Supplemental Item L. Geochemical data for lavas in the Colorado Creek Basin and dikes along the Denali fault, Alaska Range.

Rock Unit:		Colorado Creek volcanic rocks					Dikes along the Denali fault						
Sample:		062411JT3	062411JT4	062411JT5	062411JT6	062411JT7	JB10MUD	JB09MUD	JB15AMUD	JBAUG	02PETER	25PETER	02BAL
Latitude (^{o}N):		63.29566	63.31253	63.31346	63.31445	63.31595	63.2092	63.2054	63.2436	63.4349	63.1677	63.2056	63.6169
Longitude (^{o}W):		149.7302	149.73018	149.72993	149.73033	149.73285	150.8382	150.8519	150.6471	145.9843	151.1632	150.9151	146.8887
Geochem Lab*	Analytical Method#	ALS	ALS	ALS	ALS	ALS	ACT	ACT	ACT	ACT	ALS	ALS	ALS
SiO2	XRF	79.2	49.4	57.3	53.5	57.2	55.07	52.84	60.8	67.57	45.7	49.4	55
TiO2	XRF	0.11	1.56	0.89	1.03	0.89	1.918	0.619	0.749	0.375	2.71	2.24	1.27
Al2O3	XRF	13	13.6	13.6	15.85	16.9	14.79	14.47	17.54	15.49	14.95	14.65	16.75
Fe2O3	XRF	0.23	8.92	5.52	7.74	4.01	12.5	7.03	5.55	3.31	13.75	12.85	8.09
MnO	XRF	<0.01	0.13	0.12	0.12	0.05	0.225	0.146	0.106	0.072	0.25	0.21	0.1
MgO	XRF	0.07	5.41	4.76	2.08	2.33	2.35	8.14	2.54	1.06	4.27	3.98	4.06
CaO	XRF	0.08	7.24	4.75	8.33	4.47	6.07	8.55	6.32	3.6	9.13	7.57	4.83
Na2O	XRF	2.64	1.28	1.52	2.36	3.11	4.51	2.95	3.78	3.68	2.55	2.99	2.96
K2O	XRF	4.87	2.91	4.31	2.19	6.17	1.24	2.18	1.21	2.08	0.8	0.77	3.33
P2O5	XRF	0.02	0.79	0.49	0.37	0.55	0.86	0.15	0.24	0.19	0.92	0.46	0.4
LOI		1.35	8.64	7.29	6.32	3.72	1.31	2.14	0.93	0.64	3.56	4.59	1.87
Total		101.64	100.11	100.82	100.1	99.71	100.8	99.22	99.77	98.08	95.03	95.12	96.79
Sc	ICP-MSa	3	20	16	17	11	28	25	11	7	26	30	15
V	ICP-MSa	8	166	141	114	100	104	168	95	56	182	250	142
Cr	ICP-MSa	10	330	310	150	170	< 20	430	20	< 20	40	10	100
Co	ICP-MSa	<1	26	19	19	12	14	25	9	4	30	33	19
Ni	ICP-MSa	4	117	136	21	88	< 20	110	< 20	< 20	27	7	18
Cu	ICP-MSa	5	87	40	16	46	30	< 10	< 10	< 10	35	34	2
Zn	ICP-MSa	14	122	83	124	71	150	60	60	60	184	142	124
Ga	ICP-MSa	16.7	20.2	16.8	18	19.8	22	15	20	18	26.4	24.1	20.2
Rb	ICP-MSb	177.5	80.6	107.5	64.7	156	27	68	20	45	12	16.6	101
Sr	ICP-MSb	18.9	322	249	493	600	410	416	703	526	519	547	603
Y	ICP-MSb	23.3	39.2	18.6	21.5	15.9	38.5	11.9	13	11.6	48.8	38.2	21.3
Zr	ICP-MSb	120	283	142	158	194	244	58	97	126	298	218	194
Nb	ICP-MSa	20	23.9	11.7	11.8	15.4	14.8	4.7	6.1	7.4	24.2	10.3	16.2
Cs	ICP-MSb	1.39	3.08	2.21	1.78	4.09	1.1	0.6	0.9	1.4	0.62	0.87	3.71
Ba	ICP-MSb	614	1195	1705	1130	1850	719	249	506	1099	517	468	970
La	ICP-MSb	35.2	40.2	24	28.4	24.1	22.6	6.07	10.1	20.1	32.2	17.4	29.6
Ce	ICP-MSb	69.7	85.2	46.7	59.9	47	53.1	13.2	22.5	38.2	77	42.7	60.3
Pr	ICP-MSb	7.37	10.55	5.49	7.4	5.47	7.14	1.8	2.91	4.51	10.9	6.15	7.44
Nd	ICP-MSb	25.5	40.9	20.8	29.3	20.9	32.6	8.47	13.1	17.7	49.7	28.5	30.2
Sm	ICP-MSb	4.83	9.16	4.4	6.2	4.26	7.48	2.06	2.8	3.29	11.55	7.21	5.92
Eu	ICP-MSb	0.25	1.67	1.34	1.67	1.35	2.55	0.721	1.03	0.763	3	2.18	1.64
Gd	ICP-MSb	3.82	8.54	3.71	5.75	3.82	7.38	2.07	2.63	2.52	10.95	7.71	5.44
Tb	ICP-MSb	0.67	1.29	0.59	0.73	0.55	1.22	0.33	0.42	0.37	1.57	1.2	0.74
Ho	ICP-MSb	0.79	1.5	0.73	0.84	0.62	1.36	0.4	0.44	0.39	1.83	1.47	0.79
Tm	ICP-MSb	0.33	0.57	0.25	0.27	0.27	0.535	0.177	0.185	0.169	0.72	0.59	0.33
Yb	ICP-MSb	2.05	3.97	1.77	1.74	1.84	3.48	1.2	1.28	1.15	4.76	4.1	1.94
Lu	ICP-MSb	0.31	0.56	0.28	0.3	0.24	0.605	0.2	0.229	0.206	0.73	0.6	0.29
Hf	ICP-MSb	4.1	7	3.8	4.3	4.8	5.1	1.5	2.4	3.3	6.5	5.1	4.5
Ta	ICP-MSa	1.6	1.3	0.6	0.6	0.8	0.67	0.18	0.29	0.45	1	0.5	0.9
Pb	ICP-MSa	8	12	14	5	17	19	< 5	< 5	12	16	11	6
Th	ICP-MSa	24.2	11.6	5.77	5.97	8.25	3.29	1.35	1.7	5.18	2.35	1.69	6.54
U	ICP-MSa	5.22	5.31	2.8	2.66	4.01	1.32	0.49	0.64	2.19	0.94	1.33	2.39

ICP-MSa = samples prepared by acid dissolution; ICP-MSb = samples prepared by lithium metaborate fusion.

*ALS = ALS Global, Vancouver, British Columbia; ACT = Actlabs (Activation Laboratories, LTD), Ancaster, Ontario