Crystal Data: Monoclinic. *Point Group*: 2/*m*. As striated, prismatic crystals to 0.4 mm elongated along [010] and displaying {100}, {001}, {102}, {102}, and {114}.

Physical Properties: *Cleavage*: Perfect on $\{001\}$, good on $\{100\}$. *Fracture*: Splintery. *Tenacity*: Brittle. Hardness = 2.5 D(meas.) = 2.85(2) D(calc.) = 2.851

Optical Properties: Transparent. *Color*: Blue. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (+). $\alpha = 1.600(2)$ $\beta = 1.616(2)$ $\gamma = 1.713(3)$ 2V(meas.) = 47(1)° 2V(calc.) = 46.3° *Orientation*: Z = b, $X \approx a$, $Y \approx c$. *Pleochroism*: X = very pale purple, Y = purple, Z = blue-green. *Absorption*: X << Y < Z. *Dispersion*: r > v, weak.

Cell Data: Space Group: $P2_1/c$. a = 9.6838(5) b = 5.75175(19) c = 17.6339(12) $\beta = 90.553(6)^{\circ}$ Z = 4

X-ray Powder Pattern: North Star mine, Mammoth, Tintic district, Juab County, Utah, USA. 8.77 (100), 4.248 (85), 4.824 (71), 2.419 (50), 1.8929 (48), 4.392 (43), 2.733 (39)

| Chemistry: | | (1) | (2) |
|------------|------------------|---------|--------|
| | MgO | 11.14 | 9.56 |
| | CuO | 18.59 | 18.87 |
| | Sb_2O_5 | 0.26 | |
| | TeO ₃ | 42.55 | 41.65 |
| | H_2O | [31.97] | 29.91 |
| | Total | 104.51 | 100.00 |

(1) North Star mine, Mammoth, Tintic district, Juab County, Utah, USA; average of 4 electron microprobe analyses supplemented by Raman spectroscopy, H₂O calculated from structure; corresponds to $(Mg_{1.01}Cu^{2+}_{0.93}Te^{6+}_{0.96}Sb^{5+}_{0.01})_{\Sigma=3.00}O_{12}H_{14,12}$. (2) $Cu^{2+}Mg[Te^{6+}O_4(OH)_2] \cdot 6H_2O$.

Polymorphism & Series: Dimorph of raisaite.

Occurrence: An oxidation-zone mineral in a hydrothermal polymetallic Au-Ag-Cu-Pb vein deposit in contact-metamorphosed dolomite.

Association: Barite, goldfieldite, malachite, quartz.

Distribution: From the North Star mine, Mammoth, Tintic district, Juab County, Utah, USA.

Name: The Greek "para" for "near" and the relation to its C2/c dimorph raisaite.

Type Material: National History Museum of Los Angeles County, Los Angeles, California, USA (67272).

References: (1) Kampf, A.R., R.M. Housley, and G.R. Rossman (2018) Pararaisaite, the dimorph of raisaite, from the North Star Mine, Tintic, Utah, USA. Can. Mineral., 56(5), 811-820. (2) (2020) Amer. Mineral., 105, 1115 (abs. ref. 1).