

Site 1256, Table T18. Shipboard ICP-AES reproducibility for standards BAS-206 and BAS-140 and Sample 309-U1256D-84R-1, 54–58 cm.

																				Average	Standard deviation	RSD (%)	
BAS-206 ICP run:	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9					
Major element oxide (wt%):																							
SiO ₂	51.52	49.26	48.66	48.14	49.26	47.39	48.25	48.15	48.60	43.54	47.98	48.24	49.12	49.09	48.58	48.44	49.54	51.01					
TiO ₂	1.86	2.15	2.00	2.05	2.17	2.31	0.73*	2.04	1.93	1.96	2.06	2.06	2.06	2.00	2.04	2.10	2.11	1.81					
Al ₂ O ₃	14.18	14.25	14.04	14.21	14.29	14.00	14.03	14.16	13.98	13.84	13.95	14.12	13.99	14.06	14.12	14.33	14.25	14.23					
Fe ₂ O ₃	14.64	14.66	14.65	14.59	14.23	13.99	14.42	14.67	14.68	13.43	14.35	14.58	14.60	14.56	14.60	14.51	15.07	14.80					
MnO	0.28	0.26	0.27	0.27	0.27	0.26	0.25	0.26	0.27	0.13	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.27					
MgO	6.62	6.56	6.70	6.59	6.69	6.55	6.62	6.41	6.73	6.63	6.72	6.78	6.66	6.74	6.76	6.82	6.88	6.62					
CaO	9.49	9.89	9.67	9.67	9.76	9.61	9.57	9.96	9.97	9.45	9.56	9.64	9.63	9.99	9.91	9.84	9.91	9.79					
Na ₂ O	2.68	2.64	2.80	2.79	2.77	2.70	2.82	2.83	2.80	2.72	2.74	2.79	2.65	2.77	2.78	2.76	2.83	2.72					
K ₂ O	0.21	0.20	0.20	0.20	0.18	0.18	0.18	0.18	0.23	0.20	0.17	0.17	0.18	0.18	0.12	0.13	0.19	0.19					
P ₂ O ₅	0.12	0.16	0.20	0.19	0.14	0.22	0.18	0.15	0.12	0.18	0.20	0.16	0.13	0.21	0.21	0.15	0.23	0.20					
Average	48.60	1.62	3.3																				
Trace element (ppm):																							
Zn	91	111	102	102	113	116	105	115	114	117	122	118	119	120	123	119	128	130					
Co	54	53	58	54	54	59	43	52	56	49	58	50	52	51	67	51	53	51					
Ni	59	59	60	60	28	37	28	40	47	47	51	30	67	65	46	36	51	49					
Sc	47	46	45	46	47	46	45	46	46	47	45	45	45	57	45	45	46	47					
Cr	124	124	126	126	79	78	74	80	80	78	79	79	80	77	80	77	80	81					
V	439	454	443	452	449	446	443	457	442	468	452	459	470	449	453	456	462	471					
Nb	7	7	6	1	9	7	—	—	—	—	—	—	—	—	—	—	—	—					
Cu	68	69	77	59	71	49	55	67	67	69	84	62	68	64	68	73	81	62					
Zr	128	131	128	126	124	126	125	137	136	132	129	133	137	133	128	129	132	132					
Y	47	48	48	48	48	48	48	49	49	49	49	50	48	49	50	48	50	50					
Sr	116	114	113	114	115	115	106	113	112	114	114	110	115	115	113	111	112	110					
Ba	49	50	47	48	47	48	49	48	42	44	42	41	43	44	46	45	44	44					
Average	115	9.7	7.5																				
BAS-140 ICP run:	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	
Major element oxide (wt%):																							
SiO ₂	51.56	52.18	51.30	50.41	51.26	52.10	55.02	50.00	50.84	51.10	51.39	50.34	50.09	50.83	51.66	51.01	51.42	51.10	51.06	50.64	53.56	53.37	
TiO ₂	1.00	1.03	1.01	0.97	1.04	1.04	0.89	1.02	1.05	1.01	1.00	0.99	1.00	0.97	1.01	0.88	1.00	1.03	1.00	1.01	1.02	1.02	
Al ₂ O ₃	14.33	14.70	14.80	14.72	14.73	14.88	14.84	14.32	14.31	14.55	14.49	14.52	14.74	14.61	15.04	14.54	14.60	14.67	14.65	14.72	14.77	14.62	
Fe ₂ O ₃	11.00	11.02	11.19	11.20	11.08	11.44	11.63	11.21	11.34	11.19	11.25	11.13	11.06	11.22	11.26	11.39	11.34	11.39	11.10	11.08	11.34	11.23	
MnO	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.18	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	
MgO	8.04	8.34	8.25	8.25	8.07	8.15	8.26	8.16	8.19	8.22	8.02	8.29	8.23	8.24	8.42	8.21	8.23	8.22	8.24	8.27	8.16	8.25	
CaO	12.39	12.37	12.58	12.66	12.41	12.76	12.35	12.50	12.38	12.52	12.51	12.45	12.76	12.71	12.91	12.58	12.47	12.70	12.55	12.36	12.39	12.44	
Na ₂ O	1.74	1.81	1.82	1.82	1.80	1.84	1.77	1.83	1.82	1.80	1.79	1.78	1.80	1.79	1.82	1.79	1.78	1.80	1.82	1.79	1.80	1.76	
K ₂ O	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
P ₂ O ₅	0.12	0.03	0.02	0.06	0.12	0.06	0.05	0.07	0.08	0.01	0.06	0.12	0.08	0.12	0.03	0.10	0.05	0.03	0.10	0.08	0.11	0.03	
Average	51.47	1.20	2.3																				
Trace element (ppm):																							
Zn	78	79	78	79	70	81	87	48	81	54	78	75	79	79	78	75	75	77	79	76	78	78	
Co	46	53	53	49	41	56	44	40	48	47	51	51	51	45	48	45	45	45	52	59	51	54	
Ni	77	83	90	81	78	84	79	77	82	80	83	84	86	75	76	79	77	79	86	86	81	88	
Sc	35	35	35	35	35	35	34	35	36	35	36	39	36	34	35	35	35	35	35	35	35	34	
Cr	176	174	180	176	179	182	177	177	181	178	186	190	186	182	183	185	189	189	189	183	186	187	
V	324	330	333	332	335	338	328	332	331	329	334	335	341	333	333	324	329	328	351	333	334	336	
Nb											2	4	BDL	13	4	4	6	3	4	2	5	4	
Cu	82	77	78	77	79	78	76	77	79	75	78	74	81	77	76	75	79	78	82	80	81	82	
Zr	48	49	49	51	51	50	47	48	48	51	48	49	50	49	51	49	49	50	49	47	50	50	
Y	27	27	28	29	28	29	28	28	28	28	28	29	28	29	28	29	28	29	29	29	28	29	
Sr	56	56	51	52	57	57	53	55	55	55	53	53	48	49	53	52	52	51	56	56	48	48	
Ba	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Average	76	8.45	11.2																				
309-1256-84R-1, 54–58 cm																							
ICP run:	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20			
Major element oxide (wt%):																							
SiO ₂	52.75	52.21	52.88	56.95	53.78	53.24	52.22	51.98	52.49	51.81	51.57	52.27	52.43	53.30	52.15	52.23	52.30	52.20	54.85	53.13			
TiO ₂	1.27	1.30	1.39	1.51	1.29	1.16	1.35	1.32	1.34	1.32	1.33	1.29	1.33	1.31	1.34	1.32	1.33	1.34	1.32	1.32			
Al ₂ O ₃	14.13	14.24	14.13	14.77	14.04	13.77	13.92	14.00	13.86	13.77	13.94	13.98	14.13	14.16	13.88	14.04	14.09	13.91	14.07	13.94			
Fe ₂ O ₃	11.80	12.09	11.70	13.26	12.06	11.94	12.03	11.89	12.04	12.05	11.81	11.79	11.92	11.96	11.93	11.71	12.07	11.96	11.88	12.03			
MnO	0.24	0.24	0.25	0.27	0.26	0.24	0.25	0.24	0.25	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
MgO	7.38	7.25	7.40	7.95	7.53	7.35	7.35	7.38	7.41	7.46	7.40	7.50	7.52	7.41	7.42	7.35	7.43	7.42	7.31	7.42			
CaO	10.77	10.75	10.71	11.39	10.80	10.47	10.81	10.60	10.78	10.85	10.68	10.79	10.84	10.90	10.85	10.59	10.81	10.80	10.65				