Table G.--Chemical analyses, in percent, of core samples submitted to three laboratories

[BM, U.S. Bureau of Mines; SL, Skyline Labs, Inc.; HTL, Herron Testing Laboratories, Inc.; n.d., not determined]

Sample No.	Ca			K			Mg			Na			Cl			SO_4			H_2O+			H_2O-			Water insoluble		
	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL	BM	SL	HTL
P-1/2	0.13	0.17	0.14	3.10	3.2	4.09	1.6	1.7	1.62	31.4	32.0	29.52	49.4	48.5	50.12	9.09	8.6	7.79	4.04	4.00	2.56	0.20	0.10	n.d.	1.60	1.5	2.17
P-1/5	.04	.04	.03	1.86	1.8	2.81	1.0	1.2	1.04	33.9	34.0	31.33	52.9	52.3	53.81	5.72	5.6	5.67	2.86	2.80	1.62	.14	.33	n.d.	1.80	1.9	2.55
P-1/9	.87	1.0	.75	3.72	3.8	4.47	2.0	2.3	2.06	29.9	30.0	28.09	45.8	45.3	46.74	14.80	14.7	15.02	2.83	2.80	1.70	.38	.11	n.d.	.11	.08	.52
P-1/14	.29	.36	.27	2.20	2.1	2.28	1.1	1.3	1.19	33.6	33.0	32.39	51.2	52.0	53.59	7.82	7.6	7.86	3.00	2.60	1.60	.20	.19	n.d.	.55	.55	.62
P-1/22	.17	.23	.17	1.20	1.1	2.25	.60	.72	.69	36.8	36.0	34.13	56.1	56.6	57.36	4.57	4.4	4.60	.26	.19	.19	.19	.12	n.d.	.20	1.7	.08
P-1/26	.44	.54	.41	1.98	2.0	2.91	.98	1.1	1.03	34.9	33.5	33.15	52.9	52.0	53.89	7.90	7.7	7.86	.28	.24	.21	.22	.07	n.d.	.18	.18	.15
P-2/2	.04	.04	.04	9.79	10.0	11.24	7.0	6.7	6.77	16.7	15.0	16.26	24.4	25.8	24.70	40.20	40.0	41.21	.76	.17	1.38	.24	.30	n.d.	.29	.30	.06
P-2/8	.53	.74	.47	6.14	6.0	6.14	3.8	3.7	3.70	25.4	23.5	24.55	38.3	39.9	39.82	23.70	24.0	25.08	1.33	.99	.82	.13	.70	n.d.	.65	.70	.43
P-2/13	2.30	2.6	1.97	2.34	2.4	4.32	.66	.82	.70	32.2	30.0	29.59	48.2	51.8	50.62	11.30	11.0	11.37	1.46	.13	.25	.19	.22	n.d.	.15	.22	.75
P-2/15	.05	.09	.05	8.78	8.9	9.62	5.0	5.5	5.21	19.6	18.0	18.35	28.8	31.9	29.65	33.80	33.5	34.00	1.13	.88	.64	.21	.04	n.d.	1.40	1.4	1.30
P-3/2	.73	.96	.67	1.48	1.6	4.35	.84	1.0	.99	33.6	31.5	29.35	51.7	53.2	51.52	7.12	7.2	8.16	1.70	1.5	1.22	.37	.33	n.d.	1.95	2.8	1.90
P-3/4	.20	.30	.19	5.82	5.5	5.97	3.8	3.5	3.42	27.0	24.2	25.50	39.7	42.4	41.84	22.00	22.0	21.61	.18	.23	.16	.16	.20	n.d.	.15	.2	.03
P-4/3	.27	.50	.26	15.20	15.0	15.03	.12	.15	.12	26.5	25.0	24.66	53.1	56.4	55.46	1.40	1.3	2.03	.26	.22	.22	.22	.27	n.d.	1.20	1.1	1.51
P-4/6	.49	.76	.42	5.56	5.4	6.24	.44	.54	.48	28.1	25.4	27.60	46.4	50.0	48.74	2.67	2.6	3.56	1.43	.84	1.11	.80	3.3	n.d.	10.60	10.6	13.33
P-5/3	.29	.51	.26	12.70	13.0	12.50	1.4	1.5	1.91	24.1	23.0	24.50	45.5	48.5	44.75	9.71	9.4	9.43	3.40	3.3	3.40	.09	.24	n.d.	2.30	2.5	2.79
P-5/8	.28	.46	.26	12.30	12.0	13.12	.36	.40	.68	24.6	23.5	23.48	48.3	51.0	49.38	1.73	1.5	1.93	1.41	.80	1.14	.61	1.8	n.d.	8.90	9.3	11.09
P-5/17	.20	.43	.18	1.52	1.6	1.49	.90	1.0	3.65	34.6	35.0	34.48	54.4	54.5	53.71	4.49	4.5	4.68	1.06	.85	1.14	.08	.26	n.d.	1.00	1.0	1.55
P-6/4	.03	.04	.04	4.43	4.1	3.95	1.6	1.8	1.55	22.8	22.0	21.24	35.9	35.8	33.35	10.4	9.7	9.17	4.64	.19	5.30	3.29	9.3	n.d.	16.20	16.0	18.01
P-6/8	.04	.06	.03	2.96	2.9	2.82	1.8	2.1	1.87	29.3	28.5	28.48	44.5	46.5	44.50	11.9	12.0	11.81	2.22	2.3	2.32	.33	.49	n.d.	5.50	5.8	6.32
P-6/12	.42	.76	.35	4.67	4.9	4.50	2.8	3.0	2.62	28.1	29.0	30.61	44.3	43.5	44.17	18.2	18.0	17.40	.24	.22	.29	.05	.04	n.d.	.75	.06	.07
P-6/18	.10	.14	.09	11.30	11.4	11.24	6.8	7.4	6.90	14.4	14.5	14.24	21.4	23.3	21.98	44.4	44.0	39.85	.30	.34	.34	.03	.03	n.d.	1.70	.25	.19
P-7/2	.15	.23	.15	6.26	6.4	6.50	3.9	4.1	3.67	25.7	25.5	24.37	39.2	40.0	38.97	23.8	24.0	22.30	.15	.12	.23	.04	.06	n.d.	.10	.14	.17
P-7/7	.04	.06	.05	6.15	6.1	5.81	3.7	3.9	3.56	22.3	22.0	21.25	34.2	35.0	34.87	21.9	22.0	21.28	4.76	4.28	4.95	.29	.96	n.d.	5.00	5.7	5.41
P-8/5	.17	.28	.15	1.92	2.1	1.92	.97	1.1	.97	34.6	35.0	34.36	54.4	54.0	54.38	6.30	6.2	6.60	.29	.32	.36	.05	.01	n.d.	.45	.45	.45
P-8/10	.06	.11	.06	8.42	8.4	8.18	5.8	5.9	5.12	19.6	19.0	18.24	28.8	29.0	28.30	32.7	33.0	29.00	1.64	1.7	1.76	.18	.20	n.d.	2.85	2.7	3.13
P-8/13	.15	.24	.14	.62	.56	.61	.42	.53	.42	34.0	33.0	32.49	52.4	56.5	52.99	1.81	1.9	2.60	.89	1.0	1.29	.45	.05	n.d.	6.60	6.3	7.84
P-9/2	.50	.24	.13	4.66	4.8	4.70	2.0	2.3	2.12	26.7	26.5	24.98	41.5	42.0	41.26	11.6	11.5	12.40	4.93	4.7	5.13	.22	.66	n.d.	6.60	7.0	7.89
P-9/10	.13	.20	.12	15.70	16.0	15.62	8.7	8.8	8.00	7.32	6.8	6.68	11.6	14.0	12.21	53.5	53.0	51.22	2.98	.70	.70	.44	.07	n.d.	1.00	1.2	6.57
P-9/17	.12	.20	.10	5.48	5.6	5.19	3.5	3.7	3.09	26.8	27.5	27.49	41.8	42.0	41.78	21.2	20.5	20.24	.19	.26	.31	.38	.06	n.d.	1.00	.2	1.86
P-11/5	n.d.	.05	.02	1.92	2.3	3.12	n.d.	1.4	1.46	n.d.	27.0	26.98	n.d.	48.0	45.76	n.d.	3.3	5.26	n.d.	2.9	1.64	n.d.	2.17	n.d.	n.d.	13.7	16.96
P-11/14	n.d.	.40	.27	11.56	12.0	12.87	n.d.	.10	.10	n.d.	30.0	29.74	n.d.	54.5	57.57	n.d.	1.3	2.50	n.d.	.09	.18	n.d.	.01	n.d.	n.d.	.11	.10
P-11/22	n.d.	.07	.05	11.66	13.0	12.25	n.d.	7.0	6.81	n.d.	14.5	14.75	n.d.	24.5	21.62	n.d.	44.0	44.04	n.d.	.09	.20	n.d.	.07	n.d.	n.d.	.30	.47
P-11/23	n.d.	.06	.02	8.76	9.2	9.50	n.d.	5.6	5.57	n.d.	19.0	19.50	n.d.	31.5	31.22	n.d.	33.5	34.63	n.d.	.11	.20	n.d.	.02	n.d.	n.d.	.38	.79
P-12/11	n.d.	.07	.03	.25	.28	.25	n.d.	.21	.20	n.d.	35.5	38.48	n.d.	58.5	56.95	n.d.	.31	.94	n.d.	1.0	.39	n.d.	.23	n.d.	n.d.	3.9	4.69
P-12/14	n.d.	.48	.25	8.25	8.6	7.25	n.d.	.16	.15	n.d.	31.5	33.49	n.d.	57.5	55.24	n.d.	1.4	2.30	n.d.	.24	.23	n.d.	.17	n.d.	n.d.	1.2	1.59
P-12/21	n.d.	.08	.04	18.8	20.5	18.99	n.d.	6.8	5.95	n.d.	8.5	9.50	n.d.	24.0	21.40	n.d.	40.0	39.96	n.d.	1.1	.63	n.d.	.03	n.d.	n.d.	1.4	1.48
P-12/35a	n.d.	.04	.01	14.4	16.5	16.50	n.d.	9.4	8.35	n.d.	7.0	8.00	n.d.	15.0	11.39	n.d.	55.5	54.17	n.d.	.23	.26	n.d.	.08	n.d.	n.d.	.56	.27
P-13/3	.15	.30	.14	6.48	6.4	6.37	3.8	4.0	3.56	24.9	24.0	24.50	37.7	38.5	40.33	23.5	23.5	13.23	1.41	1.4	1.53	.09	.09	n.d.	1.6	1.7	1.89
P-13/13	.17	.34	.15	3.81	4.0	4.13	2.9	3.1	2.84	28.8	29.0	29.38	43.5	42.0	44.60	18.9	18.5	19.37	1.06	1.1	1.18	.01	.04	n.d.	.08	.06	.41
P-13/14	.05	.07	.04	8.51	8.6	9.06	8.0	7.8	7.81	11.2	10.5	11.25	21.2	10.0	9.32	53.8	55.0	54.80	1.24	5.6	8.77	3.10	2.9	n.d.	.25	.10	.29
P-13/18	.01	.06	.03	11.00	11.2	10.80	7.0	6.4	6.44	14.3	14.5	12.99	9.1	22.0	20.61	41.9	42.0	39.93	8.19	.97	1.15	.12	.30	n.d.	2.8	3.0	4.67
P-13/21	.15	.26	.16	16.10	16.2	16.87	.10	.12	.11	26.2	26.5	25.31	54.0	53.5	54.88	.74	.44	1.31	.26	.15	.24	.08	.16	n.d.	.85	.85	1.16
P-13/32	.09	.26	.09	10.60	10.6	12.50	7.5	6.8	6.55	12.7	12.0	13.12	25.9	27.5	24.43	34.8	32.5	31.32	3.17	3.2	2.69	.11	.14	n.d.	.82	4.5	6.11
P-13/33	.74	1.1	.58	6.26	6.4	6.70	1.0	1.1	1.17	25.0	24.5	24.74	45.8	43.5	43.58	4.69	4.9	6.69	1.36	2.7	3.12	1.92	2.9	n.d.	11.3	11.5	13.68
P-14/2	n.d.	.06	.55	30.7	30.0	29.49	n.d.	.04	.04	n.d.	16.0	15.87	n.d.	53.5	51.45	n.d.	.23	2.23	n.d.	.07	.09	n.d.	<.01	n.d.	n.d.	.16	.20
P-14/4	n.d.	.38	.26	11.1	10.8	12.37	n.d.	2.6	2.11	n.d.	25.0	23.24	n.d.	45.0	43.87	n.d.	14.5	15.26	n.d.	.53	.38	n.d.	.10	n.d.	n.d.	1.0	1.53
P-14/10	n.d.	.72	.36	5.29	6.0	6.12	n.d.	2.7	2.29	n.d.	29.0	26.49	n.d.	47.0	45.52	n.d.	16.0	16.81	n.d.	.59	.42	n.d.	.00	n.d.	n.d.	.23	.82
P-14/11	n.d.	.44	.23	3.81	4.0	4.25	n.d.	2.3	1.97	n.d.	32.5	28.74	n.d.	48.0	48.38	n.d.	12.0	13.64	n.d.	.21	.27	n.d.	<.01	n.d.	n.d.	.44	1.58
P-14/20	n.d.	1.9	1.28	7.69	8.0	8.37	n.d.	.48	4.10	n.d.	22.0	21.00	n.d.	36.0	33.66	n.d.	29.5	29.74	n.d.	.36	.16	n.d.	<.01	n.d.	n.d.	.17	.40
P-16/6	n.d.	.05	.03	6.30	6.5	7.18	n.d.	3.9	3.82	n.d.	24.0	24.72	n.d.	35.0	37.23	n.d.	23.0	24.35	n.d.	5.6	2.93	n.d.	.12	n.d.	n.d.	1.2	1.68
P-16/7	n.d.	.49	.33	1.30	1.1	1.44	n.d.	.83	.82	n.d.	26.5	29.21	n.d.	45.5	43.41	n.d.	3.0	4.59	n.d.	1.6	.89	n.d.	4.2	n.d.	n.d.	15.0	19.57
P-16/10	n.d.	.02	.008	11.80	11.0	13.00	n.d.	6.8	6.82	n.d.	14.0	14.12	n.d.	22.5	22.04	n.d.	43.5	42.86	n.d.	.39	.34	n.d.	.13	n.d.	n.d.	.83	1.12
P-16/19	n.d.	.10	.06	8.61	8.8	9.56	n.d.	5.6	5.37	n.d.	20.0	20.74	n.d.	31.5	30.30	n.d.	34.0	33.93	n.d.	.44	.31	n.d.	.09	n.d.	n.d.	.35	.70
P-17/4	n.d.	.39	.21	8.96	9.5	9.87	n.d.	3.8	3.95	n.d.	17.0	19.49	n.d.	27.5	30.75	n.d.	25.0	27.93	n.d.	9.4	3.95	n.d.	1.1	n.d.	n.d.	4.9	5.76
P-17/8	n.d.	.04	.02	8.62	8.6	9.87	n.d.	4.7	4.67	n.d.	19.0	20.74	n.d.	31.0	24.39	n.d.	28.0	30.20	n.d.	2.2	.84	n.d.	.33	n.d.	n.d.	2.9	3.11
P-17/12	n.d.	.57	.28	3.22	3.6	3.50	n.d.	1.9	1.81	n.d.	29.0	32.24	n.d.	48.5	49.82	n.d.	11.5	12.47	n.d.	.43	.40	n.d.	.05	n.d.	n.d.	.13	.18
P-17/15	n.d.	.63	.32	2.02	2.4	2.12	n.d.	.98	.99	n.d.	30.0	31.72	n.d.	50.0	50.37	n.d.	5.8	6.97	n.d.	2.0	.11	n.d.	.28	n.d.	n.d.	5.2	6.71
P-18/4	n.d.	.46	.24	4.73	5.3	4.81	n.d.	.26	.26	n.d.	34.0	36.50	n.d.	55.5	57.86	n.d.	1.9	2.80	n.d.	.19	.15	n.d.	.04	n.d.	n.d.	.23	.29
P-19/3	n.d.	1.2	.74	4.18	4.9	4.69	n.d.	2.2	1.98	n.d.	28.5	28.25	n.d.	43.0	44.56	n.d.	12.2	13.69	n.d.	3.0	.19	n.d.	.29	n.d.	n.d.	4.1	4.79
P-19/5	n.d.	.88	.53	.75	.88	.74	n.d.	.37	.28	n.d.	38.0	37.99	n.d.	54.5	56.60	n.d.	2.3	4.14	n.d.	.31	.33	n.d.	.10	n.d.	n.d.	1.2	1.14
P-19/11	n.d.	1.7	1.08	5.04	5.7	5.09	n.d.	1.9	1.87	n.d.	24.5	26.97	n.d.	40.0	41.22	n.d.	12.0	14.36	n.d.	3.0	.20	n.d.	.83	n.d.	n.d.	8.3	9.93
P-19/17	n.d.	.90	.56	.66	.72	.63	n.d.	.36	.33	n.d.	35.5	37.49	n.d.	57.0	55.38	n.d.	3.2	3.65	n.d.	.40	.26	n.d.	.20	n.d.	n.d.	.97	1.03
P-19/26	n.d.	.71	.41	4.58	5.4	4.44	n.d.	4.1	3.37	n.d.	24.0	24.75	n.d.	41.0	37.22	n.d.	22.5	20.98	n.d.	.10	.20	n.d.	.06	n.d.	n.d.	3.7	7.99
P-20/5	n.d.	.40	.19	15.3	14.0	16.37	n.d.	.23	.19	n.d.	23.5	25.75	n.d.	52.5	53.66	n.d.	.95	1.92	n.d.	.18	.44	n.d.	.45	n.d.	n.d.	4.1	4.70
P-20/10	n.d.	.74	.33	8.29	8.8	8.62	n.d.	.50	4.75	n.d.	21.0	22.74	n.d.	32.0	32.37	n.d.	30.5	30.39	n.d.	.54	.55	n.d.	.19	n.d.	n.d.	1.5	1.79
P-20/16	n.d.	.17	.05	.25	.24	.28	n.d.	.32	.40	n.d.	34.0	35.74	n.d.	54.0	56.54	n.d.	.80	2.09	n.d.	1.1	.65	n.d.	.90	n.d.	n.d.	5.9	7.03
P-21/2	n.d.	.49	.22	8.59	9.8	9.50	n.d.	.36	.39	n.d.	32.0	31.23	n.d.	53.5	54.47	n.d.	1.3	1.93	n.d.	.52	.40	n.d.	.62	n.d.	n.d.	2.0	2.46
P-21/10	n.d.	.64	.31	3.81	4.0	4.00	n.d.	1.9	1.72	n.d.	31.0	32.74	n.d.	53.0	57.56	n.d.	1.6	2.22	n.d.	4.1	.29	n.d.	.40	n.d.	n.d.	.15	.30
P-21/15	n.d.	.05	.02	23.5	25.0	23.99	n.d.	.3	.04	n.d.	22.0	21.99	n.d.	53.5	53.73	n.d.	.13	.50	n.d.	.13	.21	n.d.	.05	n.d.	n.d.	.75	1.12
P-21/19	n.d.	.56	.40	5.34	5.8	5.43	n.d.	.15	.13	n.d.	34.0	36.98	n.d.	56.0	58.00	n.d.	.29	3.34	n.d.	.20	.19	n.d.	.07	n.d.	n.d.	.10	.14
P-21/31	n.d.	.43	.24	10.2	11.5	10.50	n.d.	6.7	5.90	n.d.	16.5	17.25	n.d.	28.0	25.43	n.d.	39.0	39.19	n.d.	.35	.28	n.d.	.07	n.d.	n.d.	.32	.12