

**68845** – 4.6 grams

**68846** – 2.3 grams

**68847** – 2.8 grams

Uncertain Walnuts



Figure 1: Photo of 68845. 2.2 cm long



Figure 2: Photo of 68846. About 1 cm

### **Introduction**

68845 and its companions were sieved from a large soil collected at station 8, Apollo 16 – see section on 68840. They are coherent, grey, aphanitic rocks. Thin sections are not available at this time.

### **Chemistry**

The composition of these particles is reported as and average (Korotev 1994). They appear to be very feldspathic (table).

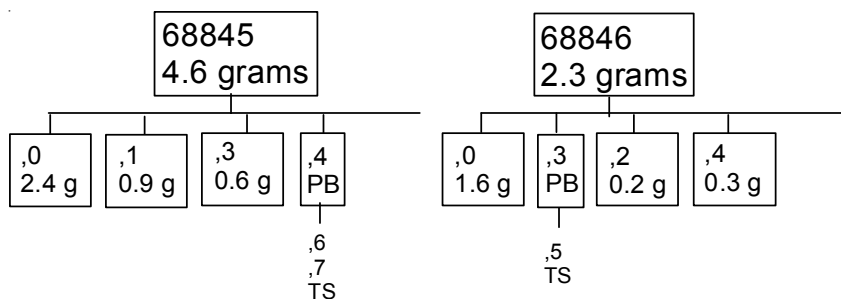
### **References for 68845, 46, 47**

Butler P. (1972a) Lunar Sample Information Catalog Apollo 16. Lunar Receiving Laboratory. MSC 03210 Curator's Catalog. pp. 370.

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Ryder G. and Norman M.D. (1980) Catalog of Apollo 16 rocks (3 vol.). Curator's Office pub. #52, JSC #16904

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**Table 1. Chemical composition of 68845.**

<i>reference</i>	Korotev94	
<i>weight</i>	M	
SiO <sub>2</sub> %		
TiO <sub>2</sub>		
Al <sub>2</sub> O <sub>3</sub>		
FeO	2.9	(a)
MnO		
MgO		
CaO	17.1	(a)
Na <sub>2</sub> O	0.533	(a)
K <sub>2</sub> O		
P <sub>2</sub> O <sub>5</sub>		
S %		
<i>sum</i>		
Sc ppm	5.4	(a)
V		
Cr	360	(a)
Co	6.9	(a)
Ni	43	(a)
Cu		
Zn		
Ga		
Ge ppb		
As		
Se		
Rb	0.9	(a)
Sr	192	(a)
Y		
Zr	35	(a)
Nb		
Mo		
Ru		
Rh		
Pd ppb		
Ag ppb		
Cd ppb		
In ppb		
Sn ppb		
Sb ppb		
Te ppb		
Cs ppm	0.04	(a)
Ba	42	(a)
La	2.37	(a)
Ce	6.1	(a)
Pr		
Nd	3.9	(a)
Sm	1.12	(a)
Eu	1.14	(a)
Gd		
Tb	0.23	(a)
Dy		
Ho		
Er		
Tm		
Yb	0.91	(a)
Lu	0.127	(a)
Hf	0.85	(a)
Ta	0.12	(a)
W ppb		
Re ppb		
Os ppb		
Ir ppb	2	(a)
Pt ppb		
Au ppb	1	(a)
Th ppm	0.37	(a)
U ppm	0.11	(a)
<i>technique:</i>	(a) mysterious average	