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Crystal Data: Monoclinic. Point Group: 2/m. Tabular subhedral crystals, showing $\{001\}$ and $\{010\}$, to 0.17 mm.

Physical Properties: Cleavage: Good on $\{001\}$. Tenacity: Brittle. Hardness = "Soft", probable. D(meas.) = n.d. D(calc.) = 6.96

Optical Properties: Transparent. Color: Pale greenish yellow. Streak: Pale greenish yellow. Luster: Vitreous.

Optical Class: Biaxial. n = [2.06-2.12]. $\alpha = \text{n.d.}$ $\beta = \text{n.d.}$ $\gamma = \text{n.d.}$ 2V(meas.) = n.d.

Cell Data: Space Group: $P2_1/c$. a = 6.760(4) b = 9.580(4) c = 10.931(4) $\beta = 105.53(5)^{\circ}$ Z = 4

X-ray Powder Pattern: Clear Creek claim, California, USA. 2.831 (100), 2.767 (100), 4.62 (90), 7.09 (70), 5.32 (40), 2.391 (40), 5.40 (30)

Chemistry:

	(1)	(2)
CO_2	n.d.	6.16
Hg_2O	84.65	87.54
${\rm H_2O}$	n.d.	6.30
Total		100.00

(1) Clear Creek claim, California, USA; by electron microprobe, presence of $(CO_3)^{2-}$, $(OH)^{1-}$, and H_2O confirmed by IR, overall composition determined by crystal-structure analysis; corresponds to $Hg_{2.92}(CO_3)_{1.01}(OH)_{0.90} \cdot 2.07H_2O$. (2) $Hg_3(CO_3)(OH) \cdot 2H_2O$.

Polymorphism & Series: Dimorphous with peterbaylissite.

Occurrence: Very rare, probably formed as an alteration product of cinnabar.

Association: Edoylerite, cinnabar.

Distribution: From the Clear Creek claim, near the Clear Creek mercury mine, New Idria district, San Benito Co., California, USA.

Name: For the Clear Creek mine, California, USA.

Type Material: Canadian Geological Survey, Ottawa, Canada, 68074.

References: (1) Roberts, A.C., L.A. Groat, M. Raudsepp, T.S. Ercit, R.C. Erd, E.A. Moffatt, and J.A.R. Sterling (2001) Clearcreekite, a new polymorph of $\mathrm{Hg_3^{1+}(CO_3)(OH) \cdot 2H_2O}$, from the Clear Creek claim, San Benito Co., California. Can. Mineral., 39, 779–784.