

Sample # (Dive#_Stn#_Type)		Vvan #	Date	Time (UTC)	Marker#	Renav X	Renav Y	Renav Depth	Heading	Altitude (m)	Type/Collection Meth'd	Comments/Description
J2-207-1-W1-IGT7	Vienna Woods	16899	7/30	14:46		3241	5744	2470	043	5.5	IGT water sample	From open conduit venting clear fluid; top of main chimney stack w/ other venting spires adjacent. T (max) 282°C
J2-207-1-W2-IGT3	Vienna Woods	16950	7/30	15:00		3241	5744	2470	044	5.5	IGT water sample	Replicate fluid sample. Outside temp taken ~ 31 °C.
J2-207-1-W3-M2	Vienna Woods	17000	7/30	15:15		3241	5744	2470	044	5.5	MAJOR water sample	Replicate fluid sample. No temperature taken.
J2-207-2-W1-IGT4	Vienna Woods	17190	7/30	16:08		3336	5782	2475	017	8.3	IGT water sample	From spire for a fluid-solid pair. Clear fluid. T (max) 272°C. PAIR to one fluid from Stn #2.
J2-207-3-W1-IGT8	Vienna Woods	17393	7/30	17:01		3280	5906	2475	271	8.0	IGT water sample	Clear fluid from orifice of small spire from large chimney. T (max) 284°C.
J2-207-3-W2-IGT6	Vienna Woods	17474	7/30	17:38		3279	5908	2474	271	8.0	IGT water sample	Clear smoker from 2 cm wide conduit. Sample was friable and I don't think it is an exact fluid-solid pair to 3-R1. T (max) 230°C.
J2-208-1-W1-IGT8	Roman Ruins	19225	8/02	11:57	2	2797	3254	1677	275	1.3	IGT water sample	Grey/black smoker fluid from top of rotund edifice. Pair to 1-T2 and sulfide 1-R1. T (max) 312 °C.
J2-208-1-W2-IGT5	Roman Ruins	19243	8/02	12:03	2	2797	3254	1677	275	1.3	IGT water sample	Replicate fluid sample. T (max) 314 °C.
J2-208-1-W3-M4	Roman Ruins	19290	8/02	12:23	2	2797	3254	1677	275	1.3	MAJOR water sample	Replicate fluid sample. No T measurement taken.
J2-208-2-W1-IGT1	Roman Ruins	19731	8/02	14:43	1	2805	3234	1675	333	2.9	IGT water sample	Grey/black smoker fluid from beehive. T (max)
J2-208-2-W2-IGT2	Roman Ruins	19754	8/02	14:53	1	2805	3234	1675	333	2.9	IGT water sample	Replicate fluid sample. T (max) °C.
J2-208-2-W3-M2	Roman Ruins	19778	8/02	15:04	1	2808	3232	1676	333	2.9	MAJOR water sample	Replicate fluid sample. No T measurement taken.
J2-209-1-W1-IGT7	Satanic Mills	22129	8/03	11:52	3	2447	2574	1685	188	3.2	IGT water sample	Grey/black smoker from tip of ~3 m chimney. T (max) 293 °C. Pair to sulfide 209-1-R1.
J2-209-1-W1-IGT6	Satanic Mills	22152	8/03	12:00	3	2447	2574	1685	188	3.2	IGT water sample	Replicate fluid sample. T (max) 295°C.
J2-209-1-W3-M4	Satanic Mills	22179	8/03	12:10	3	2447	2574	1685	188	3.2	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-209-6-W1-IGT4	Satanic Mills	23344	8/03	18:40	5	2449	2536.5	1689	349	1.3	IGT water sample	Focused fluid from orifice left open after sampling for sulfide. T (max) 240°C
J2-209-6-W2-M2	Satanic Mills	23413	8/03	18:54	5	2449	2536.5	1689	349	1.3	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-210-1-W1-IGT8	Snowcap	25022	8/04	12:31	6	2146	2425	1643	201	1.1	IGT water sample	Clear fluid sample from same locale as temperature meas. T (max) 117 °C.
J2-210-1-W2-IGT5	Snowcap	25058	8/04	12:39	6	2148	2425	1643	201	1.1	IGT water sample	Replicate fluid sample. T (max) 151 °C. Snorkle came away from orifice during sample.
J2-210-1-W3-M2	Snowcap	25084	8/04	12:49	6	2146	2426	1643	201	1.1	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-210-4-W1-IGT2	Fenway	25881	8/04	17:18		2491	2374	1716	354	2.6	IGT water sample	Fluid sample fired in seawater. No T measurement.
J2-210-7-W1-IGT1	Fenway	26560	8/04	20:17		2489	2384	1710	319	4.1	IGT water sample	Grey-Clear fluid from opened orifice at base of chimney which sampled for sulfide. PAIR sample. T (max) 296, T (avg) 280 °C.

J2-210-7-W2-M4	Fenway	26580	8/04	20:26		2489	2383	1710	319	4.1	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-211-2-W1-IGT7	Tsukushi	27856	8/05	12:12		1839	2237	1660	274	0.9	IGT water sample	Fluid from cracks in sulfide mound. T (max) 60°C.
J2-211-2-W2-IGT6	Tsukushi	27889	8/05	12:26		1839	2237	1660	274	0.9	IGT water sample	Replicate fluid sample. T (max) 62 °C.
J2-211-9-W1-IGT4	Snowcap	29758	8/05	23:23		2143	2440	1639	160	4.6	IGT water sample	Clear fluid from open conduit; PAIR to sulfide 211-4-R2. T (max) 179 °C.
J2-211-9-W2-IGT3	Snowcap	29779	8/05	23:34		2143	2439	1639	160	4.6	IGT water sample	Replicate fluid sample. T (max) 172 °C.
J2-211-9-W3-M4	Snowcap	29816	8/05	23:46		2143	2440	1639	160	4.6	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-212-2-W1-IGT8	Fenway	30519	8/06	14:26	7	2468	2349	1707	294	3.2	IGT water sample	Fluid from small orifice from side of chimney complex venting black smoke. T (max) 330 °C.
J2-212-2-W2-IGT5	Fenway	30599	8/06	14:42	7	2467	2349	1707	291	3.7	IGT water sample	Replicate fluid sample. T (max) ~340 °C.
J2-212-2-W3-M4	Fenway	30630	8/06	14:51	7	2470	2348	1707	291	3.7	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-212-6-W1-IGT2	Fenway	31083	8/06	17:34		2462	2352	1706	075	5.1	IGT water sample	Fluid from vigorous black smoker; encased in thick particle cloud. T (max) 355°C
J2-212-6-W2-IGT1	Fenway	31123	8/06	17:48		2466	2352	1706	075	5.1	IGT water sample	Replicate fluid sample. T (max) 356 °C.
J2-212-6-W3-M2	Fenway	31160	8/06	18:05		2462	2354	1706	075	5.1	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-213-3-W2-IGT6	Roman Ruins	32939	8/07	14:38		2715	3156	1660	187	9.2	IGT water sample	Replicate fluid sample. T (max) 278 °C.
J2-213-3-W3-M4	Roman Ruins	32976	8/07	14:49		2715	3156	1660	187	9.2	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-213-6-W1-IGT3	Rogers Ruins	33496	8/07	17:59	8	2667	3420	1710	234	5.3	IGT water sample	Fluid pair to active black smoker sulfide chimney. T (max) 320 °C.
J2-213-6-W2-IGT4	Rogers Ruins	33542	8/07	18:10	8	2666	3424	1710	234	5.3	IGT water sample	Replicate fluid sample. T (max) 320 °C.
J2-213-6-W3-M2	Rogers Ruins	33589	8/07	18:24	8	2667	3423	1710	234	5.3	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-214-3-W1-IGT8	Satanic Mills	35161	8/08	12:26		2450	2603	1682	022	1.3	IGT water sample	Small, low-lying chimney complex, a top volcanics. Orifice of grey smoker, exposed after spire was broken off. T (max) 280 °C.
J2-214-3-W2-IGT5	Satanic Mills	35177	8/08	12:34		2450	2604	1682	022	1.3	IGT water sample	Replicate fluid sample. T (max) 288 °C.
J2-214-3-W3-M4	Satanic Mills	35213	8/08	12:46		2449	2603	1683	044	0.8	MAJOR water sample	Replicate fluid sample. No T measurement. Hard to see tell-tale sign of flow.
J2-214-4-W1-IGT1	Fenway	35459	8/08	14:24		2490	2380	1711	244	7.3	IGT water sample	Fluid from black smoker orifice. This should be fluid and solid PAIR to samples taken earlier dive 210, station 7. T (max) 330 °C.
J2-214-14-W1-IGT2	Tsukushi	36647	8/08	22:33		1841	2239	1660	244	0.2	IGT water sample	Diffuse flow. From same Fe-oxide mound and crack as dive 211, station 2. T (max) 55 °C.
J2-214-14-W2-M2	Tsukushi	36693	8/08	22:50		1842	2241	1660	244	0.2	MAJOR water sample	Replicate fluid sample. No T measurement. Pair to fluids 211-2 and 214-14.

J2-216-2-W1-IGT7	Fenway	39144	8/10	11:15		2460	2354	1710	078	3.4	IGT water sample	From grey smoker orifice. T (max) 283 °C. Pair to a sulfide sample.
J2-216-2-W2-IGT6	Fenway	39173	8/10	11:24		2465	2351	1710	078	3.4	IGT water sample	Replicate fluid sample. T (max) 284 °C.
J2-216-2-W3-M2	Fenway	39225	8/10	11:43		2462	2355	1710	078	3.4	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-216-5-W1-IGT4	Fenway	39549	8/10	13:38	10	2469	2362	1710	099	1.7	IGT water sample	From crack discharging clear fluid; at marker 10 location on mound. T (max) 79 °C.
J2-216-5-W2-IGT3	Fenway	39598	8/10	13:55	10	2464	2359	1710	095	1.8	IGT water sample	Replicate fluid sample. T (max) 80 °C.
J2-216-5-W3-M4	Fenway	39660	8/10	14:20	10	2465	2362	1710	111	1.1	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-217-2-W1-IGT8	Suzette	41519	8/12	13:21		3323	4843.5	1504	059	4.2	IGT water sample	Fluid from Cpy-lined grey smoker chimney. T (max) 302 °C.
J2-217-2-W2-IGT5	Suzette	41540	8/12	13:30		3323	4843.5	1504	059	4.2	IGT water sample	Replicate fluid sample/ T (max) 302 °C.
J2-217-2-W3-M2	Suzette	41562	8/12	13:38		3323	4843.5	1504	059	4.2	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-217-10-W1-IGT1	Suzette	43015	8/12	20:59		2994	4956	1488	269	7.6	IGT water sample	Clear fluid from sampled orifice. T (steady) 275 °C.
J2-217-10-W2-IGT2	Suzette	43074	8/12	21:17		2994	4956	1488	269	7.6	IGT water sample	Replicate fluid sample. T (max) 272 °C.
J2-217-10-W3-M4	Suzette	43119	8/12	21:29		2994	4956	1488	267	6.3	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-218-8-W1-IGT3	NE Paul	45180	8/13	10:56		4800	4585	1879	349	1.5	IGT water sample	Diffuse flow (from fissure) within oxide mound. T (steady) 33 °C.
J2-218-8-W2-IGT4	NE Paul	45190	8/13	20:07		4800	4585	1879	349	1.5	IGT water sample	Replicate fluid sample. 35 °C.
J2-218-8-W3-M4	NE Paul	45210	8/13	20:18		4800	4585	1879	349	1.5	MAJORS water sample	Replicate fluid sample. No T measuremnt.
J2-219-2-W1-IGT7	Suzette	46262	8/14	11:56		2728	4725	1552	112	5.0	IGT water sample	Clear focused flow from (former) beehive edifice. 282 (max) °C.
J2-219-2-W2-IGT6	Suzette	46277	8/14	12:03		2729	4725	1552	112	5.0	IGT water sample	Replicate fluid sample. T (max) 288 °C.
J2-219-2-W3-M2	Suzette	46302	8/14	12:25		2729	4725	1552	112	5.0	MAJOR water sample	Sample did not fire.
J2-219-10-W1-IGT8	Suzette	47971	8/14	20:59		3117	5047	1505	293	3.1	IGT water sample	Clear, focused flow to pair to solid. T (max) 228 °C.
J2-219-10-W1-IGT5	Suzette	48001	8/14	21:07		3117	5047	1505	293	3.1	IGT water sample	Replicate fluid sample. T (max) 227 °C.
J2-220-5-W1-IGT1	Desmos	49577	8/15	15:00		1361	2790	1908	245	2.2	IGT water sample.	Thick, smokey white fluid discharging pervasively across pavement flange structure. T (max) 113 °C
J2-220-5-W2-IGT2	Desmos	49603	8/15	15:16		1361	2790	1908	245	2.2	IGT water sample.	Replicate fluid sample. 116 °C. Relicabrated from 129°C.
J2-220-5-W3-M4	Desmos	49635	8/15	15:32		1361	2790	1908	245	2.2	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-220-15-W1-IGT4	Desmos	51028	8/15	23:42		1357	2786	1908	254	2.3	IGT water sample.	Diffuse, clear flow from Fe-oxide rich broken lavas w/ bacterial sulfur in intersitices. T (max) 72 °C.

J2-220-15-W2-IGT3	Desmos	51053	8/15	23:50		1357	2786	1908	254	2.3	IGT water sample.	Replicate fluid sample. T (max) 68 °C.
J2-220-15-W3-M2	Desmos	51072	8/15	23:57		1357	2787	1908	254	2.3	MAJOR water sample	Replicate fluid sample. No T measurement.
J2-221-3-W1-IGT8	North Su	51905	8/16	13:30		3724	3589	1253	050	3.4	IGT water sample	Clear fluid from crack in blocky scarp. T (max) 45 °C.
J2-221-3-W2-IGT7	North Su	51927	8/16	13:37		3724	3589	1253	050	3.4	IGT water sample	Replicate fluid sample. T variable between 36 and 48 °C.
J2-221-3-W3-M4	North Su	51961	8/16	13:51		3724	3589	1253	050	3.4	MAJOR water sample	Replicate fluid samples. No T data. No good tell-tale flow evident.
J2-221-5-W1-IGT6	North Su	52181	8/16	14:57		3751	3553	1259	053	1.4	IGT water sample	Vigorous white smoker fluid from rubbly volcanic terrain. T (max) 204 °C.
J2-221-5-W2-IGT5	North Su	52244	8/16	15:15		3751	3553	1259	053	2.1	IGT water sample	Replicate fluid sample. T (max) 215 °C.
J2-221-5-W3-M2	North Su	52263	8/16	15:23		3751	3553	1259	053	1.5	MAJOR water sample	Replicate fluid sample. No T data.
J2-222-1-W1-IGT4	Rogers Ruins	54671	8/17	11:13	8	2663	3429	1710	174	3.2	IGT water sample	From orifice exposed from sampling chimney. Thermocouple failed. Pair to solid sample.
J2-222-1-W2-IGT3	Rogers Ruins	54697	8/17	11:22	8	2663	3429	1710	174	3.2	IGT water sample	Replicate fluid sample. T (max) 274 °C.
J2-222-1-W3-M2	Rogers Ruins	54718	8/17	11:28	8	2663	3429	1710	174	3.2	MAJOR water sample	Replicate fluid sample. No T data.
J2-222-4-W1-IGT2	Roman Ruins	55391	8/17	15:05	18	2764	3263	1681	202	2.7	IGT water sample	To pair to solid sample. T (max) 339 °C.
J2-222-4-W2-IGT1	Roman Ruins	55431	8/17	15:13	18	2764	3263	1681	202	2.7	IGT water sample	Replicate fluid sample. T (max) 341 °C
J2-222-4-W3-M4	Roman Ruins	55460	8/17	15:22	18	2764	3263	1681	202	2.7	MAJOR water sample	Replicate fluid sample. No T data.
J2-223-1-W1-IGT8	North Su	57074	8/18	10:56		3802	3664.6	1157	110	7.7	IGT water sample	Black smoker fluid from basal piece of sampled spire. T (max) 299 °C.
J2-223-1-W2-IGT7	North Su	58092	8/18	11:04		3802	3664.6	1157	110	7.7	IGT water sample	Replicate fluid sample. T (max) 300 °C.
J2-223-1-W3-M2	North Su	57116	8/18	11:13		3802	3664.6	1157	110	7.7	MAJOR water sample	Replicate fluid sample. No T data. Good tell-tale discharge through sampler.
J2-223-11-W1-IGT5	North Su	58448	8/18	18:45		3790	3782	1204	206	2.3	IGT water sample	Flow emanating from thicker, friable white sediment. Smoke black to grey in color. T (max) 240 °C.
J2-223-11-W2-IGT6	North Su	58606	8/18	19:26		3789	3781	1204	206	2.3	IGT water sample	Fluid from a similar low porosity zone in sediments. Not the exact same flow. T (steady) 240 °C.
J2-223-15-W1-M4	North Su	59338	8/18	22:44		3746	3701	1182	134	3.3	MAJOR water sample	From the black smoker orifice. No T data; Good tell-tale flow from sampler.
J2-224-6-W1-IGT4	South Su	61130	8/19	18:05		4257	2681	1308	175	3.7	IGT water sample	From open conduit orifice, exposed after sampling. T (max) 264 °C. Dropped to 225 °C during sampling.
J2-224-6-W2-IGT3	South Su	61165	8/19	18:15		4257	2681	1308	186	3.7	IGT water sample	Replicate fluid sample. T (max) 270 °C.
J2-224-6-W3-M2	South Su	61182	8/19	18:28		4257	2681	1308	229	3.7	MAJOR water sample	Replicate fluid sample. No T data.

J2-224-12-W1-IGT1	South Su	61997	8/19	23:25		4300	2638.5	1327	341	3.2	IGT water sample	Black smoker fluid, venting vigorously from exposed open conduit. T (max) 287 °C
J2-224-12-W2-IGT2	South Su	62025	8/19	23:34		4300	2638.5	1327	341	3.2	IGT water sample	Replicate fluid sample from black smoker. T (max) 288 °C.
J2-224-12-W3-M4	South Su	62057	8/19	23:45		4300	2638.5	1327	341	3.2	MAJOR water sample	Replicate fluid sample. No T data. Good tell-tale sign of flow through sampler.
J2-226-2-W1-IGT6	Suzette	63159	8/21	13:36	9	3247	4909	1500	259	1.3	IGT Water sample	Sample of clear flow from outcrop. T (max) 157 °C; but was variable (down to 60 °C) during sampling.
J2-226-2-W2-IGT5	Suzette	63190	8/21	13:48	9	3247	4909	1500	259	1.3	IGT Water sample	Replicate fluid sample. T increased from 189 to 250 °C during sampling.
J2-226-2-W3-M2	Suzette	63220	8/21	14:00	9	3247	4909	1500	259	1.3	MAJOR water sample	Replicate fluid sample. No T data.
J2-226-4-W1-IGT7	Suzette	63950	8/21	18:24		2696	4748	1570	131	1.4	IGT Water sample	Exposed orifice from remaining stump of spire collected as 4-R1, R2 and R3. T (max) 226 °C.
J2-226-4-W2-IGT8	Suzette	63994	8/21	18:43		2695	4749	1570	131	1.4	IGT Water sample	Replicate fluid sample. T (max) 224 °C.
J2-226-4-W3-M4	Suzette	64030	8/21	18:55		2696	4749	1570	132	1.4	MAJOR water sample	Replicate fluid sample. No T data.
J2-227-8-W1-IGT4	North Su	66264	8/22	19:27		3752	3698	1183	112	7.0	IGT water sample	Black smoker fluid; phase separated. Opposite side of edifice to station #7. T (max) 324 °C.
J2-227-8-W2-IGT3	North Su	66325	8/22	19:46		3752	3698	1183	112	7.0	IGT water sample	Replicate fluid sample. T (steady) 324 °C.
J2-227-8-W3-M4	North Su	66351	8/22	19:54		3752	3698	1183	112	7.0	MAJOR water sample	Replicate fluid sample. No T data. Good tell-tale flow prior to sampling.
J2-227-10-W1-IGT2	North Su	66703	8/22	21:22		3801	3685	1155	141	3.5	IGT water sample	Fluid collected from orifice at base of the sampled chimney. T (max) 298 °C.
J2-227-10-W2-IGT1	North Su	66730	8/22	21:29		3800	3685	1154	141	3.5	IGT water sample	Replicate fluid sample. T (max) 298 °C.
J2-227-10-W3-M2	North Su	66777	8/22	21:40		3800	3685	1154	141	3.5	MAJOR water sample	Replicate fluid sample. Trigger depressed and no good tell-tale, but bottle fired.
J2-228-3-W1-M4	Umbo	68662	8/28	23:40		8197	5385	2100	121	4.2	MAJOR water sample	Bottom water. ~4 m off seafloor. Eastern extent of Umbo mound. No hydrothermal activity (anywhere).