

EMC- Metals investigation in Høgtuva- area, Nordland, Norway

Reported by Kjell Nilsen Geoconsulting.

Introduction.

EMC-Metals corporation is an international investigation company, main office in Reno, USA, focusing on special metal resources. The Be- mineralized zone by Bordvedåga, Høgtuva area, Nordland was the main target for this investigation.

The pre-claiming was organized by Ø. Standeren Pedersen through REE- mining/ In Spe II in the period 2011- 2013. The project in Norway was operated by Kjell Nilsen as exploration manager. Due to limited founding for this part of the EMC-Metals project the activities was limited:

- May 2011: Pre-claims of the Høgtuva area rented through REE- mining
- 2- 4 august 2011: field survey including profiles of geochemical soil sampling.
- October 2011: Meeting at the recovery lab at NTNU in Trondheim

Field work and geochemical sampling

The Bordvedåga Be- deposit is situated in the Høgtuva area about 15 km west of Mo i Rana in Nordland county, Norway. In the period 1980- 1990 the area was investigated by NGU (Norwegian geological survey) with support from private companies. An about 4 km long up to 400- 500 m wide main mineralized lens in granitic gneiss was mapped mainly based on elevated radiation level, geochemistry and mineralogy (index minerals beryl, amazonite, høgtuvaite +others). The geochemistry of the mineralized zone is characterized by higher Be, Sn, Y, U, Th REE and partly Mo, Cu and Ba. In the central part of this lens around Bordvedåga river, a Be- mineralized zone about 400 meter long x 20 m wide was drilled, giving an identified Be- ore of 350.000 tons with 0,18 % Be. Flotation test gave a concentrate of 23 % Be (mostly phenakite) with recovery of 80 %.

It was partly excellent conditions for soil sampling. During the field work 40 soil samples in 3 profiles were collected across the registered mineralized gneiss zone. In the zones with signs of mineralization, sampling distance was about 50 (or up to 100) meter, in the adjacent hanging- and footwall gneiss some scattered samples. Most of the area is well exposed. The sample procedure; digging by a small plastic garden spade mostly fine- coarser sand usually < 1 dm depth in pockets of surface sediments on gneiss outcrops. The sample material consists mostly of locally derived weathered gneiss material with some possible contribution from other moraine material. This sample method proved to be effective, obviously representing an image of the local bedrock geochemistry, although not representing completely true composition. The ICCP MA/ES (multiple acid extraction) chemical analyse method is a quantity method with too low levels (like Be ++) of elements from heavily soluble minerals (like quartz, feldspars, possibly beryl, phenakite).

Profile 1, Samples H1- H18: North- to south profile from top of Fjeldalsbekken (UTM 49190 66760) to Bordvedåga. Traverse through the north- northwestern part of the mineralized gneiss zone.

Profile 2, Samples H19- H32: Profile along Bordvedåga from 200 m east of Bordvedvatnet (UTM 49260) towards northeast. Traverse through the central part of the Be- ore zone and mineralization.

Profile 3: East- to west profile along main road to Melfjorden from eastern side of bridge over Leiråga to road cross small road to Leiråmoen farm. Control profile in partly rusty gneisses at the northern continuation of the registered mineralized zone.

Interpretation of results

The geochemical data from the profiles clearly indicate the presence of the mineralized gneiss zone with considerably higher levels of Zr- Y and Sn, and partly Zn, U, Th, Mo, Pb. These features almost completely correspond to the geochemical anomalies in the mineralized gneiss as described from the former NGU investigation reports. However, in profile 1, the elevated levels already start from sample H4/H5, about 3- 400 meter north of the previous defined mineralized gneiss zone which indicates that

the northwestern part of the main mineralized zone can be up to twice as wide than previously registered on the NGU geological map. These data are also confirmed by the field observations of green amazonite in smaller pegmatite veins (indicative for potential Be- mineralization), and 1- 2 observations of beryllium also showed up about 3- 400 meter north of the previous defined mineralized gneiss zone.

Observed structures like shape and dip of the mineralized fold lens, may indicate potential structural continuation of the Be-ore zone to the depth further eastwards. The potential for further ore in this area seems promising.

Oslo june 2014,

Kjell S. Nilsen
Exploration manager.

**CERTIFICATE
OF
ANALYSIS**

CLIENT: EMC Metals Corp

ADDRESS: Tardi
2200 Del Monte Lane,
Reno,
NV 89511
USA

INVOICE: Same

P.O. NO.: None

ATTN: Williem P C Duyvesteyn

CLIENT REF.: H1 - H40

LAB. BATCH NO.: 11H249

NO. SAMPLES: 40

SAMPLE TYPE: Soil

Disclaimer: The results contained in this Certificate of Analysis relate only to the items tested/ analysed
Notes/Comments:

| LAB NO. | SAMPLE NO. | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm |
|---------|------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|
| 1 | H1 | <.5 | 6,92 | <.5 | 315 | 2 | <.5 | 1,19 | <.1 | 78 |
| REP 1 | H1 | <.5 | 6,91 | <.5 | 318 | 2 | <.5 | 1,16 | <.1 | 79 |
| 2 | H2 | <.5 | 8,65 | <.5 | 950 | 4 | <.5 | 0,79 | <.1 | 24 |
| 3 | H3 | <.5 | 8,32 | <.5 | 884 | 18 | <.5 | 0,57 | <.1 | 7 |
| 4 | H4 | <.5 | 7,01 | <.5 | 204 | 9 | <.5 | 0,65 | <.1 | 113 |
| 5 | H5 | <.5 | 7,77 | <.5 | 78 | 31 | <.5 | 0,40 | <.1 | 143 |
| 6 | H6 | <.5 | 6,14 | <.5 | 145 | 7 | <.5 | 0,49 | <.1 | 62 |
| 7 | H7 | <.5 | 7,03 | <.5 | 149 | 8 | <.5 | 0,63 | <.1 | 131 |
| 8 | H8 | <.5 | 6,57 | 8 | 115 | 12 | <.5 | 0,47 | <.1 | 111 |
| 9 | H9 | <.5 | 6,63 | <.5 | 130 | 17 | <.5 | 0,49 | <.1 | 76 |
| 10 | H10 | 0,6 | 6,99 | 5 | 153 | 9 | <.5 | 0,69 | <.1 | 50 |
| 11 | H11 | 0,7 | 6,06 | <.5 | 141 | 8 | <.5 | 0,46 | <.1 | 85 |

| | | | | | | | | | | |
|--------|-----|-----|-------|----|-----|----|----|------|----|-----|
| REP 11 | H11 | 0,6 | 5,93 | <5 | 139 | 8 | <5 | 0,44 | <1 | 83 |
| 12 | H12 | <5 | 6,85 | <5 | 120 | 8 | <5 | 0,46 | <1 | 77 |
| 13 | H13 | <5 | 6,12 | <5 | 113 | 9 | <5 | 0,46 | <1 | 66 |
| 14 | H14 | <5 | 5,68 | <5 | 76 | 7 | <5 | 0,25 | <1 | 66 |
| 15 | H15 | 0,5 | 6,07 | <5 | 107 | 7 | <5 | 0,52 | <1 | 49 |
| 16 | H16 | 2,2 | 8,28 | <5 | 72 | 8 | <5 | 0,32 | <1 | 12 |
| 17 | H17 | <5 | 6,81 | <5 | 97 | 10 | <5 | 0,47 | <1 | 46 |
| 18 | H18 | <5 | 6,61 | <5 | 141 | 11 | <5 | 0,70 | <1 | 60 |
| 19 | H19 | 1,1 | 7,63 | <5 | 176 | 13 | <5 | 0,54 | <1 | 149 |
| 20 | H20 | <5 | 6,44 | <5 | 29 | 7 | <5 | 0,07 | <1 | 609 |
| 21 | H21 | 1,4 | 7,36 | <5 | 68 | 7 | <5 | 0,15 | <1 | 701 |
| REP 21 | H21 | 0,8 | 7,78 | <5 | 67 | 7 | <5 | 0,15 | <1 | 726 |
| 22 | H22 | 0,7 | 7,07 | <5 | 65 | 8 | <5 | 0,15 | <1 | 877 |
| 23 | H23 | <5 | 6,08 | <5 | 135 | 9 | <5 | 0,58 | <1 | 86 |
| 24 | H24 | <5 | 5,88 | 5 | 163 | 8 | <5 | 0,61 | <1 | 99 |
| 25 | H25 | <5 | 5,44 | <5 | 127 | 19 | <5 | 0,50 | <1 | 117 |
| 26 | H26 | <5 | 6,25 | 6 | 195 | 9 | <5 | 0,92 | <1 | 105 |
| 27 | H27 | <5 | 6,41 | <5 | 185 | 6 | <5 | 1,12 | <1 | 147 |
| 28 | H28 | <5 | 6,94 | <5 | 150 | 12 | <5 | 0,80 | <1 | 124 |
| 29 | H29 | <5 | 6,79 | <5 | 162 | 12 | <5 | 0,84 | <1 | 138 |
| 30 | H30 | <5 | 7,11 | <5 | 153 | 11 | <5 | 0,84 | <1 | 134 |
| 31 | H31 | <5 | 6,50 | <5 | 151 | 9 | <5 | 0,57 | <1 | 89 |
| REP 31 | H31 | <5 | 6,40 | <5 | 150 | 9 | <5 | 0,55 | <1 | 85 |
| 32 | H32 | <5 | 7,14 | <5 | 660 | 3 | <5 | 1,00 | <1 | 385 |
| 33 | H33 | <5 | 8,56 | <5 | 631 | 4 | <5 | 1,28 | <1 | 105 |
| 34 | H34 | <5 | 7,44 | <5 | 622 | 4 | <5 | 1,52 | <1 | 105 |
| 35 | H35 | <5 | 7,15 | <5 | 579 | 4 | <5 | 1,59 | <1 | 171 |
| 36 | H36 | <5 | 10,61 | <5 | 272 | 3 | <5 | 1,34 | <1 | 129 |
| 37 | H37 | <5 | 7,35 | <5 | 587 | 4 | <5 | 1,41 | <1 | 30 |
| 38 | H38 | <5 | 6,83 | <5 | 347 | 4 | <5 | 1,84 | <1 | 70 |
| 39 | H39 | <5 | 7,28 | <5 | 372 | 3 | <5 | 2,12 | <1 | 151 |
| 40 | H40 | <5 | 7,02 | <5 | 469 | 4 | <5 | 1,34 | <1 | 61 |

Standards

| | | | | | | | | | |
|--|-------|-------|-------|------|-----|-----|-------|-----|-----|
| In-house Standard ICP-4 | 27,3 | 2,79 | 1266 | 321 | 20 | 33 | 14,88 | 19 | 187 |
| Standard SY-4 | <5 | 10,95 | <5 | 349 | 3 | <5 | 5,90 | <1 | 118 |
| Blank | <5 | <0,1 | <5 | <2 | <1 | <5 | <0,1 | <1 | <2 |
| Upper Calibration Limit | 500,0 | 12,50 | 20000 | 5000 | 500 | 500 | 12,50 | 500 | 500 |
| Assigned Value In-house Standard ICP-4 | 28,0 | 2,82 | 1245 | 600 | 22 | 30 | 15,50 | 18 | 175 |
| Recommended Value Standard SY-4 | | 10,95 | | 340 | 2 | | 5,75 | | 122 |

| LAB NO. | SAMPLE NO. | Ce ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Ge ppm | Hg ppm | K % |
|---------|------------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|--------|
| 1 | H1 | 78 | 4 | 41 | 17 | 5,47 | 16 | <2 | <1 | 1,04 |
| REP 1 | H1 | 79 | 4 | 41 | 17 | 5,56 | 17 | <2 | <1 | 1,03 |
| 2 | H2 | 24 | 1 | 62 | 5 | 1,88 | 25 | <2 | <1 | 4,05 |
| 3 | H3 | 7 | <1 | 6 | <2 | 0,86 | 20 | <2 | <1 | 3,92 |
| 4 | H4 | 113 | 2 | 30 | 7 | 4,17 | 43 | 16 | <1 | 2,90 |
| 5 | H5 | 143 | <1 | 5 | 5 | 1,75 | 36 | 15 | <1 | 3,20 |
| 6 | H6 | 62 | <1 | 20 | 3 | 2,50 | 36 | 15 | <1 | 2,44 |
| 7 | H7 | 131 | 2 | 27 | 6 | 4,38 | 39 | 19 | <1 | 2,82 |
| 8 | H8 | 111 | <1 | 37 | 8 | 3,76 | 38 | 28 | <1 | 2,83 |
| 9 | H9 | 76 | 1 | 58 | 7 | 3,25 | 39 | 19 | <1 | 2,78 |
| 10 | H10 | 50 | 1 | 25 | 5 | 3,00 | 38 | 23 | <1 | 2,79 |

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|--------|-----|-----|----|-----|----|------|----|----|----|------|
| 11 | H11 | 85 | <1 | 20 | 5 | 1,57 | 34 | 22 | <1 | 2,30 |
| REP 11 | H11 | 83 | <1 | 19 | 5 | 1,56 | 35 | 20 | <1 | 2,23 |
| 12 | H12 | 77 | 1 | 17 | 5 | 2,72 | 43 | 22 | <1 | 2,72 |
| 13 | H13 | 66 | 1 | 16 | 7 | 2,76 | 42 | 32 | <1 | 2,39 |
| 14 | H14 | 66 | <1 | 11 | 8 | 1,39 | 40 | 37 | <1 | 1,85 |
| 15 | H15 | 49 | 1 | 21 | 6 | 1,93 | 32 | 27 | <1 | 2,22 |
| 16 | H16 | 12 | <1 | 7 | 10 | 1,45 | 68 | 84 | <1 | 3,23 |
| 17 | H17 | 46 | 1 | 8 | 4 | 2,13 | 34 | 23 | <1 | 2,74 |
| 18 | H18 | 60 | 2 | 14 | 6 | 2,14 | 25 | 6 | <1 | 2,82 |
| 19 | H19 | 149 | 1 | 15 | 11 | 2,37 | 28 | 5 | <1 | 2,84 |
| 20 | H20 | 609 | <1 | 5 | 11 | 9,61 | 61 | 62 | <1 | 2,67 |
| 21 | H21 | 701 | <1 | 7 | 7 | 3,83 | 57 | 49 | <1 | 3,49 |
| REP 21 | H21 | 726 | <1 | 7 | 8 | 3,96 | 57 | 56 | <1 | 3,79 |
| 22 | H22 | 877 | <1 | 9 | 9 | 5,61 | 60 | 64 | <1 | 3,25 |
| 23 | H23 | 86 | <1 | 18 | 5 | 1,56 | 34 | 27 | <1 | 2,01 |
| 24 | H24 | 99 | 2 | 126 | 12 | 3,69 | 33 | 29 | <1 | 2,09 |
| 25 | H25 | 117 | <1 | 18 | 9 | 1,70 | 27 | 29 | <1 | 1,81 |
| 26 | H26 | 105 | 2 | 43 | 9 | 2,88 | 36 | 45 | <1 | 1,72 |
| 27 | H27 | 147 | 4 | 47 | 9 | 3,00 | 32 | 27 | <1 | 1,87 |
| 28 | H28 | 124 | 3 | 36 | 6 | 2,57 | 39 | 18 | <1 | 2,14 |
| 29 | H29 | 138 | 3 | 39 | 8 | 2,54 | 37 | 15 | <1 | 2,02 |
| 30 | H30 | 134 | 2 | 38 | 7 | 2,56 | 41 | 22 | <1 | 2,20 |
| 31 | H31 | 89 | 1 | 19 | 5 | 3,01 | 36 | 18 | <1 | 2,67 |
| REP 31 | H31 | 85 | 2 | 19 | 5 | 2,91 | 36 | 18 | <1 | 2,57 |
| 32 | H32 | 385 | 11 | 104 | 70 | 8,69 | 20 | <2 | <1 | 2,77 |
| 33 | H33 | 105 | 14 | 88 | 21 | 4,13 | 26 | <2 | <1 | 2,91 |
| 34 | H34 | 105 | 3 | 10 | 5 | 2,62 | 17 | 4 | <1 | 3,22 |
| 35 | H35 | 171 | 4 | 14 | 8 | 4,00 | 18 | 5 | <1 | 3,07 |
| 36 | H36 | 129 | 7 | 84 | 16 | 5,54 | 17 | <2 | <1 | 0,89 |
| 37 | H37 | 30 | 2 | 32 | 3 | 1,74 | 24 | 3 | <1 | 2,15 |
| 38 | H38 | 70 | 9 | 46 | 20 | 3,29 | 17 | <2 | <1 | 1,76 |
| 39 | H39 | 151 | 19 | 79 | 25 | 4,59 | 16 | <2 | <1 | 1,61 |
| 40 | H40 | 61 | 6 | 40 | 12 | 2,31 | 22 | <2 | <1 | 2,36 |

Standards

| | | | | | | | | | |
|--|-----|------|------|-------|-------|-----|-----|-----|-------|
| In-house Standard ICP-4 | 187 | 33 | 650 | 1891 | 5,17 | 25 | 22 | 7 | 0,57 |
| Standard SY-4 | 118 | 1 | 10 | 6 | 4,50 | 37 | <2 | 1 | 1,42 |
| Blank | <2 | <1 | <2 | <2 | <.01 | <5 | <2 | <1 | <.01 |
| Upper Calibration Limit | 500 | 2500 | 5000 | 20000 | 12,50 | 500 | 500 | 500 | 12,50 |
| Assigned Value In-house Standard ICP-4 | 175 | 33 | 550 | 1920 | 5,34 | 25 | 25 | | 0,58 |
| Recommended Value Standard SY-4 | 122 | | 12 | 7 | 4,34 | 35 | | | 1,38 |

| LAB NO. | SAMPLE NO. | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P % |
|---------|------------|-----------|-----------|---------|-----------|-----------|---------|-----------|-----------|--------|
| 1 | H1 | 40 | <2 | 0,59 | 454 | 2 | 1,40 | 13 | 8 | 0,103 |
| REP 1 | H1 | 39 | <2 | 0,60 | 435 | 1 | 1,38 | 13 | 8 | 0,106 |
| 2 | H2 | 19 | 5 | 0,51 | 305 | 4 | 1,60 | 19 | 2 | 0,052 |
| 3 | H3 | 6 | <2 | 0,09 | 228 | 4 | 3,64 | 20 | <1 | 0,009 |
| 4 | H4 | 57 | 8 | 0,45 | 380 | 26 | 2,72 | 118 | 5 | 0,028 |
| 5 | H5 | 73 | 37 | 0,21 | 321 | 5 | 4,10 | 107 | 1 | 0,015 |
| 6 | H6 | 36 | 12 | 0,28 | 255 | 1 | 2,50 | 92 | 3 | 0,032 |
| 7 | H7 | 54 | 44 | 0,69 | 431 | 2 | 2,59 | 133 | 7 | 0,040 |
| 8 | H8 | 64 | 18 | 0,33 | 378 | 3 | 3,02 | 164 | 5 | 0,029 |
| 9 | H9 | 39 | 27 | 0,41 | 371 | 4 | 2,79 | 137 | 6 | 0,036 |
| 10 | H10 | 26 | 12 | 0,43 | 320 | 18 | 2,93 | 149 | 4 | 0,021 |

| | | | | | | | | | | |
|--------|-----|-----|-----|------|------|----|------|-----|----|-------|
| 11 | H11 | 46 | 9 | 0,27 | 222 | 15 | 2,44 | 139 | 3 | 0,034 |
| REP 11 | H11 | 45 | 9 | 0,27 | 218 | 15 | 2,40 | 123 | 3 | 0,035 |
| 12 | H12 | 41 | 32 | 0,35 | 360 | 35 | 3,02 | 135 | 4 | 0,018 |
| 13 | H13 | 34 | 22 | 0,40 | 310 | 6 | 2,47 | 212 | 3 | 0,026 |
| 14 | H14 | 35 | 5 | 0,16 | 179 | 2 | 2,78 | 222 | 2 | 0,041 |
| 15 | H15 | 26 | 3 | 0,24 | 343 | 2 | 2,93 | 161 | 4 | 0,018 |
| 16 | H16 | 8 | 2 | 0,14 | 116 | 12 | 4,23 | 493 | 1 | 0,009 |
| 17 | H17 | 26 | 6 | 0,20 | 359 | 2 | 3,35 | 134 | 2 | 0,011 |
| 18 | H18 | 38 | 9 | 0,40 | 382 | 6 | 2,87 | 53 | 4 | 0,018 |
| 19 | H19 | 61 | 11 | 0,28 | 373 | 5 | 2,94 | 51 | 3 | 0,068 |
| 20 | H20 | 263 | 460 | 0,28 | 1640 | 3 | 2,58 | 375 | <1 | 0,028 |
| 21 | H21 | 309 | 237 | 0,13 | 786 | 15 | 3,54 | 269 | <1 | 0,016 |
| REP 21 | H21 | 326 | 234 | 0,13 | 784 | 15 | 3,83 | 318 | <1 | 0,015 |
| 22 | H22 | 375 | 215 | 0,19 | 827 | 15 | 3,28 | 362 | 2 | 0,014 |
| 23 | H23 | 36 | 14 | 0,26 | 358 | 3 | 2,71 | 168 | 2 | 0,034 |
| 24 | H24 | 58 | 9 | 0,47 | 393 | 8 | 2,44 | 170 | 11 | 0,046 |
| 25 | H25 | 45 | 5 | 0,29 | 248 | 3 | 2,30 | 203 | 4 | 0,042 |
| 26 | H26 | 53 | 10 | 0,61 | 368 | 14 | 2,35 | 287 | 8 | 0,041 |
| 27 | H27 | 74 | 5 | 0,67 | 413 | 15 | 2,36 | 166 | 10 | 0,034 |
| 28 | H28 | 86 | 11 | 0,59 | 348 | 56 | 2,83 | 129 | 7 | 0,031 |
| 29 | H29 | 99 | 12 | 0,61 | 361 | 56 | 2,65 | 121 | 8 | 0,035 |
| 30 | H30 | 87 | 12 | 0,59 | 347 | 54 | 2,87 | 150 | 7 | 0,033 |
| 31 | H31 | 39 | 25 | 0,43 | 336 | 2 | 2,77 | 113 | 4 | 0,026 |
| REP 31 | H31 | 38 | 23 | 0,42 | 321 | 1 | 2,67 | 113 | 5 | 0,026 |
| 32 | H32 | 140 | 20 | 1,18 | 926 | 8 | 1,53 | 18 | 22 | 0,186 |
| 33 | H33 | 54 | 19 | 1,67 | 634 | <1 | 1,82 | 21 | 33 | 0,060 |
| 34 | H34 | 57 | <2 | 0,41 | 486 | 3 | 2,96 | 33 | 4 | 0,095 |
| 35 | H35 | 92 | <2 | 0,44 | 657 | 4 | 2,76 | 41 | 5 | 0,112 |
| 36 | H36 | 49 | 8 | 0,88 | 503 | 2 | 1,13 | 16 | 15 | 0,128 |
| 37 | H37 | 19 | <2 | 0,46 | 486 | 3 | 2,52 | 22 | 5 | 0,027 |
| 38 | H38 | 31 | 4 | 0,89 | 795 | <1 | 2,03 | 19 | 18 | 0,118 |
| 39 | H39 | 40 | 8 | 1,30 | 1110 | 1 | 1,73 | 19 | 38 | 0,105 |
| 40 | H40 | 36 | 3 | 0,70 | 555 | 4 | 2,22 | 22 | 14 | 0,063 |

Standards

| | | | | | | | | | |
|--|-----|------|-------|-------|-----|-------|--------|------|-------|
| In-house Standard ICP-4 | 121 | 304 | 2,71 | 2161 | 83 | 0,31 | 96 | 387 | 0,113 |
| Standard SY-4 | 60 | 19 | 0,33 | 906 | 1 | 5,26 | 16 | 7 | 0,061 |
| Blank | <2 | <2 | <0.01 | <5 | <1 | <0.01 | <5 | <1 | <.001 |
| Upper Calibration Limit | 500 | 5000 | 12,50 | 50000 | 500 | 5,00 | 500 | 2500 | 5,000 |
| Assigned Value In-house Standard ICP-4 | 125 | 305 | 2,68 | 2275 | 87 | 0,31 | 70-140 | 385 | 0,117 |
| Recommended Value Standard SY-4 | 58 | 37 | 0,33 | 836 | | 5,27 | 16 | 9 | 0,057 |

| LAB NO. | SAMPLE NO. | Pb ppm | Rb ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm |
|---------|------------|-----------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | H1 | 20 | <50 | 0,04 | <5 | 11 | <10 | <5 | 156 | <2 |
| REP 1 | H1 | 20 | <50 | 0,04 | <5 | 11 | <10 | <5 | 154 | <2 |
| 2 | H2 | 29 | 226 | 0,07 | <5 | 13 | <10 | <5 | 126 | <2 |
| 3 | H3 | 57 | 173 | <0.01 | <5 | 3 | <10 | 8 | 157 | <2 |
| 4 | H4 | 112 | 282 | 0,05 | <5 | 5 | <10 | 23 | 78 | 3 |
| 5 | H5 | 53 | 346 | 0,01 | <5 | 4 | <10 | 31 | 54 | 4 |
| 6 | H6 | 95 | 263 | 0,06 | <5 | 6 | <10 | 22 | 59 | 3 |
| 7 | H7 | 123 | 369 | 0,06 | <5 | 10 | <10 | 36 | 56 | <2 |
| 8 | H8 | 131 | 346 | 0,04 | <5 | 5 | <10 | 30 | 49 | 3 |
| 9 | H9 | 115 | 375 | 0,05 | <5 | 5 | <10 | 27 | 55 | 4 |
| 10 | H10 | 95 | 322 | 0,03 | <5 | 6 | <10 | 20 | 72 | 6 |

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|--------|-----|-----|------|------|----|----|-----|----|-----|----|
| 11 | H11 | 107 | 253 | 0,09 | <5 | 6 | <10 | 26 | 54 | 5 |
| REP 11 | H11 | 106 | 251 | 0,09 | <5 | 6 | <10 | 25 | 54 | 5 |
| 12 | H12 | 95 | 376 | 0,03 | <5 | 4 | <10 | 24 | 51 | 6 |
| 13 | H13 | 75 | 467 | 0,06 | <5 | 5 | <10 | 40 | 45 | 8 |
| 14 | H14 | 64 | 314 | 0,10 | <5 | 3 | <10 | 30 | 28 | 13 |
| 15 | H15 | 66 | 325 | 0,03 | <5 | 4 | <10 | 18 | 57 | 8 |
| 16 | H16 | 89 | 712 | 0,01 | <5 | 2 | <10 | 56 | 22 | 28 |
| 17 | H17 | 69 | 305 | 0,02 | <5 | 4 | <10 | 17 | 49 | 6 |
| 18 | H18 | 93 | 216 | 0,01 | <5 | 5 | <10 | 12 | 77 | <2 |
| 19 | H19 | 198 | 230 | 0,06 | <5 | 6 | <10 | 13 | 67 | <2 |
| 20 | H20 | 355 | 810 | 0,04 | <5 | 1 | <10 | 36 | <2 | 6 |
| 21 | H21 | 141 | 780 | 0,02 | <5 | 2 | <10 | 40 | 18 | 16 |
| REP 21 | H21 | 144 | 813 | 0,02 | <5 | 2 | <10 | 41 | 17 | 16 |
| 22 | H22 | 579 | 1058 | 0,02 | <5 | 2 | <10 | 52 | 10 | 14 |
| 23 | H23 | 346 | 253 | 0,06 | <5 | 7 | <10 | 33 | 63 | 8 |
| 24 | H24 | 173 | 332 | 0,07 | <5 | 5 | <10 | 35 | 66 | 5 |
| 25 | H25 | 236 | 219 | 0,08 | <5 | 6 | <10 | 23 | 52 | 7 |
| 26 | H26 | 325 | 200 | 0,06 | <5 | 10 | <10 | 31 | 86 | 14 |
| 27 | H27 | 123 | 269 | 0,05 | <5 | 11 | <10 | 20 | 103 | 5 |
| 28 | H28 | 157 | 380 | 0,03 | <5 | 10 | <10 | 25 | 71 | 4 |
| 29 | H29 | 173 | 361 | 0,04 | <5 | 11 | <10 | 26 | 76 | 3 |
| 30 | H30 | 174 | 398 | 0,02 | <5 | 11 | <10 | 28 | 75 | 4 |
| 31 | H31 | 94 | 323 | 0,04 | <5 | 6 | <10 | 25 | 66 | 2 |
| REP 31 | H31 | 95 | 314 | 0,04 | <5 | 6 | <10 | 23 | 64 | 3 |
| 32 | H32 | 46 | 142 | 0,30 | <5 | 14 | <10 | <5 | 235 | <2 |
| 33 | H33 | 29 | 192 | 0,01 | <5 | 15 | <10 | 5 | 171 | <2 |
| 34 | H34 | 33 | 140 | 0,01 | <5 | 6 | <10 | <5 | 234 | <2 |
| 35 | H35 | 102 | 140 | 0,01 | <5 | 7 | <10 | 6 | 217 | <2 |
| 36 | H36 | 34 | <50 | 0,10 | <5 | 16 | <10 | <5 | 161 | <2 |
| 37 | H37 | 45 | 95 | 0,02 | <5 | 8 | <10 | 6 | 242 | <2 |
| 38 | H38 | 25 | 96 | <.01 | <5 | 12 | <10 | <5 | 199 | <2 |
| 39 | H39 | 26 | 90 | 0,01 | <5 | 15 | <10 | <5 | 224 | <2 |
| 40 | H40 | 31 | 124 | 0,02 | <5 | 9 | <10 | <5 | 191 | <2 |

Standards

| | | | | | | | | | |
|-------------------------|------|-----|------|-----|----|-----|----|------|-----|
| In-house Standard ICP-4 | 2002 | 212 | 5,69 | 881 | 22 | 17 | 28 | 286 | 146 |
| Standard SY-4 | 8 | 64 | 0,02 | <5 | <1 | <10 | 9 | 1249 | <2 |
| Blank | <3 | <50 | <.01 | <5 | <1 | <10 | <5 | <2 | <2 |

| | | | | | | | | | |
|-------------------------|-------|------|-------|-----|-----|-----|-----|------|-----|
| Upper Calibration Limit | 20000 | 5000 | 12,50 | 500 | 500 | 500 | 500 | 5000 | 500 |
|-------------------------|-------|------|-------|-----|-----|-----|-----|------|-----|

| | | | | | | | | | |
|--|------|-----|------|-----|-----|----|----|------|---------|
| Assigned Value In-house Standard ICP-4 | 2030 | 225 | 5,64 | 835 | 23 | 15 | 27 | 300 | 120-300 |
| Recommended Value Standard SY-4 | | 55 | | | 1,1 | | 7 | 1191 | 0,9 |

| LAB NO. | SAMPLE NO. | Te ppm | Th ppm | Ti ppm | Zr ppm | U ppm | V ppm | W ppm | Y ppm | Zn ppm |
|---------|------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|
| 1 | H1 | <5 | 16 | 4503 | 70 | <10 | 76 | <5 | 27 | 38 |
| REP 1 | H1 | 10 | 16 | 4552 | 74 | <10 | 76 | <5 | 27 | 34 |
| 2 | H2 | <5 | 11 | 4888 | 159 | <10 | 100 | <5 | 14 | 36 |
| 3 | H3 | <5 | 11 | 2849 | 309 | <10 | 25 | <5 | 8 | 13 |
| 4 | H4 | <5 | 33 | 4209 | 832 | 16 | 47 | <5 | 109 | 81 |
| 5 | H5 | <5 | 40 | 1948 | 1645 | <10 | 16 | <5 | 86 | 100 |
| 6 | H6 | <5 | 62 | 3874 | 1011 | 10 | 51 | <5 | 66 | 74 |
| 7 | H7 | <5 | 59 | 6018 | 1092 | <10 | 63 | <5 | 169 | 155 |
| 8 | H8 | <5 | 87 | 3346 | 1943 | 36 | 42 | <5 | 178 | 111 |
| 9 | H9 | <5 | 58 | 3209 | 1329 | 23 | 39 | <5 | 112 | 109 |
| 10 | H10 | <5 | 37 | 3563 | 1630 | 31 | 52 | <5 | 109 | 71 |

| | | | | | | | | | | |
|--------|-----|----|-----|------|------|-----|-----|----|-----|------|
| 11 | H11 | <5 | 60 | 3794 | 1514 | 27 | 44 | <5 | 116 | 51 |
| REP 11 | H11 | <5 | 59 | 3752 | 1454 | 16 | 44 | <5 | 106 | 50 |
| 12 | H12 | <5 | 77 | 3478 | 1383 | 19 | 38 | <5 | 96 | 166 |
| 13 | H13 | <5 | 45 | 4106 | 1678 | 22 | 46 | <5 | 122 | 83 |
| 14 | H14 | <5 | 58 | 3200 | 2469 | 39 | 25 | <5 | 200 | 49 |
| 15 | H15 | <5 | 30 | 3503 | 2063 | 15 | 33 | <5 | 138 | 53 |
| 16 | H16 | <5 | 25 | 2746 | 6008 | 80 | 23 | 5 | 339 | 42 |
| 17 | H17 | <5 | 27 | 2827 | 1409 | 12 | 24 | <5 | 114 | 104 |
| 18 | H18 | <5 | 28 | 3715 | 620 | <10 | 33 | <5 | 79 | 71 |
| 19 | H19 | <5 | 55 | 3749 | 704 | 38 | 38 | <5 | 217 | 68 |
| 20 | H20 | <5 | 110 | 4524 | 2415 | <10 | 14 | <5 | 95 | 1012 |
| 21 | H21 | <5 | 39 | 3393 | 3487 | 17 | 20 | <5 | 89 | 495 |
| REP 21 | H21 | <5 | 39 | 3302 | 3318 | 16 | 20 | <5 | 106 | 490 |
| 22 | H22 | <5 | 230 | 4458 | 3976 | 37 | 32 | <5 | 302 | 580 |
| 23 | H23 | 6 | 67 | 5302 | 1837 | 51 | 47 | <5 | 215 | 58 |
| 24 | H24 | <5 | 85 | 3131 | 2002 | 76 | 54 | <5 | 292 | 110 |
| 25 | H25 | <5 | 117 | 3466 | 2005 | 87 | 41 | <5 | 300 | 54 |
| 26 | H26 | <5 | 274 | 6105 | 2660 | 67 | 84 | <5 | 369 | 77 |
| 27 | H27 | <5 | 95 | 5526 | 1722 | 49 | 85 | <5 | 276 | 62 |
| 28 | H28 | <5 | 77 | 4501 | 1271 | 152 | 73 | <5 | 419 | 95 |
| 29 | H29 | <5 | 76 | 4714 | 1223 | 170 | 76 | <5 | 497 | 98 |
| 30 | H30 | <5 | 82 | 4850 | 1514 | 147 | 74 | <5 | 436 | 95 |
| 31 | H31 | <5 | 55 | 3767 | 1239 | 16 | 43 | <5 | 103 | 103 |
| REP 31 | H31 | <5 | 53 | 3565 | 1169 | <10 | 42 | <5 | 95 | 104 |
| 32 | H32 | <5 | 36 | 4850 | 90 | <10 | 93 | <5 | 50 | 94 |
| 33 | H33 | <5 | 19 | 4869 | 139 | <10 | 111 | <5 | 32 | 105 |
| 34 | H34 | <5 | 22 | 5431 | 228 | <10 | 46 | <5 | 48 | 40 |
| 35 | H35 | <5 | 39 | 7074 | 396 | <10 | 64 | <5 | 61 | 50 |
| 36 | H36 | <5 | 58 | 4130 | 62 | <10 | 77 | <5 | 32 | 65 |
| 37 | H37 | <5 | 10 | 6457 | 160 | <10 | 63 | <5 | 15 | 28 |
| 38 | H38 | 7 | 18 | 4369 | 130 | <10 | 68 | <5 | 35 | 55 |
| 39 | H39 | <5 | 24 | 4816 | 91 | <10 | 94 | <5 | 36 | 73 |
| 40 | H40 | <5 | 15 | 4844 | 184 | <10 | 63 | <5 | 23 | 46 |

Standards

| | | | | | | | | | |
|--|-----|-----|-------|-------|-----|-----|-----|-----|-------|
| In-house Standard ICP-4 | 22 | 18 | 5283 | 64 | 63 | 231 | 175 | 34 | 6291 |
| Standard SY-4 | <5 | 6 | 1786 | 59 | <10 | 6 | <5 | 126 | 113 |
| Blank | <5 | <5 | <10 | <1 | <10 | <2 | <5 | <1 | <2 |
| Upper Calibration Limit | 500 | 500 | 10000 | 5000 | 500 | 500 | 250 | 500 | 20000 |
| Assigned Value In-house Standard ICP-4 | 14 | 17 | 5610 | 60-80 | 80 | 230 | 180 | 34 | 6350 |
| Recommended Value Standard SY-4 | | 1,4 | 1721 | 517 | 0,8 | 8 | | 119 | 93 |