



GLOBAL BATTERY METALS

NW LEINSTER LITHIUM PEGMATITE PROJECT TECHNICAL UPDATE

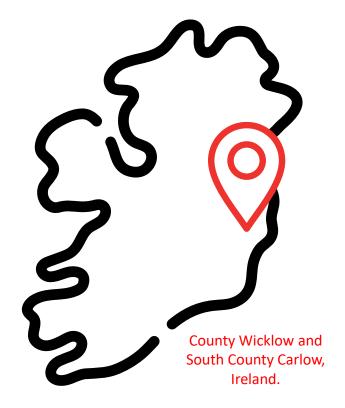
Prepared by Vaughan Williams

TSX.V: GBML | OTCQB: REZZF | FSE: REZ

February 2023

NW LEINSTER LITHIUM PEGMATITE PROJECT

The NW Leinster Project is located in County Wicklow and South County Carlow, Ireland.



Northern Block Licensing

15 prospecting licenses

Five primary targets identified; each with spodumene pegmatite float

Ongoing field work

Southern Block Licensing

One prospecting licence (PLA 1597)

Location of Spodumene pegmatite dyke in trench (1976-77)

Localized Pionjar/Cobra deep overburden sampling at Knockeen target

Localized prospecting and mapping at Knockeen and Carriglead targets

Supportive landowners

GLOBAL BATTERY METALS

A DEVELOPING PEGMATITE STORY

The NW Leinster Project is focused on the exploration for lithium mineralization (spodumene pegmatites) in Ireland.

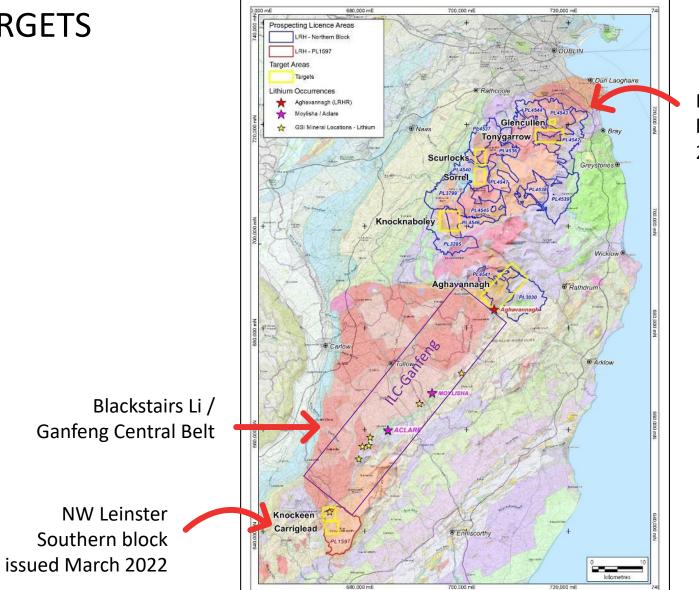


compliant resource dating from 1977 when the project ended at that time under Irish Base Metals and not indicative on any work that may have been carried out on the project since that time. The Blackstairs Project, owned by Ganfeng Lithium Corporation, lies nearby in the Central Belt between the Northern and Southern Belts.

The Blackstairs Project is centered primarily on the Aclare and Moylisha pegmatite occurrences discovered during mid 1970s near the contact of the Tullow Lowlands granite pluton with the Lower Paleozoic metasediments which are considered genetically as well as spatially related to the East Coast Diatom Zone (ECDZ).

The Aclare Deposit (part of International Lithium Corp – Ganfeng Lithium Co. Ltd JV's Avalonia Project) which reportedly comprises a 20m wide spodumene pegmatite zone with a non-compliant historical resource estimate of 570,000 tonnes grading 1.5% Li20; strike length of primary target zone is approx. 550m with best intersections of 2.23% Li20 over 23.3m including 3.43% Li20 over 6m.

PRIMARY TARGETS

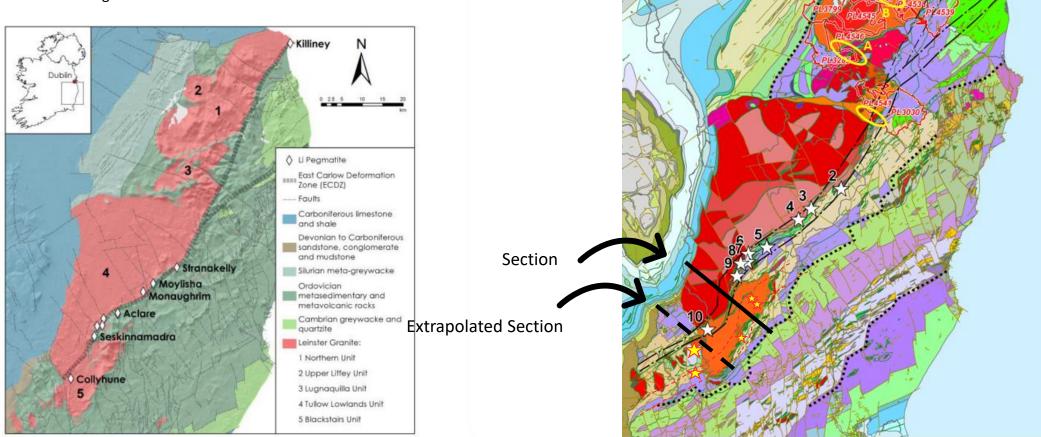


NW Leinster Northern block issued October 2018



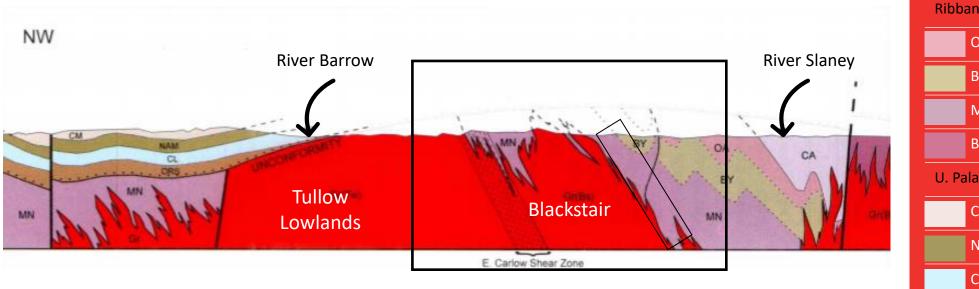
RARE-ELEMENT MINERALIZATION AND METASOMATISM IN LCT PEGMATITES

David Kaeter¹ and Julian F. Menuge^{1 2}

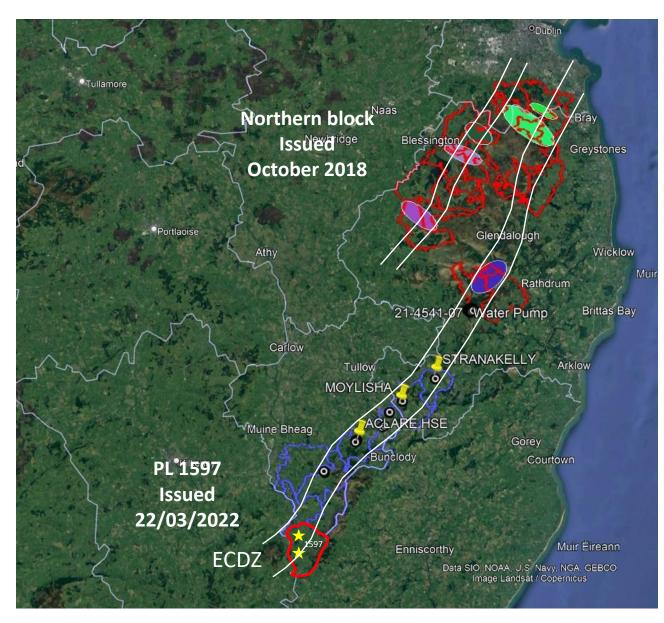


¹ iCRAG and School of Earth Sciences, University College Dublin, Belfield, Dublin D04 N2E5, Ireland, email: David.kaeter@icrag-centre.org ² Earth Institute, University College Dublin, Belfield, Dublin D04 N2E5, Ireland

SECTION (FROM PREVIOUS SLIDE)



Duncannon Group CA Cahore Group NN **Ribband Group** OA ΒY MN ΒH U. Palaeozoic Rocks CM (Westphalian Coal Measures) NAM (Namurian) CL (Carboniferous Limestone) ORS (Old Red Sandstone) Granites Gr(Tw) (Tullow Granite) Gr(Bs) (Blackstairs Granite) Gr(Bm) (Ballynamuddagh Granite)



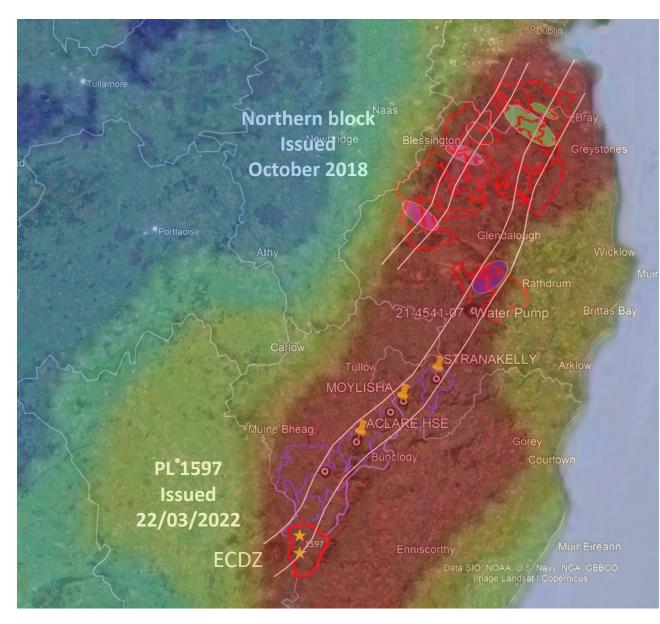
A SPODUMENE PEGMATITE BELT IN LEINSTER HAS BEEN KNOWN SINCE 1960s.

It is virtually unexposed, but numerous concentrations of boulders have led to repeated mineral exploration interest.

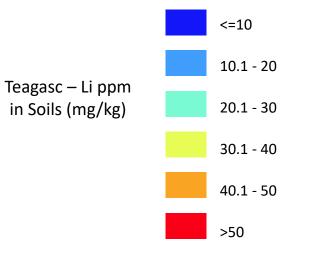
Since 1970, exploration drilling has demonstrated several spodumene pegmatites in the belt, with their main bodies located along the eastern margin of the Blackstairs Li / Ganfeng Central Belt (in blue).

Mainly ~400–420 Ma S-type Leinster Batholith.

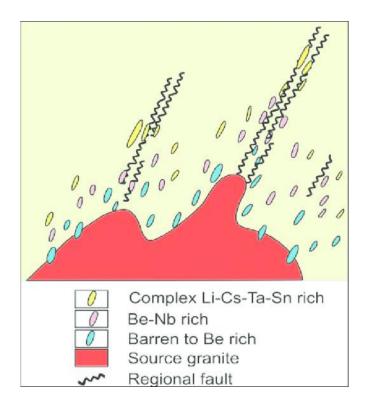
REGIONAL GEOLOGY



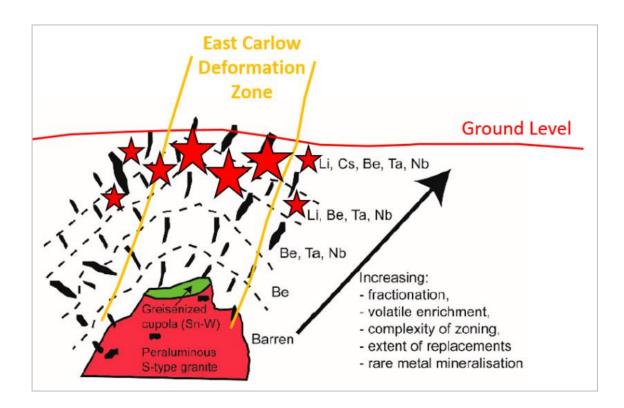
SOIL GEOCHEMICAL ATLAS



PEGMATITE MODEL

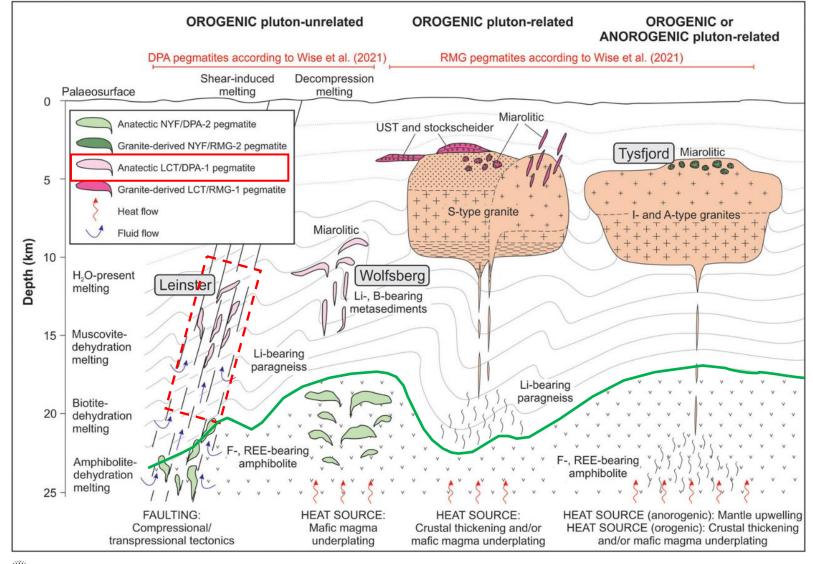


Model: Combination of the "roof of pluton" emplacement model and the "anatexis model"



Optimum zone for emplacement of pegmatites in roof of granite within the schists. Within the ECDZ.

PEGMATITE MODEL



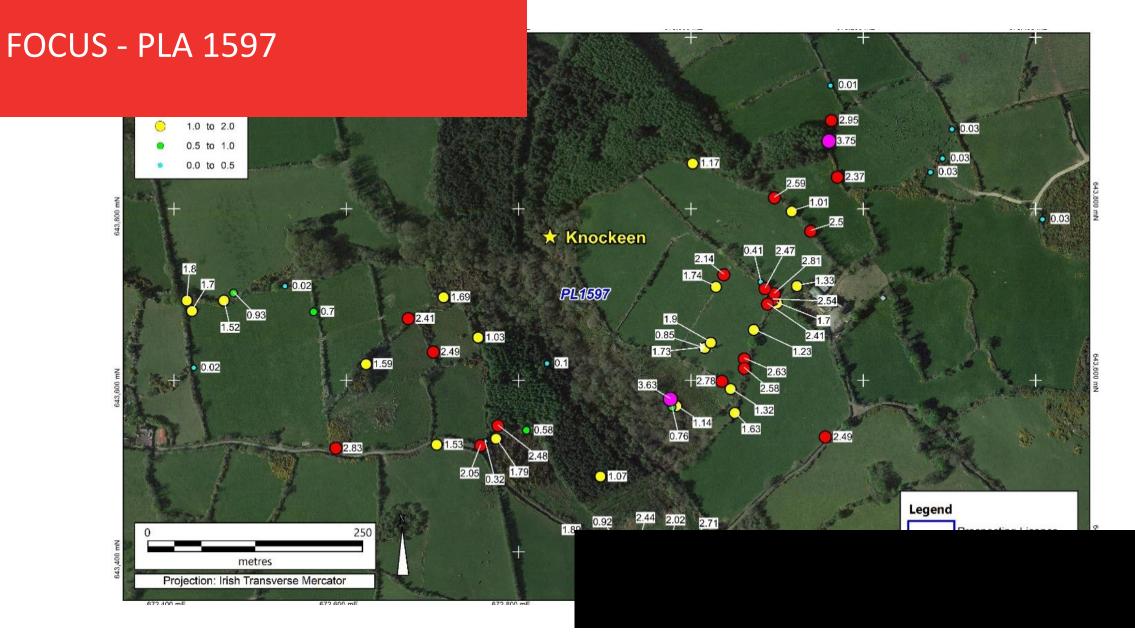
AGE OF PEG 412 Ma

AGE OF HOST 417-405 Ma

HOST Tullow Lowlands Granite

STRUCTURE Trans tensional Regime

East Carlow Deformation Zone



PLA 1597 INITIAL TARGETING

PLA 1597 INITIAL TARGETING

There are already two known historical spodumene boulder trains reported and validated by the company on PL 1597 (Knockeen and Carriglead). The Knockeen occurrence is further confirmed by a trench excavated in 1976, which intersected a 6' wide (1.82m) spodumene pegmatite dyke.

No grades are reported from this time, but today we find general spodumene float near the trench, as well as material we think came from the trench.

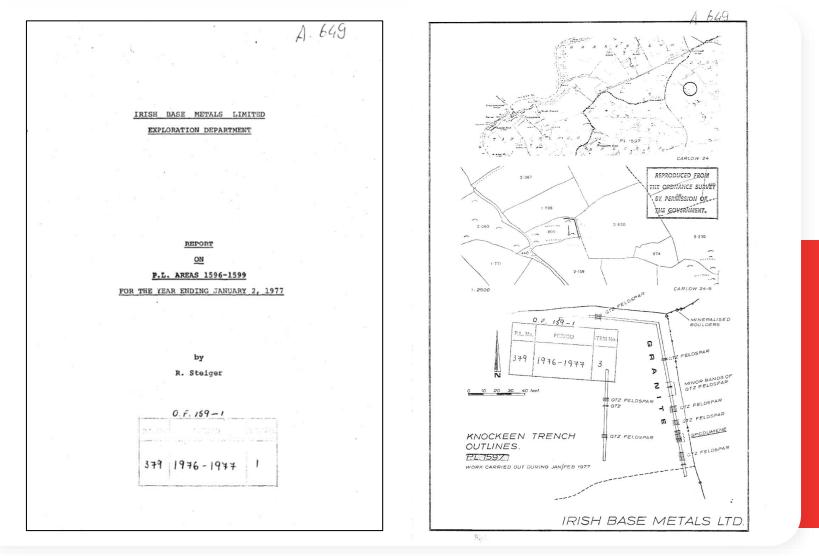
The four samples listed were collected across the Knockeen Target area on the first visit.

A few things are still unclear about the location: the bedrock's depth, whether or not this is the only dyke, and if not, whether it's the best among a swarm of others.

This is the reason we are completing the deep overburden sampling, to ascertain where best to site a drill rig.



COLLYHUNE (KNOCKEEN) TARGET

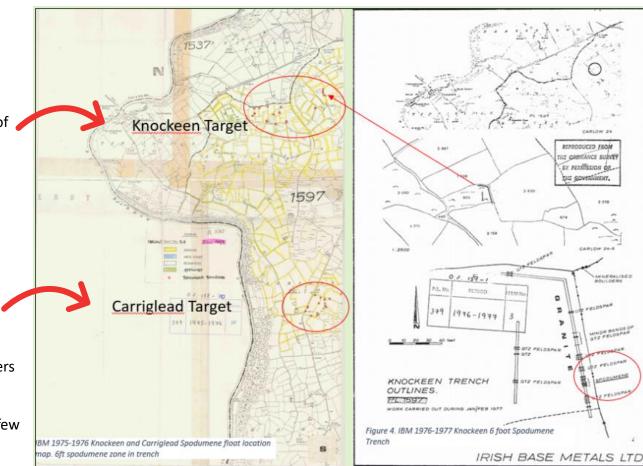


KNOCKEEN

- ~900m long float train, with many historical boulders noted by IBM
- Historical Trench discovered a 1.82m zone of spodumene
- 1% = 10000ppm, Li2O % = Li % (x 2.153) 210724CL02 Li2O = 0.7% Li2O 210724CL03 Li2O = 2.41% Li2O 210724CL04 Li2O = 2.37% Li2O 210724CL05 Li2O = 2.95% Li2O

CARRIGLEAD

- ~400m long float train, >17 historical boulders noted here on IBM maps
- Grades up to 1.61% Li2O achieved within a few hours spent prospecting



JULY 2022 RECONNAISANCE



Colm Long, Geologist

PLA 1597

SPODUMENE PEGMATITE SAMPLES FROM KNOCKEEN AND CARRIGLEAD

A, B. Spodumene pegmatite field samples Knockeen

C. Spodumene pegmatite Knockeen Sample 210724CL05 (2.95% Li2O)

D. Spodumene pegmatite Carriglead Sample AES61138 (1.61% Li2O)





| Sample | Li (ppm) | Li ₂ O eq (%)* |
|------------|----------|---------------------------|
| 210724CL02 | 3,240 | 0.70% |
| 210724CL03 | 11,200 | 2.41% |
| 210724CL04 | 11,000 | 2.37% |
| 210724CL05 | 13,700 | 2.95% |

SOUTHERN BLOCK: PLA 1597-CARRIGLEAD

- ~400m long float train, >17 historical boulders noted here on IBM maps
- Recon sampling 2x Spodumene boulder grades up to 0.76-1.61% Li2O achieved within a few hours spent prospecting

SOUTHERN BLOCK: PLA 1597-KNOCKEEN

- ~1000m long float train, with many historical boulders noted by IBM
- Historical Trench discovered a 1.82m zone of spodumene pegmatite
- Position of the historical trench has been located
- Recon sampling confirmed 4x high grade lithium spodumene pegmatite in float at Knockeen & Carriglead
- Assays 0.7 2.95% Li2O

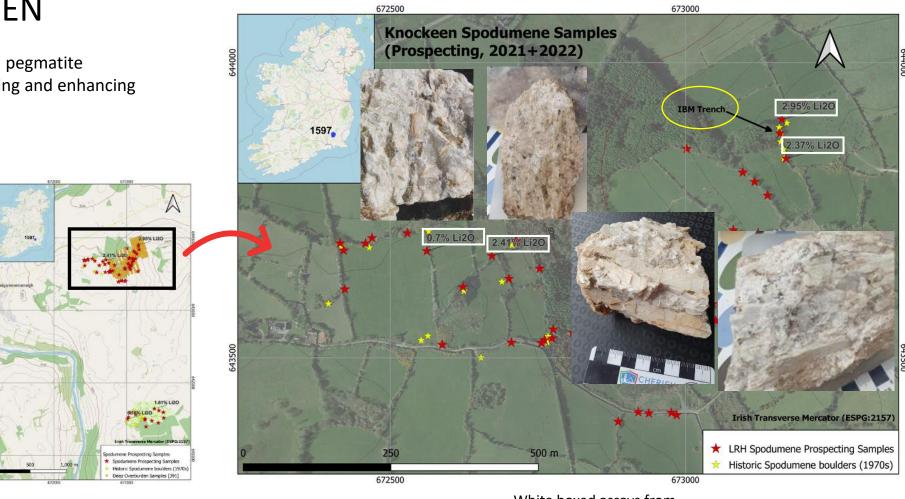
PROSPECTING SOUTHERN BLOCK

| Sample ID | Licence | Prospect | Li ppm | Li2O %* |
|------------|---------|------------|--------|---------|
| 210724CL02 | PL 1597 | Knockeen | 3240 | 0.70 |
| 210724CL03 | PL 1597 | Knockeen | 11200 | 2.41 |
| 210724CL04 | PL 1597 | Knockeen | 11000 | 2.37 |
| 210724CL05 | PL 1597 | Knockeen | 13700 | 2.95 |
| AES61137 | PL 1597 | Carriglead | 3550 | 0.76 |
| AES61138 | PL 1597 | Carriglead | 7470 | 1.61 |



PROSPECTING SOUTHERN BLOCK, KNOCKEEN

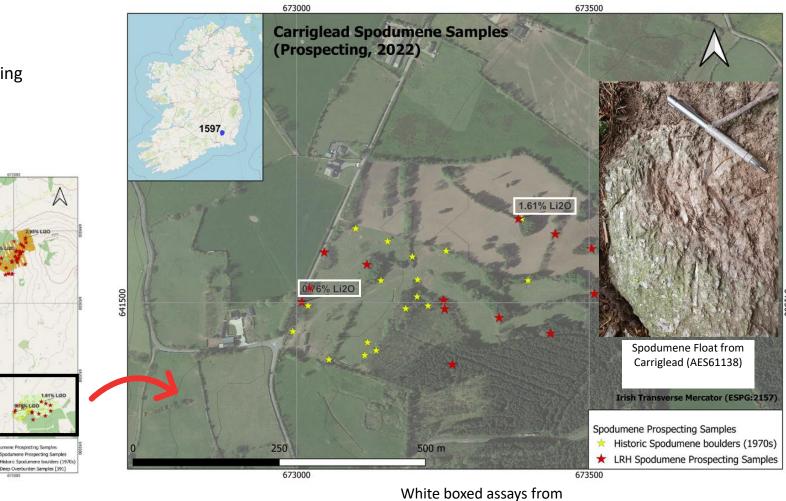
Prospecting discovery of lithium pegmatite "Spodumene" boulders. Extending and enhancing previous work.



White boxed assays from Initial reconnaissance sampling WSR\CL 2021

PROSPECTING SOUTHERN BLOCK, CARRIGLEAD

Prospecting discovery of lithium pegmatite "Spodumene" boulders. Extending and enhancing previous work.



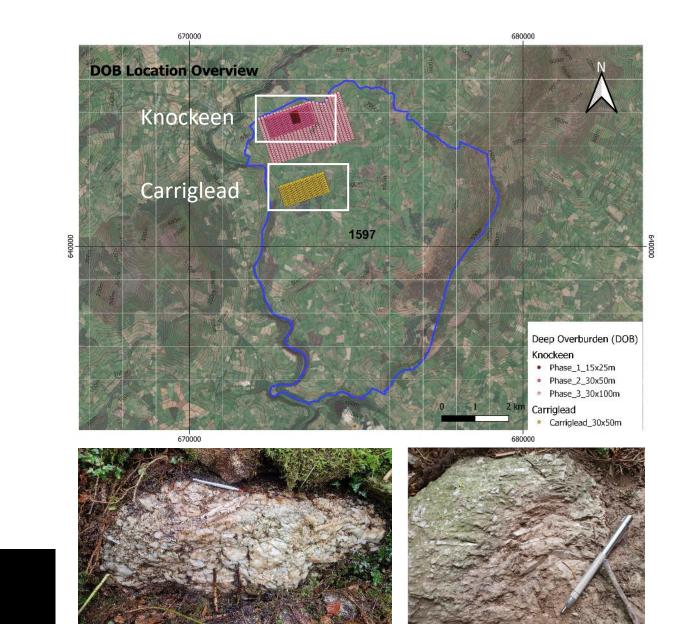
Initial reconnaissance sampling WSR\CL 2021

DECEMBER 2022 RESULTS

PROSPECTING SOUTHERN BLOCK

- Completed October/November 2022
- Covered the Knockeen East and West target areas as well as the Carriglead target to the south
- Both located significant extent of lithium bearing spodumene pegmatite
- All samples sent to ALS Laboratories for analysis

Global Battery Metals Reports High Grade Lithium Assays Returned; Surface Samples Up to 3.75% Li2O From NW Leinster Lithium Project

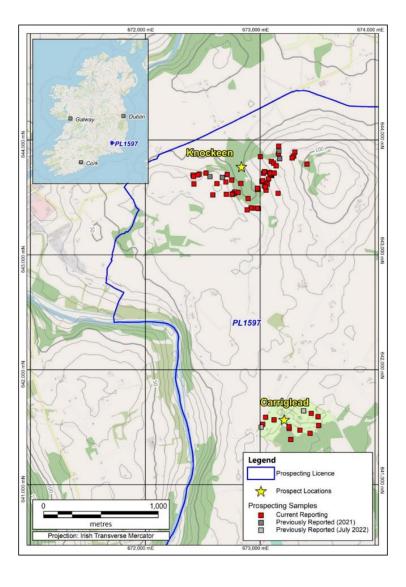


V.Williams

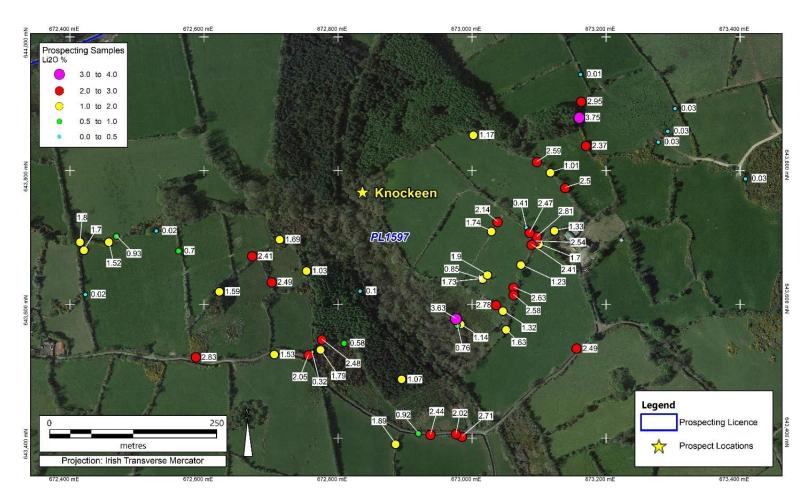
Colm Long

| | Prospect | Program | No |
|---|------------|--------------------------|----|
| | Carriglead | Recon Sampling July 2022 | 2 |
| _ | Knockeen | Recon Sampling July 2022 | 4 |
| | | | |

| Prospect | DD Sampling July 2022 | No |
|------------------------|-----------------------------|----------|
| Carriglead | Follow Up Sampling Dec 2022 | 10 |
| Knockeen | Follow Up Sampling Dec 2022 | 56 |
| | , | |
| | | |
| Prospect | Program | No |
| Prospect Carriglead | Program Total | No 12 |
| · · · | | |



MAPPING AND PROSPECTING SOUTHERN BLOCK



| Sample_ID | Li_ppm | Li2O%* |
|-----------|--------|--------|
| AES63003 | 17,410 | 3.75 |
| AES63033 | 16,860 | 3.63 |
| AES63519 | 13,160 | 2.83 |
| AES63015 | 13,050 | 2.81 |
| AES63029 | 12,920 | 2.78 |
| AES63042 | 12,580 | 2.71 |
| AES63014 | 12,200 | 2.63 |
| AES63021 | 12,040 | 2.59 |
| AES63018 | 11,980 | 2.58 |
| AES63011 | 11,820 | 2.54 |
| AES63023 | 11,620 | 2.50 |
| AES63028 | 11,580 | 2.49 |
| AES63041 | 11,570 | 2.49 |
| AES63037 | 11,510 | 2.48 |
| AES63016 | 11,460 | 2.47 |
| AES63044 | 11,340 | 2.44 |
| AES63012 | 11,180 | 2.41 |
| AES63008 | 9,920 | 2.14 |
| AES63048 | 9,520 | 2.05 |
| AES63043 | 9,360 | 2.02 |

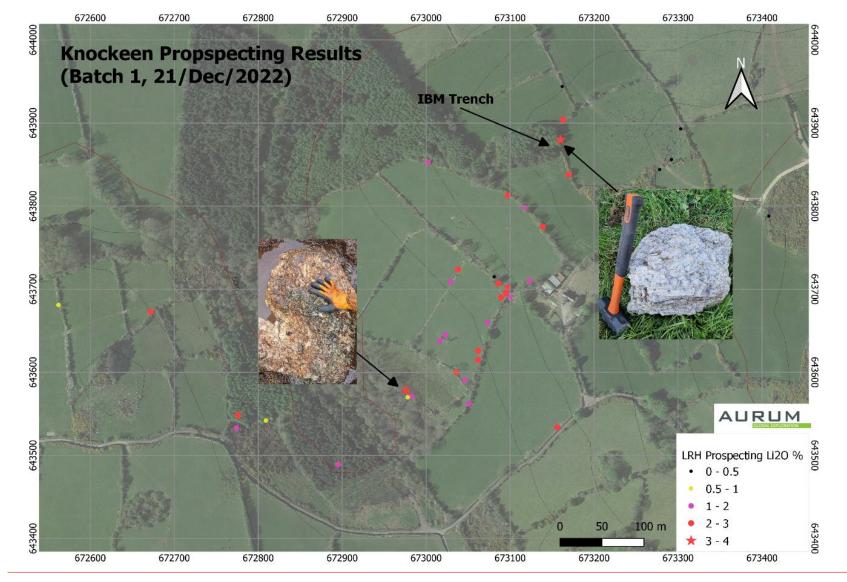
Follow up mapping and sampling December 2022

HIGHLIGHT RESULTS FROM THE PROSPECTING PROGRAM

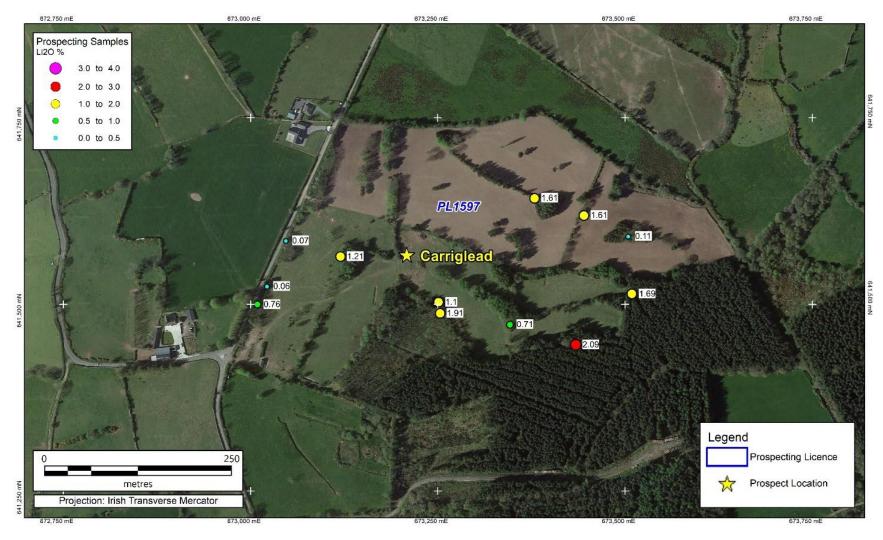
| | | .=. | , |
|-----------|-----------------------------|--------|-------|
| Sample ID | Program | Li_ppm | Li2O% |
| AES63003 | Follow Up Sampling Dec 2022 | 17,410 | 3.75 |
| AES63033 | Follow Up Sampling Dec 2022 | 16,860 | 3.63 |
| AES63519 | Follow Up Sampling Dec 2022 | 13,160 | 2.83 |
| AES63015 | Follow Up Sampling Dec 2022 | 13,050 | 2.81 |
| AES63029 | Follow Up Sampling Dec 2022 | 12,920 | 2.78 |
| AES63042 | Follow Up Sampling Dec 2022 | 12,580 | 2.71 |
| AES63014 | Follow Up Sampling Dec 2022 | 12,200 | 2.63 |
| AES63021 | Follow Up Sampling Dec 2022 | 12,040 | 2.59 |
| AES63018 | Follow Up Sampling Dec 2022 | 11,980 | 2.58 |
| AES63011 | Follow Up Sampling Dec 2022 | 11,820 | 2.54 |
| | | E - | |

* Li2O % = Li% (x 2.153)

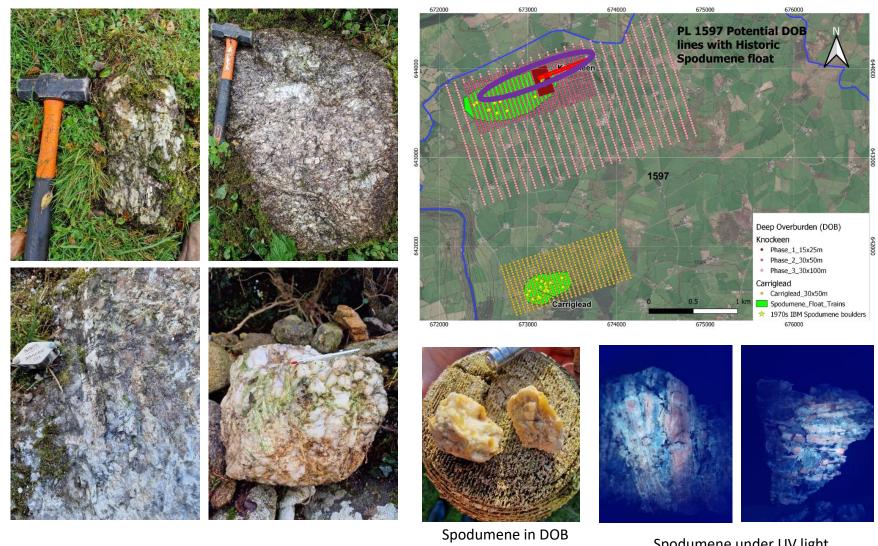
KNOCKEEN PROSPECTING RESULTS



CARRIGLEAD PROSPECTING RESULTS



SUMMARY



chips

Spodumene under UV light

PROSPECTING LITHOGEOCHEMISTRY SAMPLING

- 75% of the results are in from ALS Laboratories.
- Sample results (listed on next slide) are from across the Knockeen target.
- Excellent results from all across the target area.
- Results in column "Li2O%" are converted from Li% off the assay cert by multiplying by a factor of x2.153.
- It should be noted that all of the samples are collected from material that would have been cleared from the fields and moved to the margins, so are not in place. But it is thought that they are close to source.
- Initial results show very high values for Li2O in many of the samples collected to date.
- It should also be noted that many of the boulders sampled were of a significant size, indicating a closer proximity to source.
- Some samples were analyzed for different reasons, with those at the bottom not sampled for lithium. Instead, other sulphides were found present in these schist samples.



FULL SET OF ASSAY RESULTS

| Sample_ID | Programme | Li_ppm | Li20 % | Prospect |
|------------|-----------------------------|------------|---------------|----------|
| AES 63003 | Follow Up Sampling Dec 2022 | 17,410 | 3.75 | Knockeen |
| AES 63033 | Follow Up Sampling Dec 2022 | 16,860 🔪 🤈 | 3.63 | Knockeen |
| AES 63519 | Follow Up Sampling Dec 2022 | 13,160 / 3 | 2.83 | Knockeen |
| AES 63015 | Follow Up Sampling Dec 2022 | 13,050 | 2.81 | Knockeen |
| AES 63029 | Follow Up Sampling Dec 2022 | 12,920 🍾 | 2.78 | Knockeen |
| AES 63042 | Follow Up Sampling Dec 2022 | 12,580 | 2.71 | Knockeen |
| AES 63014 | Follow Up Sampling Dec 2022 | 12,200 | 2.63 | Knockeen |
| AES 63021 | Follow Up Sampling Dec 2022 | 12,040 | 2.59 | Knockeen |
| AES 63018 | Follow Up Sampling Dec 2022 | 11,980 | 258 | Knockeen |
| AES 63011 | Follow Up Sampling Dec 2022 | 11,820 | 2.54 | Knockeen |
| AES 63023 | Follow Up Sampling Dec 2022 | 11,620 | 2.50 | Knockeen |
| AES 63028 | Follow Up Sampling Dec 2022 | 11,580 | 2.49 | Knockeen |
| AES 63041 | Follow Up Sampling Dec 2022 | 11,570 | 249 | Knockeen |
| AES 63037 | Follow Up Sampling Dec 2022 | 11,510 | 248 | Knockeen |
| AES 63016 | Follow Up Sampling Dec 2022 | 11,460 | 2.47 | Knockeen |
| AES 63044 | Follow Up Sampling Dec 2022 | 11,340 | 2.44 | Knockeen |
| AES 63012 | Follow Up Sampling Dec 2022 | 11,180 | 2.41 | Knockeen |
| AES 63008 | Follow Up Sampling Dec 2022 | 9,920 | 2.14 | Knockeen |
| AES 63048 | Follow Up Sampling Dec 2022 | 9,520 | 2.05 | Knockeen |
| AES 63043 | Follow Up Sampling Dec 2022 | 9,360 | 2.02 | Knockeen |
| AES 63027 | Follow Up Sampling Dec 2022 | 8,820 >2 | 1.90 | Knockeen |
| AES 63046 | Follow Up Sampling Dec 2022 | 8,790 | 1.89 | Knockeen |
| AES 63516 | Follow Up Sampling Dec 2022 | 8,370 % | 1.80 | Knockeen |
| AES 63036 | Follow Up Sampling Dec 2022 | 8,300 | 1.79 | Knockeen |
| AES 63007 | Follow Up Sampling Dec 2022 | 8,090 | 1.74 | Knockeen |
| AES 63026 | Follow Up Sampling Dec 2022 | 8,030 | 1.73 | Knockeen |
| AES 63010 | Follow Up Sampling Dec 2022 | 7,890 | 1.70 | Knockeen |
| AES 63517 | Follow Up Sampling Dec 2022 | 7,910 | 1.70 | Knockeen |
| AES 63512 | Follow Up Sampling Dec 2022 | 7,840 | 1.69 | Knockeen |
| AES 63017 | Follow Up Sampling Dec 2022 | 7,550 | 1.63 | Knockeen |
| AES 635 20 | Follow Up Sampling Dec 2022 | 7,370 | 1.59 | Knockeen |
| AES 63049 | Follow Up Sampling Dec 2022 | 7,100 | 1.53 | Knockeen |
| AES 63515 | Follow Up Sampling Dec 2022 | 7,040 | 1.52 | Knockeen |
| AES 63024 | Follow Up Sampling Dec 2022 | 6,190 | 1.33 | Knockeen |
| AES 63031 | Follow Up Sampling Dec 2022 | 6,140 | 1.32 | Knockeen |
| AES 63013 | Follow Up Sampling Dec 2022 | 5,720 | 1.23 | Knockeen |
| AES 63019 | Follow Up Sampling Dec 2022 | 5,420 | 1.17 | Knockeen |
| AES 63030 | Follow Up Sampling Dec 2022 | 5,300 | 1.14 | Knockeen |
| AES 63034 | Follow Up Sampling Dec 2022 | 4,960 | 1.07 | Knockeen |
| AES 63039 | Follow Up Sampling Dec 2022 | 4,790 | 1.03 | Knockeen |
| AES 63022 | Follow Up Sampling Dec 2022 | 4,710 | 1.01 | Knockeen |

| AES63022 | Follow Up Sampling Dec 2022 | 4,710 >1% | 1.01 | Knockee n |
|-----------|-----------------------------|-----------|-------|-----------|
| AES63 514 | Follow Up Sampling Dec 2022 | 4,300 | 0.93 | Knockee n |
| AES63045 | Follow Up Sampling Dec 2022 | 4,290 | 0.92 | Knockee n |
| AES6302 5 | Follow Up Sampling Dec 2022 | 3,940 | 0.8 5 | Knockee n |
| AES63032 | Follow Up Sampling Dec 2022 | 3,550 | 0.76 | Knockee n |
| AES6303 5 | Follow Up Sampling Dec 2022 | 2,680 | 0.58 | Knockee n |
| AES63009 | Follow Up Sampling Dec 2022 | 1,920 | 0.41 | Knockee n |
| AES63047 | Follow Up Sampling Dec 2022 | 1,480 | 0.32 | Knockee n |
| AES63038 | Follow Up Sampling Dec 2022 | 4 50 | 0.10 | Knockee n |
| AE\$63001 | Follow Up Sampling Dec 2022 | 120 | 0.03 | Knockee n |
| AE\$63002 | Follow Up Sampling Dec 2022 | 120 | 0.03 | Knockee n |
| AES63004 | Follow Up Sampling Dec 2022 | 120 | 0.03 | Knockee n |
| AE\$63005 | Follow Up Sampling Dec 2022 | 130 | 0.03 | Knockee n |
| AES63 513 | Follow Up Sampling Dec 2022 | 100 | 0.02 | Knockee n |
| AES63 518 | Follow Up Sampling Dec 2022 | 80 | 0.02 | Knockee n |
| AES63006 | Follow Up Sampling Dec 2022 | 60 | 0.01 | Knockee n |

| Sample_ID | Programme | Li_ppm | Li20% | |
|-----------|-----------------------------|--------|-------|-----|
| AES63504 | Follow Up Sampling Dec 2022 | 9,720 | 2.09 | Car |
| AES63503 | Follow Up Sampling Dec 2022 | 8,890 | 1.91 | Car |
| AES63509 | Follow Up Sampling Dec 2022 | 7,870 | 1.69 | Car |
| AES63501 | Follow Up Sampling Dec 2022 | 7,460 | 1.61 | Car |
| AE\$63507 | Follow Up Sampling Dec 2022 | 5,620 | 1.21 | Car |
| AE\$63505 | Follow Up Sampling Dec 2022 | 5,120 | 1.10 | Car |
| AE\$63508 | Follow Up Sampling Dec 2022 | 3,280 | 0.71 | Car |
| AES63511 | Follow Up Sampling Dec 2022 | 500 | 0.11 | Car |
| AE\$63506 | Follow Up Sampling Dec 2022 | 330 | 0.07 | Car |
| AES63502 | Follow Up Sampling Dec 2022 | 290 | 0.06 | Car |

DEEP OVERBURDEN SAMPLING



Pionjar Sampling hammering down



Retrieving the sample



Sampling & recording data



Safe transport of equipment

Spodumene (hardness 6.5-7) is a variety of pyroxene that has little resistance to weathering and alteration, with a concomitant loss of lithium. It doesn't break down easily in a mechanical process, but chemically alters with ease.

NW LEINSTER PROJECT STATUS

Progressive Value Creation

2021

- ✓ 12.5km ground Mag survey complete.
- Deep overburden soils with Li/Ta/Cs anomalies along granite/Ordovician sediment contact where a pegmatite dike swarm occurs.
- ✓ 3 holes totaling 625m drilled in 2021
 - No significant spodumene or Li in pegmatite
 - Intersected major dyke swarm
 - Anomalous Li in biotite grains in pegmatite (1500-2638 ppm) indicating possible proximity to Li mineralization
 - Source of spodumene pegmatite not located

 Target prospecting at Knockeen & Carriglead completed.

2022

- ✓ 66 total surface samples analyzed, assay results show that 47 returned grades above 1% Li2O with grades as high as 3.75% and 3.63% Li2O (source: ALS Laboratories - Loughrea, Ireland).
- ✓ Knockeen: out of a total of 56 samples, 41 samples graded above 1% Li2O, of which 20 graded above 2% Li2O and of which two graded above 3% Li2O (Sample AES 63003 (3.63% Li2O) and Sample AES 63033 (3.75% Li2O)).
- Carriglead: out of a total of 10 samples, six samples graded above 1% Li2O, of which one sample analyzed above 2% Li2O (Sample AES63504 (2.09% Li2O)).

2023

- Deep overburden results expected to be returned in February.
- GBML has identified a pegmatite dike which may have been the source of the lithium bearing pegmatite boulders. Work is underway to test this theory.
- Targeting Spring 2023 to begin drilling campaign.





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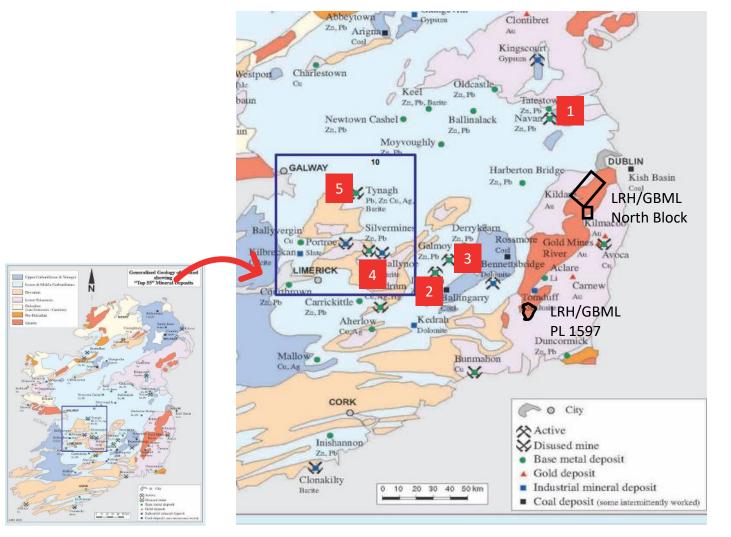


February 2023



APPENDIX: EXPLORATION AND MINING IN IRELAND

MAJOR METAL MINES IN SOUTHEAST IRELAND



Navan Mine

1.

Boliden Zn-Pb 100Mt @ 14.5% Zn+Pb

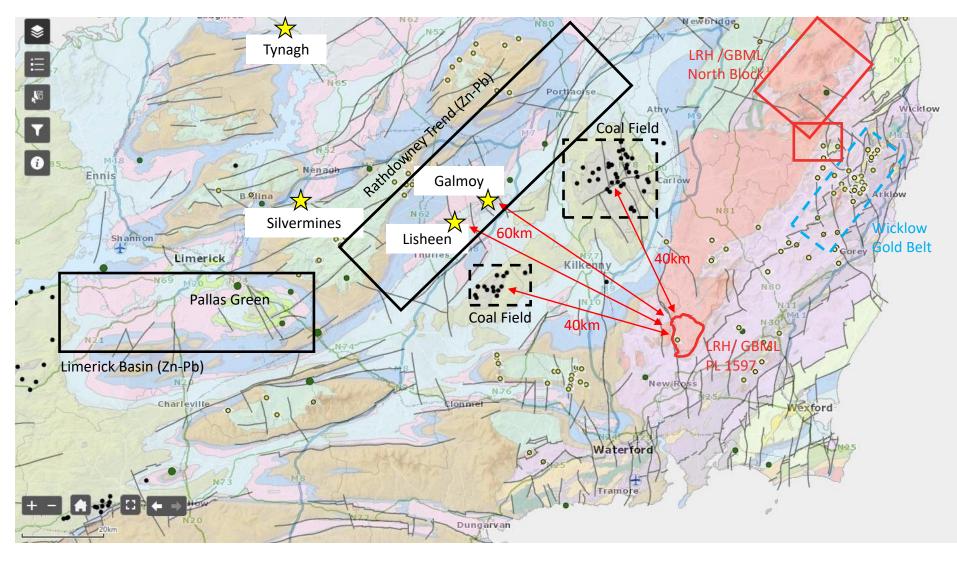
2. Lisheen Mine Anglo Zn-Pb 18Mt @ 14.9% Zn+Pb

 Galmoy Mine Lundin Zn-Pb 9Mt @ 14.5% Zn+Pb

4. Silvermines Mine Zn-Pb 18Mt @ 17.7% Zn+Pb

5. Tynagh Mine Lundin Zn-Pb 11.8Mt @ 11.5% Zn+Pb

MINES CLOSE TO LICENCE HOLDINGS



QUARRIES CLOSE TO LICENCE HOLDINGS

