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MEMO

TO: Placer Moose Project Personnel

FROM: Don Spalinger

SUBJECT: Moose Nitrogen and Tannin Team: Project Schedule

The Nitrogen Analysis Team will begin work on Sept. 8 at 11:00 AM. We will meet with Derek Sjoström at that time, and get an introduction to the Elemental Analyzer (EA) in the Arctic Stable Isotope Lab. We will prepare samples collected from Nelchina Basin in July for N analysis, and run them through the EA at that time. The team will be trained at that time to use the freeze dryer for the preparation of samples, and be shown how to grind and prepare samples for N analysis. The team will be instructed on how to collect and treat forage samples in the field in preparation for N and tannin analysis.

On Sept. 22 and 23, we will meet and train on the use of the microplate technique for analysis of protein precipitating capacity (PPC) of tannins in the forages analyzed on Sept. 8 for N. On the 22nd, I will instruct the team on how to extract the forages on the ASE, and how to prep the samples for PPC analysis. On the 23rd, we will continue the analysis of the extracted samples, finishing the cleanup and protein determinations.

Following these demonstrations and practice sessions, I will have the team focus on the Placer samples, which will be collected on Oct. 6-8, and prepped for analysis in the following two weeks. The team will schedule and run both the N and PPC assays on these samples, and also run the samples from Juneau Creek collected in late Sept. The team will be requested to help collect field samples of forages during the Oct. 6-8 field trip, and will be responsible for the preparation of samples from the Juneau Creek field work. All samples will be run in duplicate, and coefficients of variation will be expected to be within 5% of the mean.