

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION

24 BLACKSTONE STREET • CAMBRIDGE, MASSACHUSETTS 02139 • (617) 876-3691

17 May 1974

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Cepovic
Margaret Rogers
Los Alamos Sci. Lab.
Group H-8
Mail Stop 522
Los Alamos, CA 87544

Dear Ms. Rogers:

Thank you for your call of May 16th. I have enclosed several pieces of literature which are pertinent to our discussion.

As I stated our usual format for groundwater dating has been to do C-14 (\$140) and C-13/C-12 (\$20) on the samples first. Given the assumption that I discussed we can then estimate the age and then decide whether to go ahead with tritium analysis. As you can see from the price sheet the cost of T analysis varies with the activity. If the water looks very young (e.g., if it contains bomb produced C-14 like your roots) then bomb T will be present and the tritium analysis will be simpler and cheaper. If the water looks very old (greater than about 1000 years) we will not recommend tritium at all. If the water falls inbetween in age then the tritium analysis will be more expensive.

As I indicated, a description of the sampling procedure for C-14 is enclosed. Any questions anyone may have, please feel free to contact me.

Analytical turn-around time runs typically 4 to 6 weeks for C-14, 2-4 weeks for separate sample C-13 or O-18 (aside from C-13 and O-18 done on same sample as for C-14 for which there is no added time) and 4-8 weeks for tritium analysis, dependent on level. Since our C-14 and T capacity are each about 40-50 samples per month, and since we do not like to report results until weekly standardizations are completed before and after a sample run, as well as other samples which may be in the works, it would be difficult to report out, in final form, more than 25 C-14 results before July 1, 1974, and probably no T analysis could be done so fast.

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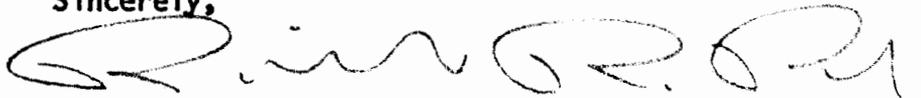
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In similar budgetary situations in the past we have made arrangements with various agencies to set up a non-interest bearing account for the expected amount of a bill and invoice that agency for the full amount before the contract deadline. If such an arrangement can be made it might facilitate the entire project and permit a more judicious selection of samples and analysis over a longer period of time based on results in-hand. Any payments made to such an account would, of course, be refunded if the analyses were not performed.

Sincerely,



Richard R. Pardi
Radiocarbon Manager

Encl:

cc: 1961 A 40th St.
Los Alamos 87544