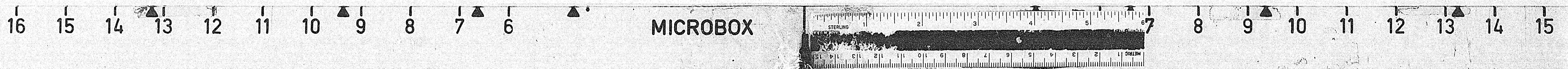


Table 6. Chemical analyses of Miocene volcanoclastites from Site 802 (Unit II).

Sample:	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-	802A-
Hole	3R-1.	4R-1.	4R-2.	4R-2.	5R-1.	5R-2.	6R-2.	8R-1.	8R-CC.	10R-3.	14R-2.	15R-1.	16R-1.	17R-2.	23R-1.	27R-2.
Core-Section	75-80	111-115	14-19	144-149	88-93	38-43	54-60	35-41	0-6	7-13	81-85	19-24	128-133	54-61	60-64	66-73
Interval(cm)																
Depth (mbsf)	15.35	25.41	25.94	27.24	34.58	35.58	44.94	62.25	64.85	83.47	116.71	122.29	123.38	142.44	197.00	237.26
<b>Major Element Oxides</b>																
SiO <sub>2</sub>	34.30	37.60	41.43	45.98	46.38	45.50	45.45	45.43	44.16	45.03	43.28	44.84	43.95	45.67	46.66	32.83
TiO <sub>2</sub>	2.58	2.57	2.20	3.29	3.15	3.12	3.03	3.00	3.07	3.06	2.76	2.91	2.46	3.12	2.60	1.28
Al <sub>2</sub> O <sub>3</sub>	8.99	8.96	8.93	11.95	11.18	11.05	10.87	11.16	10.94	12.18	9.15	10.05	8.63	10.44	11.79	8.42
Fe <sub>2</sub> O <sub>3</sub> T	8.84	10.59	11.37	14.03	12.41	13.43	13.20	12.64	12.70	12.21	14.87	12.85	13.82	12.83	12.24	7.32
MnO	0.07	0.08	0.09	0.17	0.16	0.19	0.19	0.17	0.17	0.17	0.20	0.17	0.17	0.17	0.25	0.21
MgO	6.82	9.55	11.05	12.83	13.00	13.18	12.90	11.14	9.89	8.74	17.04	12.45	17.95	11.08	11.18	6.07
CaO	16.84	12.88	9.26	2.27	2.71	3.79	3.26	4.78	7.23	5.73	6.80	7.98	6.57	7.62	5.59	21.80
Na <sub>2</sub> O	3.33	3.01	3.11	3.39	3.55	3.05	3.47	4.63	3.23	5.16	1.81	2.18	1.56	2.17	3.41	2.91
K <sub>2</sub> O	1.80	1.46	1.64	0.98	1.52	0.99	1.34	1.00	1.22	0.41	0.40	0.50	0.34	0.31	0.67	1.06
P <sub>2</sub> O <sub>5</sub>	0.39	0.45	0.75	0.23	0.41	0.39	0.36	0.39	0.40	0.43	0.33	0.40	0.34	0.41	0.32	0.22
LOI	16.20	13.14	10.06	5.30	6.02	5.10	5.77	5.91	7.19	7.08	3.59	5.94	3.82	5.48	5.45	18.08
<b>Total</b>	<b>100.17</b>	<b>100.29</b>	<b>99.87</b>	<b>100.42</b>	<b>100.49</b>	<b>99.78</b>	<b>99.84</b>	<b>100.23</b>	<b>100.21</b>	<b>100.21</b>	<b>100.25</b>	<b>100.27</b>	<b>99.60</b>	<b>100.01</b>	<b>100.16</b>	<b>100.20</b>
<b>Trace Elements</b>																
Ba	104	55	92	81	189	99	161	164	157	221	148	132	96	98	85	302
Ce	23	43	36	57	51	38	38	41	57	40	28	46	39	49	21	5
Cl	5324	3869	3057	2901	2940	2897	5214	4606	2970	13334	1945	2187	3767	3045	5081	7357
Cr	401	413	369	627	484	653	663	598	514	815	593	867	740	622	465	
Cu	89	88	82	102	98	106	111	109	109	110	88	98	112	106	121	68
Ga	10	13	15	20	23	17	15	19	18	18	10	18	11	18	10	
La	1	12	16	11	15	3	4	13	7	4	16	7	5	6	9	0
Nb	20	20	18	24	22	23	21	21	22	23	20	22	19	24	18	10
Nd	15	35	23	38	33	29	26	27	37	28	9	28	33	28	9	15
Ni	178	242	218	355	227	355	406	334	249	201	570	343	666	386	299	176
Pb	6	3	5	0	2	5	3	2	1	3	5	5	4	1	2	3
Rb	29	23	25	15	20	15	17	16	19	9	6	10	7	4	10	17
S	335	303	258	292	425	398	620	355	184	138	178	189	206	206	195	212
Sr	124	109	108	97	124	158	161	146	342	364	320	493	434	600	239	254
Th	3	3	3	5	4	4	2	2	1	1	1	0	0	0	1	1
V	449	392	149	376	347	352	366	280	329	410	302	286	306	332	307	179
Y	22	25	25	32	29	29	29	28	28	28	24	26	23	26	25	18
Zn	79	92	89	123	113	115	112	109	106	101	123	110	114	112	101	72
Zr	185	182	158	228	218	213	205	206	205	207	185	199	167	211	169	83



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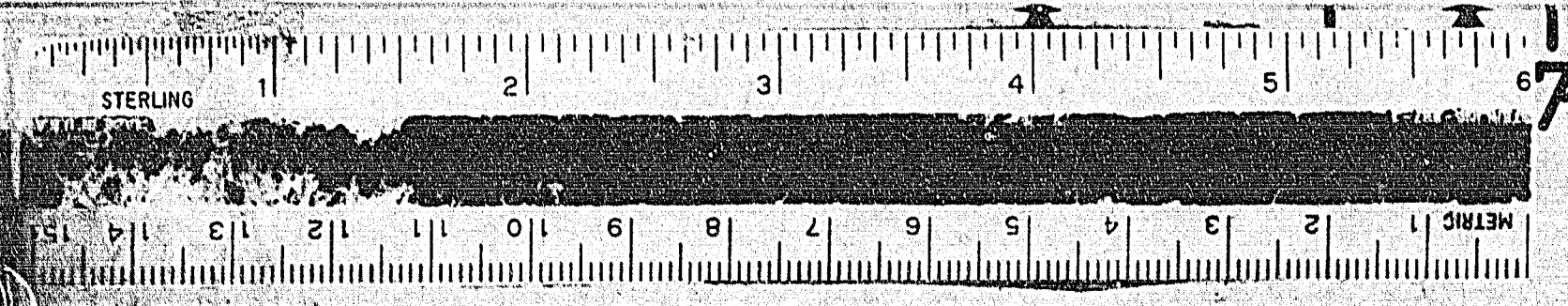
Volume 129SR

Chapter 5

Appendixes A–C

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16 15 14 13 12 11 10 9 8 7 6 MICROBOX 7 8 9 10 11 12 13 14 15



APPENDIX A

Chemical Analyses of Cretaceous Volcaniclastites from Site 800 (Unit IV) Recalculated on a Volatile-free Basis

Hole	800A-26R-1	800A-26R-2	800A-26R-3	800A-27R-1	800A-27R-2	800A-28R-1	800A-28R-2	800A-28R-3	800A-28R-4	800A-28R-5	800A-29R-3	800A-30R-CC	800A-31R-2	800A-31R-2	800A-32R-1	800A-32R-2	800A-33R-2	800A-33R-4	800A-33R-6	800A-34R-2	800A-34R-3	800A-35R-2	800A-36R-1	800A-37R-2	800A-37R-CC	800A-39R-1	800A-40R-1	800A-41R-1	800A-44R-1	800A-45R-1	800A-46R-3	800A-46R-3	800A-48R-2	800A-49R-3					
Core-section Interval(cm)	85-90	48-53	67-73	65-68	36-39	83-87	4-7	1-5	78-82	143-146	66-70	136-141	112-117	95-100	34-37	4-8	45-50	125-130	94-99	76-80	117-122	146-150	37-43	0-9	46-51	82-87	79-83	137-141	8-12	78-80	28-30	60-66	70-74	53-57	5-11	27-31	31-34	123-127	
Depth (mbef)	229.45	230.58	230.77	232.45	238.36	238.83	239.54	247.21	247.98	250.13	250.86	251.56	252.82	254.15	259.84	268.92	273.95	274.75	279.04	280.36	290.17	293.46	295.37	298.50	300.46	308.72	316.69	327.97	328.09	344.58	353.38	363.10	384.40	393.63	405.55	405.77	423.21	435.13	
Major Elements																																							
SiO <sub>2</sub> *	58.55	55.62	55.78	57.29	90.61	84.35	85.39	46.82	54.51	54.71	47.97	55.71	55.27	56.25	93.52	60.05	52.36	56.18	35.26	58.08	42.54	46.77	48.13	43.57	48.51	47.10	46.49	46.46	47.69	55.87	53.48	43.13	52.61	50.26	55.44	53.27	49.36	50.43	
TiO <sub>2</sub> *	1.74	1.83	1.89	2.25	0.36	0.39	0.42	1.39	2.31	1.64	0.92	1.74	2.21	1.54	0.21	1.58	1.86	1.79	0.80	1.84	1.38	1.86	2.07	1.29	1.58	1.48	2.03	2.02	2.10	2.12	1.90	1.24	2.05	2.03	1.88	2.24	2.54	2.09	
Al <sub>2</sub> O <sub>3</sub> *	10.35	9.97	11.03	11.69	2.67	3.13	4.21	9.14	13.42	10.94	7.14	11.53	13.31	10.77	2.00	10.79	12.56	12.24	6.38	14.22	9.09	11.72	12.51	8.53	10.25	9.72	11.68	10.97	11.60	10.07	10.36	8.30	11.28	11.40	11.97	12.59	12.49	12.28	
Fe <sub>2</sub> O <sub>3</sub> **	10.07	11.80	10.92	10.68	2.64	2.76	4.49	6.91	9.52	10.14	6.18	10.10	9.38	10.16	1.50	8.37	10.18	8.42	3.95	7.41	10.41	11.83	10.44	9.22	9.14	9.73	12.00	13.15	13.03	11.07	10.62	7.89	13.29	14.28	9.15	9.48	9.70	10.17	
MnO*	0.22	0.24	0.23	0.23	0.05	0.10	0.10	0.28	0.16	0.19	0.29	0.16	0.15	0.16	0.04	0.17	0.16	0.13	0.22	0.13	0.23	0.30	0.31	0.25	0.21	0.17	0.36	0.34	0.30	0.15	0.22	0.64	0.20	0.22	0.15	0.15	0.22	0.15	
MgO*	9.60	11.48	10.27	8.49	1.07	1.59	1.92	9.77	10.18	12.80	8.31	12.47	10.74	12.20	0.67	5.22	7.87	6.04	3.62	7.77	7.63	19.26	15.24	12.68	12.20	10.02	16.85	14.65	14.40	14.23	13.71	11.02	12.77	13.77	15.04	16.31	20.91	19.68	
CaO*	4.86	5.54	6.39	5.55	1.02	5.80	0.92	23.13	6.31	5.86	25.97	4.46	5.26	4.88	0.49	9.98	11.66	11.61	46.67	6.83	25.17	4.98	7.26	20.74	14.04	18.64	7.10	9.21	6.92	3.30	6.35	24.84	3.48	3.42	1.85	2.30	2.48	1.68	
Na <sub>2</sub> O*	2.61	2.40	2.37	2.61	0.68	0.83	0.92	2.33	2.91	2.71	2.21	2.75	2.63	2.65	0.57	2.61	2.33	2.78	2.28	2.73	2.40	2.58	2.93	2.00	2.30	2.32	1.87	2.02	2.51	2.16	2.18	2.18	2.14	1.38	1.91	2.49	1.59	1.83	
K <sub>2</sub> O*	0.78	0.55	0.47	0.53	0.58	0.75	1.21	0.33	0.59	0.65	0.93	0.64	0.44	0.82	0.57	1.31	0.66	0.95	0.70	0.72	1.01	0.43	0.61	1.55	1.21	1.02	1.14	1.03	0.97	1.10	1.02	0.68	1.70	2.72	2.58	1.30	0.23	1.27	
P <sub>2</sub> O <sub>5</sub> *	0.29	0.34	0.39	0.37	0.13	0.15	0.18	0.17	0.16	0.20	0.21	0.21	0.18	0.23	0.05	0.39	0.36	0.35	0.19	0.24	0.31	0.24	0.35	0.23	0.14	0.28	0.34	0.29	0.26	0.19	0.14	0.59	0.25	0.17	0.34	0.29	0.25		
Major Element Ratios																																							
Na <sub>2</sub> O/K <sub>2</sub> O	3.39	2.96	2.84	3.14	1.26	1.58	2.12	2.66	3.50	3.36	3.14	3.39	3.07	3.48	1.14	3.92	2.99	3.73	2.99	3.45	3.41	3.01	3.54	3.55	3.51	2.91	3.02	3.05	3.47	3.26	3.20	2.86	3.84	4.10	4.49	3.78	1.82	3.10	
Fe:Mg Ratio	1.037	1.016	1.052	1.244	2.440	1.714	2.318	0.700	0.925	0.783	0.735	0.801	0.864	0.824	2.203	1.587	1.281	1.380	1.080	0.944	1.350	0.607	0.677	0.720	0.741	0.961	0.704	0.888	0.895	0.769	0.766	0.708	1.029	1.026	0.602	0.575	0.459	0.511	
Trace Elements																																							
Ba*	149	70	70	131	51	292	59	51	168	107	127	90	70	116	33	146	174	146	91	105	49	842	459	37	59	51	78	42	48	22	56	27	28	44	32	44	39	22	
Ce*	68	57	60	54	27	17	26	17	34	28	6	46	15	18	12	81	87	66	21	43	41	37	56	31	37	16	61	60	67	66	39	11	69	48	44	63	64	67	
Cl*	3581	2924	1058	907	8987	23922	9312	2654	4412	20400	44733	3738	2545	4031	1571	3206	1503	2507	2955	2585	1876	890	828	1643	1112	1210	1705	1496	2208	3562	1384	957	1156	947	2365	1530	1486	2420	
Cr*	226	223	251	290	40	58	32	157	1063	686	217	737	986	569	30	129	165	118	123	308	310	570	605	537	875	679	712	792	755	823	608	410	586	677	480	686	912	866	
Cu*	113	114	110	100	27	37	18	62	79	77	57	72	73	69	38	76	79	130	53	119	38	94	172	69	94	96	102	65	63	90	102	124	35	28	119	128	115	108	
Ga*	14	12	13	15	5	5	9	12	16	14	10	16	13	15	2	12	11	10	7	16	12	14	12	12	11	13	13	13	14	11	11	16	18	18	15	13	16	17	
La*	13	28	34	32	10	11	4	0	1	5	4	4	0	7	4	31	29	36	14	8	13	10	21	4	2	6	22	19	15	19	12	6	11	14	3	14	7	17	
Nb*	49	42	49	55	6	7	8	18	22	18	16	20	20	17	5	51	55	57	30	43	25	29	31	23	25	24	33	32	33	30	29	18	29	29	25	29	33	28	
Nd*	37	21	22	34	15	6	25	22	28	19	15	29	10	5	14	36	40	24	14	32	18	18	29	22	23	15	42	36	30	40	19	11	34	30	25	24	40	41	
Ni*	112	110	106	107	23	33	43	76	262	311	153	315	225	320	19	63	88	65	44	112	206	421	370	343	440	415	401	420	407	313	267	329	254	213	273	260	479	410	
Pb*	2	0	1	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Rb*	13	13	19	8	21	23	36	9	8	14	16	9	5	14	17	22	15	15	15	20	9	5	20	17	18	16	14	13	19	12	10	27	51	36	16	7	15		
S*	236	245	247	255	530	458	248	293	211	198	271	173	187	182	241	209	187	223	293	199	199	134	215	178	150	171	161	168	154	190	167	193	170	204	183	182	154	199	
Sr*	372	561	279	447	70	103	97	393	325	329	474	383	277	366	52	497	358	533	460	355	238	124	494	131	205	209	171	119	129	143	157	154	141	107	130	125	128	117	
Th*	6	4	4	3	10	7	8	2	3	4	1	6	7	6	12	9	7	10	1	11	6	5	7	6	2	9	10	5	6	6	5	9	2	4	11	9	10		
V*	257	268	284	295	47	50	39	178	332	220	112	250	330	228	69	165	222	178	72	430	216	314	327	159	319	175	282	190	175	220	240	170	185	226	304	310	466	361	
Y*	20	17	24	22	12	14	18	15	17	15	19	15	14	16	12	23	27	24	18	16	20	22	24	18	17	23	24	22	25	26	17	15	28	22	16	23	23	22	
Zn*	78	74	85	97	25	35	31	60	81	80	61	7	68	81	21	69	149	131	59	157	96	82	81	72	81	85	94	95	93	84	84	85	87	83	109	86	96	87	
Zr*	133	112	142	158	42	48	55	85	162	126	71	124	159	119	34	131	149	163	102	146	107	129	131	96	111	122	153	147	154	156	142	94	148	148	133	153	167	147	
Trace Element Ratios																																							
Zr*/Y*	6.65	6.59	5.92	7.18	3.50	3.43	3.06	5.67	9.53	8.40	3.74	8.27	11.36	7.44	2.83	5.70	5.52	6.79	5.67	9.13	5.35	5.86	5.46	5.33	6.53	5.30	6.38	6.68	6.16	6.00	8.35	6.27	5.29	6.73	8.31	6.65	7.26	6.68	
Zr*/Nb*	2.71	2.67	2.90	2.87	7.00	6.86	6.88	4.72	7.36	7.00	4.44	6.20	7.95	7.00	6.80	2.57	2.71	2.86	3.40	3.40	4.28	4.45	4.23	4.17	4.44	5.08	4.64	4.59											

APPENDIX B  
 Chemical Analyses of Cretaceous Volcaniclastites from Site 801 (Unit III) and Site 802 (Units VIII to IX) Recalculated on a Volatile-free Basis

Hole	801A-	801A-	801A-	801B-	801B-	801B-	801B-	801B-	801B-	801B-	801B-	801B-	802A-	802A-	802A-
Core-section	16R-1	18R-1	18R-1	1R-2	1R-3	1R-4	2R-1	3R-1	6R-4	8R-2	8R-5	13R-1	40R-2	43R-2	56R-3
Interval(cm)	108-112	25-30	138-142	26-31	145-150	72-77	96-104	16-21	90-95	144-150	29-34	94-99	122-129	52-56	23-29
Depth (mbsf)	138.68	157.25	158.38	187.76	190.45	191.22	196.46	205.06	238.70	255.64	258.99	301.94	360.82	384.12	500.33
<b>Major Elements</b>															
SiO <sub>2</sub> *	53.65	44.59	53.96	48.57	47.54	47.40	50.95	49.99	53.33	61.24	62.39	57.72	53.05	56.27	59.68
TiO <sub>2</sub> *	3.26	1.94	2.37	3.34	3.39	3.38	2.55	2.65	2.81	1.91	2.08	1.15	2.83	3.24	1.29
Al <sub>2</sub> O <sub>3</sub> *	9.16	9.71	12.19	9.56	9.87	9.62	11.07	11.11	10.72	9.62	9.67	12.15	11.29	11.02	14.48
Fe <sub>2</sub> O <sub>3</sub> *	10.73	9.03	10.73	12.22	12.48	12.64	11.57	11.76	11.25	10.23	9.70	10.25	10.77	11.35	7.95
MnO*	0.16	0.45	0.19	0.20	0.20	0.21	0.22	0.26	0.23	0.19	0.20	0.13	0.22	0.14	0.07
MgO*	11.58	7.54	9.62	13.40	12.61	12.98	14.72	14.65	10.50	6.47	8.65	11.37	7.09	7.76	6.30
CaO*	8.02	22.09	5.96	7.40	8.10	8.50	4.20	4.56	4.50	4.93	2.85	2.20	10.27	5.01	2.63
Na <sub>2</sub> O*	2.21	2.79	3.13	3.01	3.71	3.46	3.33	3.59	4.08	2.49	2.95	2.25	2.59	2.76	2.17
K <sub>2</sub> O*	0.62	1.53	1.32	2.05	1.68	1.32	1.00	1.20	2.04	2.79	1.44	2.76	1.54	2.27	5.27
P <sub>2</sub> O <sub>5</sub> *	0.41	0.28	0.35	0.48	0.49	0.49	0.36	0.37	0.39	0.27	0.28	0.07	0.31	0.41	0.03
<b>Major Element Ratios</b>															
Na <sub>2</sub> O+K <sub>2</sub> O	2.83	4.32	4.45	5.06	5.39	4.78	4.34	4.78	6.12	5.28	4.36	5.01	3.93	5.04	7.44
Fe:Mg Ratio	0.916	1.185	1.104	0.902	0.979	0.963	0.777	0.794	1.060	1.564	1.101	0.891	1.503	1.447	1.248
<b>Trace Elements</b>															
Ba*	106	202	99	1027	1053	985	315	291	130	129	111	28	117	101	13
Cu*	116	48	55	117	134	103	66	77	104	55	59	4	56	86	12
Cl*	2118	2305	2879	1612	2657	1863	1277	1112	6003	4124	8152	2634	3532	5202	2409
Cr*	661	207	270	568	600	655	619	636	403	228	270	341	249	571	172
Cu*	215	58	64	85	93	90	56	51	91	69	59	124	86	113	197
Ga*	13	13	15	16	15	15	15	17	13	13	13	12	19	16	14
La*	50	12	23	48	51	41	22	31	34	14	10	3	23	33	0
Nb*	54	33	38	56	57	57	31	30	38	24	24	5	32	30	5
Nd*	42	37	23	47	65	44	36	39	57	35	26	13	22	57	12
Ni*	158	111	118	188	204	219	300	310	156	129	121	126	162	243	199
Pb*	0	2	0	4	3	3	0	0	0	1	0	1	0	0	0
Rb*	8	19	15	21	17	13	6	8	17	39	17	25	21	32	45
S*	274	283	293	212	228	212	186	168	244	237	226	162	219	221	170
Sr*	197	210	198	123	149	146	198	121	1031	255	381	141	359	361	87
Th*	6	1	5	5	4	3	5	5	0	5	4	5	0	3	6
V*	343	194	277	325	326	301	284	246	233	180	233	258	261	293	245
V*	24	20	25	22	23	24	24	23	26	20	20	15	25	32	14
Zn*	99	81	87	96	100	101	103	98	98	74	79	164	109	111	97
Zr*	252	155	184	270	277	275	204	219	199	147	157	70	215	209	71
<b>Trace Element Ratios</b>															
Zr*/V*	10.50	7.75	7.36	12.27	12.04	11.46	8.50	9.52	7.65	7.35	7.85	4.67	8.60	6.53	5.07
Zr*/Nb*	4.67	4.70	4.84	4.82	4.86	4.82	6.58	7.30	5.24	6.13	6.54	14.00	6.72	6.97	14.20
Cr*/Ni*	4.18	1.86	2.29	3.02	2.94	2.99	2.06	2.05	2.58	1.77	2.23	2.71	1.54	2.35	0.86
Ti*/V*	57.03	60.00	51.34	61.66	62.39	67.38	53.87	64.63	72.36	63.67	53.56	26.74	65.06	66.35	31.59



APPENDIX C  
Chemical Analyses of Miocene Volcaniclastites from Site 802 (Unit II) Recalculated on a Volatile-free Basis

Hole	802A-3R-1	802A-4R-1	802A-4R-2	802A-4R-2	802A-5R-1	802A-5R-2	802A-6R-2	802A-8R-1	802A-8R-CC	802A-10R-3	802A-14R-2	802A-15R-1	802A-16R-1	802A-17R-2	802A-23R-1	802A-27R-2
Core-section	3R-1	4R-1	4R-2	4R-2	5R-1	5R-2	6R-2	8R-1	8R-CC	10R-3	14R-2	15R-1	16R-1	17R-2	23R-1	27R-2
Interval(cm)	75-80	111-115	14-19	144-149	88-93	38-43	54-60	35-41	0-6	7-13	81-85	19-24	128-133	54-61	60-64	66-73
Depth (mbsf)	15.35	25.41	25.94	27.24	34.58	35.58	44.94	62.25	64.85	83.47	116.71	122.29	123.38	142.44	197.00	237.26
<b>Major Elements</b>																
SiO <sub>2</sub> *	40.92	43.27	46.07	48.54	49.34	47.95	48.24	48.28	47.57	48.45	44.89	47.66	45.70	48.32	49.35	40.06
TiO <sub>2</sub> *	3.08	2.96	2.45	3.47	3.35	3.29	3.22	3.19	3.31	3.29	2.86	3.09	2.56	3.30	2.75	1.56
Al <sub>2</sub> O <sub>3</sub> *	10.72	10.31	9.93	12.62	11.89	11.65	11.54	11.86	11.79	13.11	9.49	10.68	8.97	11.05	12.47	10.27
Fe <sub>2</sub> O <sub>3</sub> T*	10.55	12.19	12.64	14.81	13.20	14.15	14.01	13.43	13.68	13.14	15.42	13.66	14.37	13.57	12.94	8.93
MnO*	0.08	0.09	0.10	0.18	0.17	0.20	0.20	0.18	0.18	0.18	0.21	0.18	0.18	0.18	0.26	0.26
MgO*	8.14	10.99	12.29	13.54	13.83	13.89	13.69	11.84	10.65	9.40	17.47	13.23	18.67	11.72	11.82	7.41
CaO*	20.09	14.82	10.30	2.40	2.88	3.99	3.46	5.08	7.79	6.17	7.05	8.48	6.83	8.06	5.91	26.60
Na <sub>2</sub> O*	3.97	3.46	3.46	3.58	3.78	3.21	3.68	4.92	3.48	5.55	1.88	2.32	1.62	2.30	3.61	3.55
K <sub>2</sub> O*	2.15	1.68	1.82	1.03	1.62	1.04	1.42	1.06	1.31	0.44	0.41	0.53	0.35	0.33	0.71	1.29
P <sub>2</sub> O <sub>5</sub> *	0.47	0.52	0.83	0.24	0.44	0.41	0.38	0.41	0.43	0.46	0.34	0.43	0.35	0.43	0.34	0.27
<b>Major Element Ratios</b>																
Na <sub>2</sub> O+K <sub>2</sub> O	6.12	5.14	5.28	4.61	5.39	4.26	5.11	5.98	4.79	5.99	2.29	2.85	1.98	2.62	4.31	4.84
Fe:Mg Ratio	1.282	1.097	1.018	1.082	0.944	1.008	1.012	1.122	1.270	1.382	0.863	1.021	0.761	1.145	1.083	1.193
<b>Trace Elements</b>																
Ba*	124	63	102	86	201	104	171	174	169	238	154	140	100	104	90	369
Ce*	27	50	40	60	54	40	40	44	61	43	29	49	41	52	22	6
Cl*	6353	4454	3399	3063	3128	3053	5333	4895	3200	14350	2017	2325	3917	3222	5374	8981
Cr*	479	475	410	662	515	688	704	704	644	553	845	630	901	783	658	568
Cu*	106	101	91	108	104	112	118	116	117	118	91	104	116	112	128	83
Ga*	12	15	17	21	24	18	16	20	19	19	10	19	11	19	19	12
La*	1	14	18	12	16	3	4	14	8	4	17	7	5	6	10	0
Nb*	24	23	20	25	23	24	22	22	24	25	21	23	20	25	19	12
Nd*	18	40	26	40	35	31	28	29	40	30	9	30	34	30	10	18
Ni*	212	279	242	375	242	353	431	355	268	216	591	365	692	408	316	215
Pb*	7	3	6	0	2	5	3	2	1	3	5	5	4	1	2	4
Rb*	35	26	28	16	21	16	18	17	20	10	6	11	7	4	11	21
S*	400	349	287	308	452	419	658	377	198	149	980	201	214	218	206	259
Sr*	148	125	120	102	132	166	171	155	368	392	332	524	451	635	253	310
Th*	4	3	3	5	4	4	2	2	1	1	1	0	0	0	1	1
V*	536	451	166	397	369	371	388	298	354	441	313	304	318	351	325	219
Y*	26	29	28	34	31	31	31	30	30	30	25	28	24	28	26	22
Zn*	94	106	99	130	120	121	119	116	114	109	128	117	119	118	107	88
Zr*	221	210	176	241	232	224	218	219	221	223	192	212	174	223	179	101
<b>Trace Element Ratios</b>																
Zr*/Y*	8.50	7.24	6.29	7.09	7.48	7.23	7.03	7.30	7.37	7.43	7.68	7.57	7.25	7.96	6.88	4.59
Zr*/Nb*	9.21	9.13	8.80	9.64	10.09	9.33	9.91	9.95	9.21	8.92	9.14	9.22	8.70	8.92	9.42	8.42
Cr*/Ni*	2.26	1.70	1.69	1.77	2.13	1.95	1.63	1.98	2.40	2.56	1.43	1.73	1.30	1.92	2.08	2.64
Ti*/V*	34.48	39.38	88.55	52.44	54.47	53.21	49.79	64.23	56.10	44.76	54.82	60.99	48.30	56.41	50.77	42.74

16 15 14 13 12 11 10 9 8 7 6 MICROBOX 7 8 9 10 11 12 13 14 15