# Hirvikangas

**Alternative Names:** Alimmainen Lahnasjärvi
**Occurence type:** occurrence

| Commodity | Rank | Total measure | Total production | Total resource | Importance |
|---|---|---|---|---|---|
| zinc | 1 | NA | NA | NA | NA |
| lead | 2 | NA | NA | NA | NA |

**Easting EUREF:** 462183,561
**Northing EUREF:** 7026815,262
**Easting YKJ:** 3462340
**Northing YKJ:** 7029760

**Discovery year:** 1980
**Province:** Vihanti-Pyhäsalmi (Zn, Cu)
**District:** Kangasjärvi (Zn)
**Comments:** Includes both Hirvikangas and Alimmainen Lahnasjärvi ore bodies.
**References:** 1

## Mineral deposit type

**Group:** Metallogenic deposit
**Main type:** Mixed hydrothermal

## Dimension

**Expression:** geochemical anomaly
**Form:** stratabound
**Shape:** NA
**Length (m):** 250
**Width (m):** 20
**Thickness (m):** 3
**Depth (m):** NA
**Dimension comments:**

**Area (ha):** NA
**Dip azim:** NA
**Dip:** 80
**Plunge azim:** NA
**Plunge dip:** NA
**Orientation method:** NA

## Holder history

**Current holder:** Akkerman Finland Oy
**Years:** 2023
**Holding type:** Exploration permit

**Previous holders:**

| Company | Years | Holding type | Comments |
|---|---|---|---|
| Akkerman Finland Oy | 2022 | Application for exploration permit | NA |
| Akkerman Exploration B.V. | 2020 | Reservation | NA |
| Cullen Resources Ltd | 2017-2019 | Reservation | NA |

| | | | |
|---|---|---|---|
| Magnus Minerals Oy | 2014-2016 | Reservation | NA |
| Drake Resources Sweden AB | 2011-2012 | Claim reservation (old law) | NA |

# EXPLORATION ACTIVITY

## Geological Survey of Finland

| Years | Activity type | Geologist | Exploration result | Ref |
|---|---|---|---|---|
| 1980-1980 | regional geology | NIKANDER,J. | NA | |

| | | | | |
|---|---|---|---|---|
| 1980-1980 | core drilling | NIKANDER, J. | mineralized zone identified | |
| | *Total of 13 drill holes (1773.2 m) at Hirvikangas and Alimmainen Lahnasjärvi. Deepest drill hole 266.0 m.* | | | |
| | ***Intersections*** | | | |
| | HoleID | R341 | | |
| | From-To | 50,3-56,7 | | |
| | Length | 6,4m | | |
| | zinc | 0,97% | | |
| | *Comments* | *The highest zinc content ca 1.5 % Zn.* | | |
| | HoleID | R341 | | |
| | From-To | 100,2-108,2 | | |
| | Length | 8m | | |
| | zinc | 1,52% | | |
| | *Comments* | *The highest zinc content in 1 m intercept 3.03 % Zn.* | | |
| | HoleID | R348 | | |
| | From-To | NA | | |
| | Length | 0,6m | | |
| | zinc | 2,18% | | |
| | HoleID | R349 | | |
| | From-To | NA | | |
| | Length | 0,5m | | |
| | zinc | 2,72% | | |
| | lead | 1,6% | | |

| | | | | |
|---|---|---|---|---|
| 1962-1962 | regional reconnaissance | NA | NA | |

# GEOLOGY

**Host rock:** Cordierite-Sillimanite Paragneiss, Felsic volcanic rock, Felsic tuffaceous sandstone, Intermediate tuffaceous sandstone, Mafic tuffaceous sandstone
**Wall rock:** Gneiss, Gneiss

## Cordierite-Sillimanite Paragneiss (Host rock)

**Rock type:** Host rock

**Ore minerals:**

| Mineral | Proportion | Mineral texture |
|---|---|---|
| Chalcopyrite | minor | |
| Pyrite | present | |
| Pyrrhotite | present | |
| Sphalerite | most abundant | |

**Other minerals:**

| Mineral | Proportion | Mineral texture |
|---|---|---|
| Cordierite | present | Stockwork, Fracture filling |
| Sillimanite | present | |

| Alteration: | Distribution: | Degree: | Relation to mineralization: |
|---|---|---|---|
| potassic alteration | Lenses | | |
| cordierite-sillimanite alteration | Pervasive | Strong | |

## Felsic volcanic rock (Host rock)

**Rock type:** Host rock
**Comments:** Quartz and plagioclase rich gneissic rocks without granitised component

## Felsic tuffaceous sandstone (Host rock)

**Rock type:** Host rock
**Comments:** Quartz and plagioclase rich gneissic rocks without granitised component

## Intermediate tuffaceous sandstone (Host rock)

**Rock type:** Host rock

## Mafic tuffaceous sandstone (Host rock)

**Rock type:** Host rock

## Gneiss (Wall rock)

**Rock type:** Wall rock

**Ore minerals:**

| Mineral | Proportion | Mineral texture |
|---|---|---|
| Zinc | | |

## Gneiss (Wall rock)

**Rock type:** Wall rock
**Comments:** Similar to felsic volcanics but it's more sheared and sillimanite is abundant.

# REFERENCES

**1.** Nikander, J. 1981. Sinkkimalmitutkimukset Korppisjärven alueella Pohjois-Keiteleellä vuosina 1977-1980. Geological Survey of Finland, Report M 19/3314/-81/1/10. 56 p. (in Finnish)
*http://tupa.gtk.fi/raportti/arkisto/m19_3314_81_1_10.pdf*