To: Clarke C. Legg
From: A. L. Sangster.
Re: Organic Geochemical Samples.
Date: July 19/66.

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It has come to my attention that organic geochemical samples are not being processed by the Rae River geochemical lab. I feel this is a mistake as I know from experience that ~~the~~ results from analysis of organic samples can be useful if the organic nature of the sample is taken into account in interpretation. For example, I explored a known Pb-Zn anomaly 2 miles solely on results obtained from pure organic samples. This was in Newfoundland in country very similar to that in which we are now working.

I dont ~~know~~ know whether or not it is feasible to analyze organic samples in the A A unit. But I know they can be done ~~with~~ to a reasonable degree of success by conventional dithizone methods. I have done them myself in the field and have had commercial assays made on organic samples. Both worked fairly well and the results could be used. In ~~the~~ hot ~~extraction~~ + cold extraction procedures. ashing was not done.

I realize ~~of~~ that ~~organic~~ results organic material may tend to concentrate elements beyond their natural background that the results are more erratic than in soil analyses and probably cannot be contoured and that organic material affects dithizone stability but feel that a result from the analysis of organic material is better than no result at all.

In ~~the~~ area the present area (the M.C. groups) the most promising area is ~~underlain~~ overlain by a large peat bog which contains some limonite. If organic samples are not analyzed, we will wind up with a large hole on our geochemical map coinciding with the area of interest. Thus it would seem that the entire survey is next to useless without results of any kind on this area.

Similarly, the Pike groups ~~is~~ contains large swampy areas and in one instance, I suspect that the origin for of some lead, zinc, copper float lies under one of these swampy areas. Again, ~~organic~~ the analysis of organic samples in these areas might at least indicate the presence of Pb-Zn-Cu mineralization in the area regardless of the spuriousness of the results.

I would be interested in hearing your remarks on this subject

Respectfully yours

A. L. S