

SURVEYING-GAUGING-SAMPLING

CURTIS & TOMPKINS, LTD.

ANALYTICAL-CONSULTING-ENGINEERING
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236 FRONT STREET
BETWEEN CALIFORNIA & SACRAMENTO STS.
SAN FRANCISCO

December 22, 1936

Mr. John Schoolcraft
Office of the Treasurer
Mills College, California

Dear Sir:

CLAY ANALYSIS
CONC. #147474

We are enclosing report on the analysis and other tests on your sample of clay submitted November 25.

The chemical analysis and general characteristics of this material indicate it to be similar to that group of clays which are called "Fuller's Earth". The primary use of Fuller's Earth is as a bleaching medium for vegetable and mineral oils. As indicated, tests of the value of this clay for this purpose were carried out on cottonseed Oil.

The sample in question shows considerable decolorizing power but is not equal to the standard earth used for this purpose. The sample which was tested originally had a color of 7.0 red and bleached with a standard earth to 2.2 red, which is within the specification for a bleachable oil; 2.5 red being the limit. With your sample, the color obtained was not as good as desirable but it indicates that the earth does possess decolorizing properties. It is possible, however, that some variation exists in the quality of the clay over the deposit, in which case further tests from various locations might be of value. From the standpoints of acidity of the treated oil and amount of oil retained by the earth, the sample is quite satisfactory.

Aside from its use as a bleaching medium, this commodity has found application to a small degree in sundry soaps and toilet preparations, drugs, as a pigment carrier in cheap coloring material and as a water softener. For most of these uses, as well as a bleaching clay for that matter, the material is generally tested for its dependability by persons who use it in their products and its particular aptitude for any one purpose can be best determined in that way.

We trust the above information will be of assistance in your development of this deposit. If we can be of any further assistance, we shall be glad to hear from you.

Yours very truly,

CURTIS & TOMPKINS, LTD.

By *H. de Bussier*

HdeB/FL
Enc.