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All information is also available at [www.mineralsireland.ie](http://www.mineralsireland.ie)



**Exploration  
& Mining**  
Division Minerals  
Ireland

*Roinn Cumarsáide,  
Gníomhaíthe ar son  
na hAeráide agus  
Comhshaoil*

Department of  
Communications,  
Climate Action &  
Environment

## Ground Status and Application Procedure

This booklet contains listed details of all current prospecting and mining facilities. Details include the names of the licensees, the geographical location and, with reference to prospecting licences, the details of the minerals for which they have been issued. The locations of these prospecting licences and mining facilities, as well as ground that is available for application is available in an online facility maintained by this Department and accessible at <http://www.mineralsireland.ie/OnlineServices>.

### Available Ground

Ground that is available for exploration under a Prospecting Licence (PL) is available online through <http://spatial.dcenr.gov.ie/ExplorationAndMining/SpatialViewer/index.html>.

#### 1. Ground Categories

- a. **Open areas (Green/Pale Green):** Established licence areas available for application at any time are identified by their number. Those areas coloured pale green attract exploration incentives (see Incentive Areas below).
- b. **Held areas (Red):** Current prospecting licences and recently offered licences are restricted to certain minerals (p.10-25). Such ground is available for application for prospecting for other minerals.
- c. **Competition areas (Yellow):** Available Prospecting Licence areas for this competition are listed on page 8.

## 2. Prospecting Licence Terms

A prospecting licence typically covers an area of 35 km<sup>2</sup>. Prospecting licences are issued for a period of six years (maximum), for specified minerals, and can be renewed. A minimum expenditure per licence is required, and varies with the age of the licence (see table below). A minimum work programme is also required, details of which are agreed with the licensee. Progressively increased work and expenditure commitments are required on renewal. Work reports are required every two years, and are held confidential for six years thereafter, or until expiry or surrender of the licence. Third party insurance, indemnifying the Minister, is required for the period of the licence.

## 3. Incentive Areas

Significant financial incentives are available for the first six years of exploration on relatively neglected areas or areas where current exploration is restricted to certain minerals. The incentives consist of substantially reduced fees and expenditure requirements, and are designed to provide scope for relatively inexpensive "grass roots" exploration, in order to encourage work in areas where results of earlier exploration had failed to produce sufficient encouragement to the licensee.

The incentives apply to two categories of ground:

- a. **Open Areas** where these Prospecting Licence areas have been available for application for more than four years.
- b. **Areas currently licensed for certain minerals**, but available for exploration for other minerals. Currently licensed areas for which exploration may be undertaken for other minerals are listed on pages 10-25.

**Open Areas available for more than four years:** Where a previously issued Prospecting Licence area has been available for application for at least four years, the licence will be granted, normally, for a term of six years. A reduced fee of €1,250 per Prospecting Licence will apply, payable in advance for each two-year phase as €375 for each of the first and second phases, and €500 for the third phase. This represents a reduction of €1,875 (60%) in fees compared to the standard requirements. (There is no reduction in the application fee).

**Currently Licensed Areas:** Ground is also available to companies that wish to undertake exploration over areas currently held, for minerals that are not assigned to the current prospecting licence holder. Such additional prospecting licences will only be issued where the Minister for Communications, Climate Action and Environment is satisfied that there will be no clash of mineral interests. The current prospecting licence holder continues to hold a standing Statement of Interest for all other minerals in that area. The fees and expenditure requirements will be the same as for prospecting licences that have been available for over four years i.e. the 'Open Areas' Incentive category (see above).

<b>Fees</b>	<b>Competition / Standard Areas</b>	<b>Incentive Areas</b>
First 2 years	€750	€375
Second 2 years	€875	€375
Third 2 years	€1,500	€500
<b>TOTAL</b>	<b>€3,125</b>	<b>€1,250</b>
<b>Minimum Expenditure Requirements</b>		
First 2 years	€10,000	€2,500
Second 2 years	€15,000	€5,000
Third 2 years	€20,000	€10,000
<b>TOTAL</b>	<b>€45,000</b>	<b>€17,500</b>

## Ground Unavailable

Ground unavailable for application is differentiated as follows:

- Licences under application, and that have been offered to the applicant
- Licence areas that are currently not being made available for application
- Licences that have been applied for under earlier competition
- Excluded areas e.g. National Parks: These are areas that are not available for application at any time.
- Current Prospecting Licences for certain minerals Mining Leases, Mining Licences and Mining Permissions

## Application Procedures

While applications are invited for all categories of available ground, it should be understood that an area may have been already applied for, and that applications are treated on a time-priority basis i.e. "first come, first served". Before making an application for any open area, prospective applicants may wish to consult with the Exploration and Mining Division to ascertain whether there has been a prior application for the area. If there has been a prior application, and if a licence has been offered, the ground is not available for further applications. The acceptance of an application for a Prospecting Licence does not create any obligation on the part of the Minister to grant a licence.

Where there is a valid Statement of Interest over ground that is being applied for, the applicant will be so notified (but no other details provided), and invited to revise their application if they wish to do so.

Applicants are reminded that, if more than one area is applied for, a priority listing of the applications is required; otherwise all applications will be regarded as having equal priority. If separate applications are made over a period of time, the priorities should also take account of any earlier applications. It should be noted that where expenditure proposals are above the minimum required (e.g. in a Competition), these will be taken as the minimum expenditure requirement when the ground is offered to the successful applicant.

All applications for prospecting licences must be made using Form 1 (Application Form), accompanied by a fee of **€190.00 per Prospecting Licence Area**. The form is available to download at <http://www.mineralsireland.ie/OnlineServices/Forms>

Applications may be made to [EMD.info@DCCAE.gov.ie](mailto:EMD.info@DCCAE.gov.ie) or by post to:

Exploration and Mining Division  
Department of Communications, Climate Action and Environment  
29/31 Adelaide Road  
Dublin D02 X285

## Payments to the Department of Communications Climate Action and Environment

The Department can accept payment by Electronic Fund Transfer (EFT) only. Each payment **must** quote your 5-digit customer number. For assistance or for first time applicants please contact EMD directly.

Each payment must be followed by remittance notice detailing

- a. Name and address
- b. Your five digit customer number (eg. 12345)
- c. The date and amount paid into the Department's EFT Account
- d. A listing of the specific Department invoice number(s) to which the payment refers.
- e. Where no invoice has issued a detailed description of purpose of the payment.

The remittance notice can be sent to [AccountsReceivable@DCCAE.gov.ie](mailto:AccountsReceivable@DCCAE.gov.ie) or by mail to Accounts Receivable, Department of Communications, Climate Action and Environment, Elm House, Earlsvale Road, Cavan, H12 A8H7.

**All payments are to be made in Euro.** Applicants should be aware that bank charges can apply, particularly when applying from overseas. Provision should be made for these charges by the applicant to ensure the full amount is received in the Department's account. Failure to do so will lead to delays in applications being accepted.

<b>Bank Details</b>	Bank of Ireland, Main Street, Cavan, H12 E394
<b>Account Name</b>	Department of Communications, Climate Action and Environment Accounts Receivable
<b>Account No.</b>	7849 2156
<b>Bank Sort Code</b>	90 32 93
<b>IBAN</b>	IE48 BOFI 9032 9378 4921 56
<b>BIC</b>	BOFIE2D

The Department cannot accept any responsibility for payments that cannot be identified due to lack of information. Should you have any queries please contact Accounts Receivable at (01) 678 2000.

# Prospecting Licence Competition

## Procedures

Every three months, a Competition is held for certain Prospecting Licence areas. The competition relates to areas for which licences have been surrendered or terminated, or that have been offered but declined, in the previous three months. Previously unavailable ground may also be released through competition. Interested parties normally have two months in which to apply for a licence over a competition area, with all applications received during that period deemed to have been received at the same time i.e. no time priority is given to applications received during those months.

It should be noted that no reduction in financial commitment by aggregating expenditure from contiguous areas will be accepted for the first two-year phase for any licence area awarded under competition.

Prospecting licences available for application under Competition will be published usually on the 1<sup>st</sup> February, 1<sup>st</sup> May, 1<sup>st</sup> August and 1<sup>st</sup> November of each year. They consist of a list of prospecting licence areas that have become available for application under equal competition, together with details of how to apply, and a listing of prospecting licences issued or offered and advertised since the previous publication.

Maps and information on currently held Prospecting Licence areas are available through <http://www.DCCAE.gov.ie/EMDMapsAndData>. Updates to competitions are available on our competition page at <http://www.mineralsireland.ie/ExplorationLicensingProcess/ProspectingLicenceCompetitions.htm>.



## Competition Areas

Prospecting Licence Areas available under competition for the period  
1<sup>st</sup> May 2019 to 30<sup>th</sup> June 2019

PL Area	County	PL Area	County	PL Area	County
480	Offaly	3095	Donegal	3646	Tipperary
481	Offaly	3129	Offaly	3709	Kilkenny
608	Offaly	3202	Cork	3813	Offaly/Westmeath
1108	Offaly	3213	Kilkenny	3814	Offaly
1541	Wexford	3215	Kilkenny	3828	Kilkenny
1542	Wexford	3216	Kilkenny	3829	Kilkenny
2193	Monaghan	3227	Galway	3870	Monaghan
2301	Galway	3251	Galway	3871	Monaghan
2440	Cork	3313	Kilkenny	3880	Galway
2647	Galway	3397	Cavan	3895	Wexford
2724	Galway	3522	Kilkenny	3914	Galway
2964*	Donegal	3523	Kilkenny	3921	Donegal
3007	Donegal	3524	Kilkenny	3922	Donegal
3008	Donegal	3525	Kilkenny	3957	Kilkenny
3027	Monaghan	3526	Cavan	4054	Wexford
3062*	Donegal	3535	Cork	4248	Monaghan
3063	Donegal	3536	Cork	4251	Monaghan
3094	Donegal	3645	Tipperary/Kilkenny		
*Licence Area currently held for Diamonds and Gemstones including semi-precious stones					

# State Mining And Prospecting Facilities

## State Mining Facilities

### 1. Mining Licences

SML No	Licensee	Issued	County	Valid To
2	Boliden Tara Mines Ltd.	03.07.1998	Meath	30.11.2023
3	Boliden Tara Mines Ltd.	03.07.1998	Meath	30.11.2023
4	Boliden Tara Mines Ltd.	11.09.2000	Meath	30.11.2023
5	Boliden Tara Mines Ltd.	15.01.2004	Meath	30.11.2023
11	Vedanta Lisheen Mining Ltd., Killoran Lisheen Mining Ltd. & Lisheen Milling Ltd.	08.01.2013	Tipperary	06.10.2027
12	Boliden Tara Mines Ltd.	22.04.2013	Meath	30.06.2021

### 2. Mining Leases

SML No	Lessee	Issued	County	Valid To
17	Joyce's Marble Quarries Ltd.	01.10.1933	Galway	30.09.2032
23	Fleming's Fireclays Ltd.	01.03.1935	Laois	29.02.2032
30	Connemara Marble Products Ltd.	01.11.1937	Galway	31.10.2034
37	Fleming's Fireclays Ltd.	14.11.1940	Laois	13.11.2039
79	Joyce's Marble Quarries Ltd.	01.12.1957	Galway	30.11.2056
139	Irish Gypsum Ltd.	12.11.2002	Monaghan/ Cavan	11.11.2032
140	Vedanta Lisheen Mining Ltd. Killoran Lisheen Mining Ltd. & Lisheen Milling Ltd.	07.10.1997	Tipperary	06.10.2027
144	Boliden Tara Mines Ltd.	01.07.2006	Meath	30.06.2021
146	Boliden Tara Mines Ltd.	01.12.2013	Meath	30.11.2023
147	Boliden Tara Mines Ltd.	01.12.2013	Meath	30.11.2023

Further details concerning the individual State Mining Facilities (minerals, royalties, etc.) are published in the Six Monthly Report to the Oireachtas by the Minister for Communications, Climate Action and Environment in accordance with the Minerals Development Acts, 1940-1999. Six Monthly Reports are available at <http://www.mineralsireland.ie/LegislationFeesAndPolicy/SixMonthlyReports.htm>

## Prospecting Licences Held

All prospecting licences are restricted to certain minerals and hence the PL areas in question are available for application for other minerals (although the current holder is deemed to have a standing Statement of Interest for all these other minerals). The licensed minerals are abbreviated as follows: Base metals (Bm); Barytes (b); Gold (g); Silver (s); Platinum Group Elements (PGE), Rare Earth Elements (REE) Lithium (Li), Beryllium (Be), Caesium (Cs), Niobium (Nb), Rubidium (Rb), Iron (Fe).

There are 576 Licences held on 1<sup>st</sup> May 2019.

PL Area	Licensee	Start Date	County	Minerals
184	Longford Zinc Mining Ltd.	13-04-2018	Longford	Bm, b, s, g, PGE
185	Diversified Asset Holdings Pty. Ltd.	03-09-2014	Longford	Bm, b, s, g, PGE
186	Diversified Asset Holdings Pty. Ltd.	03-09-2014	Longford	Bm, b, s, g, PGE
350	Group Eleven Mining and Exploration Ltd.	12-02-2015	Tipperary	Bm, b, s, g
405	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
449	TILZ Minerals Ltd.	31-01-2005	Limerick	Bm, b, s, g, PGE
450	TILZ Minerals Ltd.	31-01-2005	Limerick	Bm, b, s, g, PGE
468	Group Eleven Mining and Exploration Ltd.	04-11-2016	Tipperary Limerick	Bm, b, s, g
580	Longford Zinc Mining Ltd.	13-04-2018	Longford	Bm, b, s, g, PGE
581	Longford Zinc Mining Ltd.	13-04-2018	Longford	Bm, b, s, g, PGE
622	Ballinalack Resources Ltd.	20-02-2006	Longford	Bm, b, s, g, PGE
626	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
627	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
635	Glencore Zinc Ireland Ltd.	06-12-1996	Limerick	Bm, b, s
636	Glencore Zinc Ireland Ltd.	06-12-1996	Limerick	Bm, b, s
666	Longford Zinc Mining Ltd.	13-04-2018	Longford	Bm, b, s, g, PGE
667	Longford Zinc Mining Ltd.	13-04-2018	Longford	Bm, b, s, g, PGE
735	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
754	Unicorn Mineral Resources Ltd.	28-02-2019	Laois	Bm, b, s
757	Erris Zinc Ltd.	26-08-2013	Sligo	Bm, s, g
786	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
890	Raptor Resources Ltd.	08-05-2017	Offaly	Bm, b, s, g
934	MOAG Copper Gold Resources Inc	31-12-2005	Galway	Bm, s
1022	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
1051	Oldcastle Zinc Ltd.	28-01-2005	Cavan	Bm, b, s, g, PGE
1053	Oldcastle Zinc Ltd.	28-01-2005	Meath	Bm, b, s, g, PGE
1102	Boliden Tara Mines Ltd.	22-06-2018	Galway	Bm, b, s, g
1178	Teck Ireland Ltd.	08-08-2006	Offaly	Bm, b, s, g, PGE
1181	Teck Ireland Ltd.	26-06-2006	W'meath	Bm, b, s, g, PGE

PL Area	Licensee	Start Date	County	Minerals
1185	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1188	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1190	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1191	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1196	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1198	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1199	IMC Exploration Ltd.	09-10-2018	Wexford	Bm, s, g
1200	IMC Exploration Ltd.	09-10-2018	Wexford	Bm, s, g
1228	Minco Ireland Ltd.	03-11-2015	W'meath	Bm, b, s, g
1229	Minco Ireland Ltd.	03-11-2015	W'meath	Bm, b, s, g
1245	Teck Ireland Ltd.	12-02-2012	W'meath	Bm, b, s, g, PGE
1302	Group Eleven Mining and Exploration Ltd.	10-11-2016	Limerick	Bm, b, s, g
1303	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
1316	Teck Ireland Ltd.	26-01-2012	Kildare	Bm, b, s, g, PGE
1317	Teck Ireland Ltd.	26-01-2012	Kildare	Bm, b, s, g, PGE
1318	Teck Ireland Ltd.	26-01-2012	Kildare	Bm, b, s, g, PGE
1319	Teck Ireland Ltd.	12-02-2012	Meath	Bm, b, s, g, PGE
1322	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
1323	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
1324	Boliden Tara Mines Ltd.	16-11-1995	Meath	Bm, b, s
1325	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
1327	Boliden Tara Mines Ltd.	20-04-2011	Meath	Bm, b, s, g
1331	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
1332	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
1333	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
1334	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
1338	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
1339	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
1341	Boliden Tara Mines Ltd.	25-01-2007	Offaly	Bm, b, s, g
1343	Boliden Tara Mines Ltd.	15-11-2006	Offaly	Bm, b, s, g
1344	Ballinalack Resources Ltd.	30-11-2005	W'meath	Bm, b, s, g, PGE
1345	Ballinalack Resources Ltd.	30-11-2005	W'meath	Bm, b, s, g, PGE
1346	Ballinalack Resources Ltd.	30-11-2005	W'meath	Bm, b, s, g, PGE
1349	Teck Ireland Ltd.	12-02-2012	W'meath	Bm, b, s, g, PGE
1362	Boliden Tara Mines Ltd.	22-06-2018	Galway	Bm, b, s, g
1383	Ballinalack Resources Ltd.	20-02-2006	W'meath	Bm, b, s, g, PGE
1384	Ballinalack Resources Ltd.	19-12-2011	W'meath	Bm, b, s, g, PGE
1385	Ballinalack Resources Ltd.	20-02-2006	W'meath	Bm, b, s, g, PGE
1431	Gold Note Minerals Ltd.	21-06-2013	Galway	Bm, s, g
1450	Beal Na Blath Resources Ltd.	10-07-2015	Meath Dublin	Bm, b, s, g, PGE
1469	Omagh Minerals Ltd.	18-03-2014	Leitrim	Bm, b, s, g

PL Area	Licensee	Start Date	County	Minerals
1476	Blackstairs Lithium Ltd.	07-08-2009	Carlow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
1496	Rennicks and Bennett Ltd.	16-08-1971	Meath	Bm, b, s
1500	Teck Ireland Ltd.	24-06-2017	Meath	Bm, b, s, g, PGE
1555	Adventus Zinc Ireland Ltd.	07-11-2016	Waterford	Bm, b, s
1556	Adventus Zinc Ireland Ltd.	07-11-2016	Waterford	Bm, b, s
1562	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
1577	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
1578	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
1583	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
1584	Group Eleven Mining and Exploration Ltd.	10-11-2016	Limerick	Bm, b, s, g
1586	BMEx Pty Ltd.	03-08-2018	Longford	Bm, b, s, g
1587	BMEx Pty Ltd.	03-08-2018	Longford	Bm, b, s, g
1601	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
1604	Teck Ireland Ltd.	30-11-2015	Kildare	Bm, b, s, g, PGE
1624	Boliden Tara Mines Ltd.	04-08-2017	Offaly	Bm, b, s, g
1630	Teck Ireland Ltd.	30-11-2015	Kildare	Bm, b, s, g, PGE
1631	Teck Ireland Ltd.	30-11-2015	Kildare	Bm, b, s, g, PGE
1650	Connemara Mining Co. Ltd.	23-05-2017	Laois	Bm, b, s, g
1652	Vedanta Exploration Ireland Ltd.	20-03-2014	Laois	Bm, b, s, g, Calcite
1653	Vedanta Exploration Ireland Ltd.	20-03-2014	Laois	Bm, b, s, g, Calcite
1660	Erris Zinc Ltd.	26-08-2013	Sligo	Bm, s, g
1672	BMEx Pty Ltd.	16-10-2017	Leitrim	Bm, b, s, g
1675	BMEx Pty Ltd.	16-10-2017	Leitrim	Bm, b, s, g
1700	Boliden Tara Mines Ltd.	03-07-2014	Galway	Bm, b, s, g
1764	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
1788	Boliden Tara Mines Ltd.	03-07-2014	Galway	Bm, b, s, g
1789	Boliden Tara Mines Ltd.	22-06-2018	Galway	Bm, b, s, g
1791	Boliden Tara Mines Ltd.	22-06-2018	Galway	Bm, b, s, g
1796	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
1797	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
1798	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
1800	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
1802	BMEx Pty Ltd.	02-10-2017	Longford	Bm, b, s, g
1803	BMEx Pty Ltd.	02-10-2017	Longford	Bm, b, s, g
1940	Group Eleven Mining and Exploration Ltd.	12-11-2016	Cork	Bm, b, s, g
1942	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
1943	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
1946	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
1947	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
1948	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
1949	Unicorn Mineral Resources Ltd.	29-09-2016	Limerick	Bm, b, s, g

PL Area	Licensee	Start Date	County	Minerals
1952	Unicorn Mineral Resources Ltd.	06-07-2011	Clare	Bm, b, s, g, PGE, Fluorspar
1959	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
1960	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
1966	Adventus Zinc Ireland Ltd.	07-11-2016	Waterford	Bm, b, s
1967	Adventus Zinc Ireland Ltd.	07-11-2016	Waterford	Bm, b, s
1979	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
1991	Oldcastle Zinc Ltd.	28-01-2005	Meath	Bm, b, s, g, PGE
2021	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
2024	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
2029	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
2030	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
2033	Adventus Zinc Ireland Ltd.	11-07-2018	Cork	Bm, b, s, g, PGE
2053	Hendrick Resources (Ireland) Ltd.	13-01-2012	Wexford	Bm, b, s, g, PGE, Cs, Li, Nb
2062	Teck Ireland Ltd.	26-06-2006	Kildare Offaly	Bm, b, s, g, PGE
2063	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
2083	Oriel Selection Trust Ltd.	08-06-2018	Donegal	Bm, b, s, g, PGE, REE, Li
2085	Oriel Selection Trust Ltd.	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Li
2087	Oriel Selection Trust Ltd.	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Li
2097	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
2098	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
2099	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
2105	Beal Na Blath Resources Ltd.	03-07-2015	R'common	Bm, b, s, g, PGE
2115	Oriel Selection Trust Ltd.	25-02-2010	Donegal	Bm, b, s, g, PGE, REE
2194	Conroy Gold Ltd.	15-07-1996	Monaghan	Bm, b, s, g
2236	Hendrick Resources (Ireland) Ltd.	13-01-2012	Wexford	Bm, b, s, g, PGE, Cs, Li, Nb
2237	Hendrick Resources (Ireland) Ltd.	13-01-2012	Wexford	Bm, b, s, g, PGE, Cs, Li, Nb
2260	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
2280	Great Glen Resources Ltd.	07-01-2019	Cork	Bm, b, s, g
2295	Gold Note Minerals Ltd.	21-06-2013	Galway	Bm, s, g
2331	BMEEx Pty Ltd.	02-10-2017	Cork	Bm, b, s, g
2394	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2395	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2416	Great Glen Resources Ltd.	20-12-2018	Monaghan	Bm, b, s, g
2442	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
2447	Unicorn Mineral Resources Ltd.	28-02-2019	Tipperary	Bm, b, s
2522	Boliden Tara Mines Ltd.	15-11-2006	Offaly Laois	Bm, b, s, g

PL Area	Licensee	Start Date	County	Minerals
2523	Beal Na Blath Resources Ltd.	27-11-2018	R'common	Bm, b, s, g, PGE, Mo
2529	Glencore Zinc Ireland Ltd.	06-12-1996	Limerick	Bm, b, s
2530	Glencore Zinc Ireland Ltd.	13-11-1995	Limerick	Bm, b, s
2531	TILZ Minerals Ltd.	28-04-2006	Limerick	Bm, b, s, g, PGE
2537	Boliden Tara Mines Ltd.	15-11-2006	Offaly	Bm, b, s, g
2538	Boliden Tara Mines Ltd.	15-11-2006	Offaly	Bm, b, s, g
2539	Teck Ireland Ltd.	08-08-2006	Offaly	Bm, b, s, g, PGE
2540	Teck Ireland Ltd.	08-08-2006	Meath	Bm, b, s, g, PGE
2551	IMC Exploration Ltd.	12-05-2011	Wexford	Bm, b, s, g
2552	Hendrick Resources (Ireland) Ltd.	13-01-2012	Wexford	Bm, b, s, g, PGE, Cs, Li, Nb
2554	Connemara Mining Co. Ltd.	16-04-2008	Wexford	Bm, b, s, g, PGE, Cs, Li
2558	Connemara Mining Co. Ltd.	16-04-2008	Wicklow	Bm, b, s, g, PGE, Cs, Li
2560	Group Eleven Mining and Exploration Ltd.	18-01-2017	Offaly	Bm, b, s, g
2564	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
2567	Group Eleven Mining and Exploration Ltd.	18-01-2017	Tipperary	Bm, b, s, g
2568	Group Eleven Mining and Exploration Ltd.	18-01-2017	Tipperary	Bm, b, s, g
2579	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
2590	Hannan Metals Ireland Ltd.	31-08-2017	Clare	Bm, b, s, g
2594	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
2597	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
2625	Connemara Mining Co. Ltd.	23-05-2017	Laois	Bm, b, s, g
2637	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
2638	TILZ Minerals Ltd.	31-01-2005	Limerick	Bm, b, s, g, PGE
2645	Irish Resource Exploration Ltd.	29-06-2012	Mayo	S, g
2654	Group Eleven Mining and Exploration Ltd.	30-09-2016	Tipperary	Bm, b, s, g
2655	Group Eleven Mining and Exploration Ltd.	30-09-2016	Tipperary	Bm, b, s, g
2664	BMEx Pty Ltd.	03-08-2018	Longford	Bm, b, s, g
2674	Boliden Tara Mines Ltd.	25-01-2007	W'meath	Bm, b, s, g
2678	Great Glen Resources Ltd.	20-12-2018	Monaghan	Bm, b, s, g
2679	Great Glen Resources Ltd.	20-12-2018	Monaghan	Bm, b, s, g
2680	Great Glen Resources Ltd.	20-12-2018	Monaghan	Bm, b, s, g
2681	Great Glen Resources Ltd.	20-12-2018	Monaghan	Bm, b, s, g
2682	Great Glen Resources Ltd.	20-12-2018	Monaghan	Bm, b, s, g
2696	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
2702	Beal Na Blath Resources Ltd.	27-11-2018	Offaly	Bm, b, s, g, PGE
2710	Teck Ireland Ltd.	26-01-2012	Dublin	Bm, b, s, g, PGE
2732	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2752	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
2756	Group Eleven Mining and Exploration Ltd.	29-09-2016	Limerick	Bm, b, s, g
2775	Ballinalack Resources Ltd.	19-12-2011	Longford	Bm, b, s, g, PGE

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2776	BMEEx Pty Ltd.	03-08-2018	Leitrim	Bm, b, s, g
2777	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
2778	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
2779	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
2780	BMEEx Pty Ltd.	03-08-2018	Longford	Bm, b, s, g
2781	Centenary Resources Ltd.	10-04-2017	Offaly	Bm, b, s, g
2782	Centenary Resources Ltd.	10-04-2017	Offaly	Bm, b, s, g
2812	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2813	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2814	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2815	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
2835	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
2836	Beal Na Blath Resources Ltd.	10-07-2015	Meath	Bm, b, s, g, PGE
2840	Group Eleven Mining and Exploration Ltd.	30-09-2016	Limerick Tipperary	Bm, b, s, g
2845	Group Eleven Mining and Exploration Ltd.	10-11-2016	Limerick	Bm, b, s, g
2860	Unicorn Mineral Resources Ltd.	04-07-2011	Offaly	Bm, b, s, g, PGE, Fluorspar
2861	Centenary Resources Ltd.	10-04-2017	Offaly	Bm, b, s, g
2872	Diversified Asset Holdings Pty. Ltd.	19-03-2014	Limerick	Bm, b, s, g, PGE,
2881	BMEEx Pty Ltd.	16-10-2017	Leitrim	Bm, b, s, g
2882	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
2883	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
2884	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
2885	Boliden Tara Mines Ltd.	22-06-2018	Galway	Bm, b, s, g
2886	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
2888	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
2889	Boliden Tara Mines Ltd.	22-06-2018	Galway	Bm, b, s, g
2895	Unicorn Mineral Resources Ltd.	16-02-2016	Clare	Bm, b, s, g, PGE
2927	TILZ Minerals Ltd.	31-01-2005	Limerick	Bm, b, s, g, PGE
2933	Adventus Zinc Ireland Ltd.	11-07-2018	Kerry	Bm, b, s, g, PGE
2934	Adventus Zinc Ireland Ltd.	11-07-2018	Kerry	Bm, b, s, g, PGE
2946	Adventus Exploration Ltd.	24-01-2014	Cork	Bm, b, s, g
2947	Adventus Exploration Ltd.	24-01-2014	Cork	Bm, b, s, g
2948	Adventus Exploration Ltd.	24-01-2014	Cork	Bm, b, s, g
2949	Adventus Exploration Ltd.	28-11-2013	Cork	Bm, b, s, g
2954	Adventus Zinc Ireland Ltd.	11-07-2018	Kerry	Bm, b, s, g, PGE
2964	Challenge Exploration Ltd.	08-04-2019	Donegal	Diamond, Gemstones including semi- precious stones
2981	Beal Na Blath Resources Ltd.	27-11-2018	R'common	Bm, b, s, g, PGE, Mo
2982	Beal Na Blath Resources Ltd.	27-11-2018	R'common	Bm, b, s, g, PGE, Mo
3012	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g



PL Area	Licensee	Start Date	County	Minerals
3013	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
3014	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
3028	Conroy Gold and Natural Resources Plc	15-07-1996	Monaghan	Bm, b, s, g
3030	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3035	Oriel Selection Trust Ltd.	08-06-2018	Donegal	Bm, b, s, g, PGE, REE, Li
3039	Omagh Minerals Ltd.	30-03-2012	Donegal	Bm, b, s, g
3040	Omagh Minerals Ltd.	30-03-2012	Donegal	Bm, b, s, g
3047	Adventus Exploration Ltd.	27-10-2016	Cork	Bm, b, s, g
3062	Challenge Exploration Ltd.	08-04-2019	Donegal	Diamond, Gemstones including semi-precious stones
3065	Conroy Gold and Natural Resources Plc	28-02-2017	Monaghan	Bm, b, s, g
3066	Conroy Gold and Natural Resources Plc	16-07-2012	Monaghan	Bm, b, s, g
3076	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
3077	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
3112	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3128	BMEEx Pty Ltd.	16-10-2017	Donegal	Bm, b, s, g
3130	Conroy Gold and Natural Resources Plc	27-11-1996	Cavan	Bm, b, s, g
3132	BMEEx Pty Ltd.	16-10-2017	Donegal	Bm, b, s, g
3133	BMEEx Pty Ltd.	16-10-2017	Donegal	Bm, b, s, g
3134	BMEEx Pty Ltd.	16-10-2017	Donegal	Bm, b, s, g
3135	Omagh Minerals Ltd.	31-05-2013	Donegal	Bm, b, s, g
3136	BMEEx Pty Ltd.	16-10-2017	Donegal	Bm, b, s, g
3145	Gold Note Minerals Ltd.	21-06-2013	Galway	Bm, s, g
3156	Group Eleven Mining and Exploration Ltd.	29-09-2016	Tipperary	Bm, b, s, g
3158	Connemara Mining Co. Ltd.	23-05-2017	Laois	Bm, b, s, g
3160	Connemara Mining Co. Ltd.	23-05-2017	Laois	Bm, b, s, g
3162	Omagh Minerals Ltd.	18-03-2014	Leitrim	Bm, b, s, g
3163	Beal Na Blath Resources Ltd.	03-07-2015	R'common	Bm, b, s, g, PGE
3169	Irish Resource Exploration Ltd.	04-07-2011	Galway	Bm, b, s, g
3170	Irish Resource Exploration Ltd.	29-06-2012	Galway	S, g
3185	Great Glen Resources Ltd.	20-12-2018	Tipperary	Bm, b, s, g
3205	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
3206	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
3207	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
3208	Unicorn Mineral Resources Ltd.	20-03-2015	Waterford	Bm, b, s, g, PGE
3219	Beal Na Blath Resources Ltd.	27-11-2018	Dublin	Bm, b, s, g, PGE
3220	Beal Na Blath Resources Ltd.	27-11-2018	Dublin	Bm, b, s, g, PGE
3228	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
3229	Adventus Exploration Ltd.	28-11-2013	Cork	Bm, b, s, g
3230	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g

PL Area	Licensee	Start Date	County	Minerals
3232	Boliden Tara Mines Ltd.	04-08-2017	W'meath	Bm, b, s, g
3234	Omagh Minerals Ltd.	31-05-2013	Donegal	Bm, b, s, g
3235	Omagh Minerals Ltd.	30-03-2012	Donegal	Bm, b, s, g
3236	Oriel Selection Trust Ltd.	08-06-2018	Donegal	Bm, b, s, g, PGE, REE, Li
3237	Diversified Asset Holdings Pty. Ltd.	15-07-2015	Wexford	Bm, b, s, g, PGE, Fe
3246	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
3249	Unicorn Mineral Resources Ltd.	29-09-2016	Limerick	Bm, b, s, g
3263	Connemara Mining Co. Ltd.	23-05-2017	Laois	Bm, b, s, g
3267	Group Eleven Mining and Exploration Ltd.	12-11-2016	Limerick	Bm, b, s, g
3268	Glencore Zinc Ireland Ltd.	08-11-1991	Limerick	Bm, b, s
3273	Group Eleven Mining and Exploration Ltd.	18-01-2017	Offaly	Bm, b, s, g
3281	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
3282	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3285	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3293	Adventus Zinc Ireland Ltd.	26-06-2018	Limerick	Bm, b, s, g, PGE
3294	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3295	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
3312	Vedanta Exploration Ireland Ltd.	30-06-2014	Laois	Bm, b, s, g, Calcite
3318	Centenary Resources Ltd.	10-04-2017	Tipperary	Bm, b, s, g
3321	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
3324	Boliden Tara Mines Ltd.	16-12-2005	W'meath	Bm, b, s, g
3329	Teck Ireland Ltd.	26-01-2012	Kildare	Bm, b, s, g, PGE
3331	Teck Ireland Ltd.	30-11-2015	Kildare	Bm, b, s, g, PGE
3335	Trove Metal Ltd.	22-01-2018	Wicklow	Bm, b, s, g, REE
3338	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
3342	Glencore Zinc Ireland Ltd.	21-05-1999	Limerick	Bm, b, s
3344	Glencore Zinc Ireland Ltd.	25-05-1999	Limerick	Bm, b, s
3346	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
3365	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
3366	Group Eleven Mining and Exploration Ltd.	10-11-2016	Limerick	Bm, b, s, g
3367	TILZ Minerals Ltd.	31-01-2005	Limerick	Bm, b, s, g, PGE
3368	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
3369	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
3370	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
3373	Boliden Tara Mines Ltd.	01-03-1993	Meath	Bm, b, s
3374	Teck Ireland Ltd.	08-08-2006	Kildare	Bm, b, s, g, PGE
3380	Bowpark Exploration Ireland Ltd.	10-09-2010	Sligo	Bm, b, s, g
3381	Bowpark Exploration Ireland Ltd.	10-09-2010	Sligo	Bm, b, s, g
3382	Bowpark Exploration Ireland Ltd.	10-09-2010	Sligo	Bm, b, s, g
3400	Conroy Gold and Natural Resources Plc	27-11-1996	Cavan	Bm, b, s, g
3404	Hannan Metals Ireland Ltd.	02-08-2018	Kilkenny	Bm, b, s

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3407	Blackstairs Lithium Ltd.	07-08-2009	Carlow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3411	Blackstairs Lithium Ltd.	07-08-2009	Carlow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3425	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
3426	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3431	Glencore Zinc Ireland Ltd.	30-05-2005	Limerick	Bm, b, s, PGE
3432	Centenary Resources Ltd.	10-04-2017	Offaly	Bm, b, s, g
3459	Beal Na Blath Resources Ltd.	03-07-2015	Galway	Bm, b, s, g, PGE
3465	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
3466	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
3469	Conroy Gold and Natural Resources Plc	28-02-2017	Monaghan	Bm, b, s, g
3470	Boliden Tara Mines Ltd.	27-11-2006	Galway	Bm, b, s, g
3471	Boliden Tara Mines Ltd.	27-11-2006	Galway	Bm, b, s, g
3475	Group Eleven Mining and Exploration Ltd.	18-01-2017	Tipperary Offaly	Bm, b, s, g
3476	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
3477	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
3479	Unicorn Mineral Resources Ltd.	06-07-2011	Galway	Bm, b, s, g, PGE, Fluorspar
3488	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
3489	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
3492	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3493	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3494	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3495	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3496	Connemara Mining Co. Ltd.	08-12-2016	Donegal	Bm, s, g
3500	Conroy Gold and Natural Resources Plc	14-05-2012	Clare	Bm, b, s, g
3504	Conroy Gold and Natural Resources Plc	19-11-2011	Clare	Bm, b, s, g
3508	Hannan Metals Ireland Ltd.	17-04-2017	Clare	Bm, b, s, g, Calcite
3509	Hannan Metals Ireland Ltd.	20-08-2012	Clare	Bm, b, s
3518	Unicorn Mineral Resources Ltd.	06-03-2015	Waterford	Bm, b, s, g, PGE
3519	Unicorn Mineral Resources Ltd.	05-04-2017	Waterford	Bm, b, s, g
3544	Group Eleven Mining and Exploration Ltd.	29-09-2016	Limerick	Bm, b, s, g
3545	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
3552	Group Eleven Mining and Exploration Ltd.	04-11-2016	Tipperary	Bm, b, s, g
3555	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3556	Group Eleven Mining and Exploration Ltd.	14-12-2015	Kerry	Bm, b, s, g
3575	Teck Ireland Ltd.	26-06-2006	W'meach	Bm, b, s, g, PGE
3576	Teck Ireland Ltd.	26-06-2006	W'meach	Bm, b, s, g, PGE
3578	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
3579	Adventus Zinc Ireland Ltd.	05-06-2017	Monaghan Cavan	Bm, b, s, g
3581	Group Eleven Mining and Exploration Ltd.	29-09-2016	Limerick	Bm, b, s, g

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3582	Unicorn Mineral Resources Ltd.	29-09-2016	Limerick	Bm, b, s, g
3586	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
3587	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
3589	Boliden Tara Mines Ltd.	04-08-2017	W'meath	Bm, b, s, g
3604	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3605	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
3606	Trove Metal Ltd.	22-01-2018	Wicklow	Bm, b, s, g, REE
3608	Group Eleven Mining and Exploration Ltd.	29-09-2016	Limerick	Bm, b, s, g
3609	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
3611	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE
3613	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3614	Teck Ireland Ltd.	26-01-2012	Kildare	Bm, b, s, g, PGE
3615	Viridian Metals Ireland Ltd.	28-05-2012	Galway	Bm, b, s, g, Dolomite and Dolomitic Limestone, Mn, Silica Sand
3619	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3622	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
3633	BMEEx Pty Ltd.	03-08-2018	Longford	Bm, b, s, g
3634	Longford Zinc Mining Ltd.	13-04-2018	Longford	Bm, b, s, g, PGE
3636	Teck Ireland Ltd.	08-08-2006	Meath	Bm, b, s, g, PGE
3638	Boliden Tara Mines Ltd.	16-12-2005	W'meath	Bm, b, s, g
3640	Hannan Metals Ireland Ltd.	14-07-2008	Clare	Bm, b, s
3641	Unicorn Mineral Resources Ltd.	26-02-2018	Clare	Bm, b, s, g, PGE
3642	Hannan Metals Ireland Ltd.	17-04-2017	Clare	Bm, b, s, g, Calcite
3643	Hannan Metals Ireland Ltd.	25-05-1999	Clare	Bm, b, s
3647	Glencore Zinc Ireland Ltd.	08-11-1991	Tipperary Limerick	Bm, b, s
3650	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
3651	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
3652	Boliden Tara Mines Ltd.	04-08-2017	W'meath Offaly	Bm, b, s, g
3654	Group Eleven Mining and Exploration Ltd.	29-09-2016	Limerick	Bm, b, s, g
3655	Ballinalack Resources Ltd.	19-12-2011	W'meath	Bm, b, s, g, PGE
3658	Teck Ireland Ltd.	12-02-2012	W'meath	Bm, b, s, g, PGE
3659	Teck Ireland Ltd.	12-02-2012	W'meath	Bm, b, s, g, PGE
3660	Teck Ireland Ltd.	12-02-2012	Meath	Bm, b, s, g, PGE
3664	Teck Ireland Ltd.	07-10-2008	Dublin	Bm, b, s, g
3665	Teck Ireland Ltd.	07-10-2008	Dublin	Bm, b, s, g
3668	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3670	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3676	Hendrick Resources (Ireland) Ltd.	13-01-2012	Wicklow	Bm, b, s, g, PGE, Cs, Li, Nb

PL Area	Licensee	Start Date	County	Minerals
3677	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3678	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
3679	Hannan Metals Ireland Ltd.	19-12-2005	Clare	Bm, b, s, g
3681	Boliden Tara Mines Ltd.	07-07-2012	Galway	Bm, b, s, g
3706	Great Glen Resources Ltd.	20-12-2018	Tipperary	Bm, b, s, g
3713	Adventus Zinc Ireland Ltd.	07-11-2016	Waterford	Bm, b, s
3715	Adventus Zinc Ireland Ltd.	07-11-2016	Waterford	Bm, b, s
3716	Great Glen Resources Ltd.	07-01-2019	Cork	Bm, b, s, g
3717	Great Glen Resources Ltd.	07-01-2019	Cork	Bm, b, s, g
3718	Great Glen Resources Ltd.	07-01-2019	Cork	Bm, b, s, g
3719	Great Glen Resources Ltd.	07-01-2019	Waterford	Bm, b, s, g
3727	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
3729	IMC Exploration Ltd.	20-04-2011	Clare	Bm, b, s
3730	Adventus Exploration Ltd.	24-01-2014	Louth	Bm, b, s, g, Gypsum
3731	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
3732	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
3733	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3735	Erris Zinc Ltd.	26-08-2013	Sligo	Bm, s, g
3737	Hannan Metals Ireland Ltd.	02-08-2018	Kilkenny	Bm, b, s
3738	Hannan Metals Ireland Ltd.	02-08-2018	Kilkenny	Bm, b, s
3739	Hannan Metals Ireland Ltd.	02-08-2018	Kilkenny	Bm, b, s
3740	Hannan Metals Ireland Ltd.	02-08-2018	Kilkenny	Bm, b, s
3755	Boliden Tara Mines Ltd.	07-07-2012	Galway	Bm, b, s, g
3771	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
3772	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
3774	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
3782	Group Eleven Mining and Exploration Ltd.	04-11-2016	Tipperary	Bm, b, s, g
3783	Group Eleven Mining and Exploration Ltd.	18-12-2015	Kerry	Bm, b, s, g
3785	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
3786	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
3787	Hannan Metals Ireland Ltd.	08-06-1994	Clare	Bm, b, s
3788	Hannan Metals Ireland Ltd.	08-06-1994	Clare	Bm, b, s, Calcite, Fluorite
3789	Hannan Metals Ireland Ltd.	08-06-1994	Clare	Bm, b, s
3794	Irish Marine Oil Ltd.	05-06-2018	Kildare	G
3799	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3801	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
3818	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
3819	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
3820	Connemara Mining Co. Ltd.	10-04-2015	Donegal	Bm, s, g
3822	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
3824	Aurum Mineral Resources Ltd.	27-05-2004	Limerick	Bm, b, s, g

PL Area	Licensee	Start Date	County	Minerals
3825	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
3839	Teck Ireland Ltd.	12-02-2012	Meath	Bm, b, s, g, PGE
3846	Raptor Resources Ltd.	21-09-2015	Kildare	Bm, b, s, g, PGE
3849	IMC Exploration Ltd.	07-02-2013	Wicklow	Bm, b, s, g
3850	IMC Exploration Ltd.	07-02-2013	Wicklow	Bm, b, s, g
3851	Boliden Tara Mines Ltd.	30-04-2001	Meath	Bm, b, s
3852	Boliden Tara Mines Ltd.	16-12-2005	Meath	Bm, b, s, g
3857	IMC Exploration Ltd.	12-05-2011	Wicklow Wexford	Bm, b, s, g
3858	Group Eleven Mining and Exploration Ltd.	28-11-2016	Limerick	Bm, b, s, g
3863	Unicorn Mineral Resources Ltd.	16-02-2016	Clare	Bm, b, s, g, PGE
3864	Blackstairs Lithium Ltd.	07-08-2009	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3866	Raptor Resources Ltd.	21-09-2015	Kildare	Bm, b, s, g, PGE
3878	Group Eleven Mining and Exploration Ltd.	27-03-2017	Tipperary	Bm, b, s, g
3887	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
3888	BMEx Pty Ltd.	03-08-2018	Leitrim	Bm, b, s, g
3889	BMEx Pty Ltd.	03-08-2018	Leitrim	Bm, b, s, g
3890	BMEx Pty Ltd.	03-08-2018	Leitrim	Bm, b, s, g
3891	Dan Morrissey (Ireland) Ltd.	27-09-1999	Laois	Coal, Fireclay
3893	Blackstairs Lithium Ltd.	07-08-2009	Carlow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3894	Blackstairs Lithium Ltd.	07-08-2009	Carlow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
3899	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3901	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
3902	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
3907	Group Eleven Mining and Exploration Ltd.	18-01-2017	Offaly	Bm, b, s, g
3908	Glencore Zinc Ireland Ltd.	17-07-2001	Limerick	Bm, b, s
3920	Boliden Tara Mines Ltd.	04-08-2017	Offaly	Bm, b, s, g
3923	Adventus Zinc Ireland Ltd.	22-09-2016	Limerick	Bm, b, s, g
3925	Oldcastle Zinc Ltd.	28-01-2005	Meath	Bm, b, s, g, PGE
3926	Oldcastle Zinc Ltd.	28-01-2005	Meath	Bm, b, s, g, PGE
3929	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
3930	Beal Na Blath Resources Ltd.	17-12-2018	Mayo	Bm, b, s, g, PGE, Mo
3931	Dan Morrissey (Ireland) Ltd.	27-04-2005	Laois Carlow	Coal, Fireclay
3932	Boliden Tara Mines Ltd.	16-12-2005	W'meath	Bm, b, s, g
3936	Ballinalack Resources Ltd.	20-02-2006	W'meath	Bm, b, s, g, PGE
3937	Teck Ireland Ltd.	26-06-2006	W'meath	Bm, b, s, g, PGE
3938	Teck Ireland Ltd.	26-06-2006	Meath	Bm, b, s, g, PGE
3939	Teck Ireland Ltd.	26-06-2006	Meath	Bm, b, s, g, PGE
3940	Boliden Tara Mines Ltd.	25-01-2007	Offaly	Bm, b, s, g
3941	Boliden Tara Mines Ltd.	25-01-2007	Offaly	Bm, b, s, g

PL Area	Licensee	Start Date	County	Minerals
3942	Boliden Tara Mines Ltd.	15-11-2006	Offaly	Bm, b, s, g
3943	Boliden Tara Mines Ltd.	25-01-2007	Offaly	Bm, b, s, g
3944	Boliden Tara Mines Ltd.	25-01-2007	W'meath	Bm, b, s, g
3945	Boliden Tara Mines Ltd.	25-01-2007	W'meath	Bm, b, s, g
3946	Boliden Tara Mines Ltd.	25-01-2007	Offaly W'meath	Bm, b, s, g
3947	Boliden Tara Mines Ltd.	25-01-2007	W'meath	Bm, b, s, g
3948	Boliden Tara Mines Ltd.	25-01-2007	W'meath	Bm, b, s, g
3953	Group Eleven Mining and Exploration Ltd.	29-09-2016	Tipperary	Bm, b, s, g
3954	Group Eleven Mining and Exploration Ltd.	29-09-2016	Tipperary	Bm, b, s, g
3955	Group Eleven Mining and Exploration Ltd.	29-09-2016	Tipperary	Bm, b, s, g
3956	Boliden Tara Mines Ltd.	25-01-2007	Offaly W'meath	Bm, b, s, g
3963	Unicorn Mineral Resources Ltd.	08-08-2012	Galway	Bm, b, s, g, PGE, Fluorspar
3967	Erris Zinc Ltd.	26-08-2013	Sligo	Bm, s, g
3980	Group Eleven Mining and Exploration Ltd.	18-01-2017	Offaly	Bm, b, s, g
3981	Minco Ireland Ltd.	03-11-2015	Westmeath	Bm, b, s, g
3989	Boliden Tara Mines Ltd.	08-07-2015	Meath	Bm, b, s, g
3990	Boliden Tara Mines Ltd.	20-04-2011	Meath	Bm, b, s, g
3991	Teck Ireland Ltd.	07-10-2008	Meath	Bm, b, s, g
3992	Teck Ireland Ltd.	07-10-2008	Dublin	Bm, b, s, g
3994	Group Eleven Mining and Exploration Ltd.	10-11-2016	Limerick	Bm, b, s, g
3995	Boliden Tara Mines Ltd.	22-02-2010	Offaly	Bm, b, s, g
4003	Oriel Selection Trust Ltd.	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Li
4004	Oriel Selection Trust Ltd.	25-02-2010	Donegal	Bm, b, s, g, PGE, REE
4031	Blackstairs Lithium Ltd.	07-08-2009	Carlow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4032	Blackstairs Lithium Ltd.	07-08-2009	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4034	Omagh Minerals Ltd.	31-05-2013	Donegal	Bm, b, s, g
4035	Centenary Resources Ltd.	10-04-2017	Tipperary	Bm, b, s, g
4038	Erris Zinc Ltd.	30-09-2013	Sligo	Bm, b, s, g
4041	Vedanta Exploration Ireland Ltd.	23-07-2015	Laois	Bm, b, s, g
4042	Vedanta Exploration Ireland Ltd.	23-07-2015	Laois	Bm, b, s, g
4043	Vedanta Exploration Ireland Ltd.	09-03-2015	Laois	Bm, b, s, g
4044	Hannan Metals Ireland Ltd.	02-08-2018	Laois Kilkenny	Bm, b, s
4045	Boliden Tara Mines Ltd.	06-02-2011	Offaly	Bm, b, s, g
4050	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
4051	Boliden Tara Mines Ltd.	20-04-2011	Meath	Bm, b, s, g
4052	Teck Ireland Ltd.	26-01-2012	Meath	Bm, b, s, g, PGE

PL Area	Licensee	Start Date	County	Minerals
4053	Connemara Mining Co. Ltd.	07-07-2011	Wexford	Bm, b, s, g, PGE, Cs, Li, Nb
4055	Hannan Metals Ireland Ltd.	02-08-2018	Tipperary	Bm, b, s
4056	Unicorn Mineral Resources Ltd.	28-02-2019	Tipperary	Bm, b, s
4057	Unicorn Mineral Resources Ltd.	04-07-2011	Offaly	Bm, b, s, g, PGE, Fluorspar
4068	Teck Ireland Ltd.	30-11-2015	Kildare	Bm, b, s, g, PGE
4069	Raptor Resources Ltd.	21-09-2015	Kildare	Bm, b, s, g, PGE
4070	Raptor Resources Ltd.	21-09-2015	Kildare	Bm, b, s, g, PGE
4072	Raptor Resources Ltd.	21-09-2015	Kildare	Bm, b, s, g, PGE
4073	Raptor Resources Ltd.	21-09-2015	Kildare	Bm, b, s, g, PGE
4075	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
4076	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
4077	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
4078	Adventus Exploration Ltd.	01-07-2013	Cork	Bm, b, s, g
4081	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
4092	Boliden Tara Mines Ltd.	20-03-2012	Meath	Bm, b, s, g
4095	Unicorn Mineral Resources Ltd.	24-05-2012	Clare	Bm, b, s, g, PGE, Fluorspar
4098	Conroy Gold and Natural Resources Plc	16-07-2012	Cavan	Bm, b, s, g
4099	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
4100	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
4101	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
4102	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
4103	Adventus Exploration Ltd.	27-06-2013	Cork	Bm, b, s, g
4104	Adventus Exploration Ltd.	30-06-2013	Cork	Bm, b, s, g
4132	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
4133	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
4135	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
4136	Adventus Zinc Ireland Ltd.	26-06-2018	Cork	Bm, b, s, g, PGE
4236	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
4257	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
4272	Erris Zinc Ltd.	30-08-2018	Galway	Bm, b, s, g
4469	Erris Zinc Ltd.	26-08-2013	Sligo	Bm, s, g
4473	Ballinalack Resources Ltd.	15-04-2013	W'meath	Bm, b, s, g, PGE
4477	Boliden Tara Mines Ltd.	28-06-2013	Meath	Bm, b, s, g
4478	Boliden Tara Mines Ltd.	28-06-2013	Meath	Bm, b, s, g
4479	Boliden Tara Mines Ltd.	28-06-2013	Meath	Bm, b, s, g
4484	Adventus Exploration Ltd.	24-01-2014	Monaghan	Bm, b, s, g, Gypsum
4485	Adventus Exploration Ltd.	05-02-2014	Monaghan	Bm, b, s, g, Gypsum
4486	Adventus Exploration Ltd.	24-01-2014	Louth	Bm, b, s, g, Gypsum
4491	Boliden Tara Mines Ltd.	19-04-2002	Meath	Bm, b, s
4498	Group Eleven Mining and Exploration Ltd.	12-02-2015	Tipperary	Bm, b, s, g



PL Area	Licensee	Start Date	County	Minerals
4499	Oriel Selection Trust Ltd.	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Li
4500	Oriel Selection Trust Ltd.	29-05-2015	Donegal	Bm, b, s, g, PGE, REE
4502	Boliden Tara Mines Ltd.	26-10-1970	Meath	Bm, b, s, g
4503	Group Eleven Mining and Exploration Ltd.	29-09-2016	Tipperary	Bm, b, s, g
4504	Connemara Mining Co. Ltd.	05-12-2016	Cork	Bm, b, s, g
4505	Connemara Mining Co. Ltd.	05-12-2016	Cork	Bm, b, s, g
4506	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
4507	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
4508	Adventus Zinc Ireland Ltd.	16-06-2017	Cork	Bm, b, s, g
4509	Centenary Resources Ltd.	10-04-2017	Offaly	Bm, b, s, g
4510	Centenary Resources Ltd.	10-04-2017	Tipperary	Bm, b, s, g
4513	Shanoon Resources Ltd.	13-07-2017	Kilkenny Laois	Bm, b, s, Dolomite and Dolomitic Limestone
4514	Shanoon Resources Ltd.	13-07-2017	Kilkenny	Bm, b, s, Dolomite and Dolomitic Limestone
4515	Shanoon Resources Ltd.	13-07-2017	Kilkenny	Bm, b, s, Dolomite and Dolomitic Limestone
4516	BMEEx Pty Ltd.	02-10-2017	Cork	Bm, b, s, g
4518	Adventus Zinc Ireland Ltd.	11-07-2018		Bm, b, s, g, PGE
4520	Connemara Granite Teo	05-07-2018	Galway	Bm, b, Be, Fluorspar, Gemstones including semi-precious stones
4525	Adventus Zinc Ireland Ltd.	11-07-2018		Bm, b, s, g, PGE
4526	Adventus Zinc Ireland Ltd.	11-07-2018		Bm, b, s, g, PGE
4527	Adventus Zinc Ireland Ltd.	11-07-2018	Kerry	Bm, b, s, g, PGE
4528	Adventus Zinc Ireland Ltd.	11-07-2018	Kerry	Bm, b, s, g, PGE
4529	Adventus Zinc Ireland Ltd.	11-07-2018	Kerry	Bm, b, s, g, PGE
4530	Adventus Zinc Ireland Ltd.	11-07-2018		Bm, b, s, g, PGE
4534	Erris Zinc Ltd.	17-08-2018	Galway	Bm, b, s, g
4536	LRH Resources Ltd.	23-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4537	LRH Resources Ltd.	23-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4538	LRH Resources Ltd.	23-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4539	LRH Resources Ltd.	23-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4540	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb

PL Area	Licensee	Start Date	County	Minerals
4541	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4542	LRH Resources Ltd.	23-10-2018	Dublin Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4543	LRH Resources Ltd.	23-10-2018	Dublin Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4544	LRH Resources Ltd.	23-10-2018	Dublin	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4545	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4546	LRH Resources Ltd.	12-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
4547	LRH Resources Ltd.	23-10-2018	Wicklow	Bm, s, g, REE, Be, Cs, Li, Nb, Rb
1174R	Adventus Exploration Ltd.	24-01-2014	Meath	Bm, b, s, g, Gypsum
1440R	Westland Exploration Ltd.	23-10-1972	Meath	Bm, b, s

## Prospecting Licences Granted Since 1<sup>st</sup> February 2019

PL Area	Licensee	Start	County	Minerals
754	Unicorn Mineral Resources Ltd.	28-02-2019	Laois	Bm, b, s
1185	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1188	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1190	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1191	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1196	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
1198	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
2447	Unicorn Mineral Resources Ltd.	28-02-2019	Tipperary	Bm, b, s
2964	Challenge Exploration Ltd.	08-04-2019	Donegal	Diamond, Gemstones including semi-precious stones
3062	Challenge Exploration Ltd.	08-04-2019	Donegal	Diamond, Gemstones including semi-precious stones
3426	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3465	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
3466	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
3668	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3670	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3677	Group Eleven Mining and Exploration Ltd.	28-02-2019	Tipperary	Bm, b, s
3822	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g
4056	Unicorn Mineral Resources Ltd.	28-02-2019	Tipperary	Bm, b, s
4081	Minerex Ltd.	03-04-2019	Wexford	Bm, s, g

## Prospecting Licences Accepted and Advertised

PL Area	Applicant	County	Minerals
743	Tullyduff Explorations	Mayo	Bm, b, s, Calcite

## Ireland: Exploration and Mining News 1<sup>st</sup> May 2019

### MINING HIGHLIGHTS

#### **Mine Operations**

There are currently two operating mines in Ireland (Figure 1): Navan (zinc-lead) and Drummond/Knocknacran (gypsum). The underground zinc-lead mines at Lisheen (Co. Tipperary) and Galmoy (Co. Kilkenny) ceased production in December 2015 and October 2012 respectively.

#### **2018 Mine Production**

- Zinc metal in concentrates: 132kt
- Lead metal in concentrates: 17kt

#### **2018 Mine Output (Metal Content)**

##### *(a) Zinc*

- Ireland produced 12.1% of European zinc mine output (3<sup>rd</sup> in Europe)
- Ireland produced 1.0% of World zinc mine output (15<sup>th</sup> in World)

##### *(b) Lead*

- Ireland produced 3.8% of European lead mine output (7<sup>th</sup> in Europe)
- Ireland produced 0.36% of World lead mine output (24<sup>th</sup> in World)

Source of Production Data: International Lead & Zinc Study Group

## Development

In 2018, Ireland's zinc-lead production accounted for approximately 12% of European zinc mine output (18.5% of EU28 production) and 4% of European lead mine output (9.5% of EU28 production). These figures equate to 1% of world mine production for zinc and 0.36% for lead. According to data published by the International Lead and Zinc Study Group, in 2018, Ireland ranked 15<sup>th</sup> and 24<sup>th</sup> in the world in relation to zinc and lead mine output respectively. Ireland is no longer placed first in terms of European mine production for zinc; Ireland currently places third in Europe, behind the Russian Federation and Sweden.

**Boliden Tara Mines'** underground operation at **Navan**, Co. Meath, is the largest zinc mine in Europe. In 2018, Tara milled 2.2Mt of ore grading 6.28% Zn and 1.20% Pb. Since mining operations commenced in 1977, up until 31 December 2018, total

production at Navan has amounted to 94.76Mt grading 7.61% Zn and 1.74% Pb. At the end of 2018, the mine's PERC classified ore reserves (proven and probable) stood at 19.0Mt grading 5.7% Zn and 1.5% Pb, whilst mineral resources (measured, indicated and inferred) were 23.0Mt at 7.2% Zn and 1.7% Pb.

**Irish Gypsum Ltd.**, a subsidiary of French multi-national Saint Gobain, produced approximately 200kt of gypsum in 2018 from its underground (**Drummond**) and open pit (**Knocknacran**) operations in Co. Monaghan. The gypsum is crushed and blended on site, before being transported by road to a production facility at the nearby town of Kingscourt for manufacturing plaster and plasterboard. A smaller tonnage of gypsum is additionally used in the manufacture of cement.

## **Exploration Activity**

As of 30th April 2019, 45 exploration companies held a total of 576 Prospecting Licences. A further 58 Prospecting Licence applications are currently being processed. Since the last PL competition on 1<sup>st</sup> February 2019, 53 licences have been surrendered. In the same period, 19 licence areas have been issued to the following companies: **Minerex Ltd** (10), **Group Eleven Mining and Exploration Ltd** (4), **Unicorn Mineral Resources** (3) and **Challenge Exploration Ltd** (2).

Zinc and lead remain the principal commodities of exploration interest in Ireland. Other commodities that are currently being sought in Ireland include; gold, silver, barite, copper, PGEs, molybdenum, lithium, antimony and gem minerals.

## **EXPLORATION HIGHLIGHTS**

<i>Number of Current Prospecting Licences (PLs):</i>	576
<i>Number of Corporate Entities holding Prospecting Licences:</i>	45
<i>Percentage of Ireland Land Area under Licence:</i>	Approx. 28%
<i>Total Exploration Expenditure in 2018:</i>	€20.94 Million
<i>Exploration Expenditure on PLs in 2018:</i>	€18.715 Million
<i>Exploration Expenditure on State Mining Facilities in 2018:</i>	€2.07 Million
<i>2018 Drilling on PLs (non-mine related):</i>	Approx. 60,000 m

**Group Eleven Resources Corp.** continues to hold the largest ground position in Ireland comprising some 90 Prospecting Licences. The company exclusively holds 73 licences in four main project areas; Pallas Green West, Silvermines North, Tralee and Silvermines. Group Eleven additionally holds a 60% interest in **Ballinalack Resources Ltd** (11 PLs centred on the **Ballinalack** deposit) and a 76.56% stake in **TILZ Minerals Ltd** 'Stonepark Project' (6 licences adjacent to Glencore's Pallas Green property).

In late 2018, Group Eleven announced an updated NI43-101 mineral resource estimate for the **Ballinalack** deposit, prepared by CSA Global (UK) Ltd under contract to SLR Environmental Consulting (Ireland) Ltd. The estimate was based on recent drilling by the **Ballinalack** JV, as well as historic drilling from the 1970s. The Ballinalack project contains estimated Inferred Mineral Resources of 5.4Mt grading 7.6% zinc, 1.1% lead and 9.0 g/t silver. Mineralization occurs at depths ranging from 10 to 300 metres and dips 15-20° to the north. SLR and CSA Global comment that the deposit is open along and across strike and recommend additional step-out drilling to potentially augment the resource estimate. Previously, in April 2018, **TILZ Minerals Ltd.**, (a joint venture between Group Eleven and Arkle Resources Plc, see below) announced a maiden Inferred Resource Estimate (NI43-101) for the **Stonepark** deposit of 5.3Mt grading 11.15% Zn+Pb combined.

**Glencore** has updated its resource for the **Pallas Green** project in Co Limerick in its 31<sup>st</sup> December 2018 Resource and Reserve Statement. Following the 2018 drilling campaign the resource has been upgraded from an inferred resource of 44.2Mt at 7% zinc and 1% lead in 2017 to an inferred resource of 45.1Mt at 7% zinc and 1% lead in 2018. The Inferred Mineral Resource is reported to be based on 392,000m of diamond drilling in 775 drill holes completed between 2002 and the end of 2017. Drill spacing is nominally 100m, but 178 infill drill holes at 50m spacing have been completed.

**Adventus Zinc Ireland Ltd** ('AZIL') is currently the third largest licence holder in Ireland, with 50 PLs. In February 2019, the company announced that it had entered into a heads of agreement on its Lismore, Fermoy, Millstreet and Charleville exploration projects with Australian junior explorer **BME Limited**. AZIL will continue to retain its Rathkeale and Kingscourt project interests. BME already holds a total of 21 licence areas in Cos Cork, Donegal, Leitrim and Longford.

**Erris Resources Plc** has completed a 12 hole underground drill programme (totalling 1,004.5m) at the **Abbeytown** Zn-Pb mine in Co. Sligo. The drilling has confirmed the continuity of mineralization between the underground mine and mineralization intersected in recent surface drilling, 300m south of the mine. Significant drillhole intersections included: 14.37% Zn+Pb combined and 67.25 g/t Ag over 2.0m in drillhole ABUG009 and 12.66% Zn+Pb combined and 21.05 g/t Ag over 2.0m in drillhole ABUG004.

In recent months, **Conroy Gold and Natural Resources plc** has undertaken drilling at a number of locations within the Longford Down Massif. Drilling at **Clay Lake** in Northern Ireland returned an intersection of 150.5m grading 0.3g/t Au from 108.5m depth. The intersection included an upper intercept of 52.5m @ 0.5 g/t Au (from 108.5m) and a lower interval of 18m @ 0.6g/t Au from 240m depth (including 2m grading 2.7 g/t Au). More recently, a programme of drilling has also commenced at **Slieve Glah** (Co Cavan) to follow up encouraging deep overburden and trenching results.

**Connemara Mining Company plc** has announced its name change to **Arkle Resources PLC** as of the 22<sup>nd</sup> March 2019. The company Chief Executive Officer, Patrick Cullen, explained the name change as "*Connemara Mining Company plc was originally established to develop Irish zinc assets, we believe our rebranding will allow us to better represent the Company's diversified position in both gold and zinc*

exploration and resource development and our geographical spread across Ireland”.

Additional information is available on the company’s new corporate website

[www.arkleresources.com](http://www.arkleresources.com).



Figure 1: County Map of Ireland showing locations mentioned in text.

- |    |              |
|----|--------------|
| AB | Abbeytown    |
| BL | Ballinalack  |
| CL | Clay Lake    |
| DR | Drummond     |
| GA | Galmoy       |
| LI | Lisheen      |
| NA | Navan        |
| PG | Pallas Green |
| SG | Slieve Glah  |
| SP | Stonepark    |



## Exploration and Mining Expenditures 2018

Based on provisional figures provided by exploration and mining companies, expenditure during the calendar year 2018 totalled **€20.94 million** (excluding office overheads). This is somewhat higher than the 2017 figure of €19.55 million. The expenditure of €20.94 million is comprised of €18.71 million in Prospecting Licence Areas (“greenfield” exploration) and €2.22 million in areas covered by State Mining Facilities (SMF, “brownfield” exploration). Expenditure on drilling on PLs in 2018 amounted to €10.73M, slightly higher than the figure for 2017, despite some drilling activities being restricted in Autumn 2018, while legislative amendments were enacted to enable the Minister to undertake EIA screening for mineral exploration deep drilling.

The expenditure in PL Areas is mainly related to base metal exploration (€17.71M), with lesser amounts being spent on gold (€570k) and other minerals (€431k).

## Drilling statistics

Preliminary figures provided by Prospecting Licence holders indicate that a total of some 60,260 metres of drilling (non mine-related) was carried out during 2018, mainly for base metals (zinc, lead).

<b>Prospecting Licences (PLs)</b>				
<b>Activity</b>	<b>Base Metals</b>	<b>Gold</b>	<b>Other</b>	<b>Total</b>
<b>Geology</b>	€2,359,819.23	€199,563.00	€8,432.00	<b>€2,567,814.23</b>
<b>Geochemistry</b>	€988,505.76	€61,574.00	€64,755.00	<b>€1,114,834.76</b>
<b>Geophysics</b>	€2,924,292.00	€14,693.00	€0.00	<b>€2,938,985.00</b>
<b>Airborne Surveys</b>	€202,229.00	€0.00	€5,950.00	<b>€208,179.00</b>
<b>Drilling</b>	€10,202,549.00	€188,785.00	€337,458.00	<b>€10,728,792.00</b>
<b>Trenching</b>	€11,230.00	€0.00	€3,400.00	<b>€14,630.00</b>
<b>Environmental Studies</b>	€149,438.00	€0.00	€11,194.00	<b>€160,632.00</b>
<b>Other Costs</b> (Includes data acquisition, consultancies, storage costs and report writing but excludes office overheads)	€876,584.00	€104,960.00	€0.00	<b>€981,544.00</b>
<b>Total Expenditure [PL Areas] (A)</b>	€17,714,646.99	€569,575.00	€431,189.00	<b>€18,715,410.99</b>
<b>Irish Office Overheads</b>	€1,259,207.83	€366,600.00	€19,100.00	<b>€1,644,907.83</b>
<b>Total plus Irish Office Overheads</b>	<b>€18,973,854.82</b>	<b>€936,175.00</b>	<b>€450,289.00</b>	<b>€20,360,318.82</b>
<b>State Mining Facilities (SMFs)</b>				
<b>Drilling</b>				<b>€2,066,508.00</b>
<b>All Other Expenditure</b>				<b>€153,755.00</b>
<b>Total Exploration Expenditure (B)</b>				<b>€2,220,263.00</b>
<b>Mine Development Expenditure</b>				<b>€16,048,407.00</b>
<b>Total Exploration Expenditure</b>				
<b>PLs + SMFs excluding office overheads (A + B)</b>				<b>€20,935,673.99</b>

## PDAC Convention, Toronto, March 2019

The 87<sup>th</sup> Annual Convention and Trade Show of the Prospectors and Developers Association of Canada (PDAC) was held in Toronto from 3<sup>rd</sup> to 6<sup>th</sup> March 2019. As usual, the Exploration and Mining Division jointly exhibited at the Trade Show with the Geological Survey of Northern Ireland and the Geological Survey of Ireland, in a combined **Ireland** exhibit. This year, the Irish delegation was significantly boosted by the attendance of Minister of State for Natural Resources, Seán Canney, TD. Minister Canney held numerous meetings with Prospecting Licence holders and additionally presented at the International Mines Ministers Summit. In addition, the Minister ratified Ireland's membership of the Intergovernmental Forum on Mining, Minerals, Metals and Sustainable Development (IGF) at a signing ceremony held at the Ireland PDAC booth. The ceremony was attended by the Minister, IGF Director Greg Radford, various IGF executive committee members and a number of DCCAE personnel.

The PDAC meeting is the biggest of its kind in the world, attended by investors, analysts, mining executives, geologists and government officials. This year, the convention was attended by 25,843 delegates from 132 countries. It is hoped that Ireland's involvement in the Trade Show will result in an increased interest in exploration in Ireland.



*Minister Canney and Greg Radford, Director, IGF (middle) pictured at the IGF membership signing ceremony at PDAC 2019*

## **Change to Public Notice of Intention to Grant/Renew a Licence**

Section 7(2)(a) of the Minerals Development Act as amended, provides that the Minister will not grant a Prospecting Licence unless he has, *at least 21 days* prior to granting the Licence, published in one or more newspapers circulating in the locality, notice of his intention to do so. In line with best practice the Exploration and Mining Division has administratively been applying a 30 day consultation period before making a decision on a Prospecting Licence since 2018. The wording of published newspaper notifications has recently been changed to reflect this. As outlined, the change in what is published does not represent anything new to how the process has been administered for almost a year now. Please let EMD know if you have any queries on the above or if you require further information.

## Appendices

### Publicly Available Prospecting Licence Area Data

#### Public viewing access

Publicly available Prospecting Licence area data consists of non-confidential company work reports, both on surrendered Prospecting Licences, and on work more than 6 years old in current Prospecting Licences. This 'open file' data is available for viewing by members of the public from the Geological Survey of Ireland ([www.gsi.ie](http://www.gsi.ie)), Department of Communications, Climate Action and Environment, Beggars Bush, Haddington Road, Dublin, D04 A068, and also from the Exploration and Mining Division, ([www.DCCAE.gov.ie/EMD](http://www.DCCAE.gov.ie/EMD)) 29/31 Adelaide Road, Dublin, D02 X285 (only for data released from 1st January, 2000). The following viewing arrangements currently apply:

- Access to the Databank held by GSI. By making an appointment with the Minerals Section to view the reports at the GSI (see contact below), or by visiting the GSI Customer Centre and accessing the databanks through the public computer system.
- Digital copies of these may be obtained. Please contact GSI for details and charges. All digital data from EMD is free.
- Photocopies (b/w). These are supplied at cost. Currently the charges are: A0 €6.00; A1 €5.00; A2 €3.00; A3 €0.30; A4 €0.15

For appointments or further information, please contact either the Geological Survey, Eoin McGrath of the Minerals Section, Tel: 01 678 2863, [eoin.mcgrath@gsi.ie](mailto:eoin.mcgrath@gsi.ie), or the Exploration and Mining Division (Dr Wayne Cox, Tel: 01 678 2677, [wayne.cox@dccae.gov.ie](mailto:wayne.cox@dccae.gov.ie)).

## **Catalogue of Open File Data**

A digital copy of the 'Catalogue of Exploration Company Open File Data' is available free of charge from the Geological Survey. The catalogue lists all of the approximately 75,000 individual items (reports, maps, sections, drill logs), which are currently held in the open file system. The Catalogue is available as an Access database on CD and may be obtained by applying to Eoin McGrath of the Minerals Section, Tel: 01 678 2863 or: [eoin.mcgrath@gsi.ie](mailto:eoin.mcgrath@gsi.ie).

## **Online Data Availability**

Since mid-2003, the Exploration and Mining Division have been progressively providing publicly available company exploration data released since 1<sup>st</sup> January 2000 on the [www.MineralsIreland.ie](http://www.MineralsIreland.ie) website. Data relating to over 1700 PL areas, including those in the current PL competition, are now available.

## Addresses of Companies Holding State Facilities

### 1. Prospecting Licences

Name	Address
Adventus Exploration Ltd	69-70 Main Street, Oughterard, Galway, H91 E827, Ireland
Adventus Zinc Ireland Ltd	69-70 Main Street, Oughterard, Galway, H91 E827, Ireland
Aurum Mineral Resources Ltd	c/o Alba Mineral Resources Plc, Ridge House, The Ridge, Broadblunsdon, Swindon, Wiltshire, SN26 7AD, UK
Ballinalack Resources Ltd	The Murrough, Wicklow, A67 K039, Ireland
Beal Na Blath Resources Ltd	Gokane Point, Tragumna, Skibbereen, Cork, P81 EP84, Ireland
Blackstairs Lithium Ltd	c/o Company Bureau Formations Limited, The Black Church, St Mary's Place, Dublin, D07 P4AX, Ireland
BMEx Pty. Ltd	2 Benson Street, Toowong, Queensland, 4066, Australia
Boliden Tara Mines Ltd	Knockumber, Navan, Meath, C15 NH63, Ireland
Bowpark Exploration Ireland Ltd	Nore View, Thomastown, Kilkenny, R95 R5H9, Ireland
Centenary Resources Ltd	Gokane Point, Tragumna, Skibbereen, Cork, P81 EP84, Ireland
Challenge Exploration Ltd	Blackthorn Business Park, FDW House, Coes Road, Dundalk, Louth, A91 RW26
Connemara Granite Teo	Ros an Mhil, Baile na hAbhain, Galway, H91 V8YA
Connemara Mining Co. Ltd.	162 Clontarf Road, Dublin, D03 F6Y0, Ireland
Conroy Gold & Natural Resources Plc	3300 Lake Drive, City West Business Campus, Dublin, D24 TD21, Ireland
Conroy Gold Ltd	3300 Lake Drive, City West Business Campus, Dublin, D24 TD21, Ireland
Dan Morrissey (Ireland) Ltd	Dan Morrissey (IRL) Ltd, Bennekerry, Carlow, R93 E099, Ireland
Diversified Asset Holdings Pty. Ltd	44 Kings Park Road, West Perth, Western Australia, 6005, Australia
Erris Zinc Ltd	209 Tower Bridge Business Centre, 46-48 East Smithfield, London, E1W 1AW, UK
Glencore Zinc Ireland Ltd	Unit 1, Dromkeen Industrial Park, Dromkeen, Limerick, V94 TW59, Ireland
Gold Note Minerals Ltd	1158-409, Granville Street, Vancouver, British Columbia, V6C 1T2, Canada
Great Glen Resources Ltd	Suite 2, 70 Queensway, Hemel Hempstead, Hertfordshire, HP2 5HD, UK
Group Eleven Mining & Exploration Ltd	'Cratloe', Ballyprecas, Bunclody, Wexford, Y21 PC43, Ireland
Hannan Metals Ireland Ltd	Blair House, Upper O'Connell Street, Ennis, Clare, V95 FD1V, Ireland
Hendrick Resources (Ireland) Ltd	c/o BRG Ltd, Unit 8B, Block C, Athy Business Campus, Athy, Kildare, R14 FF96, Ireland
IMC Exploration Ltd	70 Ballybough Road, Ballybough, Dublin, D03 F9P7, Ireland
Irish Marine Oil Ltd	162 Clontarf Road, Dublin, D03 F6Y0
Irish Resource Exploration Ltd	22 Northumberland Road, Ballsbridge, Dublin, D04 ED73, Ireland

Name	Address
Longford Zinc Mining Ltd.	Trinity House, Charleston Road, Ranelagh, Dublin, D06 C8X4, Ireland
LRH Resources Ltd	69-70 Main Street, Oughterard, Galway, H91 E827
Minco Ireland Ltd	Coolfore Road, QME, Ardbracken, Navan, Meath, C15 KXY3, Ireland
Minerex Ltd	1 Marine Terrace, Dun Laoghaire, Dublin, A96 KD68
MOAG Copper Gold Resources Inc	21 Burkebrook Place, Suite 405, Toronto, Ontario, M4G 0A2, Canada
Oldcastle Zinc Ltd	162 Clontarf Road, Dublin, D03 F6Y0, Ireland
Omagh Minerals Ltd	56, Botera Upper Road, Omagh, Tyrone, BT78 5LH, Northern Ireland
Oriel Selection Trust Ltd	Aurum Exploration Services Ltd, Unit 34, Kells Business Park, Virginia Road, Kells, Meath, A82 E6K0, Ireland
Raptor Resources Ltd	Gokane Point, Tragumna, Skibbereen, Cork, P81 EP84, Ireland
Rennicks and Bennett Ltd	c/o Boliden Tara Mines Ltd, Knockumber, Navan, Meath, C15 NH63, Ireland
Shanoon Resources Ltd	New Work Junction, Dublin Road, Kilkenny, Kilkenny, R95 VP83, Ireland
Teck Ireland Ltd	The Murrough, Wicklow, A67 K039, Ireland
TILZ Minerals Ltd	12 Merrion Square, Dublin, D02 H798, Ireland
Trove Metal Ltd	11 Loreto Avenue, Bishops Meadows, Kilkenny, R95 HK4D, Ireland
Unicorn Mineral Resources Ltd	c/o BRG Ltd, Unit 8B, Block C, Athy Business Campus, Castlecomer Road, Athy, Kildare, R14 FF96, Ireland
Vedanta Exploration Ireland Ltd	Killoran, Moyne, Thurles, Tipperary, E41 R622, Ireland
Viridian Metals Ireland Ltd	70 Sir John Rogerson's Quay, Dublin, D02 R296, Ireland
Westland Exploration Ltd	c/o Peter McParland, Coolfore Road QME, Ardbraccan, Navan, Meath, C15 KXY3, Ireland



## 2. Mining Facilities

Name	Address
Boliden Tara Mines Ltd	Knockumber House, Knockumber, Navan, Co. Meath, C15 NH63, Ireland
Connemara Marble Products Ltd.	Moycullen, Co Galway, H91 YR83, Ireland
Fleming's Fireclays Ltd.	The Swan, Athy, Co. Kildare, R14 TE81, Ireland
Irish Gypsum Ltd.	Unit 4, Kilcarbery Business Park, Nangor Road, Dublin, D22 R277, Ireland
Joyce's Marble Quarries Ltd.	Lissoughter, Recess, Connemara, Co Galway, H91 K3E8, Ireland
Killoran Lisheen Mining Ltd.	Killoran, Moyne, Thurles, Co Tipperary, Co Tipperary, E41 R622, Ireland
Lisheen Milling Ltd.	41/45 St. Stephen's Green, Dublin, Ireland
Vedanta Lisheen Mining Ltd.	The Lisheen Mine, Killoran, Moyne, Thurles, Co. Tipperary, E41 R622, Ireland