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INCOMING
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AGRONOMY & HORTICULTURE DEPARTMENT
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to:

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pages:

NOTES:

Priscilla,

Here are the Boron results you have been wanting. The first column is the hot water extracted B. The second column is the B from a saturated paste that is in the water extract. The third column is the B in a 1:1 paste. The fourth column is the B from a saturated paste calculated back to a soil basis. In the statistical analysis these four columns are listed as PROC for procedures. The procedures are listed as 1 through 4.

PROC #1 = hot water

PROC #2 = sat. paste, extract basis

PROC #3 = sat paste, soil basis

PROC #4 = 1:1

There is a significant difference between procedures as shown in table #1. Tables #2 and #3 show which means are different from each other. At the 10% level means 1,4,3 are different from 2. At the 5% level mean 3 is different from 2. There is also a histogram to show the relationships. Don't feel obligated to use my statistical analysis. I did it so as to see what differences exist. If you have any questions, let me know.

Bruce

Soil and Plant Analysis Lab
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Name: Plateau Mining Corp.
 Address: P.O. Box 30
 City, ST, ZIP: Helper, UT 84526
 Date: 12 March 2004

SOIL ID:

Customer Sample ID	Hot Water ppm B	ppm B-Sat. Paste Extract Basis	1:1 ppm B	ppm B-Sat. Paste Soil Basis
Pit 1	0.32	0.42	0.23	0.17
	0.30	0.41	0.23	0.17
	0.55	0.41	0.24	0.17
Pit 2	0.40	0.43	0.28	0.17
	0.44	0.43	0.29	0.17
	0.58	0.44	0.27	0.18
Pit 3	0.78	1.20	0.75	0.48
	0.78	1.36	0.73	0.55
	1.02	1.41	0.72	0.57
Pit 6	0.54	1.19	0.51	0.48
	0.70	1.18	0.50	0.47
	0.73	1.17	0.52	0.47
Sta 13+00	0.75	0.43	0.24	0.17
	0.86	0.42	0.23	0.17
	0.78	0.44	0.25	0.18
Sta 15+00	3.19	4.43	2.00	1.79
	3.25	4.41	2.43	1.78
	3.25	4.34	2.33	1.76
Sta 17+00	7.43	13.58	7.52	5.50
	8.42	13.47	7.44	5.45
	8.88	15.19	7.60	6.15
Sta 19+00	15.47	28.77	15.01	11.64
	17.05	27.40	14.32	11.09
	18.39	30.05	15.99	12.18
Sta 21+00	3.70	4.44	2.32	1.80
	3.65	4.20	2.26	1.70
	3.11	4.84	2.43	1.98

STATISTIA 7.1

BOKUN, 4/15/04, 10:40:01 AM

ANALYSIS OF VARIANCE TABLE FOR B

SOURCE	DF	SS	MS	F	P
PROC (A)	3	203.057	67.6856	416.53	0.0000
REP (B)	2	2.20054	1.10027	6.77	0.0289
A*B	6	0.97500	0.16250		
SAMP (C)	8	3429.46	428.682	1054.75	0.0000
B*C	16	6.50288	0.40643		
A*C	24	438.976	18.2907	214.76	0.0000
A*B*C	48	4.08798	0.08517		
TOTAL	107	4085.26			

#1

STATISTIA 7.1

LSD (T) COMPARISON OF MEANS OF B BY PROC

PROC	MEAN	HOMOGENEOUS GROUPS
2	6.1644	I
1	3.9000	I I
4	3.2459	.. I
3	2.4944	.. I

THERE ARE 2 GROUPS IN WHICH THE MEANS ARE
NOT SIGNIFICANTLY DIFFERENT FROM ONE ANOTHER.

CRITICAL T VALUE	1.660	REJECTION LEVEL	0.100
CRITICAL VALUE FOR COMPARISON	2.7597		
STANDARD ERROR FOR COMPARISON	1.6629		

#2

LSD (T) COMPARISON OF MEANS OF B BY PROC

PROC	MEAN	HOMOGENEOUS GROUPS
2	6.1644	I
1	3.9000	I I
4	3.2459	I I
3	2.4944	.. I

THERE ARE 2 GROUPS IN WHICH THE MEANS ARE NOT SIGNIFICANTLY DIFFERENT FROM ONE ANOTHER.

CRITICAL T VALUE	1.983	REJECTION LEVEL	0.050
CRITICAL VALUE FOR COMPARISON	3.2975		
STANDARD ERROR FOR COMPARISON	1.6629		

#3

Error Bar Chart with SD

