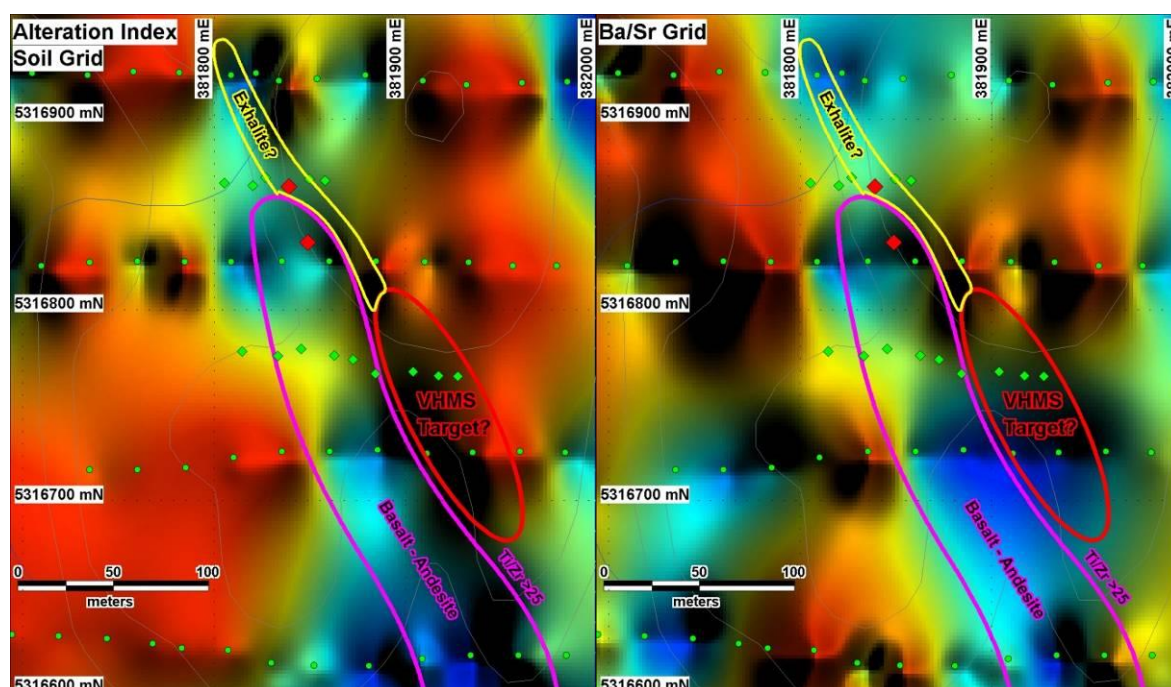


Figure 6: Northern Clark Grid diagrams illustrating 2019 sampling and various salient features; Soil grids for Alteration Index and Ba/Sr (potentially hangingwall VHMS).

Historic gradient array IP (Howland-Rose, 1978) has previously been digitised from original report maps, creating contours for gridding (Figure 9). Prospectivity was further assessed utilising this data via adding chargeability and resistivity grids to define zones of potential for resistive silica and chargeable sulphide alteration. An anomaly was defined trending along a mapped quartz-feldspar porphyry margin adjacent to significant Quaternary cover (Figure 10). Similarly, high chargeability and low resistivity (/ high conductivity) is a potential pyritic black shale or sulphide bearing VHMS indicator. IP chargeability was divided by resistivity to enhance anomalies of this type. Resulting is a grid that appears to readily define black shales in the north and along the east of the Clark Grid. Further highlighted is a zone of potential VHMS style conductive sulphides; a key location being immediately south of the high Ti/Zr ratio “basalts” of the Clark grid and the contiguous NE of EL31/2014 (Figure 10).

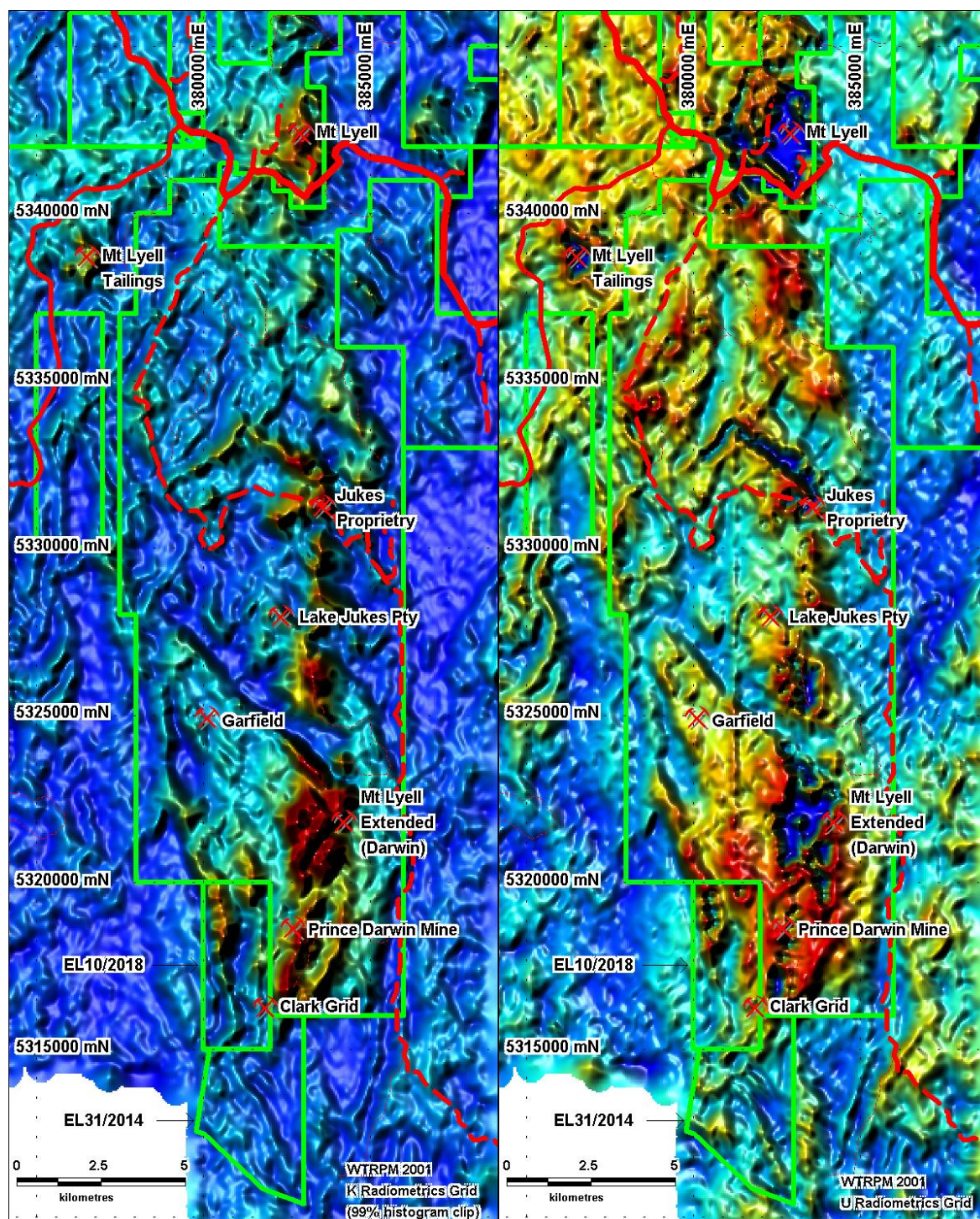


Figure 7: K (left) and U (right) Radiometrics grids displaying 99% histogram clip to highlight significant highs and lows; Regional view from Mt Lyell extending south through EL's 10/2018 & 31/2014.

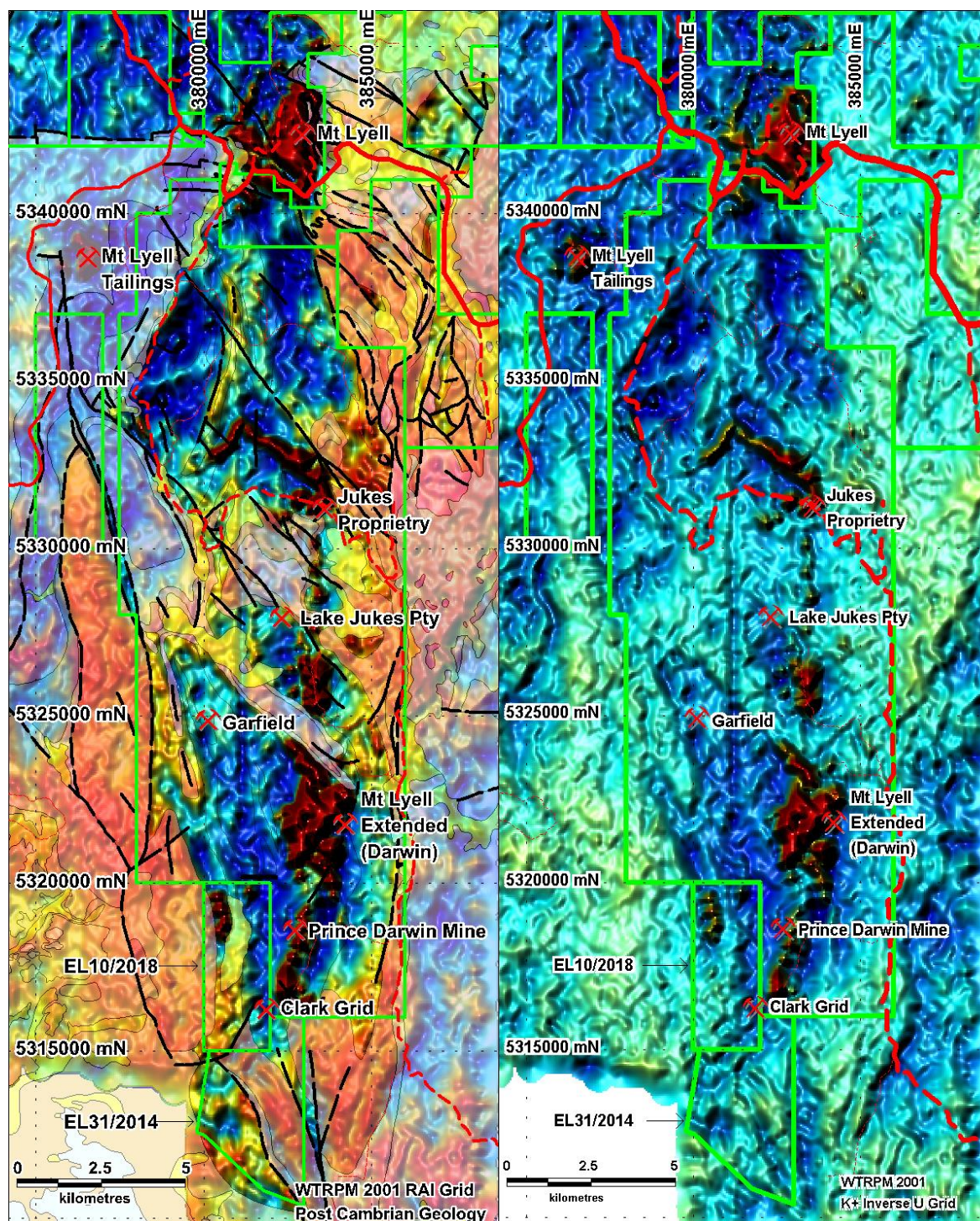


Figure 8: Radiometrics Alteration Index (RAI) overlain by post Cambrian MRT 250k digital geology (RAI full histogram; left) and RAI (right) grid displaying 99% histogram clip to highlight significant highs and lows with respect to post Cambrian 250k MRT digital geology transparency; Regional view from Mt Lyell extending south through EL's 10/2018 & 31/2014.

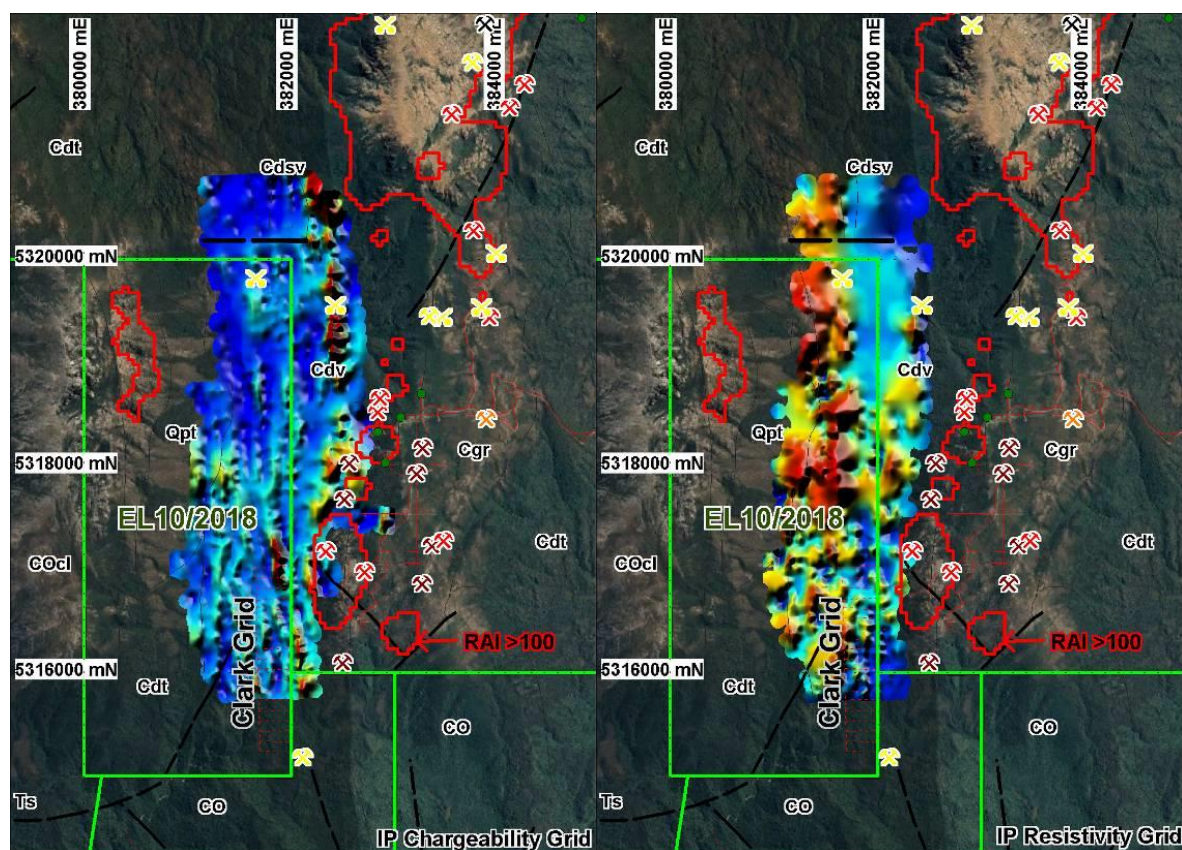


Figure 9: Grids for 1978 digitised IP Chargeability (left) and Resistivity (right). Also showing RAI anomalous trend, geological boundaries and faults from MRT 250k digital data.

A further (2nd) EDGI grant (Round 5) was successfully applied for in 2021 but was not utilized due to unsuccessful attempts to obtain financial input from a JV partner.

No field work was conducted during the year to 20/09/2021 on EL10/2018 or the adjacent held EL31/2014, in large part due to COVID Pandemic related restrictions, inadequate funding and operator time constraints.

GIS planning and interpretation continued utilising a variety of datasets to identify salient features for ground follow up, evolve the geological model and improve targeting of mineralisation. An inconclusive assessment of soil sample data targeting the REE potential of the Clark Grid was undertaken in light of demonstrated potential on the adjacent South Darwin area.

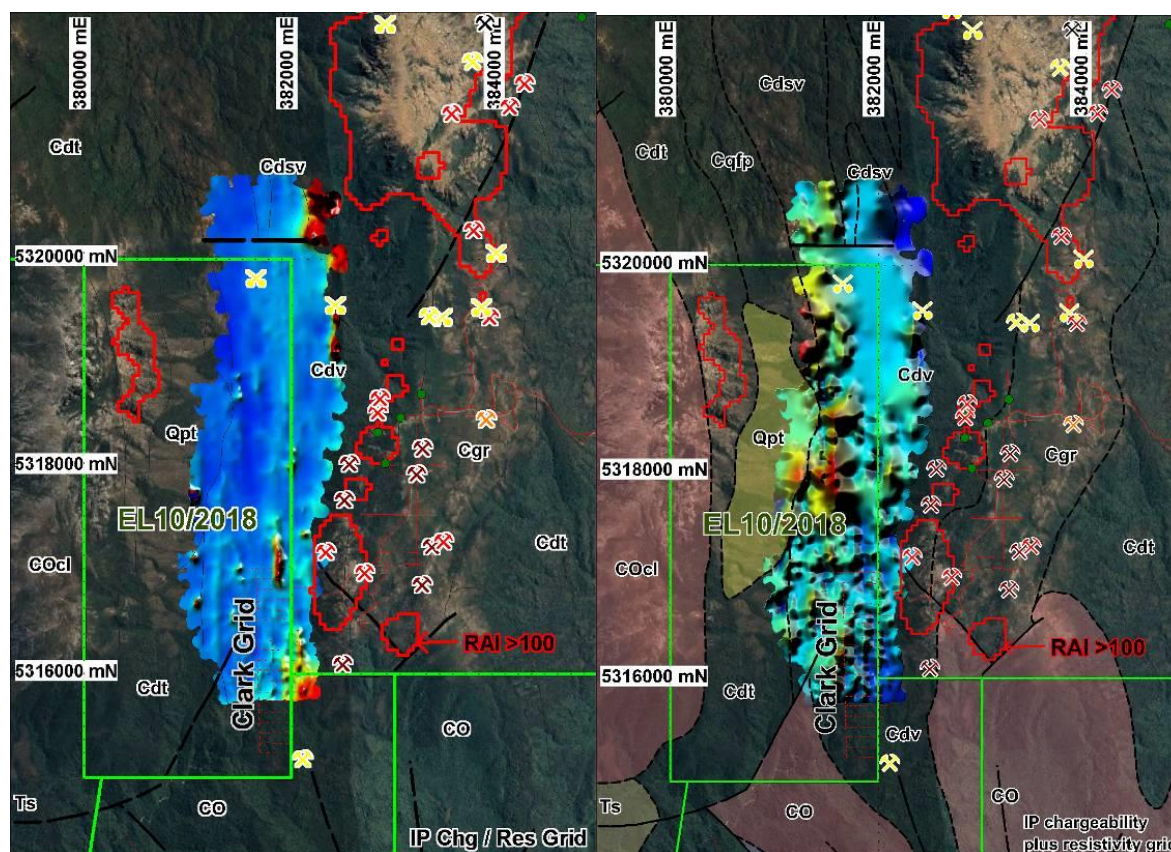


Figure 10: Grids for 1978 digitised IP Chargeability divided by Resistivity (left) and Chargeability plus Resistivity (right); Also showing RAI anomalous trend, post Cambrian geology transparency, geological boundaries and faults from MRT 250k digital data.

Work Conducted 2021-22

No field work was conducted during the year to 20/09/2022 on EL10/2018.

Further GIS planning and interpretation leading to improvements in geological understanding and targeting of mineralisation was undertaken. This in part led to revised potential work programs and included compilation of a 3rd successful Round 7 EDGI grant application. However, like past tenure years, attempts to obtain JV finances were unsuccessful.

Following on from last tenure year, an assessment of the REE potential of the Clark Grid was undertaken in light of demonstrated magnetite-related potential on the adjacent South Darwin area. ICP-MS analysis from MRT's Samples and Geochemistry database, in part derived from Corona work on nearby South Mount Darwin, was compiled for comparison with Clark Valley data. REE (All), LREE (La, Ce) and HREE (Y) concentrations were evaluated as a simple additive indices from ICP-MS soil analyses, noting that complete sets of elements were not available for LREE and HREE.

Simple statistics show relatively insignificant maximums of 170ppm LREE, 37 HREE (Y), 113ppm REE and 253ppm TREE. Further analysis is required to discriminate currently weakly conclusive alteration versus lithogeochemical relationships. Simple analysis shows weak correlation exists for REE with Cu, Fe, In, Mg as well as very weakly for Mo, Sn, Te, Tl and Zn, suggesting a potential relationship with chlorite and magnetite alteration. Weak Ti, U, V correlations with REE are also potentially magnetite

related. Supporting is a strongly weathered chloritic and oxidised soil sample returning the highest TREE, suggesting it could be alteration related. Weak to moderate correlations of REE with proximal alteration related indices (eg. Mt Lyell-like indices, CCPI & AI) are apparent, whilst conversely, LREE correlates weakly with such indices, except for AI.

Spatial REE distribution provides informative trends consistent with lithology and alteration zones. LREE (La, Ce, Pr, Nd, Pm & Sm) incompletely represented by Ce and La, are consistently elevated in the interpreted footwall, east of the high Ti/Zr (mafic) distribution and is broader and open to the south, likely reflecting a folded (/hinge; Figure 11) zone. Whilst, REE classified elements (Li, Be, Ga, Ge, Rb, Zr, Nb, In, Sn, Cs, Hf & Ta) readily correspond with mafic volcanics, as well as potentially focused footwall alteration (Figure 11). HREE (Y, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb & Lu) distribution is strongly biased with the dataset including Y only, which strongly correlates with mafic volcanic lithology.

Proposed Exploration

Planned exploration requires significant financial input from a JV partner to target VHMS and hybrids, as well as IRG and IOCG/IOA. Proposed exploration outlined in Table 1 covers work planned to be undertaken concurrently on both EL10/2018 and EL31/2014 to further advance prospect definition during the summer field season; should this finance be available. Initial reconnaissance regional planned work includes 15km+ of track access and gridding to be followed by geological mapping, accompanied by ground magnetics, soil and rock chip sampling. Follow up ground IP and EM, as well as extended ground magnetics will then focus drilling targeting. An airborne MobileMT (or VTEM) survey extending to include the adjacent EL31/2014 could also be undertaken to enhance regional prospectivity, subject to JV partner funding.

Alternatively, if significant financial input is not available, then proposed work will focus on further prospectivity assessment via desktop and regional reconnaissance mapping and sampling activities.

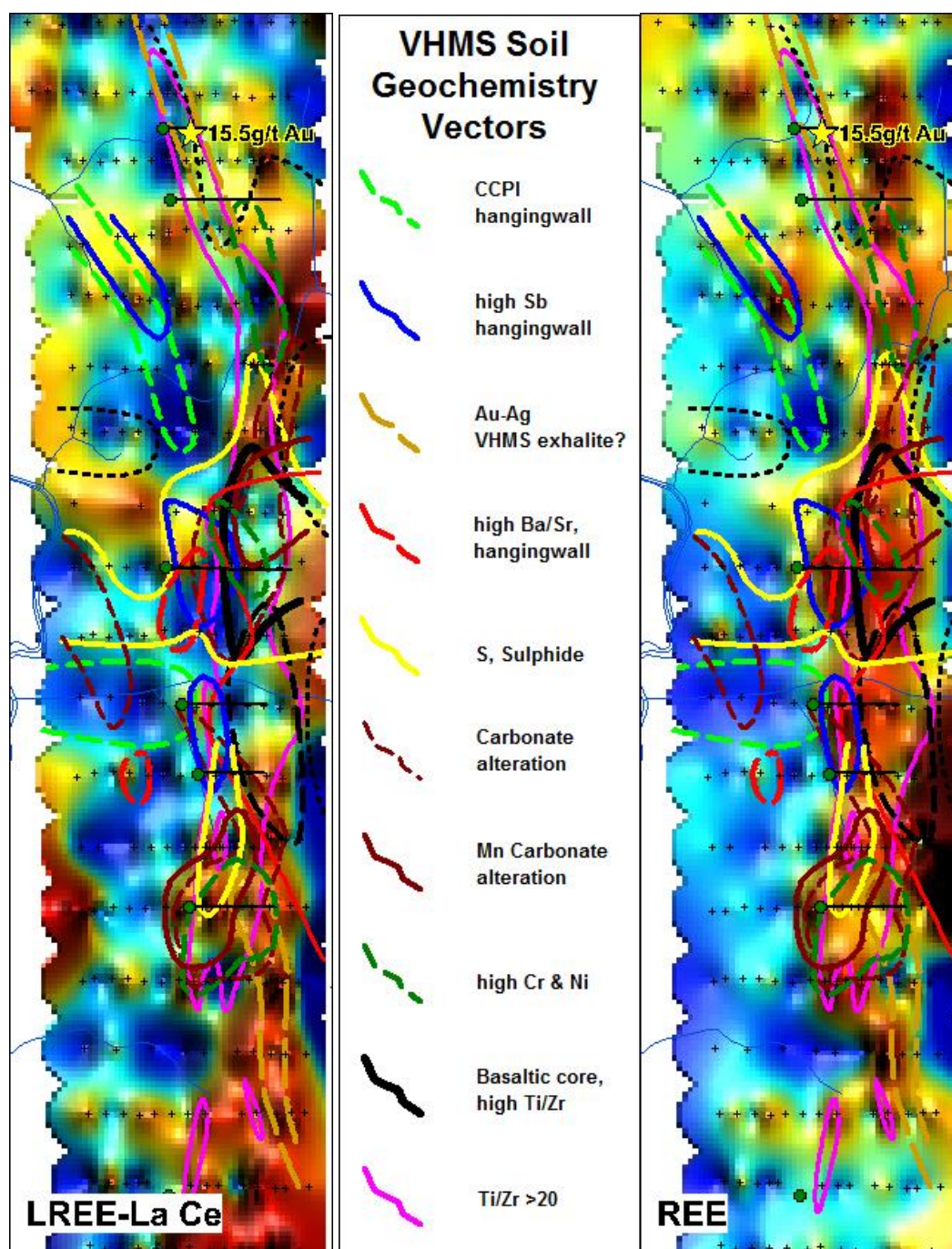


Figure 11: Grids for Clark Grid Soil ICP-MS by LREE (left) and REE (right); Also showing interpreted alteration trends and potential drill holes (green).

Table 1: Proposed exploration program cost summary 2022/23

Clark & Pillinger Exploration Program Cost Summary 2022		
Program	Budget	Description / Target
Reconnaissance regional target assessment	\$120,000	Reconnaissance mapping, stream and rock chip sampling, with focus on Clark NE RAI anomaly and strike extents, as well as Pillinger magnetic anomalies; ~12km access tracks required
Phase 1 Pillinger NE Block gridding and soil sampling	\$71,500	EM conductor, structural intersection, Au anomalism, Clark Grid VHMS host horizon strike extension; ~6.5 line km grid
Phase 2 NE Pillinger and Clark Grid Geophysics	\$144,600	Dipole-Dipole IP including ~7km gridding (incl. ~5km of re cut) and additional soil sampling on Clark Grid
Drilling NE Pillinger and Clark Grid	\$203,000	2 holes for 500m; test best of geological, geochemical & geophysical survey anomaly potential. Helicopter assisted camp
MobeMT (Clark Pillinger only totalling ~150 line km)	\$75,000	Airborne Magnetotellurics survey targetting regional scale anomalies; Up to \$200k to cover 800line km regional ERA
Total	\$614,100	

Expenditure

Table 2: Expenditure on EL10/2018 for the 2022 tenure year.

Expense Type	Cost
1. Geoscience	
Geology	\$4,005
Geochemistry	
Geophysics	
Remote Sensing	
2. Drilling & Gridding	
Gridding	
Drilling	
3. Land Access	
4. Rehabilitation	
5. Feasibility Studies	
6. Other	\$617
7. Administration	\$265
8. Total Exploration Costs	\$4,887

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Appendix

Appendix 1: List of Appended Digital Files

Exploration Work Type	Filename	File format
Report	EL102018_202209_01_Report.pdf	pdf
File Verification Listing (<i>this file</i>)	EL102018_202209_02_FileListing.xls	xls