

Table T1. Major and trace element analyses of whole-rock samples from Hole 1139A. (Continued on next three pages.)

Core, section, interval (cm)	Depth (mbsf)	Igneous unit	Sample description	Secondary minerals	Density (g/cm ³)
183-1139A-					
53R-1, 47-52	499.27	1D	Brown tuff, altered perlitic glass	Brown clay, FeOx	2.11
53R-2, 52-54	500.79	1D	Hydrothermal breccia	Dark green clay, FeOx	2.06
54R-1, 74-78	508.74	1E	Altered banded rhyolite in felsic welded tuff	Yellow clay	1.73
54R-1, 86-90	508.86	1E	Altered banded rhyolite in felsic tuff	Green clay, SiO ₂	2.14
54R-1, 93-96	508.93	1E	Silicified wallrock	Green-yellow clay, SiO ₂	2.52
54R-1, 102-106	509.02	1E	Hydrothermally altered tuff	Green clay, FeOx, Cc, zeo	1.84
55R-1, 22-26	517.82	2	Dark red vesicular welded trachyte	Red clay, FeOx, zeo	2.44
56R-1, 32-36	527.62	2	Dark red brown tephra	Red clay, FeOx	2.37
56R-2, 62-67	529.26	3	Dark green crustal vitric tuff	Green clay, SiO ₂ , zeo	1.59
56R-3, 111-116	531.25	3	Light green crystal vitric tuff	Green clay, SiO ₂ , zeo	1.56
57R-1, 13-20	537.03	3	Greenish brown crystal vitric tuff	Green clay, SiO ₂ , zeo	1.87
58R-1, 5-9 (Piece 1)	546.55	4	Red-brown welded vesicular trachyte	Red-brown clay, FeOx	2.38
60R-1, 37-42 (Piece 7)	565.97	4	Fine-grained breccia with red matrix and red-green clasts	Red-brown to green clay, FeOx	2.10
61R-1, 12-19 (Piece 1A)	575.32	5	Breccia with pink-green clasts in red matrix	Red-brown to green clay, FeOx	2.23
61R-1, 98-104 (Piece 1F)	576.18	5	Red-gray lava	Brown to pink clay, FeOx	2.19
61R-2, 84-92 (Piece 6)	577.46	5	Breccia with pale green clasts in red-black matrix	Green clay, FeOx	2.27
62R-3, 8-13	587.01	6	Breccia of brickred vesicular clasts in red-gray matrix	Red clay, FeOx	2.06
63R-1, 33-39 (Piece 7)	594.93	6	Light gray cryptocrystalline lava	Yellow clay, Cc	2.62
64R-2, 12-19 (Piece 2)	604.32	7	Dark brown brecciated lava	Brown clay, Cc	2.16
64R-4, 44-51 (Piece 3B)	609.08	8	Gray basalt	Brown clay, Cc	2.61
65R-1, 0-6 (Piece 1)	613.90	9	Gray vesicular lava	Brown to blue clay, Cc, FeOx	2.31
65R-1, 53-61 (Piece 4A)	614.43	9	Gray vesicular lava	Cc, sid	2.52
65R-2, 118-124 (Piece 3C)	616.38	10	Gray vesicular lava	Green clay, Cc, sid	2.35
66R-3, 85-90 (Piece 1D)	627.33	12	Gray basalt	Brown clay, Cc	2.40
66R-4, 65-70 (Piece 1)	628.57	13	Dark brown volcanic breccia	Brown clay, Cc	2.34
66R-5, 66-71 (Piece 1)	629.58	13	Pink-gray basalt	Brown clay, Cc	2.58
67R-5, 7-13 (Piece 1A)	638.17	14	Light gray basalt	Brown clay, Cc	2.59
68R-3, 37-41 (Piece 1)	645.88	15	Gray basalt with green breccia	Green clay Cc, FeOx	2.33
68R-3, 61-65 (Piece 1)	646.12	15	Green volcanic breccia	Green-brown clay, sid?	2.40
68R-7, 65-70 (Piece 1)	650.88	17	Red-brown breccia with pale matrix	Red-brown clay, FeOx, zeo, Cc	2.24
69R-1, 60-67 (Piece 4A)	652.60	17	Dark gray basalt	Brown clay, sid, Cc, FeOx	2.72
69R-2, 63-68 (Piece 5B)	654.13	17	Light gray basalt	Cc, sid	2.51
69R-2, 84-90 (Piece 5D)	654.34	17	Light gray basalt	Cc, sid, FeOx	2.67
70R-1, 54-60 (Piece 3B)	662.04	18	Dark red welded flowtop breccia	Red clay, FeOx	2.31
70R-2, 14-20 (Piece 1A)	662.86	18	Light gray feldspar-phyric breccia	Green clay	2.13
70R-2, 57-62 (Piece 1C)	663.29	18	Red-brown welded breccia	FeOx	2.22
70R-2, 68-74 (Piece 1E)	663.40	18	Pale green altered lava	Green to red clay, FeOx, Cc, sid	2.37
70R-2, 86-91 (Piece 1F)	663.58	18	Pale yellow-gray altered lava	Green clay, FeOx, sid	2.47
70R-2, 111-117 (Piece 1F)	663.83	18	Bleached, highly altered lava	Yellow clay, Ca, sid	2.31
70R-3, 102-108 (Piece 7)	665.24	18	Red, finely vesicular lava	Red-gray clay, Cc	2.38
70R-4, 54-60 (Piece 4)	665.05	18	Pink altered lava	Brown to pink clay, Cc, sid	2.28
70R-4, 70-76 (Piece 4B)	666.21	18	Bleached altered lava	Yellow clay, Cc	2.42
70R-4, 102-107 (Piece 5B)	666.53	18	Yellow-gray altered lava	Pink, gray, green clay, Cc	2.31
70R-5, 21-27 (Piece 1B)	667.00	18	Red vesicular lava	Pink, gray, green clay, Cc	2.23
71R-1, 20-25 (Piece 2B)	671.10	18	Yellow-gray altered feldspar-phyric lava	Yellow-brown clay	2.63
71R-1, 46-51 (Piece 2C)	671.36	18	Yellow-gray altered feldspar-phyric lava	Yellow-brown clay, FeOx	2.60
71R-2, 41-46 (Piece 1A)	672.26	18	Red-gray basalt with bleached alteration halo	Red-brown clay, FeOx	2.44
71R-2, 54-59 (Piece 1A)	672.39	18	Red-gray lava with pink alteration zone	Brown clay, Cc	2.40
71R-2, 72-77 (Piece 1B)	672.57	18	Red-gray feldspar-phyric lava with gray alteration zone	Brown-red clay, FeOx	2.41
71R-3, 41-48 (Piece 1B)	673.31	18	Red-gray feldspar-phyric lava	Brown clay, FeOx	2.27
71R-4, 1-8 (Piece 1A)	674.21	18	Red-gray feldspar-phyric lava	Brown clay, FeOx, Cc	2.36
71R-4, 54-60 (Piece 1D)	674.74	19	Red-brown welded flow-top breccia	Red-brown clay, FeOx	3.03
71R-4, 80-86 (Piece 1C)	675.00	19	Pale green, highly altered flow-top breccia	Green clay	2.41
71R-5, 100-105 (Piece 1F)	676.66	19	Bleached, intensely altered feldspar-phyric lava	Yellow, green, brown clay	2.42
71R-6, 34-41 (Piece 1B)	677.41	19	Bleached lava with hematite veining	Yellow-brown clay, FeOx	2.52
71R-7, 32-38 (Piece 2)	678.77	19	Red-gray feldspar-phyric lava	Red-brown clay, FeOx	2.44
72R-2, 48-53 (Piece 2B)	682.21	19	Gray feldspar-phyric lava	Gray clay, Cc	2.51
72R-3, 114-120 (Piece 4A)	683.76	19	Gray to pink plagioclase-phyric lava	Gray to pink clay, Cc	2.52
73R-1, 12-18 (Piece 3)	689.62	19	Red-gray feldspar-phyric lava	Red-brown clay, FeOx	2.53
73R-2, 115-120 (Piece 12)	692.15	19	Gray feldspar-phyric lava with hematite vein	Red-brown clay, FeOx, Cc	2.48
73R-3, 77-84 (Piece 5)	693.27	19	Gray feldspar-phyric lava	Green clay, Cc	2.54

Notes: NA = not analyzed, BD = below detection. * = total Fe as ferric oxide. FeO determined by titration. Mg# = Mg²⁺/(Mg²⁺ + Fe[*tot*]). Total for ignited sample. LOI = loss on ignition. Cc = calcium carbonate, Sid = siderite, FeOx = iron oxyhydroxides, Zeo = zeolite.

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Major element oxides (wt%)											Total	
		SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃ *	Fe ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O		P ₂ O ₅
183-1139A-														
53R-1, 47-52	499.27	74.84	0.34	10.40	6.26	6.13	0.11	0.13	1.22	0.52	3.20	3.27	0.01	100.19
53R-2, 52-54	500.79	78.04	0.34	10.06	3.21	2.99	0.20	0.02	0.28	0.34	1.94	5.72	0.03	100.00
54R-1, 74-78	508.74	82.61	0.31	8.26	1.00	0.82	0.15	0.01	0.09	0.30	1.69	5.27	0.03	99.56
54R-1, 86-90	508.86	85.05	0.21	6.49	5.49	5.25	0.21	0.03	0.51	0.16	0.58	1.24	0.02	99.78
54R-1, 93-96	508.93	93.30	0.23	3.13	2.11	2.05	0.05	0.08	0.21	0.07	0.25	0.54	0.01	99.93
54R-1, 102-106	509.02	67.06	0.59	14.79	6.98	NA	NA	0.04	0.58	0.16	2.37	7.21	0.07	99.85
55R-1, 22-26	517.82	76.07	0.42	11.50	3.02	2.89	0.11	0.01	0.03	0.05	4.24	4.92	0.03	100.28
56R-1, 32-36	527.62	74.24	0.41	11.80	4.00	3.80	0.18	0.02	0.03	0.04	4.56	5.24	0.03	100.37
56R-2, 62-67	529.26	64.93	0.62	16.67	8.12	6.20	1.73	0.04	1.20	0.27	3.47	4.29	0.04	99.65
56R-3, 111-116	531.25	69.40	0.46	15.16	5.43	4.52	0.82	0.02	3.36	0.40	3.48	2.16	0.02	99.89
57R-1, 13-20	537.03	72.37	0.41	13.60	4.33	3.30	0.92	0.05	2.57	0.52	3.35	2.63	0.01	99.83
58R-1, 5-9 (Piece 1)	546.55	74.37	0.31	10.54	6.42	6.17	0.22	0.02	0.06	0.02	3.55	4.95	0.01	100.25
60R-1, 37-42 (Piece 7)	565.97	76.95	0.31	10.62	3.97	3.64	0.29	0.01	0.04	0.03	3.16	5.10	0.00	100.19
61R-1, 12-19 (Piece 1A)	575.32	65.98	0.59	15.77	6.27	5.62	0.59	0.05	0.12	0.35	4.75	6.33	0.02	100.24
61R-1, 98-104 (Piece 1F)	576.18	65.96	0.50	15.56	6.13	2.66	3.12	0.35	0.10	0.29	5.22	5.91	0.02	100.04
61R-2, 84-92 (Piece 6)	577.46	67.71	0.48	14.99	6.20	4.01	1.97	0.18	0.12	0.26	4.47	5.95	0.02	100.38
62R-3, 8-13	587.01	52.31	2.81	17.17	14.91	14.48	0.39	0.13	1.11	1.87	2.92	5.65	1.21	100.09
63R-1, 33-39 (Piece 7)	594.93	45.29	4.15	15.76	18.15	5.76	11.15	0.90	1.74	5.48	4.29	2.86	1.55	100.17
64R-2, 12-19 (Piece 2)	604.32	39.01	5.68	21.42	20.11	17.73	2.14	0.23	0.78	5.15	1.42	1.92	3.75	99.46
64R-4, 44-51 (Piece 3B)	609.08	49.02	4.50	16.58	13.00	6.11	6.21	0.23	2.38	5.85	4.45	2.70	1.13	99.85
65R-1, 0-6 (Piece 1)	613.90	52.05	4.30	16.08	11.82	8.24	3.22	0.16	1.99	6.08	3.86	2.68	1.28	100.29
65R-1, 53-61 (Piece 4A)	614.43	48.98	4.21	15.91	12.43	5.46	6.27	0.39	1.64	8.14	4.17	2.62	1.23	99.73
65R-2, 118-124 (Piece 3C)	616.38	45.69	4.00	14.28	18.12	9.99	7.31	0.65	3.39	7.68	2.72	2.04	0.95	99.52
66R-3, 85-90 (Piece 1D)	627.33	51.70	4.55	16.60	11.17	8.98	1.97	0.09	1.21	5.75	4.43	2.86	1.72	100.07
66R-4, 65-70 (Piece 1)	628.57	37.08	2.96	11.23	11.08	8.86	2.01	0.79	2.74	30.09	1.58	0.86	1.57	99.99
66R-5, 66-71 (Piece 1)	629.58	43.00	3.85	14.48	16.16	5.37	9.70	0.42	2.30	12.61	3.79	2.50	1.07	100.18
67R-5, 7-13 (Piece 1A)	638.17	50.67	2.83	16.78	11.73	4.11	6.86	0.27	1.36	6.72	4.78	3.88	1.17	100.17
68R-3, 37-41 (Piece 1)	645.88	51.18	4.08	16.81	13.77	5.60	7.35	0.17	3.09	3.92	2.05	3.44	1.19	99.69
68R-3, 61-65 (Piece 1)	646.12	40.78	2.12	9.71	34.86	22.87	10.79	0.97	3.96	5.20	0.80	0.24	0.78	99.41
68R-7, 65-70 (Piece 1)	650.88	60.71	2.51	13.05	13.24	12.00	1.12	0.12	1.91	2.07	2.06	3.25	0.98	99.90
69R-1, 60-67 (Piece 4A)	652.60	54.35	2.95	15.06	12.47	5.10	6.64	0.20	1.50	5.31	4.20	2.96	1.19	100.18
69R-2, 63-68 (Piece 5B)	654.13	56.44	3.07	15.71	9.15	3.66	4.94	0.13	1.25	5.07	4.50	3.25	1.22	99.79
69R-2, 84-90 (Piece 5D)	654.34	53.21	3.12	15.97	11.05	4.16	6.20	0.18	1.78	5.95	4.44	3.24	1.24	100.18
70R-1, 54-60 (Piece 3B)	662.04	60.76	0.85	16.11	12.68	10.61	1.87	0.12	0.86	0.71	3.35	4.67	0.06	100.16
70R-2, 14-20 (Piece 1A)	662.86	60.98	0.86	16.15	13.02	12.00	0.91	0.11	0.84	0.42	3.02	4.10	0.03	99.52
70R-2, 57-62 (Piece 1C)	663.29	57.06	0.83	16.25	15.77	13.36	2.17	0.12	0.69	0.75	3.57	4.67	0.10	99.81
70R-2, 68-74 (Piece 1E)	663.40	63.61	1.10	20.63	2.43	1.77	0.59	0.03	0.61	0.60	4.32	6.83	0.14	100.29
70R-2, 86-91 (Piece 1F)	663.58	58.50	0.81	15.00	14.80	4.47	9.30	0.77	1.18	1.55	3.25	3.95	0.15	99.95
70R-2, 111-117 (Piece 1F)	663.83	59.64	0.86	15.97	10.92	NA	NA	0.54	0.72	2.24	3.71	5.20	0.17	99.97
70R-3, 102-108 (Piece 7)	665.24	63.24	0.85	15.39	8.81	3.62	4.67	0.18	0.32	0.64	4.43	5.87	0.16	99.89
70R-4, 54-60 (Piece 4)	665.05	60.05	0.81	15.48	12.86	3.22	8.67	0.65	0.46	0.76	3.38	5.70	0.17	100.31
70R-4, 70-76 (Piece 4B)	666.21	59.99	0.80	15.35	12.70	2.18	9.46	0.40	0.68	0.77	3.79	5.17	0.16	99.79
70R-4, 102-107 (Piece 5B)	666.53	62.28	0.80	14.79	10.74	2.68	7.25	0.30	0.68	0.64	3.91	5.22	0.15	99.50
70R-5, 21-27 (Piece 1B)	667.00	62.68	0.79	15.11	10.80	4.48	5.69	0.29	0.40	0.62	3.67	5.89	0.17	100.42
71R-1, 20-25 (Piece 2B)	671.10	64.85	0.78	14.44	8.10	1.05	6.35	0.29	0.31	1.15	4.61	5.50	0.14	100.16
71R-1, 46-51 (Piece 2C)	671.36	60.99	0.78	14.95	9.19	1.71	6.73	0.28	0.60	1.93	5.07	5.75	0.14	99.67
71R-2, 41-46 (Piece 1A)	672.26	63.03	0.81	14.96	10.87	5.88	4.49	0.31	0.64	0.65	3.65	5.31	0.15	100.38
71R-2, 54-59 (Piece 1A)	672.39	65.58	0.84	15.71	6.84	3.92	2.63	0.14	0.23	0.67	4.21	5.98	0.18	100.35
71R-2, 72-77 (Piece 1B)	672.57	64.10	0.79	14.94	8.98	5.12	3.48	0.27	0.32	0.75	4.10	5.84	0.16	100.24
71R-3, 41-48 (Piece 1B)	673.31	62.98	0.79	14.71	10.78	5.48	4.77	0.40	0.42	0.70	3.84	5.60	0.15	100.36
71R-4, 1-8 (Piece 1A)	674.21	60.64	0.86	16.26	10.51	5.36	4.63	0.31	0.41	0.87	5.10	4.91	0.27	100.14
71R-4, 54-60 (Piece 1D)	674.74	63.55	0.56	17.11	8.99	8.00	0.89	0.04	0.65	0.26	4.35	4.38	0.05	99.93
71R-4, 80-86 (Piece 1G)	675.00	69.54	0.51	15.50	6.18	2.49	3.32	0.08	0.99	0.63	2.78	3.55	0.07	99.83
71R-5, 100-105 (Piece 1F)	676.66	71.31	0.43	13.23	5.45	2.00	3.11	0.11	0.26	0.64	3.58	4.85	0.04	99.90
71R-6, 34-41 (Piece 1B)	677.41	72.03	0.49	14.66	3.70	1.61	1.88	0.10	0.28	0.57	3.23	5.21	0.03	100.30
71R-7, 32-38 (Piece 2)	678.77	71.08	0.44	13.59	4.71	2.91	1.62	0.09	0.17	0.64	3.84	5.27	0.03	99.86
72R-2, 48-53 (Piece 2B)	682.21	70.95	0.44	13.30	5.63	2.74	2.60	0.14	0.18	0.39	3.99	5.32	0.01	100.35
72R-3, 114-120 (Piece 4A)	683.76	69.87	0.44	13.32	6.46	2.36	3.69	0.16	0.25	0.39	4.09	5.26	0.01	100.24
73R-1, 12-18 (Piece 3)	689.62	70.70	0.44	13.28	5.99	3.01	2.68	0.15	0.10	0.13	4.26	5.22	0.01	100.29
73R-2, 115-120 (Piece 12)	692.15	69.60	0.47	13.78	6.70	1.97	4.25	0.25	0.23	0.16	4.01	5.07	0.02	100.28
73R-3, 77-84 (Piece 5)	693.27	69.12	0.46	13.56	7.01	2.33	4.21	0.24	0.23	0.14	4.09	5.23	0.02	100.10

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Major element oxides (wt%)					Trace elements (ppm)						
		LOI	C	S	Ferrous iron	Mg#	V	Cr	Ni	Zn	Ga	Rb	Sr
183-1139A-													
53R-1, 47-52	499.27	9.48	0.0089	BD	0.98	0.28	BD	3	1	327	38	68	56
53R-2, 52-54	500.79	5.27	0.0103	0.0020	0.93	0.15	7	3	2	288	35	124	37
54R-1, 74-78	508.74	4.37	NA	NA	0.83	0.15	2	BD	1	39	31	112	38
54R-1, 86-90	508.86	4.86	0.0118	0.0010	0.96	0.16	3	18	1	481	24	64	31
54R-1, 93-96	508.93	2.27	0.0344	0.0030	0.97	0.17	14	70	2	143	10	23	12
54R-1, 102-106	509.02	4.28	0.0141	0.0042	NA	0.14	5	35	3	520	50	190	40
55R-1, 22-26	517.82	0.38	0.0269	BD	0.96	0.02	3	8	BD	70	35	113	6
56R-1, 32-36	527.62	0.15	0.0126	BD	0.95	0.02	BD	4	BD	95	36	127	6
56R-2, 62-67	529.26	7.28	NA	NA	0.76	0.23	NA	NA	NA	NA	NA	NA	NA
56R-3, 111-116	531.25	18.94	NA	NA	0.83	0.55	BD	12	1	384	49	37	75
57R-1, 13-20	537.03	17.11	0.0155	0.0015	0.76	0.54	1	47	1	716	44	43	48
58R-1, 5-9 (Piece 1)	546.55	0.73	0.0388	0.0011	0.96	0.02	BD	3	BD	161	38	144	6
60R-1, 37-42 (Piece 7)	565.97	0.63	0.0555	BD	0.92	0.02	BD	10	1	99	37	124	6
61R-1, 12-19 (Piece 1A)	575.32	1.19	0.1199	BD	0.90	0.04	BD	3	BD	82	32	97	22
61R-1, 98-104 (Piece 1F)	576.18	2.40	0.9459	0.0024	0.43	0.03	BD	6	BD	190	34	88	9
61R-2, 84-92 (Piece 6)	577.46	1.81	0.3366	0.0010	0.65	0.04	BD	1	BD	140	32	108	11
62R-3, 8-13	587.01	3.66	0.0225	0.0012	0.97	0.13	40	8	1	162	25	71	132
63R-1, 33-39 (Piece 7)	594.93	7.34	2.9656	0.0015	0.32	0.16	209	5	BD	130	23	41	419
64R-2, 12-19 (Piece 2)	604.32	8.47	0.0453	0.0036	0.88	0.07	228	2	BD	388	29	22	147
64R-4, 44-51 (Piece 3B)	609.08	3.28	0.4509	BD	0.47	0.27	302	5	6	145	26	43	467
65R-1, 0-6 (Piece 1)	613.90	7.54	1.2956	BD	0.70	0.25	267	BD	4	252	24	42	290
65R-1, 53-61 (Piece 4A)	614.43	8.59	3.0556	BD	0.44	0.21	265	105	5	128	24	39	431
65R-2, 118-124 (Piece 3C)	616.38	15.07	2.2989	BD	0.55	0.27	285	18	16	197	22	31	117
66R-3, 85-90 (Piece 1D)	627.33	3.55	0.7099	0.0016	0.80	0.18	234	224	30	96	26	45	475
66R-4, 65-70 (Piece 1)	628.57	22.95	NA	NA	0.80	0.33	187	3	5	57	14	12	132
66R-5, 66-71 (Piece 1)	629.58	14.04	5.1122	BD	0.33	0.22	229	24	11	97	21	34	378
67R-5, 7-13 (Piece 1A)	638.17	7.42	3.0522	0.0031	0.35	0.19	96	BD	1	87	24	53	453
68R-3, 37-41 (Piece 1)	645.88	6.71	NA	NA	0.41	0.31	215	43	11	132	24	50	123
68R-3, 61-65 (Piece 1)	646.12	11.54	1.9056	BD	0.66	0.18	95	39	BD	207	16	2	54
68R-7, 65-70 (Piece 1)	650.88	4.50	0.1609	0.0022	0.91	0.22	78	18	1	94	20	42	131
69R-1, 60-67 (Piece 4A)	652.60	4.34	0.9049	0.0066	0.41	0.19	128	6	1	134	23	43	394
69R-2, 63-68 (Piece 5B)	654.13	3.43	1.3256	0.0445	0.40	0.21	135	6	1	142	24	51	427
69R-2, 84-90 (Piece 5D)	654.34	5.30	NA	NA	0.38	0.24	136	1	2	140	24	50	431
70R-1, 54-60 (Piece 3B)	662.04	3.62	0.1849	0.0015	0.84	0.12	BD	4	BD	118	34	48	18
70R-2, 14-20 (Piece 1A)	662.86	3.71	0.0517	BD	0.92	0.11	BD	37	BD	95	36	37	50
70R-2, 57-62 (Piece 1C)	663.29	4.31	0.9659	0.0023	0.85	0.08	BD	58	3	316	34	42	33
70R-2, 68-74 (Piece 1E)	663.40	2.98	0.1032	0.0068	0.73	0.33	BD	37	BD	95	36	37	50
70R-2, 86-91 (Piece 1F)	663.58	9.51	2.0789	0.0058	0.30	0.14	BD	129	BD	137	33	31	31
70R-2, 111-117 (Piece 1F)	663.83	8.22	2.8822	0.0045	NA	0.12	1	1	BD	121	33	40	28
70R-3, 102-108 (Piece 7)	665.24	3.70	1.3789	0.0027	0.41	0.07	BD	1	BD	144	33	60	14
70R-4, 54-60 (Piece 4)	665.05	7.55	2.9789	0.0250	0.25	0.07	BD	4	BD	118	34	48	18
70R-4, 70-76 (Piece 4B)	666.21	7.77	1.8222	0.0204	0.17	0.10	BD	25	BD	186	34	42	17
70R-4, 102-107 (Piece 5B)	666.53	6.24	1.4056	0.0163	0.25	0.11	BD	BD	BD	210	33	52	19
70R-5, 21-27 (Piece 1B)	667.00	5.18	1.1489	BD	0.41	0.07	BD	1	BD	97	33	62	18
71R-1, 20-25 (Piece 2B)	671.10	4.47	1.2189	0.0049	0.13	0.07	BD	1	BD	187	31	55	13
71R-1, 46-51 (Piece 2C)	671.36	5.42	2.4089	0.0150	0.19	0.11	BD	BD	BD	175	32	59	15
71R-2, 41-46 (Piece 1A)	672.26	4.48	1.4822	0.2290	0.54	0.10	BD	1	BD	119	33	65	22
71R-2, 54-59 (Piece 1A)	672.39	2.71	0.8009	0.0043	0.57	0.06	BD	BD	BD	81	34	71	18
71R-2, 72-77 (Piece 1B)	672.57	3.37	0.7262	BD	0.57	0.07	BD	1	BD	108	33	72	17
71R-3, 41-48 (Piece 1B)	673.31	4.10	0.9266	BD	0.51	0.07	BD	1	BD	127	33	70	20
71R-4, 1-8 (Piece 1A)	674.21	4.41	0.9059	BD	0.51	0.07	BD	BD	BD	279	33	56	49
71R-4, 54-60 (Piece 1D)	674.74	2.59	0.0822	0.0024	0.89	0.12	BD	66	1	200	51	66	61
71R-4, 80-86 (Piece 1G)	675.00	4.82	0.5316	0.0196	0.40	0.24	BD	BD	1	250	44	60	60
71R-5, 100-105 (Piece 1F)	676.66	3.46	0.6956	0.0528	0.37	0.09	BD	8	BD	102	40	120	15
71R-6, 34-41 (Piece 1B)	677.41	2.83	0.6666	0.0775	0.44	0.13	BD	35	1	86	45	130	17
71R-7, 32-38 (Piece 2)	678.77	2.23	0.6079	BD	0.62	0.06	BD	4	BD	103	40	119	14
72R-2, 48-53 (Piece 2B)	682.21	2.34	0.8262	0.0028	0.49	0.06	BD	3	BD	166	39	123	11
72R-3, 114-120 (Piece 4A)	683.76	3.03	1.1122	0.0037	0.36	0.07	BD	BD	BD	165	40	122	10
73R-1, 12-18 (Piece 3)	689.62	2.19	0.7652	0.0051	0.50	0.03	BD	1	BD	218	40	122	10
73R-2, 115-120 (Piece 12)	692.15	3.45	1.2822	0.0071	0.29	0.06	BD	BD	BD	190	41	110	10
73R-3, 77-84 (Piece 5)	693.27	3.20	1.2089	0.0058	0.33	0.06	BD	2	BD	281	40	112	13

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Trace elements (ppm)								
		Y	Zr	Nb	Ba	La	Ce	Pb	Th	U
183-1139A-										
53R-1, 47-52	499.27	125	1786	175	11	130	307	29	24	4
53R-2, 52-54	500.79	143	1667	157	4	96	226	18	21	7
54R-1, 74-78	508.74	94	1594	218	BD	105	240	13	19	6
54R-1, 86-90	508.86	126	1159	110	BD	132	282	1	15	4
54R-1, 93-96	508.93	51	500	56	65	36	89	22	6	3
54R-1, 102-106	509.02	169	1434	195	19	224	483	8	17	9
55R-1, 22-26	517.82	69	888	94	20	76	205	16	10	2
56R-1, 32-36	527.62	103	982	103	11	88	195	17	11	3
56R-2, 62-67	529.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
56R-3, 111-116	531.25	84	1551	162	2	146	318	20	20	1
57R-1, 13-20	537.03	53	1384	141	16	64	132	27	18	1
58R-1, 5-9 (Piece 1)	546.55	49	1139	116	BD	63	251	19	13	3
60R-1, 37-42 (Piece 7)	565.97	91	1169	117	11	29	57	12	15	4
61R-1, 12-19 (Piece 1A)	575.32	52	566	65	198	55	126	15	8	4
61R-1, 98-104 (Piece 1F)	576.18	52	613	75	22	66	152	12	8	2
61R-2, 84-92 (Piece 6)	577.46	53	601	73	21	67	152	11	8	3
62R-3, 8-13	587.01	48	316	40	676	42	97	5	3	BD
63R-1, 33-39 (Piece 7)	594.93	43	275	34	931	36	91	3	3	BD
64R-2, 12-19 (Piece 2)	604.32	89	377	46	274	42	136	6	4	2
64R-4, 44-51 (Piece 3B)	609.08	37	312	38	736	32	81	4	3	BD
65R-1, 0-6 (Piece 1)	613.90	37	311	38	527	35	89	4	3	BD
65R-1, 53-61 (Piece 4A)	614.43	40	299	36	703	36	85	4	4	BD
65R-2, 118-124 (Piece 3C)	616.38	33	241	30	362	29	73	4	3	BD
66R-3, 85-90 (Piece 1D)	627.33	43	328	42	864	39	101	4	3	BD
66R-4, 65-70 (Piece 1)	628.57	45	191	21	235	47	105	3	2	BD
66R-5, 66-71 (Piece 1)	629.58	36	245	30	803	33	74	3	2	BD
67R-5, 7-13 (Piece 1A)	638.17	44	345	42	1701	41	96	4	3	BD
68R-3, 37-41 (Piece 1)	645.88	36	318	38	522	35	87	7	3	1
68R-3, 61-65 (Piece 1)	646.12	40	196	24	101	32	77	3	2	1
68R-7, 65-70 (Piece 1)	650.88	39	313	36	822	42	93	5	3	BD
69R-1, 60-67 (Piece 4A)	652.60	43	353	40	864	43	101	6	4	BD
69R-2, 63-68 (Piece 5B)	654.13	41	377	43	922	43	100	6	4	BD
69R-2, 84-90 (Piece 5D)	654.34	47	372	42	901	46	107	6	3	BD
70R-1, 54-60 (Piece 3B)	662.04	55	440	49	201	59	123	6	6	2
70R-2, 14-20 (Piece 1A)	662.86	47	518	54	199	44	129	6	6	BD
70R-2, 57-62 (Piece 1C)	663.29	17	467	53	192	3	14	12	6	BD
70R-2, 68-74 (Piece 1E)	663.40	47	518	54	199	44	129	6	6	BD
70R-2, 86-91 (Piece 1F)	663.58	60	408	48	228	66	123	8	5	1
70R-2, 111-117 (Piece 1F)	663.83	47	441	49	370	50	121	6	5	1
70R-3, 102-108 (Piece 7)	665.24	44	458	54	273	53	111	10	5	1
70R-4, 54-60 (Piece 4)	665.05	55	440	49	201	59	123	6	6	2
70R-4, 70-76 (Piece 4B)	666.21	53	429	50	162	50	121	5	5	1
70R-4, 102-107 (Piece 5B)	666.53	47	420	48	140	47	114	7	5	1
70R-5, 21-27 (Piece 1B)	667.00	56	436	49	172	70	146	6	5	BD
71R-1, 20-25 (Piece 2B)	671.10	43	297	50	142	47	117	7	5	BD
71R-1, 46-51 (Piece 2C)	671.36	49	413	48	195	47	114	6	5	BD
71R-2, 41-46 (Piece 1A)	672.26	39	399	53	321	48	121	10	5	1
71R-2, 54-59 (Piece 1A)	672.39	51	444	54	212	58	130	6	5	BD
71R-2, 72-77 (Piece 1B)	672.57	51	442	51	170	49	118	6	5	1
71R-3, 41-48 (Piece 1B)	673.31	49	432	51	139	45	112	10	5	1
71R-4, 1-8 (Piece 1A)	674.21	99	491	55	162	84	143	7	5	1
71R-4, 54-60 (Piece 1D)	674.74	79	1357	138	106	75	237	25	18	1
71R-4, 80-86 (Piece 1G)	675.00	115	1474	138	112	150	357	10	17	3
71R-5, 100-105 (Piece 1F)	676.66	40	1288	120	84	51	295	12	15	1
71R-6, 34-41 (Piece 1B)	677.41	32	1263	124	130	27	119	9	16	BD
71R-7, 32-38 (Piece 2)	678.77	38	1210	118	82	39	258	13	15	1
72R-2, 48-53 (Piece 2B)	682.21	135	1262	118	60	44	95	17	15	3
72R-3, 114-120 (Piece 4A)	683.76	139	1241	117	45	66	98	13	15	2
73R-1, 12-18 (Piece 3)	689.62	96	1221	116	50	71	124	19	14	1
73R-2, 115-120 (Piece 12)	692.15	173	1131	112	35	153	218	6	14	3
73R-3, 77-84 (Piece 5)	693.27	159	1119	108	48	153	172	14	13	2