

Appendix 1

Descriptions of cores taken so far

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
18/11/2004							
1 RU1T1	38 07 36.5875 S 176 15 56.8485 E	2796438	6336794	21	1	1	
2 RU2T1	38 07 0..8237 S 176 15 56.4908 E	2796470	6337897	20.2	0.64	1	0-40cm dark olive seston with thick black banding 40-67cm dark olive seston with dark grey to black laminations
3 RU3T1	38 06 31.2228 S 176 15 57.5504 E	2796531	6338808	15.81	1.2	Bags	Box Corer Used Seston goes from 0 - 42 cm then silt layer Seston from 44 – 57 cm 57 cm onwards more compact layer Break in sediment at 93 cm Pumice starts at 115 cm
4 RU4T1	38 05 58.0928 S 176 16 01.3717 E	2796660	6339824	18.4	1.19	Bags	Box Corer Used 0-16 cm Seston laminated, dark blue/black to orangey brown 16–17.5cm Transition to silty sediment with dark laminations 17.5-20cm Pale grey very fine silt 20-32cm laminated orange brown to dark olive green 32 cm 5mm bright orange band 32-50cm laminations fade becoming more silty 50-119cm massive light brown silt
5 RU5T1	38 05 58.8834 S	2796560	6339803	18.4	0.50	Bag	Box Corer

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
	176 15 57.2527 E						Same site as RU4T1, not the same hole Sloppy laminated dark olive green to orange
6 RU6T1	38 05 26.9820 S 176 15 57.7123 E	2796604	6340786	22.36		1	Wrapped core – see photo 0-29cm olive seston 29-34cm olive seston with dark patch 34-63cm dark olive/black seston
7 RU7T1	38 05 26.2975 S 176 15 57.7165 E	2796604	6340807	22.5	1.80	1	3 m Corer Used taken 2/2 wrapped core barrels – see photo 0-5cm olive seston with black band 3-4cm 5-22.5cm olive seston with thick black bands 22.5-34cm light olive seston with dark olive laminations 34-75cm grey to light olive seston with dark grey banding 75-87cm pale grey to dark grey laminated silty seston 87-89 pale grey silt with sharp upper and lower contacts (Tarawera) 89-93.5 pale olive grey seston 90-119cm pale olive grey seston with dark grey laminations 119-120cm thin orange (olive?) band 120-130cm pale olive with light grey laminations 130-140 cm dark olive grey seston with black laminations 140– 173cm olive seston with light grey laminations

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
8	RU8T1 38 04 53.7814 S 176 15 56.2719 E	2796609	6341810	21.2	2.12	1 + I Bag	173-183cm olive seston with dark grey laminations 3 m corer used 2/2 cores barrels used + 1 bag of seston (seston = top 9 cm) – photo 0-11cm olive seston 11-13cm dark olive seston 13-31cm olive/light olive laminated seston 31-35cm light olive seston 35-38cm dark olive seston 38-38.5cm laminated dark olive/olive seston 38.5-50 olive silt 50-51cm dark olive seston 51-54 olive seston 54-55cm laminated dark grey silt 55-61cm light olive laminated seston 61-69cm olive grey seston, more silty 69-72.5cm grey seston with silt 72.5-77cm light grey laminated silt, bottom contact sharp, upper contact gradational (Tarawera) 77-97 cm olive laminated seston 97-101cm olive grey laminated seston with thin grey silt laminations 101-104cm olive seston

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							\110-115cm grey olive seston 115-123.5cm dark grey seston 123.5-173.5cm light olive grey seston with olive laminations 173.5-196cm light olive grey silt with dark grey laminations (Kaharoa) 196-202.5cm rice bubble sized pumice 202.5-204cm sandy pumice
9 RU9T1	38 04 23.1244 S 176 15 59.0582 E	2796712	6342753	19.45	1.90	1	3 m corer used 2/2 cores barrels used – photo 0-38cm seston, laminated, light olive-dark olive 38-47cm seston, laminated, olive-dark olive 47-49.5cm dark olive laminated seston 49.5-50cm olive seston 50-52.5cm dark olive seston 52.5-57.5 cm olive seston 57.5-64.5cm olive grey seston, dark band at 61.5 64.5-69cm light grey silt. Upper contact gradational, lower contact unconformable. (Tarawera) 69-79.5cm olive seston 79.5-82cm olive grey seston 82-84.5cm light olive seston 84.5-89.5cm olive seston

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							89.5 – 100cm olive silt with darker laminations 100-103cm olive silt with darker laminations 103-106.5 olive seston 106.5-113cm olive grey seston, more silty 113-164.5cm light olive laminated seston 164.5-166cm olive grey silt (Tephra?) 166-167.5cm light olive seston 167.5-180cm grey laminated silt, gradational contacts (Kaharoa) 180-185cm silt dark and light grey laminations 185.5-190cm olive grey silt
10 RU10T1	38 03 48.2003 S 176 15 59.4563 E	2796761	6343828	16.2	0.82	1	3m corer used 1 wrapped core barrel photo 0-42cm olive seston with grey laminations 42-44cm grey silt (Tarawera) 44-50cm olive seston with grey laminations 53-83 olive seston with dark grey laminations
11 RU11T1	38 03 15.8824 S 176 16 01.3092 E	2796841	6344821	15.6	0.40?	Bags	Box Corer Used All seston
12 RU12T1	38 02 44.1657 S 176 15 57.3697 E	2796781	6345801	9.86	-	Bags	Box Corer
19/11/04							

Site Number	Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
13	RU13T1	38 06 31.3051 S 176 16 38.5561 E	2797529	633876 8	14.09	0.20	Bags	Box Corer – very soft sediment 0-10cm banded orange and dark grey seston 10-13cm dark massive mud 13cm grey tephra (Tarawera?) mm sized pumice fragments 13-20cm mixed pumice material and mud
14	RU14T1	38 06 31.6681 S 176 17 19.3150 E	2798519	633871 9	8.53	0.44	Bags	Box Corer 0-5cm Coarse sand, fine gravel + mussels – black layer 5-10cm Grey mud 10-20cm grey mud + black bands 20-28cm mostly black mud + grey patches 28-38cm sand coarsening downwards, dark grey colour 38-40cm pale grey almost white medium particle sized sand 40-44cm orange/grey med sand. Terminates in a pale pink sand with 2/3mm white grains + 1cm sized pumice grains <i>NOTE</i> – Suspect the top of the sediment is being reworked by wave action due to shallowness of site.
15	RU15T1	-			5.5	-	Bag	Box Corer used We lost the box corer over the side, so very minimal sample recovered. Collected 1 bag of gravel and possibly Tarawera ash from this site. Due to the type of sediment (i.e. gravel) we are not continuing with this site the bottom substrate is too hard to core

Site Number	Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
16	RU16T1	38 06 31.8787 S 176 15 13.6058 E	2795459	633882 5	7.23	1.14	Bags	Box Corer 0-49cm appears to have been cored in a previous attempt. Very fine mud that is pale grey to pale yellow with dark flex 49cm Sharp boundary to a dark gingery mud (seston?) gradually lightening towards 63 cm where it becomes pale brown to light cream at 72cm 72cm Abrupt transition to a dark grey mud (72-73cm) 73-114cm pale grey mud with horizontal grey flex. No sign of Tarawera tephra, mud all the way through. <i>NOTE</i> - Mussels at the top of the core.
17	RU17T1	38 06 31.4534 S 176 15 13.6437 E	2795460	633883 8	7.36	-	-	Nothing able to be recovered.
18	RU18T1	38 06 31.5133 S 176 14 49.2302E			2.46	0.33	Bags	Box Corer used 0-14cm Well worked mud to fine gravel, gravel contains cm sized pumice and freshwater mussels 14-15 cm Brown Gravel 15-20cm Fine well worked sand 20cm Black pea sized gravel this is a sharp boundary 20-33cm fine orange/brown mud with black streaks
19	RU19T1	38 05 08.5834 S 176 17 35.5970 E	2799011	634126 5	8.92	0.65	Bags	Box Corer used 0-10cm fine gravel made of 3-5 (mm?) pumice pebbles and minor grey

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							band sharp boundary. 10-22cm orangey laminated seston 22-43cm orangey grey mud with dark streaks 43-55cm Coarse soft seston-like brownie/orange colour, becomes finer and greyer
20 RU20T1 (3.30pm)	38 05 08.2889 S 176 18 17.3705 E	2800028	634123 7	9.45	119	1	Tried with the box corer twice, trap door would not close properly Switched to a 3m corer Taken 2/2 core barrels. 0-2cm rice bubble size pumice with grey sand (reworked Kaharoa?) 2-5cm black mud, orange contact with pumice 5-16 grey mud with black laminations 16-21cm black mud with grey laminations 21-24.5cm rice bubble size pumice with greyish mud 24.5-31 rice bubble size pumice with dark greyish sand
21 RU21T1 4.03pm	38 05 08.8141 S 176 18 57.1219 E	2800996	634120 7	6.45	0.84	1	Ist attempt corer went down on its side 2 nd attempt corer empty, soft silt underneath and hard layer on top, needs to have a core catcher – switched to a 3m corer with piston 0-12cm dark olive mud, black patches, orange streaks 12-27cm dark grey mud, black patches, orange streaks 27-53cm sandy pumice 53-57cm sandy mud, gritty, dark grey

Site Number	Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
								57-72cm dark grey & dark olive mud (plastic/hard) 72-82cm dark grey mud with black laminations (hard)
22	RU22T1	38 05 08.5074 S	2801446	634117	0.51	0.37	Bags	Well worked sand
	4.48pm	176 19 15.6219 E		8				Sand well sorted coarsening on top 0-5cm oxidised dark colour 14-18cm paler bands 30-37cm silty fine sand <i>NOTE</i> – looks as though 1 unit, looks to being actively wave worked.
23	RU23T1	38 05 07.8741 S	2797389	634134	15.48	1.57	1	3m Piston Corer used
	5.10pm	176 16 28.9905 E		6				taken 2/2 core barrels – photos 0-3cm seston, dark olive, black laminations 3-7cm light grey mud, black laminations (Tarawera?) 7-14cm olive seston, orange, grey, dark grey, black laminations 14-48cm dark olive seston, black laminations 48-93cm dark olive seston with black patches 95-145cm seston dark olive orange band, fibrous black olive fluffy 145-176cm light grey mud black laminations, gluggy 176-188 dark olive seston, orange band dark grey firmer, black mud patches, irregular contacts
24	RU24T1	38 05 07.8872 S	2797844	634132	20.09	-	1	Used 3m Piston Corer

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
5.35pm	176 15 47.7497 E		9				See photo for length Taken 2/2 core barrels 0-11cm olive seston 11-39.5cm olive seston with thick black areas 39.5-41cm fine pale grey silt with thin lower contact of fine sand (Tarawera) 41-74cm olive to very pale grey seston 74-86 pale olive to pale grey seston with olive to orange laminations 86-88.5 pale grey seston 88.5-159.5cm dark grey seston with vertical streaks of olive, pale grey and pale orange
25 6pm	38 05 08.0773S 176 15 07.5113 E	2795404	634141	14	3.29	1	Used 3m piston corer Taken 4/4 core barrels Bottom core 87cm 1 st middle core 94cm 3-27cm olive seston with dark grey & black laminations 27-39cm dark olive seston with black laminations 39-44 grey seston with black laminations 45-50 silt, upper contact gradational lower contact sharp and slightly tilted (Tarawera) 50-70cm Olive seston with dark grey laminations

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							78-94cm grey seston with dark grey laminations 94-115cm dark grey seston with black laminations and black patches 115-140cm grey olive seston with dark grey laminations 178-270cm uniform consistency, olive seston with grey laminations 277-312cm dark olive seston with dark grey laminations 312-317cm dark grey silt with black laminations, sharp contact at bottom (Kaharoa?) 317-366cm olive seston 2 nd middle core 84cm Top core 64cm
Ru26	380556.7031S 1761518.2584E	2795613	633990	11.77m	38cm	6	
Ru27	38 03 46.1214S 176 16 39.0884E	2797728	634385	18.6	2.6m	7	0-51, light olive seston with black flecks and fibrous organic matter. Large gas bubbles 51-55, olive grey seston 55-145, mottled olive seston with colour laminations. 1mm black sand layer at 140cm

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							145-233, light olive seston with black flecks, organic matter, gas bubbles. No laminations.
Ru28	38 03 47.9495S 176 17 20.8080E	2798742	634376 4	Not record	2.04		0-45, olive seston with black patches, fibrous with gas pockets. V. high water content 45-126, black seston with fibrous material 126-131, grey silt 131-132, grey silty sand with black clasts 132-135 grey silt erosional contact 135-138, olive seston 138-231, olive grey seston, laminated and compacted towards base.
Ru29	38 03 47.0243S 176 18 00.7964E	2799716	634372 8	15.7	2.83		0-20, sloppy olive seston 20-92, black seston, fibrous organic matter, large gas bubbles 92-96, grey silt with grey/black sand 94-95 (Tarawera tephra?) 96-184, olive seston with gas bubbles 184-273, massive light olive seston with gas bubbles 273, 3mm layer of fine black sand 273-276, olive seston
Ru30	38 03 46.9921S 176 18 43.1133E	2800747	634371 8	11.9	2.92		0-66, brown black seston, mottled grey for lower 5cm 66-69, grey sandy silt, erosional contact (Tarawera tephra?) 69-268, massive olive seston with some black flecks. 1mm layers of

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							black sand at 137 and 144
Ru31	38 03 46.0938S 176 19 06.3696	2801315	634372 5	7.9	2.00		0-93, black seston with strong sulphur smell 93-105, black seston 105-125, grey silt 125-127, grey sand 127-180, olive seston. 2mm grey sand layer at 135. organic rich 167-170 180-181, pumice (Kaharoa?)
Ru32	38 03 15.2206S 176 18 42.2416E	2800761	634469 8	15.4	1.8		0-90, disturbed after coring. High water contact, tephra at 50cm 90-180, olive seston. High water content
V chopp y	Ru33 38 02 42.5948S 176 18 45.0107E	2800867	634570 0	17.0			0-53, olive seston, very high water content
Ru34	38 03 43.9021S 176 13 15.0460E	2792759	634410 6	1.00	20cm	Box core	
Ru35	38 03 11.9424S 176 13 57.6401E	2793833	634505 4	10.0	2.98		0-5, black seston 5-7, grey silt with erosional lower contact 7-15, black seston 15-24, olive black seston 24-33, olive seston with abundant organic matter, whole twigs and leaves)

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							33-95, olive seston with layers of leaves at 40cm 95-188 olive seston with many gas bubbles 188-235, olive seston 235-237, pumice Kaharoa? 237-276, olive seston
Ru36	38 03 14.3 176 14 38.0	2794813	634494 5	11.9	1.68		0-19, olive seston with black flecks 19-22, grey silt with thin black sand layer at base 22-79, olive seston with colour laminations and scattered organic matter 79-127, olive seston 127-134, pumice layer (Kaharoa tephra) 134-162, olive grey seston
Ru37	38 03 14.8321S 176 15 17.3987E	2795772	634489 4	14.12	1.37		0-41, olive grey seston with small gas bubbles, fibrous organic matter 41-124, olive seston, abundant gas bubbles, 1mm black sand at 81cm
Ru38	38 03 14.8597S 176 16 43.4195E	2797867	634481 4	17.43	Stuck lost		
Ru39	38 02 43.005S 176 17 58.3905E	2799730	634573 0	13	85cm		0-29, olive grey seston with black flecks, darker at top. 29-30, coarse sand with pumice & quartz 30-38, olive grey seston with black flecks 38-51, coarse pumice layer (up to 8cm) poorly sorted, uneven upper contact (erosion surface?) 51-52, well sorted grey sand

Site Number Core ID	Site Location	Grid S	E	Water Depth	Core Length (m)	No. of Cores	Description/Notes
							52-54, laminated light grey silt
							54-58, massive v. well sorted v. fine sand, green tinge top and bottom contacts
							58-60.5, laminated grey silt
							60.5-61.5, massive light grey fine gravel
							61.5-62.5, laminated orange grey silt
							62.5-64, light grey silt
							64-64.5, massive v. fine light grey sand
							64.5-65.5, massive light grey silt
							65.5-66.8, massive v. fine light grey sand
							66.8-68.8, laminated dark green silt
							68.8-71.8, laminated light grey silt with green bands
							71.8-74.2, m. grey v. fine sand, v. well sorted
							74.2-75.5, laminated light grey silt
							75.5-81, massive light grey silt

Appendix 2**Analytical results from Hill Laboratories**

Core	depth	start	stop	date	Hills Code	C (%)	N (%)	C/N	P (mg/kg)	Fe (mg/kg)	Mn (mg/kg)	As (mg/kg)	Cd (mg/kg)	Hg (mg/kg)	Pb (mg/kg)
Ru3TI	0-2	0		2 24/11/04	360344/1	3.53	0.49	7.2	524	6080	339	77	0.1	0.9	14
Ru3TI	2-4	2		4 24/11/04	360344/2	3.04	0.49	6.2	549	5650	385	53	0.1	0.9	11.2
Ru3TI	4-6	4		6 24/11/04	360344/3	3.03	0.48	6.3	506	5450	361	56	0.1	0.9	10
Ru3TI	6-8	6		8 24/11/04	360344/4	3.46	0.5	7	657	6100	396	72	0.1	0.9	9.3
Ru3TI	8-10	8		10 24/11/04	360344/5	2.76	0.49	5.6	465	4730	341	58	0.1	0.9	6.4
Ru3TI	40-45	40		45 24/11/04	360344/9	0.37	0.1	3.6	359	12400	518	21	0.1	0.3	8.2
Ru3TI	45-50	45		50 24/11/04	360344/10	1.82	0.33	5.5	245	7730	234	83	0.1	0.7	2.1
Ru3TI	80-90	80		90 24/11/04	360344/14	1.79	0.29	6.1	172	9040	187	100	0.1	0.7	1.9
Ru3TI	110-120	110		120 24/11/04	360344/17	2.06	0.34	6.1	148	6960	148	168	0.1	1.3	2.3
Ru4TI	0-2	0		2 24/11/04	360344/19	1.75	0.33	5.4	479	6360	347	70	0.1	0.7	4.6
Ru4TI	2-4	2		4 24/11/04	360344/20	1.62	0.3	5.4	390	5880	312	73	0.1	0.6	3.9
Ru4TI	4-6	4		6 24/11/04	360344/21	1.66	0.32	5.2	435	6630	343	73	0.1	0.6	4.6
Ru4TI	6-8	6		8 24/11/04	360344/22	1.72	0.32	5.4	457	7130	319	68	0.1	0.8	4.6
Ru4TI	8-10	8		10 24/11/04	360344/23	1.71	0.32	5.4	437	7720	341	66	0.1	0.7	4.4
Ru4TI	40-50	40		50 24/11/04	360344/28	1.61	0.29	5.6	204	6400	229	51	0.1	0.7	1.9
Ru4TI	80-90	80		90 24/11/04	360344/32	0.91	0.16	5.5	87	2700	90	36	0.1	0.4	0.9
Ru4TI	110-120	110		120 24/11/04	360344/35	1.77	0.33	5.4	150	5240	135	63	0.1	0.7	1.5
Ru5	0-10	0		10 24/11/04	360344/36	5.18	0.82	6.3	713	7410	330	69	0.2	0.7	11
Ru5	20-30	20		30 24/11/04	360344/38	3.88	0.53	7.3	770	7440	417	100	0.1	0.7	14.5
Ru5	40-50	40		50 24/11/04	360344/40	2.45	0.39	6.3	530	5480	358	61	0.1	0.7	5.2
Ru6	0-2	0		2 24/11/04	360344/41	3.29	0.55	6	1040	8080	542	83	0.5	0.7	11
Ru6	2-4	2		4 24/11/04	360344/42	2.8	0.49	5.7	1590	8870	760	87	1	1	9
Ru6	4-6	4		6 24/11/04	360344/43	2.63	0.47	5.6	1010	6490	499	65	0.4	0.6	7
Ru6	6-8	6		8 24/11/04	360344/44	2.48	0.45	5.5	828	5590	412	57	1	1	6
Ru6	8-10	8		10 24/11/04	360344/45	2.5	0.45	5.6	1530	8960	642	101	0.5	0.8	7
Ru6	30-40	30		40 24/11/04	360344/48	1.83	0.36	5	461	5740	241	73	0.1	0.5	2.1
Ru6	50-60	50		60 24/11/04	360344/50	1.82	0.42	4.3	339	4740	248	43	0.1	0.6	1.8
Ru7	0-2	0		2 24/11/04	360344/51	4.35	0.69	6.3	700	9120	327	95	2	2	11
Ru7	2-4	2		4 24/11/04	360344/52	4.75	0.71	6.7	669	9280	327	110	1	1	13
Ru7	4-6	4		6 24/11/04	360344/53	4.52	0.67	6.7	912	8570	532	82	0.4	0.7	17
Ru7	6-8	6		8 24/11/04	360344/54	4.19	0.7	6	865	9950	439	95	1	1	17

Core	depth	start	stop	date	Hills Code	C (%)	N (%)	C/N	P (mg/kg)	Fe (mg/kg)	Mn (mg/kg)	As (mg/kg)	Cd (mg/kg)	Hg (mg/kg)	Pb (mg/kg)
Ru7	8-10	8		10 24/11/04	360344/55	4.21	0.65	6.5	803	7260	438	60	0.9	0.9	16
Ru7	40-50	40		50 24/11/04	360344/59	1.49	0.37	4	589	5300	277	71	0.1	0.6	4
Ru7	80-90	80		90 24/11/04	360344/63	1.06	0.3	3.5	730	9120	361	49	0.1	0.4	5.9
Ru7	110-120	110	120	24/11/04	360344/65	1.52	0.44	3.5	600	3960	203	70	0.1	0.6	2.2
Ru10TI	0-2	0		2 24/11/04	360344/73	4.87	0.61	7.9	508	7600	252	62	1	1	11
Ru10TI	2-4	2		4 24/11/04	360344/74	4.74	0.71	6.7	700	6610	295	57	2	2	11
Ru10TI	4-6	4		6 24/11/04	360344/75	5.37	0.71	7.6	589	7370	321	68	1	1	15
Ru10TI	6-8	6		8 24/11/04	360344/76	4.16	0.68	6.1	497	5820	299	46	0.8	0.8	15
Ru10TI	8-10	8		10 24/11/04	360344/77	4.27	0.64	6.7	533	5410	337	46	0.6	0.6	15
Ru10TI	40-50	40		50 24/11/04	360344/81	1.63	0.36	4.5	395	7770	260	81	0.1	0.6	3.7
Ru10TI	70-80	70		80 24/11/04	360344/84	1.68	0.31	5.4	248	7110	236	54	0.1	0.6	2.1
Ru11TI	0-10	0		10 24/11/04	360344/85	5.61	0.87	6.5	785	7300	308	60	0.5	0.6	8
Ru11TI	10-20	10		20 24/11/04	360344/86	4.69	0.68	6.9	555	6160	290	57	0.7	0.7	10
Ru11TI	20-30	20		30 24/11/04	360344/87	4.99	0.63	7.9	546	6170	294	62	0.1	0.6	15.3
Ru11TI	30-40	30		40 24/11/04	360344/88	1.51	0.22	6.8	233	2390	127	26	0.1	0.2	4.7
Ru12TI	0-5	0		5 24/11/04	360344/89	1.01	0.15	6.7	241	10200	251	162	0.1	0.3	1.9
Ru12TI	5-10	5		10 24/11/04	360344/90	0.7	0.12	6	255	7170	202	64	0.1	0.2	1.4
Ru12TI	10-15	10		15 24/11/04	360344/91	0.89	0.12	7.4	228	6840	174	43	0.1	0.2	1.3
Ru12TI	15-20	15		20 24/11/04	360344/92	1.11	0.15	7.4	162	9310	178	68	0.1	0.2	1.4
Ru13TI	0-2	0		2 24/11/04	360344/93	3.8	0.54	7.1	541	11300	253	78	0.1	0.7	7
Ru13TI	2-4	2		4 24/11/04	360344/94	3.96	0.48	8.2	515	13000	438	99	0.1	0.8	10.8
Ru13TI	4-6	4		6 24/11/04	360344/95	3.39	0.42	8.1	494	13300	434	115	0.1	0.9	8.4
Ru13TI	6-8	6		8 24/11/04	360344/96	2.2	0.29	7.6	381	12800	516	110	0.1	0.8	6.2
Ru13TI	8-10	8		10 24/11/04	360344/97	0.94	0.14	6.6	340	12500	471	60	0.1	0.5	7.5
Ru13TI	10-20	10		20 24/11/04	360344/98	1.21	0.17	7.2	193	11700	329	93	0.1	0.3	3.1
Ru14TI	0-5	0		5 24/11/04	360344/99	0.31	0.07	4.7	110	5780	114	27	0.1	0.1	1.1
Ru14TI	5-10	5		10 24/11/04	360344/100	1.55	0.2	7.9	104	4870	362	28	0.1	0.9	2.4
Ru14TI	25-30	25		30 24/11/04	360344/104	0.45	0.08	5.8	692	17400	689	12	0.1	0.3	1.5
Ru14TI	40-45	40		45 24/11/04	360344/107	0.13	0.05	3.6	95	10200	250	20	0.1	0.1	0.7
Ru16TI	0-10	0		10 24/11/04	360344/109	1.81	0.23	7.9	157	8980	207	75	0.1	1.2	2.8
Ru16TI	40-50	40		50 24/11/04	360344/113	1.89	0.28	6.9	409	3870	211	16	0.1	1.3	2.7
Ru16TI	81-90	81		90 24/11/04	360344/119	1.61	0.22	7.4	113	5570	134	34	0.1	0.8	2.1
Ru16TI	110-120	110	120	24/11/04	360344/122	1.82	0.26	6.9	210	6040	175	32	0.1	0.7	2.4
Ru18TI	0-10	0		10 24/11/04	360344/123	0.3	0.06	4.8	76	2610	79	16	0.1	0.1	1.7

Core	depth	start	stop	date	Hills Code	C (%)	N (%)	C/N	P (mg/kg)	Fe (mg/kg)	Mn (mg/kg)	As (mg/kg)	Cd (mg/kg)	Hg (mg/kg)	Pb (mg/kg)
Ru18TI	10-15	10	15	24/11/04	360344/124	1.26	0.12	10.5	115	6350	151	47	0.1	0.3	2.3
Ru18TI	15-20	15	20	24/11/04	360344/125	0.32	0.05	6.5	49	3820	70	21	0.1	0.2	0.9
Ru18TI	20-33	20	33	24/11/04	360344/126	1.97	0.19	10.4	107	10300	202	104	0.1	1.2	1.9
Ru19TI	0-10	0	10	24/11/04	360344/127	1.2	0.14	8.4	66	4020	56	182	0.1	0.4	0.9
Ru19TI	10-20	10	20	24/11/04	360344/128	1.43	0.19	7.5	88	5610	87	154	0.1	0.9	2
Ru19TI	30-42	30	42	24/11/04	360344/130	5.97	0.42	14.3	117	5510	155	1030	0.1	2.8	3.5
Ru19TI	52-63	52	63	24/11/04	360344/132	1.97	0.19	10.4	83	4200	92	62	0.1	1.2	2
Ru22TI	Top			24/11/04	360344/134	0.12	0.05	3.7	72	4310	63	4	0.1	0.1	0.8
Ru22TI	Bottom			24/11/04	360344/135	0.09	0.05	3.9	65	3900	61	3	0.1	0.1	1.2
Ru25	0-2	0	2	24/11/04	360344/136	4.62	0.61	7.6	600	6720	319	60	2	2	17
Ru25	2-4	2	4	24/11/04	360344/137	4.54	0.68	6.7	1000	6410	282	60	3	3	14
Ru25	4-6	4	6	24/11/04	360344/138	4.39	0.57	7.7	535	9780	350	60	0.9	0.9	16
Ru25	6-8	6	8	24/11/04	360344/139	4.5	0.54	8.4	589	6660	312	52	0.9	0.9	17
Ru25	8-10	8	10	24/11/04	360344/140	4.34	0.56	7.8	577	5890	335	43	0.7	0.7	16
Ru25	10-20	10	20	24/11/04	360344/141	3.98	0.58	6.9	619	6860	324	61	0.2	0.6	14.3
Ru25	50-60	50	60	24/11/04	360344/145	2.03	0.33	6.2	440	6440	227	83	0.1	0.7	2.9
Ru25	100-110	100	110	24/11/04	360344/149	1.74	0.29	5.9	374	7150	233	77	0.1	0.5	2.6
Ru25	150-160	150	160	24/11/04	360344/154	1.81	0.29	6.3	193	6260	159	47	0.1	0.4	1.6
Ru25	300-310	300	310	24/11/04	360344/158	1.59	0.26	6.2	200	7340	174	54	0.1	0.4	1.7
Ru25	350-360	350	360	24/11/04	360344/163				193	5220	147	54	0.1	0.4	1.6