

Key Facts:

Ticker-Exchange	ZNG-TSXV
Closing Price	\$0.20
Date of Report	September 25, 2024
Company Website	www.groupelevenresources.com
Company CEO	Bart Jaworski
Analyst	Stefan Ioannou

Company Statistics:

52-week High	\$0.28
52-week Low	\$0.09
Market Cap	\$40.3 MM
Shares Outstanding	
Basic	206.7 MM
Diluted	238.4 MM
Cash	\$2.7 MM
Working Cap	\$2.2 MM
Long-term Debt	\$0.0 MM

Major Shareholders (%):

Board & Management	3.2%
Glencore	17.6%
Michael Gentile	17.0%
Teck	1.6%

Price Chart:



Source: BigCharts.com (September 24, 2024)

Our **Emerging Ideas** publication seeks to highlight firms that we come across during our travels where, while perhaps not ready for formal research overage, we see notable developments or inflection points that we believe may be of interest to investors.

Vectoring In On Ballywire's High Grade

Unless otherwise denoted, all figures shown in C\$

Corporate Overview

Group Eleven is a seasoned explorer focused on Ireland's prolific zinc endowment. The company has assembled a comprehensive property package strategically covering key zinc belts (namely the Waulsortian Limestone, which is a [the] host formation for 'Irish-type' MVT zinc mineralization), in proximity to existing mines and/or known resources. Recent drilling, guided by new geological ideas and interpretations, continues to bear fruit—success that stands to garner market attention in the midst of an emerging zinc supply deficit and green energy/battery narrative.

Key Points

- We continue to keep a close eye on Group Eleven's exploration efforts in Ireland —in particular, 100%-owned PG West project efforts designed to test (for the first time) the relationship between the Limerick Volcanic Complex, which is centrally located within the basin, and (basal) Waulsortian hosted zinc mineralization (note).
- Ongoing drilling at PG West's Ballywire prospect continues to bear fruitmost recently in three 'step-out' holes further testing the compelling C-group of geophysical (gravity) anomalies adjacent to (east of) Ballywire's discovery area (underpinned by the C1 anomaly and previously reported significant Waulsortian hosted and footwall feeder intersections; note). The latest drilling is highlighted by a 108.5 m intersection of vein-hosted and layered massive sulphide grading 3.5% zinc+lead from 143 m in hole G11-2552-17, which includes several higher grade intervals (incl. 5.6 m at 13.1%, 4.2 m at 15.2%, and 4.9 m at 9.7%). The hole represents an ~360 m step-out to the northeast of the previous high-grade drilling (note) and is accompanied by strong results in new on section 'scissor' hole G11-3552-15 (36.7 m at 2.9% zinc+lead including several higher grade intervals at up to 5.9%), as well as a 7.4 m intersection grading 9.1% zinc +lead in hole G11-3552-16-a 100 m step-out to the northeast of the previous drilling. The latest drilling continues to suggest the system is strengthening in the up-dip direction, toward the northeast. Said interpretation is now being tested by a series of additional holes including G11-3552-19 and -21 (assays pending)—stay tuned!
- Systematic drilling is clearly beginning to stitch a discovery of scale together at Ballywire—now over ~1,250 m of strike (C anomaly), within a greater (open) mineralized envelope spanning ~2.6 km of strike, which in turn is encompassed by an ~6 km by ~2 km 'prospective trend' footprint (underpinned by compelling geophysics—namely the A, B, C, and D gravity anomalies). Drilling to date has demonstrated said geophysics 'works' at Ballywire, which continues to bode very well with regard to 'scope' potential in the context of the prospective trend's large footprint. Recall regionally, Ballywire is located at the intersection of the southwesterly projection of the Rathdowney Trend (which hosts the past-producing Lisheen and Galmoy zinc mines) and the prolific ~25 km long Pallas Green Corridor that hosts Glencore's Pallas Green deposit (45.4 MMt grading 8.4% zinc +lead ~20 m to the NW of Ballywire)—potentially a/the locus of a regional plumbing system(?).



Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com



Figure 1: Dominant Land Position In One Of Ireland's Most Endowed Zinc Camps

Source: Group Eleven Resources Corp.

Figure 2: Ballywire Drill Hole Location Map – Significant Strike Length Extension



Source: Group Eleven Resources Corp.



Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com

Item	From	То	Int	Zn	Pb	Zn+Pb	Ag	Cu
	(m)	(m)	(m)	(%)	(%)	(%)	(g/t)	(%)
G11-3552-17	143.30	251.80	108.50	2.76	0.71	3.46	25.1	0.04
Incl.	143.30	157.45	14.15	5.79	1.61	7.39	66.1	0.01
Incl.	151.85	157.45	5.60	10.54	2.55	13.09	116.2	0.02
And	164.90	168.11	3.21	3.42	0.64	4.06	17.2	0.01
And	174.47	192.05	17.58	2.47	0.67	3.14	13.7	0.01
Incl.	181.87	192.05	10.18	3.08	0.92	4.01	18.1	0.01
Incl.	185.56	192.05	6.49	3.11	1.26	4.38	20.8	0.01
Incl.	185.56	189.34	3.78	3.50	1.61	5.11	25.6	0.01
And	210.02	235.94	25.92	5.08	1.10	6.19	20.7	0.03
Incl.	210.02	222.16	12.14	6.68	0.52	7.20	20.1	0.01
Incl.	210.02	216.18	6.16	10.56	0.62	11.18	30.2	0.02
Incl.	210.02	214.22	4.20	14.39	0.78	15.17	34.3	0.02
And	229.20	234.09	4.89	6.81	2.84	9.65	39.5	0.07
And	241.17	251.80	10.63	1.43	0.87	2.30	76.0	0.29
Incl.	242.09	245.70	3.61	1.27	1.83	3.10	100.8	0.45

Figure 3: Ballywire Drill Hole G11-3552-17 Highlights

Source: Group Eleven Resources Corp.

Figure 4: Other Recent Ballywire Drill Result Highlights

Item	From (m)	To (m)	Int (m)	Zn (%)	Pb (%)	Zn+Pb (%)	Ag (g/t)	Cu (%)
G11-3552-14	216.41	233.50	17.09	1.05	0.24	1.28	3.6	-
Incl.	216.41	224.34	7.93	1.55	0.27	1.82	5.6	-
Incl.	216.41	221.95	5.54	1.76	0.29	2.05	6.7	-
Incl.	216.41	219.22	2.81	2.65	0.40	3.05	10.4	-
G11-3552-15	236.49	294.82	58.33	1.09	0.83	1.92	18.6	-
Incl.	236.49	273.16	36.67	1.58	1.29	2.87	11.6	-
Incl.	241.11	244.87	3.76	4.50	1.43	5.94	17.0	-
And	249.42	253.13	3.71	3.16	2.04	5.19	13.1	-
And	268.65	273.16	4.51	1.85	2.67	4.52	27.5	-
And	290.96	291.45	0.49	4.68	0.47	5.15	743.0	2.28
G11-3552-16	254.52	279.25	24.73	2.93	0.74	3.67	12.2	-
Incl.	254.52	263.88	9.36	6.22	1.41	7.63	24.6	-
Incl.	255.52	262.91	7.39	7.38	1.70	9.08	28.6	-
Incl.	255.52	259.14	3.62	9.79	1.92	11.71	39.3	-
G11-2654-03	278.23	283.91	5.68	0.21	0.04	0.26	1.6	-
Incl.	282.70	283.91	1.21	0.70	0.13	0.83	4.7	-
And	297.14	306.63	9.49	0.13	0.04	0.16	0.7	-



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Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com



Figure 5: Ballywire Cross Section A-A'

Source: Group Eleven Resources Corp.



Figure 6: Ballywire Cross Section B-B'

Source: Group Eleven Resources Corp.



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Figure 7: Ballywire Cross Section C-C'

Source: Group Eleven Resources Corp.



Figure 8: Ballywire Gravity Map (historic data with new Survey footprint overlay)



Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com





Source: Group Eleven Resources Corp.







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Source: Group Eleven Resources Corp.



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Yellow rectangle reflects superimposed Ballywire discovery area. Source: Group Eleven Resources Corp.

Discovery: 1986 Closure: 2009 2P+M&I = 9.5mt of ANT SITE 18.2% Zn+Pb, 38 g/t Ag K Zone 0 1 ARCON A ets - Republic of Irel 1km of She

Figure 14: Ballywire Footprint Comparison - Galmoy

Yellow rectangle reflects superimposed Ballywire discovery area. Source: Group Eleven Resources Corp.



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Figure 15: More Than A One-Trick Pony – Carrickittle West

Group Eleven's Carrickittle West Prospect appears to 'mirror' the geologic setting underpinning Glencore's 45 MMt Pallas Green deposit. A 4-5 hole (~1,700 m) drill program is underway—assays pending. Source: Group Eleven Resources Corp.



Appendix 1 — Mississippi Valley-Type Deposit Primer

Mississippi Valley-type (MVT) deposits are epigenetic (formed after the deposition of host rocks), low-temperature (75-200°C), stratabound accumulations of zinc and lead sulphide mineralization hosted within platform carbonate sequences (namely, dolomites in passive margin environments) that have developed secondary permeability. This secondary permeability is typically associated with the movement of saline (10-30% sodium chloride [NaCI] equivalent) metal-rich brines through a sedimentary basin. The fluid movement is usually in response to hydrostatic gradients established by tectonic compression (and the inboard extensional tectonic domains associated with orogenic zones), topographic relief (i.e., gravity +/- compaction), thermal convection (in lieu of a direct spatial or temporal relation to igneous rocks), and/or other factors.

Under appropriate chemical conditions, these brines can dissolve host rock (typically dolomite and limestone), replacing it with metal sulphide mineralization—namely, sphalerite (ZnS; zinc sulphide) and galena (PbS; lead sulphide). This host rock dissolution can cause collapse breccias (broken rock) and the creation of open-space cavities (karstification). These cavities, and neighbouring faults/fractures, can also provide favourable sites (chemical traps) for subsequent metal sulphide deposition.

Figure 16: MVT Deposit Model (schematic)



Source: Cormark Securities Inc.



Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com

Metal precipitation is triggered primarily by chemical reactions at the depositional site, where the presence of reduced sulphur is key (to form an acidic environment to dissolve carbonate rocks and precipitate metal sulphides). Sulphur may be introduced into the system in the following ways:

- <u>Reduced sulphur in the metal-rich brine</u>, with sulphide precipitation prompted by a decrease in temperature, decrease in pressure, change in pH, dilution, wall-rock alteration, and/or addition of reduced sulphur at the depositional site (a one-fluid model).
- <u>Sulphate in the metal-rich brine</u>, with sulphide precipitation prompted by fluid interaction with a sulphur reducing agent (e.g., hydrocarbons) at the depositional site (which converts sulphate to reduced sulphur); or conversely, sulphate already present at the depositional site that is subsequently flooded by a metal-rich brine and a sulphur-reducing agent (e.g., mobile hydrocarbons).
- <u>A reduced sulphur-rich (metal poor) fluid</u>, which subsequently mixes with a metal-rich (low sulphur) brine at the depositional site (a two-fluid model).

Regardless of introduction path, the original source of sulphur in MVT systems is most likely seawater sulphate contained in sediments and/or connate water that was subsequently reduced by one or more processes. Despite the sulphide mineralogy of MVT deposits, their chemistry is buffered by carbonate host rock geology, which mitigates (neutralizes) many environmental issues that acidic fluid flow might otherwise entail. We note that the municipal water supply for the town of Viburnum, Missouri (a world-class MVT mining district), is groundwater sourced from one of the mines in the area.

The origin of the brines themselves is poorly constrained but is likely a mixture of modified meteoric (rain/ground) water, seawater, and/or deeper crustal fluid. Likewise, several metal sources have been proposed, and include the sedimentary successions in which the deposits were formed (including clastic red-bed sequences).



Figure 17: 'Crustiform' MVT Ore (sphalerite-rich hand sample)

Olkusz deposit, Poland Source: Universite de Geneve



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According to the United States Geological Survey (USGS; Leach, D.L., et al., 2010), MVT deposits on average yield an ~10:1 mass ratio of zinc to lead metal. However, some deposits and districts contain only appreciable amounts of zinc (e.g., East and Central Tennessee), while others are dominated by lead (e.g., the Viburnum Trend). The fact that MVT sulphide mineralization is typically coarser grained than that associated with most other sediment-hosted ore deposit types simplifies metallurgical processing requirements (i.e., final grind size). Zinc sulphide mineralization (sphalerite) in most MVT deposits is characteristically iron poor, which can yield high-grade zinc concentrates (+60%), as is the case at Nyrstar's Middle Tennessee Mines.

MVT deposits typically form in districts covering hundreds to even thousands of square kilometres. Within each district, individual deposits display remarkable similarity. According to the USGS, individual MVT deposits are characterized by a median size of 7.0 MMt grading 6.0% zinc, 1.9% lead, 0.23% copper, and 32.5 g/t silver. However, extensive districts can consist of several to as many as 400 deposits. MVT deposits garner their name from a number of deposits along the Mississippi River in the United States, where such ores were first recognized; these include the famed Southeast Missouri Lead District and deposits in northeast Iowa, southwest Wisconsin, and northwest Illinois. Well-known Canadian examples include the Pine Point District in the Northwest Territories, and the Polaris and Nanisivik mines in Nunavut. Australian examples include the past-producing Lennard Shelf mine (district).

Figure 18: Select MVT Deposit And District Location Map



Source: U.S. Geological Survey (Leach, D.L., et al., 2010; Scientific Investigations Report 2010-5070-A)



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Figure 19: Irish-Type Zinc Deposits – Key Stratigraphy



Source: Group Eleven Resources Corp.

Irish-Type Deposits

While distinct, 'Irish-type' carbonate lead-zinc ores, for example, Vedanta's past-producing Lisheen mine, are also formed in similar ways—albeit said deposit type is considered a hybrid of MVT and SEDEX models; see above). Differences with 'typical' MVT deposits include higher formation temperature, higher silver concentration, and formation by replacement of carbonates and dissolution open space fill after early diagenesis, rather than cavity fill-dominated mineralization (which occurs well after lithification). In Ireland, zinc mineralization is typically associated with two prolific horizons—the Waulsortian Limestone (e.g., Glencore's Pallas Green deposit) and deeperseated Navan Beds (e.g., Boliden AB's [BOL-ST] Navan mine).



Figure 20: Irish-Type Zinc Deposit Model (schematic)



Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com

MVT Grassroots Exploration Criteria

A compilation of current resource and historical production figures (sourced from academic data) from 125 MVT deposits and districts around the world suggests the deposit/district type averages ~39 MMt grading 6.7% zinc and 2.7% lead. A significant MVT discovery (camp) can exceed several billion dollars in value. Hence, refined exploration models are a key tool for exploration geologists. The identification of terranes that are amenable to potentially hosting significant mineralization underpins grassroots exploration, as most MVT deposits share common features that provide useful guidelines for exploration. In particular, these features include the following (in part after Leach, D.L., et al., 2010):

- Setting: Platform carbonate sequences that were located less than ~600 km inboard of orogenic belts, especially those related to faults and deformation features associated with Pangean and neocontinental supercontinent assembly in Devonian to Early Triassic and Cretaceous to Tertiary time. Given the scale of MVT settings, it is likely to find multiple deposits in a given region. Hence, a 'district scope' should underpin MVT exploration. Well-developed structure (fault density), evidence of evaporate facies in regional carbonates (providing a chloride [salt] source for brine generation), and karstification all favour the formation of MVT deposits. Some deposits are situated above or near basement highs that controlled the development of sedimentary facies, structure, and the pinch out of aquifers (e.g. the prolific Viburnum Trend and Pine Point districts).
- Alteration: Haloes associated with MVT mineralization tend to be limited. However, surficial base metal anomalies/signatures can be a useful vectoring tool, traceable through stream-sediment, soil, and rock-chip sampling.
- **Geophysics:** The typically low iron content of MVT-related sulphides can limit the effectiveness of (electro) magnetics. However, gravity can prove to be an effective tool, given the contrast in density between carbonate host rocks and zinc/lead sulphides. In districts that have been explored for petroleum, the availability of regional seismic data can provide a three-dimensional resolution of geological structure and stratigraphy.

		Avrg.	Average Grade						Average Contained Metal (MM)				
	Smpl.	Tonn.	Zi	Pb	Zi+Pb	Cu	Au	Ag	Zi	Pb	Cu	Au	Ag
Deposit Type	Size	(MM)	(%)	(%)	(%)	(%)	(g/t)	(g/t)	(lb)	(lb)	(lb)	(oz)	(oz)
Sedimentary Exhalative	56	68.0	7.4%	3.7%	11.1%	0.1%	0.0	59	11,122	5,543	221	0	129
Carbonate Replac. Manto & Skarn	85	24.8	6.2%	2.7%	8.9%	0.4%	0.5	78	3,395	1,491	205	0	62
Mississippi Valley Type	125	39.4	6.7%	2.7%	9.4%	0.0%	-	5	5,836	2,326	16	-	7
Volcanogenic Massive Sulphide	904	16.7	3.1%	0.7%	3.8%	1.7%	1.0	36	1,151	242	622	1	19
		Median	Median Grade				Median Contained Metal (MM)						
	Smpl.	Tonn.	Zinc	Lead	Zi+Pb	Cu	Gold	Silver	Zi	Pb	Cu	Au	Ag
Deposit Type	Size	(MM)	(%)	(%)	(%)	(%)	(g/t)	(g/t)	(lb)	(lb)	(lb)	(oz)	(oz)
Sedimentary Exhalative	56	49.5	6.9%	2.2%	9.8%	-	-	32	7,530	2,401	-	-	51
Carbonate Replac. Manto & Skarn	85	5.1	5.4%	1.5%	8.0%	0.1%	-	31	607	169	11	-	5
Mississippi Valley Type	125	13.6	5.6%	2.0%	7.9%	-	-	-	1,674	598	-	-	-
Volcanogenic Massive Sulphide	904	2.3	1.8%	0.0%	2.0%	1.3%	0.3	11	91	-	67	0	1

Figure 21: Zinc Deposit Type Tonnage And Grade Comparison – MVTs Pull Their Weight

Source: Academic Compilation (US Geological Survey) and Company Data



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Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com

Figure 22: Select MVT Deposit Tonnage And Grade Comparison

				Contained Metal							
		Tonnage	Zinc	Lead Z	linc + Lead	Copper	Silver	Zinc	Lead	Copper	Silver
Deposit	Location	(MM)	(%)	(%)	(%)	(%)	(g/t)	(MMIb)	(MMIb)	(MMIb)	(MMoz)
Admiral Bay	Australia	120.0	6.4%	2.3%	8.7%	-	32	16,932	6,085	-	123
Austinville-Ivanhoe	United States	29.9	3.9%	0.8%	4.7%	-	-	2,571	527	-	-
Bleiberg	Austria	43.0	5.9%	1.1%	7.0%	-	-	5,593	1,043	-	-
Blende	Canada	19.6	3.0%	2.8%	5.8%	-	-	1,296	1,210	-	-
Blendvale	Australia	20.0	8.0%	2.5%	10.5%	-	-	3,527	1,102	-	-
Buick	United States	59.9	2.2%	8.2%	10.4%	-	-	2,904	10,823	-	-
Burkesville	United States	45.0	3.5%	3.0%	6.5%	-	-	3,472	2,976	-	-
Cadjebut	Australia	16.4	8.9%	5.0%	13.9%	-	-	3,218	1,808	-	-
Central Tennessee	United States	100.0	3.0%		3.0%	-	-	6,614	-	-	-
Daliangzi	China	40.0	10.4%	0.8%	11.2%	-	43	9,171	705	-	55
El Abed	Algeria	38.0	3.5%	2.3%	5.8%	-	-	2,932	1,927	-	-
Elura	Australia	45.0	8.5%	5.3%	13.8%	-	69	8,433	5,258	-	100
Esker	Canada	80.6	3.4%	1.2%	4.6%	-	-	6,042	2,132	-	-
Fankou	China	51.7	10.0%	4.9%	14.9%	-	102	11,393	5,583	-	169
Florida Canyon	Peru	19.9	10.9%	1.7%	12.6%	-	17	4,782	746	-	11
Friedensville	United States	19.1	6.3%	-	6.3%	-	-	2,653	-	-	-
Gayna River	Canada	50.0	4.7%	0.3%	5.0%	-	-	5,181	331	-	-
Houhongqiao	China	32.0	1.5%	0.5%	2.0%	-	-	1,058	353	-	-
Huayuan	China	50.0	3.4%		3.4%	-	-	3,748	-	-	-
Iglesiente	Italy	125.0	3.0%	1.0%	4.0%	-	-	8,267	2,756	-	-
Illinois-Kentucky	United States	21.2	1.3%	0.3%	1.6%	-	-	608	140	-	-
Irankuh	Iran	17.0	11.0%	2.5%	13.5%	-	-	4,123	937	-	-
Kabwe	Zambia	15.3	13.0%	5.4%	18.4%	-	-	4,385	1,821	-	-
Lisheen	Ireland	22.0	11.5%	1.9%	13.4%	-	26	5,578	922	-	18
Madan	Bulgaria	110.0	2.0%	2.5%	4.5%	0.2%	-	4,850	6,063	534	-
Magmont	USA	23.4	1.0%	7.3%	8.3%	0.3%	11	516	3,766	134	8
Mascot-Jefferson City	United States	133.0	1.9%	-	1.9%	-	-	5,571	-		-
Mehdiabad	Iran	394.0	4.2%	1.6%	5.8%	0.1%	-	36,482	13,898	869	-
Mežica	Slovenia	19.0	2.6%	5.3%	7.9%	-	-	1,089	2,220	-	-
Nanisivik	Canada	19.0	8.7%	0.7%	9.4%	-	41	3,644	293	-	25
Navan	Ireland	95.3	8.3%	2.1%	10.4%	-	-	17,438	4,412	-	-
Olza	Poland	24.4	5.5%	1.5%	7.0%	-	-	2,975	802	-	-
Pavlovskoye	Russia	128.0	3.9%	1.5%	5.4%	-	-	11,005	4,233	-	-
Pend Oreille-Metaline	United States	27.4	3.8%	1.2%	5.0%	-	-	2,295	725	-	-
Pering	South Africa	18.0	3.6%	0.6%	4.2%	-	-	1,429	238	-	-
Pillara (Blendvale)	Australia	19.3	8.9%	2.6%	11.5%	-	17	3,789	1,107	-	11
Pine Point	Canada	87.6	6.8%	2.9%	9.7%	-	-	13,132	5,601	-	-
Polaris	Canada	22.0	14.0%	4.0%	18.0%	-	-	6,790	1,940	-	-
Qixiashan	China	22.0	5.6%	3.2%	8.8%	-	-	2,716	1,552	-	-
Raibl	Italy	18.1	6.0%	1.2%	7.2%	-	-	2,394	479	-	-
Reocin	Spain	62.0	11.0%	1.4%	12.4%	-	-	15,036	1,914	-	-
San Vicente	Peru	20.0	12.0%	0.9%	12.9%	-	-	5,291	397	-	-
Silvermines	Ireland	17.7	6.4%	2.5%	8.9%	-	24	2,496	975	-	14
Sorby	Australia	16.2	0.6%	5.3%	5.9%	-	-	214	1,893	-	-
Sumsar	Kirghistan	30.0	3.0%	5.0%	8.0%	-	-	1,984	3,307	-	-
Hanbaoshan	China	20.0	10.4%	1.4%	11.8%	-	94	4,586	617	-	60
Iouissit-Bou Beker-El Abed	Morocco	67.0	2.5%	7.0%	9.5%	-	-	3,693	10,340	-	-
Upper Mississippi Valley	United States	58.1	2.7%	1.4%	4.1%	-	-	3,458	1,793	-	-
Upper Silesia	Poland	731.0	4.2%	1.3%	5.5%	-	-	67,686	20,951	-	-
Urultun	Russia	23.0	6.7%	2.9%	9.6%	-	-	3,397	1,470	-	-
Viburnum Trend	United States	369.0	0.8%	5.4%	6.2%	0.1%	-	6,508	43,929	976	-
Group Average (n = 125)		39.4	6.7%	2.7%	9.4%	0.0%	5	5,836	2,326	16	7
Group Median (n = 125)		13.6	5.6%	2.0%	7.9%	-	-	1,674	598	-	-

Source: Academic Compilation (MacIntyre [1991]; Goodfellow and Lydon [2007]; BC Minfile 082FGNW009 [Lydon, DNAG]) and Company Data



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Stefan Ioannou, Ph.D. (416) 943-4222, sioannou@cormark.com Jude Orji, P.Eng., Associate (416) 943-6740, jorji@cormark.com

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