

Expedition 313 Site M0027, Table T9. Composition of interstitial water, Hole M0027A. (See table notes.)

Core, section, interval (cm)/Sample*	IW number	Type	Mass (g)	Depth (mbsf)	Analyte:	pH	Alkalinity	Chloride	Br	Br/Cl	Sulfate	NH <sub>4</sub> <sup>+</sup>	Li	Na	K	Mg	Ca	Sr	Ba	B	Al	Si	P	Mn	Fe
					Unit: Method:	(25°C) ISE	(meq/L) Titration	(mM) Titration	(μM) IC	(molar) IC	(mM) IC	(μM) Conductivity	(μM) ICP-AES	(mM) CB	(mM) ICP-AES	(mM) ICP-AES	(mM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES	(μM) ICP-AES
313-M0027A-																									
1H-1, 50a	1	Rh	32.5	0.5	7.55	2.45	524.3	785	1.506	26.08	59	46.9	445.0	10.04	51.86	10.31	86.9	0.2	396	2.3	124	0.5	5.1	23.1	
1H-1, 100a	2	Rh	35	1	7.64	2.54	523.3	794	1.510	26.31	62	49.9	445.0	9.96	51.71	10.28	86.3	0.2	396	1.2	117	-0.9	4.3	18.3	
1H-2, 50a	3	Rh	36	2	7.38	2.53	524.3	804	1.519	26.45	59	47.9	448.7	9.81	50.70	10.14	85.2	0.2	388	0.9	117	2.0	4.1	17.3	
2H-1, 75	4	Rh	21.5	3.17	7.43	2.45	523.3	791	1.512	26.13	69	49.3	447.2	9.77	50.62	10.11	85.4	0.2	396	1.3	174	3.0	7.5	28.3	
2H-2, 40	5	Rh	27	4.32	7.43	2.44	523.3	788	1.502	26.20	62	48.9	447.8	9.68	50.51	10.04	84.6	0.2	389	2.4	168	3.0	7.4	33.3	
3H-1, 77	6	Rh	18	5.53	7.46	2.40	523.3	795	1.517	26.22	59	49.0	449.0	9.59	50.20	9.84	83.2	0.2	385	1.4	157	1.4	8.4	19.3	
6H-1, 98-104	7	Rh	10	12.55	7.47	2.61	512.8	754	1.471	26.48	91	50.7	442.0	9.59	48.09	10.53	87.4	0.4	370	1.5	155	2.7	7.5	12.8	
7H-1, 127	8	Rh	11	14.68	7.34	2.42	521.4	691	—	—	97	49.6	437.2	10.39	52.42	10.68	90.3	0.3	419	2.3	212	7.4	10.5	56.0	
8H-1, 120	9	Rh	13	16.46	7.50	2.90	465.8	691	1.477	23.18	291	37.7	390.5	8.96	46.64	11.18	83.7	0.4	297	1.3	139	6.7	16.2	50.2	
9H-1, 28 (78)	10	Rh	0.9	17.92	—	—	413.6	605	1.483	19.65	378	35.4	345.4	8.39	40.41	10.69	76.8	0.6	255	2.5	186	3.0	16.5	25.4	
10H-1, 45	11	Rh	0.4	19.58	—	—	240.7	380	1.577	10.67	338	17.2	199.7	5.01	22.58	8.00	49.9	0.8	128	35.1	143	0.8	8.6	9.6	
11H-1, 109-114	12	Sq	16	21.23	7.90	3.45	259.8	392	1.519	8.59	567	19.7	204.9	4.60	25.50	9.80	61.8	3.3	154	0.5	226	1.5	10.4	0.6	
13H-1, 95	13	Rh	32	23.63	7.70	4.02	187.2	289	1.536	4.01	703	15.9	149.2	3.83	15.37	7.44	45.2	0.7	73	1.3	211	3.7	7.2	26.9	
17H-1, 63	14	Rh	7	28.71	7.52	4.00	174.8	270	1.619	3.71	583	16.5	139.9	3.42	14.16	7.07	44.0	0.5	70	14.0	234	0.9	4.7	4.7	
27X-1, 63-70	15	Rh	6	47.15	7.56	2.45	485.5	706	1.459	25.24	241	59.2	409.3	9.15	43.72	16.32	149	1.7	266	6.5	89	8.9	1.0	0.7	
29X-1, 46	16	Rh	1	53.30	6.85	1.07	373.1	550	1.474	19.57	229	37.4	319.9	11.88	29.15	11.87	101	1.3	143	3.5	69	6.9	4.6	0.9	
30X-1, 68	17	Rh	1.5	56.35	7.23	2.00	422.7	614	1.457	22.18	271	54.7	346.4	8.64	40.92	16.09	141	1.7	212	5.2	91	8.8	5.8	0.9	
32X-1, 50-55	18	Sq	3	62.30	7.97	3.77	529.0	761	1.478	27.12	260	66.1	449.4	9.64	46.61	17.45	149	6.7	444	10.9	212	6.4	3.7	2.7	
34X-1, 34	19	Rh	1.3	71.26	6.95	1.67	443.9	630	1.451	22.99	188	50.7	373.4	8.48	40.88	14.00	129	1.5	241	3.8	88	5.2	2.0	0.9	
35X-1, 42	20	Rh	14	74.39	6.85	2.48	378.2	535	1.469	18.79	293	40.4	316.0	6.84	38.00	9.68	75.6	1.1	209	1.3	253	3.3	16.6	23.6	
35X-1, 93-98	21	Sq	15	74.93	7.55	2.78	383.6	564	1.476	19.57	313	46.1	310.6	7.96	42.49	11.01	85.4	6.0	274	2.9	262	3.2	17.7	1.1	
38X-1, 109	22	Rh	5	78.11	7.22	2.51	274.6	408	1.452	13.54	305	43.5	222.0	6.40	30.26	7.62	57.8	1.3	206	-0.1	291	1.8	15.2	0.5	
39X-1, 16	23	Rh	3	78.63	7.03	2.56	227.9	356	1.509	9.35	324	31.4	185.9	5.30	22.76	6.13	45.8	0.8	158	1.7	298	3.1	11.7	0.6	
41X-1, 22	24	Rh	1.5	79.73	6.98	1.80	438.5	630	1.472	22.38	215	40.9	389.2	8.25	32.69	11.17	100	1.4	200	1.0	77	1.4	2.6	0.8	
44X-1, 13	25	Rh	1.5	83.25	7.50	2.59	469.7	683	1.481	24.59	179	66.2	421.6	8.98	33.63	11.93	107	1.6	215	2.2	70	2.3	2.3	0.8	
47H-1, 82-90	26	Rh	18	87.38	7.20	3.03	145.6	213	1.478	4.79	332	21.0	119.5	3.67	13.30	4.12	30.7	1.0	95	1.0	242	2.0	6.7	10.3	
50H-1, 55-60	27	Sq	10	95.90	7.19	2.29	434.0	641	1.467	20.99	215	64.5	359.5	7.37	45.11	10.53	81.5	2.7	239	1.2	351	-0.2	23.8	127.8	
51H-1, 19-24	28	Sq	6	110.79	7.51	2.38	397.4	591	1.488	19.57	290	52.4	328.1	6.36	41.28	10.96	83.7	2.3	161	1.4	225	3.1	16.5	35.8	
53H-1, 40-48	29	Rh	7	135.41	7.52	2.74	384.7	573	1.483	19.47	170	45.3	327.8	7.03	35.23	10.63	90.5	1.7	242	0.9	115	6.0	7.1	1.3	
55H-1, 6	30	Rh	<1	159.38	—	—	360.4	536	1.469	18.48	—	48.0	308.7	6.64	32.64	9.69	85.3	1.5	165	1.8	65	0.9	3.4	0.7	
57H-2, 9	31	Rh	13	167.35	7.36	2.54	380.1	565	1.482	20.18	316	42.2	315.1	6.31	40.29	10.50	78.4	1.0	162	1.9	245	1.5	20.4	2.1	
58H-1, 33-43	32	Rh	21	174.95	7.42	3.35	252.3	383	1.507	9.89	325	22.7	198.9	4.77	27.25	8.52	63.2	0.5	191	1.6	174	1.4	9.8	18.6	
59H-1, 11-16	33	Rh	10	176.70	7.28	3.87	183.3	290	1.492	6.96	414	14.2	146.4	4.07	19.12	6.07	47.1	0.9	230	2.1	143	2.1	6.3	7.0	
61H-1, 12-16	34	Rh	1	182.80	7.60	3.19	92.6	138	1.511	3.23	328	3.1	82.2	2.48	6.56	2.13	13.7	0.2	195	1.9	87	0.4	4.6	0.4	
61H-2, 45-50	35	Sq	24	183.38	7.35	5.06	221.8	336	1.490	9.29	385	10.7	185.9	4.25	20.84	6.74	56.8	2.7	319	1.9	197	1.2	8.7	2.9	
63H-1, 19-21	36	Rh	1.4	188.96	—	—	120.4	180	1.515	5.11	385	3.9	110.8	3.05	8.44	2.99	23.6	0.4	254	0.5	151	2.4	3.6	0.4	
65X-2, 145-150	37	Sq	25	194.80	7.56	7.50	106.6	157	1.539	4.37	252	10.4	102.2	2.00	6.66	2.58	21.1	1.9	315	0.1	214	8.4	3.3	6.2	
67X-2, 139-144	38	Sq	26.3	199.50	7.65	7.54	108.6	161	1.537	3.80	439	18.3	101.9	1.97	6.89	2.86	23.3	2.7	324	0.6	290	3.8	6.2	1.6	
70X-1, 145-150	39	Sq	19.8	208.54	7.93	7.63	107.7	161	1.565	2.39	442	20.3	98.3	2.75	6.17	3.19	26.4	6.1	275	0.7	798	4.7	1.3	0.6	
73X-1, 140-145	40	Sq	20	212.31	7.73	7.38	104.5	157	1.572	1.63	503	21.8	94.1	2.63	5.75	3.23	26.4	8.3	304	0.2	928	4.0	1.0	1.1	
76X-2, 141-146	41	Sq	21.4	222.20	7.72	7.88	82.7	136	1.652	0.49	422	25.9	74.9	2.13	4.25	2.79	22.4	8.4	270	0.3	1154	4.4	0.4	0.1	
81R-1, 98-103	42	Sq	22.6	229.43	8.02	6.83	77.6	125	1.652	0.08	279	32.8	70.2	1.75	3.63	2.58	20.7	5.6	290	0.4	1206	2.9	0.3	0.1	
84R-2, 145-150	43	Sq	20.6	239.66	7.80	8.30	67.4	111	1.663	0.24	290	37.0	63.1	1.38	3.19	2.51	19.4	7.0	246	0.3	1167	2.4	0.5	0.3	
87R-2, 5-11	44	Sq	31.8	248.29	7.70	8.20	65.2	114	1.671	0.48	399	37.8	60.3	1.67	3.15	2.85	22.3	5.1	278	0.5	1276	3.1	0.4	0.2	
90R-1, 145-150	45	Sq	33.8	257.34	7.86	7.61	78.4	128	1.580	1.32	500	48.1	69.9	2.16	3.94	4.09	31.5	4.2	267	0.5	1221	3.4	0.5	0.2	
93R-1, 145-150	46	Sq	23.5	266.49	7.74	7.01	71.0	111	1.650	1.05	512	43.7	63.6	1.89	3.29	3.73	28.1	8.2	273	0.7	1217	3.7	0.4	0.2	
95R-1, 139-143	47	Sq	18.0	272.52	7.98	7.52	49.1	76	1.645	0.27	387	34.9	47.4	1.46	1.78	2.15	15.6	11.3	311	0.5	1176	3.4	0.2	0.3	
98R-1, 141-145	48	Sq	17.5	281.69	7.65	7.72	55.6	88	1.669	0.58	407	37.7	52.7	1.45	2.32	2.61	19.1	10.8	252	0.6	1179	3.5	0.4	0.2	
101R-3, 34-38	49	Sq	19.7	290.84	7.81	7.37	43.5	73	1.687	0.05	329	39.0	42.7	1.14	1.45	1.93	13.9	9.7	247	0.2	1153	2.1	0.5	0.3	
104R-1, 145-150	50	Sq	17.9	300.04	8.31	6.54	54.0	84	1.650	0.47	329	46.0	50.1	1.03	2.42	2.60	18.6	6.2	183	0.4	960	1.5	1.0	0.2	
108R-1, 145-150	51	Sq	31	312.24	7.77	7.93	47.1	74	1.618	0.15	356	44.4	45.1	1.20	1.82	2.46	17.7	6.7	205	0.1	1146	2.5	1.1	0.2	