

This is the layout of the laboratory (fig. 31). It is divided into several major parts. We might start, here, with the spacecraft location. The green area is where the crew lives during this quarantine period. This is the sample laboratory area here and here is the vacuum system, and the Physical Science Laboratory and the Biological Laboratory. This is a specialized laboratory to do low level radiation counting, which you have to do within a short period after return to Earth. These offices here are administrative and support areas.

Now, the next slides show what happens here.

Here are our sample boxes, that we bring back to the lab (fig. 32). The first thing you will do is take a sample of the gas, if any, that is in the box; then we will take specially collected biological samples, the sterile samples I mentioned to you, and they will be sent to the biology labs for various tests to see if we have gotten any possible problems there. Certain of the samples will be kept under very high vacuum in sealed cans. After preliminary examination, and packaging, they will be shipped out to principal investigators.

The largest number of samples will go here. Some will be tapped off for gas analysis work, then preliminary examination, and from this you will take off pieces for further biological tests and for preliminary geochemical and mineralogical tests. Certain samples will go to the low level counting laboratory. Then these 50 or 100 outside investigators will receive samples.

We would intend to save the order of 40 percent, or so, of the samples for future use, and other purposes.

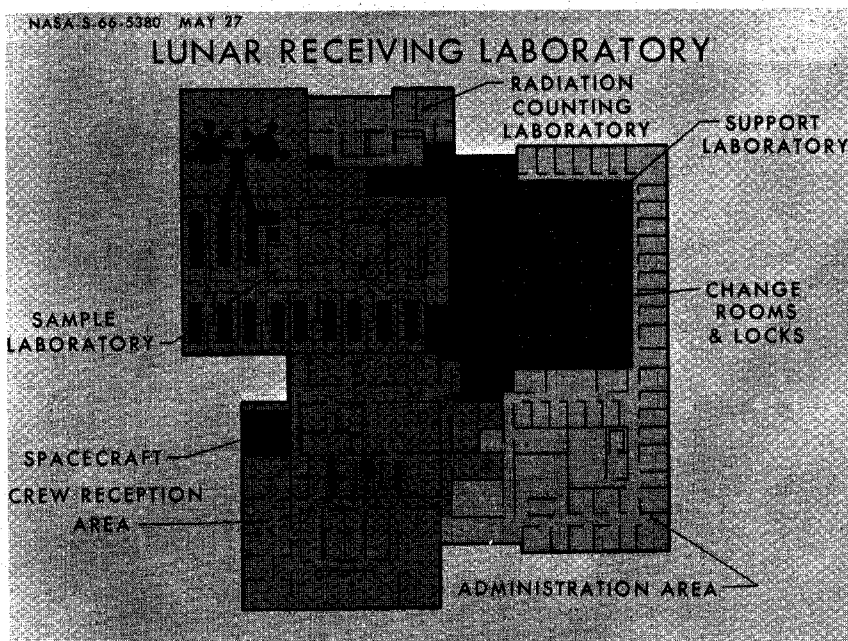


FIGURE 31