MS 304305-103, Table T10. Major and volatile compositions and trace element compositions of rocks, Holes U1309B and U1309D.

Core, section, interval (cm)	Piece	Depth (mbsf)	Nebulizer*	Igneous unit	Lithology	Rock name	Major element oxides (wt%)											LOI (wt%)	Volatiles (wt%)		Trace elements (ppm)									
							SiO_2	Al_2O_3	Fe_2O_3	MgO	MnO	CaO	Na_2O	K_2O	P_2O_5	TiO_2	Total		CO_2	H_2O	Cr	Ni	Ba	Sr	V	Y	Zr	Sc	Co	Cu
304-1309B-																														
1R-3, 17–21	3	2.07	5	1	Ultramafic rubble		60.21	0.62	6.69	32.72	0.15	<0.06	0.07	<0.01	0.05	0.03	100.55	7.51	0.16	8.21	1940	2401	<21	<5	21	<1.5	<2	6.5	110	NA
1R-3, 114–116	14	3.04	5	2	Plagioclase-phyric basalt		48.63	15.63	10.16	7.89	0.13	11.27	2.96	0.04	0.08	1.53	98.33	0.92	0.06	1.73	154	<115	23.9	126	295	35.5	77.4	39.2	71	<14
2R-1, 88–92	8	16.38	1	6	Sparsely plagioclase-phyric basalt		49.42	13.31	14.23	7.13	0.16	9.88	2.95	0.06	0.05	2.03	99.21	0.96	0.18	2.00	142	<115	<21	108	329	59.0	161.2	43.3	174	NA
2R-2, 20–23	2B	17.1	5	9	Olivine-plagioclase-phyric basalt		50.76	14.10	10.82	8.80	0.18	11.20	2.53	0.05	0.07	1.52	100.03	1.17	0.05	1.70	219	132	<21	97	303	40.5	103.5	44.2	89	NA
3R-1, 60–63	9	20.6	2	14	Aphyric basalt		50.39	14.28	10.33	7.66	0.13	11.36	2.89	0.07	0.16	1.93	99.20	1.20	0.11	1.64	242	<115	<21	115	287	50.9	144.6	43.4	<32	NA
3R-1, 71–74	10	20.71	1	15	Basalt breccias		51.29	10.41	8.91	13.14	0.09	10.91	2.20	0.06	0.04	1.31	98.37	1.99	0.10	2.57	476	370	<21	97	273	30.6	75.6	32.0	54	NA
5R-1, 127–129	18	30.77	2	20	Oxide diabase		52.01	14.50	8.86	6.85	0.11	10.97	3.38	0.04	0.17	2.20	99.09	1.16	0.05	1.30	157	<115	<21	109	318	50.4	141.0	41.5	<32	NA
5R-2, 90–94	5	31.84	2	20	Oxide diabase		48.91	12.66	12.32	9.91	0.14	10.36	2.29	0.05	0.11	1.37	98.12	1.90	0.13	2.33	210	<115	<21	78	284	36.0	86.7	41.3	<32	NA
6R-1, 97–102	9	34.17	2	22	Oxide diabase		50.99	13.65	11.58	7.76	0.18	10.69	2.72	0.03	0.15	1.55	99.30	0.93	<0.04	1.33	224	<115	<21	93	304	41.9	124.4	38.5	<32	NA
8R-1, 115–118	13	44.15	2	28	Gabbro	Gabbro	53.52	15.71	5.83	9.85	0.11	14.02	2.26	0.04	<0.03	0.36	101.72	1.17	0.05	1.26	341	<115	<21	97	192	15.8	10.6	42.8	<32	NA
10R-1, 0–3	1	52.5	1	28	Gabbro	Gabbro	49.68	22.62	4.51	7.43	0.07	13.30	2.41	0.04	<0.03	0.19	100.26	1.00	<0.04	1.54	444	158	<21	123	71	6.3	17.8	14.7	35	NA
11R-1, 100–104	8	58	1	32	Harzburgite		45.51	0.81	10.10	44.54	0.10	0.42	<0.03	<0.01	0.04	0.02	101.56	10.35	0.19	11.46	2488	2461	<21	<5	42	<1.5	<2	10.1	125	NA
11R-2, 88–90	7	59.2	4	32	Harzburgite		44.30	0.88	9.17	45.57	0.10	0.20	<0.03	<0.01	0.04	<0.01	100.28	11.73	0.14	12.71	2602	2715	<21	<5	41	<1.5	<2	9.8	149	NA
12R-1, 126–131	8	62.86	4	34	Oxide diabase		50.10	14.05	12.76	7.32	0.14	10.74	3.08	0.04	0.06	1.97	100.26	1.24	0.04	1.47	<140	<115	<21	103	348	52.9	147.4	44.8	76	NA
13R-1, 120–125	9A	67.3	1	35	Microdiabase		49.54	13.86	12.58	7.76	0.15	10.57	2.98	0.04	0.04	1.92	99.45	0.88	<0.04	1.30	<140	<115	<21	102	352	44.9	110.1	43.9	110	NA
14R-1, 107–109	10	71.99	1	40	Plagioclase-phyric basalt		53.11	14.76	7.06	8.44	0.13	12.81	3.17	0.04	0.04	1.50	101.05	1.45	0.49	1.29	<140	<115	<21	125	308	35.3	90.0	41.8	70	NA
15R-2, 80–84	6B	77.68	1	46	Troctolitic gabbro	Olivine gabbro	47.48	24.17	4.30	10.81	0.05	12.64	1.48	0.05	<0.03	0.06	101.05	2.16	<0.04	3.10	173	473	<21	112	24	<1.5	<2	5.1	49	NA
16R-3, 20–26	1	83.08	1	50	Olivine gabbro	Olivine gabbro	47.34	21.16	5.95	11.16	0.07	12.59	1.63	0.03	<0.03	0.22	100.15	2.71	<0.04	2.70	489	215	<21	105	76	5.4	7.7	16.6	44	NA
17R-2, 5–9	1	86.39	1	53	Olivine gabbro	Olivine gabbro	48.04	22.53	4.82	9.32	0.06	13.21	1.79	0.03	<0.03	0.17	100.01	2.10	<0.04	2.13	320	168	<21	113	74	5.5	<2	17.1	<32	NA
18R-1, 20–23	4	89.8	1	54	Sparsely plagioclase-phyric basalt		50.75	15.05	11.20	8.44	0.18	10.38	2.85	0.05	0.05	1.59	100.54	1.41	0.06	1.91	198	<115	26.7	100	309	41.4	89.2	41.7	108	NA
18R-2, 35–38	4	91.36	1	56	Gabbro	Gabbro	51.27	17.05	5.79	10.08	0.10	14.03	2.09	0.02	<0.03	0.30	100.74	1.36	0.04	1.20	702	143	<21	98	164	8.6	13.6	40.3	63	NA
18R-3, 110–112	16	93.57	4	60	Basalt		50.91	13.81	13.92	6.59	0.17	10.08	3.39	0.06	0.10	2.23	101.25	0.82	<0.04	1.49	<140	<115	<21	116	385	59.1	151.0	47.3	73	<14
19R-2, 38–40	4	95.96	1	62	Oxide diabase		51.95	15.77	10.75	8.02	0.16	11.43	3.08	0.03	0.06	1.43	102.68	0.55	<0.04	1.15	<140	<115	<21	101	294	38.0	61.8	44.8	40	<14
20R-2, 72–74	5	101.02	1	62	Oxide diabase		51.42	13.48	14.39	6.35	0.21	10.02	3.14	0.04	0.11	2.18	101.33	–0.12	<0.04	0.93	<140	<115	37.8	108	390	62.3	174.8	47.0	77	<14
304-1309D-																														
1R-1, 32–37	1	20.82	1	1	Plagioclase-phyric diabase		49.69	15.20	12.33	8.47	0.20	10.23	2.67	0.05	0.10	1.68	100.62	–0.15	<0.04	1.08	254	<115	<21	92	312	43.7	105.0	43.6	59	NA
2R-1, 85–90	8	27.65	1	5	Diabase		50.12	13.97	12.42	8.04	0.16	11.07	2.77	0.04	0.12	2.02	100.73	0.37	0.04	0.79	215	<115	<21	89	344	48.9	124.9	42.4	65	<14
4R-1, 21–23	3	31.61	4	6	Fine-grained diabase		51.41	13.57	12.49	7.51	0.16	10.56	2.95	0.04	0.10	1.89	100.69	1.08	<0.04	0.90	<140	<115	<21	95	357	47.4	124.0	43.4	75	<14
4R-2, 112–113	18B	34.02	4	8	Cataclastic gabbro	Gabbro	53.40	20.79	3.79	6.56	0.05	11.41	3.66	0.11	0.04	0.49	100.29	1.55	<0.04	0.61	1082	242	21.0	166	93	70.8	97.2	15.5	44	<14
5R-2, 52–57	2B	37.93	1	9	Medium-grained troctolitic gabbro	Olivine gabbro	48.55	19.37	5.56	14.66	0.08	11.49	1.24	0.04	<0.03	0.19	101.20	4.29	<0.04	3.09	1190	515	<21	83	74	13.5	13.5	14.8	49	NA
5R-3, 114–118	12	40.01	4	9	Medium-grained troctolitic gabbro	Olivine gabbro	47.14	21.89	4.99	12.03	0.07	12.25	1.56	0.05	<0.03	0.12	100.12	2.50	<0.04	2.68	278	393	<21	104	36	28.4	22.4	8.2	33	<14
6R-1, 124–129	17A	42.04	1	11	Olivine gabbro	Olivine gabbro	49.47	19.54	5.36	12.41	0.07	12.29	1.53	0.11	0.05	0.22	101.04	2.36	<0.04	2.27	821	342	<21	122	97	9.9	10.8	21.1	<32	NA
6R-2, 70–73	8	43	4	12	Diabase		50.57	14.60	12.56	8.03	0.19	11.05	2.76	0.04	0.07	1.76	101.63	0.95	0.04	1.04	218	<115	<21	95	329	43.8	111.2	43.8	68	25
6R-3, 16–21	1	43.6	6	12	Medium-grained diabase		51.84	14.60	13.12	7.71	0.20	10.64	2.97	0.04	0.09	1.88	103.08	0.22	<0.04	0.90	147	<115	<21	101	349	51.1	110.2	44.2	67	<14
7R-2, 26–33	1	46.84	6	14	Medium-grained diabase		49.31	14.65	12.34	8.08	0.19	11.23	2.63	0.04	0.08	1.64	100.21	0.45	<0.04	0.91	210	<115	<21	91	327	37.9	97.3	42.4	70	<14
7R-3, 102–105	16	49.05	3	16	Medium-grained gabbro	Gabbro	53.38	19.64	5.14	7.49	0.06	11.18	3.53	0.10	<0.03	0.23	100.76	1.35	<0.04	1.03	859	170	<21	164	83	120.0	29.6	17.4	34	<14
8R-2, 123–129	15	53.19	6	19	Troctolitic gabbro	Troctolite	46.64	12.26	7.74	26.05	0.09	7.54	0.33	0.02	0.03	0.14	100.83	6.33	<0.04	5.55	1103	1038	<21	27	58	8.7	10.8	14.2	81	<14
9R-1, 37–42	6	55.67	6	22	Fine-grained diabase		50.57	13.78	14.17	7.05	0.22	10.42	2.98	0.04	0.12	2.05	101.41	1.19	<0.04	0.93	145	<115	<21	97	358	52.9	112.6	46.9	80	46
9R-1, 73–77	11	56.03	3	23	Medium-grained olivine gabbro	Olivine gabbro	50.67	20.06	4.92	9.66	0.08	14.10	1.91	0.04	<0.03	0.18	101.65	1.20	<0.04	1.31	1239	219	<21	113	108	9.7	7.9	25.5	35	<14
10R-1, 107–111	12B	61.27	6	28	Wehrlite	Ultramafic rocks	42.86	1.17	14.99	36.43	0.15	3.94	0.09	<0.01	0.07	0.21	99.92	7.47	1.14	7.03	2671	1242	<21	31	98	6.4	17.0	24.9	128	<14
11R-2, 38–43	2	66.67	3	34	Layered olivine gabbro and troctolite	Olivine gabbro	46.87	18.05	6.21	19.19	0.07	10.34	0.89	0.03	0.03	0.12	101.81	4.50	<0.04	4.91	479	667	<21	72	50	2.1	2.4	10.6	59	<14
12R-1, 62–64	6	70.42	3	34	Troctolite with olivine gabbro bands	Olivine gabbro	49.01	22.46	4.75	11.04	0.06	12.77	1.77	0.04	<0.03	0.10	102.01	3.93	0.05	2.68	340	235	<21	119	57	2.0	<2	13.6	37	<14
13R-1, 59–67	4	75.09	3	35	Coarse-grained gabbro	Gabbro	53.32	17.20	5.28	10.03	0.08	14.17	2.43	0.02	<0.03	0.31	102.83	0.95	<0.04	1.20	268	<115	<21	97	167	13.0	4.4	40.6	41	15
14R-1, 96–103	15	80.36	4	41	Alternating troctolite and olivine gabbro sequence	Olivine gabbro	46.93	24.84	4.93	10.19	0.05	12.71	2.01	0.04	<0.03	0.07	101.79	1.66	<0.04	2.42	<140	312	<21	130	19	3.5	6.5	2.9	38	<14
14R-2, 128–132	13	82.02	1	42	Basalt		50.53	13.57	11.49	6.89	0.15	10.82	3.54	0.05	0.14	2.58	99.76	0.23	0.07	1.84	<140	<115	<21	110	403	71.1	158.5	46.6	84	<14
15R-2, 125–131	12	86.85	1	44	Medium-grained diabase		51.40	14.98	12.07	8.12	0.18	11.32	2.78	0.03	0.09	1.59	102.55	–0.28	<0.04	1.04	147	<115	<21	91	293	43.4	100.0	41.5	56	<14
16R-2, 62–68	5	91.12	1	44	Medium-grained diabase		52.27	13.95	12.25	7.71	0.19	10.72	2.67	0.04	0.07	1.58	101.46	0.52	<0.04	0.79	147	<115	<21	95	308	41.2	103.1	43.5	61	48
16R-4, 90–92	6	93.83	1	44	Medium-grained diabase		50.71	13.85	13.97	6.73	0.20	9.64	3.28	0.05	0.11	2.28	100.83	0.74	<0.04	1.00	<140	<115	<21	108	378	60.4	145.6	45.8	81	<14
16R-4, 136–140	12	94.29	1	45	Basalt		50.55	12.83	15.83	5.74	0.20	9.50	3.67	0.04	0.13	2.55	101.04	–0.05	<0.04	0.56	<140	<115	<21	108	391	68.5	184.5	47.3	90	<14
16R-5, 18–26	2	94.57	4	47	Coarse-grained gabbro	Gabbro	49.18	17.23	6.00	11.95	0.09	14.33	1.75	0.05	<0.03	0.19	100.79	0.94	<0.04	1.83	711	247	<21	86	121	9.4	4.2	30.9	41	<14
17R-1, 60–66	5B	99.3	1	49	Coarse-grained olivine gabbro	Olivine gabbro	50.04	25.59	2.78	4.46	0.04	14.46	2.58	0.04	<0.03	0.15	100.15	0.19	0.05	0.55	304	<115	<21	134	58	3.8	9.4	13.2	<32	<14
20R-1, 70–73	8	117.8	1	52	Fine-grained diabase		48.82	15.59	10.34	10.39	0.19	11.47	2.17	0.04	0.07	1.13	100.22	0.63	<0.04	1.98	433	199	<21	94	236	30.1	68.2	38.2	64	<14
22R-3, 43–49	4	129.41	1	55	Medium-grained troctolitic gabbro	Olivine gabbro	47.79	26.37	2.83	8.26	0.04	14.21	1.51	0.03	<0.03	0.13	101.19	2.23	<0.04	1.36	1094	225	<21	106	48	2.6	6.7	11.9	<32	<14
23R-1, 79–84	15	131.79	1	57	Troctolite	Troctolite	47.93	26.86	3.27	8.92	0.05	14.02	1.63	0.03	<0.03	0.18	102.89	2.51	<0.04	1.69	1074	NA	<21	102	66	4.7	4.4	12.5	NA	<14
23R-2, 0–4	1	132.5	1	58	Dunite	Peridotites	42.92	1.87	12.45	42.52	0.10	0.76	<0.03	<0.01	0.05	0.06	100.74	12.35	0.49	10.89	3137	NA	<21	<5	57	1.9	6.7	13.8	NA	<14
23R-2, 95–97	11	133.45	1	58	Troctolite	Troctolite	45.29	17.42	5.23	24.08	0.10	9.89	0.55	0.13	0.05	0.06	102.80	5.10	0.09	5.52	1744	1268	<21	62	37	2.4	NA	9.0	84	180
25R-3, 24–31	2	145.79	1	62	Olivine-bearing gabbro	Gabbro	52.31	17.95	5.17	9.11	0.10	14.32	2.03	0.01	<0.03	0.22	101.23	1.52	<0.04	0.83	779	NA	<21	89	144	7.4	4.9	33.7	NA	80
26R-1, 15–26	4	147.75	1	63	Orthopyroxene-bearing gabbro	Orthopyroxene-bearing gabbro	52.97	17.45	4.39	10.36	0.08	15.73	2.07	0.01	<0.03	0.22	103.29	1.48	<0.04	0.90	1385	NA	<21	89	149	7.4	5.8	40.7	NA	<14
26R-2, 127–134	9	149.96	1	65	Olivine-bearing gabbro	Olivine gabbro	47.41	18.29	5.94	11.38	0.10	14.14	1.73	0.02	<0.03	0.20	99.25	1.69	<0.04	1.61	1182	NA	<21	82	125	6.8	5.3	31.8	NA	106
27R-1, 88–94	9	153.18	1	68	Olivine gabbro	Olivine gabbro	50.05	18.35	4.79	11.00	0.08	14.45	1.67	0.02	<0.03	0.20	100.64	1.50	<0.04	1.54	1401	240	<21	91	117	8.3	<15	29.8	42	NA
28R-2, 70–74	2	158.68	1	70	Olivine-bearing gabbro	Gabbro	50.71	23.47	2.87	5.00	0.05	13.40	3.11	0.02	<0.03	0.14	98.78	0.31	<0.04	0.61	152	NA	<21	133	71	6.3	2.9	16.3	NA	<14
28R-4, 27–33	4	161.2	1	71	Orthopyroxene-bearing gabbro	Orthopyroxene-bearing gabbro	51.78	15.57	6.34	12.19	0.12	12.29	2.12	0.01	<0.03	0.28	100.72	0.72	<0.04	0.95	206	NA	<21	80	171	9.2	6.8	43.1	NA	15
30R-1, 58–65	9	167.28	1	75	Layered gabbro	Olivine gabbro	48.52	22.82	5.01	7.58	0.07	13.20	2.32	0.03	0.04	0.17	99.76	2.55	<0.04	1.53	254	212	<21	115	64	4.3	<15	13.0	38	NA
31R-1, 25–28	6	171.75	1	77	Dunite	Peridotites	44.16	0.19	10.84	43.46	0.08	1.16	<0.03	<0.01	0.06	0.02	99.99	12.78	1.24	12.19	1009	3077	<21	6	20	1.7	<15	5.3	147	NA
31R-2, 11–17	2	173.07	1	79	Harzburgite	Peridotites	43.76	0.87	10.03	43.39	0.09	1.15	<0.03	<0.01	0.05	0.04	99.40	12.85	1.28	13.15	2603	2363	<21	32	52	<1.5	<15	12.4	104	NA
32R-2, 22–30	2	177.84	1	82	Olivine-bearing gabbro	Gabbro	51.72	16.08	5.43	11.14	0.10	14.97	1.91	0.02	<0.03	0.29	101.66	0.63	<0.04	0.76	712	127	<21	77	191	9.1	<15	47.6	38	NA
33R-2, 55–64	2B	183.1	1	87	Olivine-bearing gabbro and gabbro	Olivine gabbro	52.04	16.23	6.02	11.95	0.10	14.05	1.88	0.01	<0.03	0.27	102.56	1.29	<0.04	1.37	473	161	<21	75	160	7.6	<15	40.6	46	NA
33R-3, 21–26	3	184.12	1	87	Olivine-bearing gabbro and gabbro	Gabbro	50.87	16.61	5.49	11.47	0.10	13.62	1.89	0.02	<0.03	0.17	100.25	1.62	<0.04	1.86	395	157	<21	69	132	7.2	<15	36.2	48	NA
35R-1, 53–65	7	191.33	1	88	Oxide gabbro	Oxide gabbro	43.25	10.21	22.16	7.79	0.22	11.15	1.86	0.03	<0.03	4.14	100.84	–0.32	<0.04	0.70	<140	166	<21	66	1287	23.4	25.2	61.6	131	NA
36R-3, 80–82	7B	199.29	1	89	Leucocratic dike	Leucocratic dike	63.06	16.17	4.01	4.85	0.05	4.80	7.95	0.13	<0.03	0.38	101.41	1.61	<0.04	0.88	<140	<115	83.5	94	62	141.0	328.3	1.4	44	NA
36R-3, 98–106	10	199.47	1	89	Olivine-bearing gabbro and gabbro	Gabbro	51.41	16.83	6.08	11.46	0.10	12.28	2.21	0.02	0.03	0.24	100.67	0.85	<0.04	1.09	296	<115	<21	89	149	7.4	<15	35.0	40	NA
38R-1, 41–51	2	205.61	1	89	Olivine-bearing gabbro	Gabbro	53.54	15.20	7.41	10.73	0.11	12.19	2.21	0.03	<0.03	0.42	101.86	0.90	<0.04	0.91	304	119	<21	84	198	11.8	16.2	43.9	43	NA
39R-2, 22–30	3	211.72	1	92	Olivine gabbro	Olivine gabbro	49.44	19.83	5.13	12.29	0.08	13.46	1.52	0.02	<0.03	0.17	101.96	1.99	<0.04	2.02	1048	275	<21	89	91	5.9	<15	24.2	36	NA
41R-1, 116–124	10B	220.66	1	97	Alternating troctolitic and olivine gabbro	Olivine gabbro	50.16	24.66	4.55	9.03	0.07	13.13	1.97	0.03	0.04	0.20	103.84	2.14	0.05	1.69	255	296	<21	111	64	13.7	NA	12.6	43	44
44R-1, 22–29	1	233.42	1	100	Olivine gabbro	Olivine gabbro	50.71	19.24	5.67	10.58	0.09	13.54	1.84	0.05	<0.03	0.22	101.95	1.20	0.04	1.68	1049	236	<21	96	120	9.9	NA	28.3	45	<14
45R-3, 18–24	2	240.88	1	102	Olivine-bearing/oxide-bearing gabbro	Oxide gabbro	41.32	6.97	25.37	7.85	0.27	10.17	1.61	0.03	0.14	5.25	98.99	–0.28	<0.04	1.07	191	<115	<21	51	615	86.4	NA	61.8	134	<14
48R-1, 44–53	6	252.84	1	107	Gabbro with troctolitic bands	Gabbro	48.90	15.55	4.60	11.97	0.10	16.82	1.14	0.02	<0.03	0.28	99.41	0.84	0.05	0.90	3060	298	<21	54	166	6.2	NA	42.1	36	50
48R-1, 111–119	15	253.51	1	108	Gabbro with feldspathic infiltration	Gabbro	48.81	29.18	3.11	4.25	0.04	13.09	2.59	0.03	<0.03	0.10	101.21	0.88	0.09	1.09		<115	<21	132	26	1.6	NA	3.3	<32	<14
51R-2, 50–53	1A	268.33	1	118	Olivine-bearing gabbro	Olivine gabbro	46.50	17.56	7.75	12.93	0.12	11.04	1.80	0.03	0.04	0.23	98.00	2.68	<0.04	2.35	534	280	<21	81	111	8.4	NA	27.4	70	15
51R-4, 0–12	1	270.68	1	120	Gabbro	Gabbro	51.51	16.01	5.98	11.06	0.11	14.36	2.11	0.02	<0.03	0.31	101.47	1.14	<0.04	0.85	362	142	<21	86	187	13.1	NA	47.0	38	<14
53R-1, 52–59	7	276.92	1	122	Gabbro	Gabbro	52.88	17.01	5.63	10.61	0.11	14.77	2.18	0.02	<0.03	0.30	103.54	0.81	<0.04	0.97	734	154	<21	78	178	12.8	NA	45.2	35	54
54R-3, 58–66	3	284.47	1	128	Troctolite and olivine gabbro	Troctolite	45.48	9.72	9.21	29.63	0.13	7.80	0.20	0.07	0.05	0.10	102.39	7.36	0.09	8.45	2655	1338	<21	22	62	5.2	NA	18.4	118	99
54R-3, 82–85	4	284.71	1	128	Troctolite and olivine gabbro	Troctolite	40.71	8.02	10.37	36.76	0.15	2.78	0.09	0.02	0.04	0.02	98.97	9.58	0.13	10.58	2982	1624	<21	9	31	<1.5	NA	5.2	141	66
55R-3, 81–87	11	289.73	1	131	Olivine gabbro	Olivine gabbro	50.41	16.67	5.76	10.00	0.12	14.04	2.02	0.02	<0.03	0.33	99.37	0.75	<0.04	1.09	454	185	<21	74	164	16.2	NA	40.4	38	59
56R-2, 106–114	4B	292.96	1	134	Serpentinized troctolitic gabbro	Olivine gabbro	44.70	19.51	6.43	19.79	0.10	9.39	0.94	0.15	0.04	0.06	101.12	4.03	0.05	4.41	238	838	<21	69	24	<1.5	NA	5.5	80	43
56R-3, 93–100	9	294.27	1	136	Troctolite with pyroxene-rich domains	Ultramafic rocks	41.24	8.33	10.02	35.34	0.15	3.42	0.16	0.02	0.07	0.03	98.78	9.24	0.17	10.00	2422	1752	<21	16	28		NA	5.6	128	97
57R-2, 133–143	5A	298.31	1	137	Olivine-bearing gabbro	Olivine gabbro	53.29	13.76	5.71	13.28	0.13	15.76	1.59	0.01	0.03	0.31	103.87	0.82	<0.04	1.08	1149	242	<21	60	201	16.3	NA	53.2	<32	86
59R-3, 99–109	1A	308.99	1	146	Olivine-bearing gabbro	Gabbro	49.65	17.35	4.54	9.02	0.10	14.94	2.41	0.03	0.03	0.28	98.35	1.06	<0.04	0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
60R-2, 40–47	3	311.73	1	147	Wehrlite	Ultramafic rocks	42.59	4.69	11.01	41.45