

Table 2. **DRAFT** Whole rock geochemistry, Malin and Merrill quadrangles Sorted by unit. Major oxides are reported in weight percent; trace elements in ppm.

	CODE	Unit	STR	SiO2	TiO2	Al2O3	Fe2O3	FeO	MnO	MgO	CaO	Na2O	K2O	P2O5	LOI	Total	Fe2O3T	Rb	Sr	Y	Zr	V	Ni	Cr	Nb	Ga	Cu	Zn	Co	Ba	La	Ce	U	Th	Sc	Pb
KM-62	A	Ta		54.97	1.07	18.69	5.43	2.64	0.12	3.30	7.91	3.76	1.42	0.46	3.47	99.79	8.08	10.6	890	19	146	172	44	33	8.4	20.0	64	87	25	881	27.0	58.0	<0.5	1.4	19	8
KM-61	B	Ta		55.56	1.04	18.00	5.84	2.26	0.11	3.70	7.27	3.69	1.70	0.53	3.58	99.72	8.05	15.0	806	21	169	168	42	37	9.7	19.1	73	90	22	944	28.0	63.0	0.6	<0.5	19	8
KM-28	C	Ta		55.36	0.87	18.95	2.94	4.30	0.16	3.71	7.48	3.64	1.53	0.44	2.01	99.40	7.56	16.7	801	23	146	163	38	57	7.7	18.9	78	88	25	823	25.0	52.0	0.8	0.8	20	8
MJ00-03	D	Ta		51.62	1.13	17.59	4.07	4.71	0.16	4.64	7.75	3.69	1.61	0.64	1.82	99.43	9.30	16.1	782	24.0	116	198	52	85	9.4	18.1	80	92	31	939	19	46	0.8	1.2	21	6
MJ00-04	E	Ta		52.15	1.12	17.76	7.56	1.48	0.17	3.65	7.57	3.98	1.63	0.62	1.66	99.35	9.20	17.7	792	24.5	118	178	49	68	9.2	19.2	60	94	28	782	24	53	<0.5	<0.5	19	7
MJ00-22	F	Ta		53.76	1.01	17.42	3.80	4.07	0.14	3.71	6.77	3.90	2.31	0.68	2.06	99.63	8.32	29.2	733	25.3	196	158	37	57	12.5	19.1	62	88	22	1050	32	72	0.9	2.5	18	10
KM-22	G	Tba		52.06	1.25	18.25	3.95	5.30	0.16	4.73	8.17	3.74	1.22	0.50	1.42	99.33	9.70	12.0	692	28	151	191	59	37	8.6	19.5	65	80	30	711	22.0	45.0	<0.5	1.3	22	8
KM-76	H	Tba		52.17	1.22	18.49	4.44	4.86	0.16	4.80	8.18	3.73	1.12	0.44	1.27	99.63	9.72	10.5	714	28	153	188	69	75	8.9	20.6	75	91	32	520	20.0	47.0	<0.5	2.2	24	9
KM-81	I	Tba		52.74	1.21	17.72	4.06	5.23	0.16	4.97	7.88	3.72	1.36	0.47	1.17	99.52	9.76	14.4	666	25	142	207	61	66	8.0	20.3	81	84	30	651	20.0	45.0	<0.5	2	23	7
KM-82	J	Tba		52.55	1.14	17.77	3.58	5.50	0.16	5.40	8.32	3.55	1.25	0.44	1.19	99.67	9.57	13.9	632	24	141	197	67	123	7.7	19.4	66	80	29	552	18.0	42.0	0.8	<0.5	22	7
KM-38	K	Tba		52.67	1.13	18.13	3.60	5.14	0.15	4.81	8.24	3.74	1.29	0.41	1.42	99.31	9.18	12.2	698	23	129	201	58	51	7.5	19.7	86	81	28	591	19.0	43.0	0.5	<0.5	22	7
KM-90	L	Tba		52.71	1.06	18.00	4.38	4.58	0.18	4.96	8.42	3.51	1.18	0.42	1.38	99.40	9.34	13.5	638	26	142	199	68	126	7.5	19.1	76	81	28	705	19.0	44.0	<0.5	2.1	23	8
KM-77	M	Tba		52.76	1.13	18.44	3.11	5.67	0.16	4.68	8.32	3.78	1.08	0.45	1.66	99.58	9.26	7.2	671	31	162	185	60	84	8.6	20.1	30	86	27	730	22.0	54.0	0.9	2.6	24	9
KM-71	N	Tba		53.42	1.07	17.23	6.98	2.20	0.13	4.85	7.93	3.59	1.46	0.60	2.61	99.47	9.18	17.6	631	24	150	175	54	120	8.5	17.6	58	89	27	738	25.0	54.0	1	0.9	25	8
KM-85	O	Tba		53.18	1.08	17.48	4.70	4.26	0.15	5.00	8.29	3.44	1.26	0.60	2.68	99.47	9.19	14.5	657	24	153	182	49	116	8.7	17.6	71	89	28	719	26.0	54.0	<0.5	1.6	22	8
KM-23	P	Tba		53.13	1.20	17.50	2.69	6.25	0.16	4.81	7.93	3.48	1.61	0.58	2.15	99.37	9.43	18.0	621	34	184	183	52	100	10.6	18.7	67	90	27	856	35.0	64.0	<0.5	1.4	25	9
KM-30	Q	Tba		53.21	1.20	17.50	3.27	5.69	0.17	4.83	7.86	3.63	1.47	0.57	1.43	99.42	9.46	17.6	626	29	183	185	52	101	10.0	18.8	66	86	26	808	27.0	57.0	1.2	2.2	23	9
KM-41	R	Tba		52.87	1.11	17.60	4.37	4.70	0.15	5.24	8.16	3.55	1.13	0.41	1.09	99.30	9.49	13.5	629	24	144	193	67	122	7.7	19.0	72	83	30	560	19.0	41.0	0.6	<0.5	24	8
KM-103	S	Tba		53.18	1.05	17.62	2.30	6.36	0.16	5.49	8.24	3.49	1.30	0.39	0.97	99.60	9.28	15.2	623	24	143	190	62	126	7.6	18.9	72	80	28	574	20.0	43.0	1	1	22	7
KM-42	T	Tba		53.41	1.04	17.68	3.07	5.38	0.16	5.11	7.96	3.71	1.41	0.56	0.85	99.51	8.97	17.0	682	25	153	175	50	113	8.6	18.4	70	86	26	779	25.0	54.0	1.2	1.6	21	8
KM-13	U	Tba		53.29	1.10	17.68	3.55	5.23	0.16	5.04	8.07	3.60	1.34	0.42	0.97	99.49	9.27	15.7	625	24	149	189	57	106	8.3	18.7	53	81	28	656	21.0	48.0	<0.5	1.3	23	8
KM-86	V	Tba		53.12	1.15	17.82	4.66	4.28	0.14	4.46	8.32	3.57	1.30	0.58	2.45	99.42	9.19	13.1	671	25	153	187	42	97	8.7	18.3	66	85	26	804	25.0	52.0	0.8	<0.5	23	9
KM-104	W	Tba		52.85	1.07	17.86	3.22	5.51	0.17	5.11	8.20	3.65	1.26	0.41	1.09	99.32	9.24	14.1	640	24	150	185	65	107	7.7	19.2	71	81	31	585	21.0	44.0	0.8	0.8	24	8
KM-19	X	Tba		53.13	1.08	17.87	2.67	5.85	0.16	5.03	8.10	3.54	1.48	0.45	1.13	99.36	9.06	16.4	635	24	154	182	57	75	8.3	19.0	70	80	29	631	23.0	47.0	0.6	1.3	21	8
KM-24	Y	Tba		53.71	1.00	17.91	2.08	6.03	0.15	5.03	8.15	3.43	1.57	0.35	1.12	99.42	8.68	17.5	619	23	147	189	49	96	7.8	18.7	78	78	25	623	18.0	41.0	0.5	1.5	24	8
KM-20	Z	Tba		52.83	1.18	18.13	3.59	5.46	0.15	4.80	7.97	3.72	1.36	0.46	1.20	99.65	9.54	13.5	687	24	141	195	51	50	7.8	20.1	94	80	26	685	16.0	43.0	1.2	<0.5	22	7
KM-74	AA	Tba		49.97	1.21	18.33	5.46	4.59	0.17	5.72	9.36	3.38	0.70	0.41	1.51	99.31	10.40	5.3	659	27	116	211	109	129	7.4	19.6	93	85	40	455	11.7	31.0	0.8	1.5	31	5
KM-75	AB	Tba		50.19	1.28	18.43	5.51	4.74	0.17	5.22	8.94	3.54	0.86	0.49	1.23	99.37	10.64	6.5	676	30	142	207	94	135	8.7	20.0	63	90	35	575	18.9	43.0	0.7	2.1	24	7
KM-73	AC	Tba		50.16	1.27	17.91	3.53	6.34	0.17	6.39	8.97	3.55	0.77	0.41	0.69	99.49	10.51	7.0	638	28	120	207	104	114	7.3	20.1	83	79	38	429	11.5	30.0	0.7	1	25	5
KM-92	AD	Tba		51.00	1.37	17.49	6.03	4.31	0.16	5.76	8.09	3.61	1.07	0.51	2.32	99.43	10.57	10.8	588	29	145	201	75	102	8.3	18.8	54	91	35	495	16.0	40.0	0.8	0.6	26	8
MJ00-14	AE	Tbab		52.69	1.03	17.71	2.52	6.10	0.16	5.08	8.01	3.71	1.11	0.42	1.04	99.58	9.30	10.9	756	20.9	104	195	61	87	7.5	19.5	67	80	30	600	14	36	<0.5	1	21	6
MJ00-15	AF	Tbab		53.42	1.05	17.68	2.19	6.12	0.15	4.56	7.85	3.71	1.15	0.39	1.19	99.46	8.99	11.4	763	23.4	114	201	59	102	7.9	19.4	87	85	29	590	16	38	<0.5	2.6	20	6
MJ00-18	AG	Tbab		52.50	1.12	18.26	2.63	5.90	0.16	4.10	7.98	3.98	1.51	0.56	0.87	99.57	9.19	15.6	757	25.2	118	193	20	54	8.7	20.0	91	77	26	760	21	47	<0.5	1.1	22	7
MJ00-41	AH	Tbab		51.50	1.08	18.59	3.58	4.88	0.16	4.68	8.34	3.76	1.29	0.54	2.00	100.40	9.00	9.5	795	22.7	105	184	57	86	8.0	20.3	66	77	30	810	19	47	<0.5	1.3	20	6
KM-129b	AI	Tbap		55.56	0.75	18.69	3.37	3.91	0.13	4.28	7.95	3.59	0.96	0.19	1.47	99.40	7.60	12.8	836	19	115	155	51	81	6.2	19.4	44	72	25	424	11.0	29.0	0.8	0.8	22	7
KM-64	AJ	Tbap		55.61	0.74	19.00	3.23	3.58	0.13	4.27	7.79	3.68	1.07	0.20	1.37	99.32	7.11	12.9	859	17	108	152	58	67	6.3	18.9	56	69	26	528	10.7	29.0	0.9	1.4	20	5
KM-1	AK	Tbap		55.68	0.75	18.75	4.17	3.26	0.12	4.14	7.63	3.69	1.05	0.20	1.13	99.44	7.70	11.5	824	19	113	154	64	80	5.9	19.8	54	63	24	450	13.8	31.0	0.9	2.2	19	7
KM-68	AL	Tbap		56.40	0.75	18.76	2.57	4.23	0.12	4.41	7.80	3.60	1.27	0.20	2.30	100.11	7.10	14.8	800	15	103	159	49	73	4.6	18.1	68	69	23	492	12.0	34.0	<0.5	0.5	19	6
KM-3	AM	Tbap		57.27	0.78	18.26	2.24	4.30	0.12	4.01	7.15	3.73	1.29	0.32	1.22	99.48	6.94	15.3	751	21	133	147	47	73	7.2	19.6	60	76	25	571	14.0	36.0	0.9	2.4	19	8
KM-66	AN	Tbe		47.56	0.92	17.62	5.13	4.78	0.18	10.63	10.01	2.14	0.22	0.10	3.84	99.32	10.05	1.1	250	23	76	192	187													