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To determine composition of the lithic manuport discussed in the article, XRD analyses were performed using a Rigaku D/Max II X-ray diffraction system. This was employed with a curved imaging plate and a molybdenum X-ray source with a 300 micron X-ray beam diameter and 5 minute sample run time. Results show the material is composed largely of dolomite with magnesium-rich calcite, with some iron and a minor amount of silica (Fig DR1). The lighter colored exterior surface is secondary material composed of kaolinite, montmorillonite, magnesium-rich variety of calcite, and halite (Fig DR2).
Figure DR2. XRD diagram showing the mineralogical composition of the manuport matrix. The object is composed of a version of dolomite termed ankerite (Ca,Mg,Fe,Mn (CO3)2) along with calcite (Mg,Ca (CO3) and quartz (SiO2).
Figure DR3. XRD diagram showing the mineralogical components of the surficial coating on the manuport. This light gray to light brown material is made of kaolinite (Al2 Si2O5 (OH)4), montmorillonite (Na (Al,Mg)2 Si4O10 (OH)2 (H2O)8), calcite (Ca(CO3)), quartz (SiO2) and halite (NaCl).