Crystal Data: Hexagonal. Point Group: 6/m 2/m 2/m. As plates and irregular grains to 5 mm.

Physical Properties: *Cleavage*: Perfect on $\{0001\}$. *Fracture*: Uneven. *Tenacity*: Brittle. Hardness = ~ 3 VHN = 111-167, 140.4 average (20 g load). D(meas.) = n.d. D(calc.) = 7.01

Optical Properties: Transparent. *Color*: Green or white; gray in reflected light. *Streak*: White. *Luster*: Adamantine.

Optical Class: Biaxial (-). n(calc.) = 2.00 White and blue internal reflections with yellowish tints in plane-polarized transmitted light. *Bireflectance*: Very weak. R: (470) 46.3, (546) 47.6, (589) 48.5, (650) 49.5

Cell Data: Space Group: $P6_3/mmc$. a = 5.2427(7) c = 40.624(6) Z = 2

X-ray Powder Pattern: Torr Works quarry, near Cranmore, Mendip Hills, Somerset, England. 3.390 (100), 2.544 (98), 2.625 (78), 3.206 (55), 3.581 (40), 4.308 (33), 2.119 (27)

Chemistry:	(1)	(2)	(3)
PbO	86.77	88.12	87.46
CO_2	[10.70]	[10.85]	10.78
H_2O	[1.75]	[1.78]	1.76
Total	99.22	100.75	100.00

(1) Torr Works quarry, near Cranmore, Mendip Hills, Somerset, England; average electron microprobe analysis supplemented by FTIR spectroscopy, H_2O calculated for charge balance, CO_2 calculated from stoichiometry; corresponds to $Pb_{8.00}C_{5.00}H_{4.00}O_{20}$. (2) Do., corresponds to $Pb_{8.00}C_{5.00}H_{4.00}O_{20}$. (3) $Pb_8O(OH)_4(CO_3)_5$.

Occurrence: In hydrothermal veins of remobilized components derived from older veins containing galena, fluorite, calcite and baryte, hosted by limestone.

Association: Plumbonacrite, cerussite, symesite, mereheadite, diaboleite, mimetite, calcite, aragonite, quartz, baryte.

Distribution: At Torr Works quarry ('Merehead quarry'), near Cranmore, Mendip Hills, Somerset, England.

Name: For the county of Somerset in South West England where the first specimens were collected.

Type Material: Department of Mineralogy, St. Petersburg State University, St. Petersburg, Russia (1/19661).

References: (1) Siidra, O.I., D.O. Nekrasova, R. Turner, A.N. Zaitsev, N.V. Chukanov, Y.S. Polekhovsky, J. Spratt, and M.S. Rumsey (2018) Somersetite, Pb₈O(OH)₄(CO₃)₅, a new complex hydrocerussite-related mineral from the Mendip Hills, England. Mineral. Mag., 82(5), 1211-1224. (2) (2019) Amer. Mineral., 104(5), 783-784 (abs. ref 1).