

Samples recovered from Vai Lili vent field on TUI05MV, April-May 2005

Sample Number J2-	VV Event #	Date/ Time (UTC )	Position (X,Y)	Nav version #	Lat/lon (origin -22 -14.000 -176 -39.00 )	Vehicle depth (m)	Vehicle hdg	Vehicle altitude (m)	SampleType/collection method	Contact person	Comments
133-1-B1	36681	04/25 15 37	4341, 2114	April-May 05		1736.056	78.36	1.85	Microbial Mat/slurp	A-L Reysenbach	Yellow/Brown mat (mm – cm) thick on sulfide structures. Still active.
133-1-W1-IGT7	36768	04/25 16 04	4341, 2114	April-May 05		1736.423	77.07	1.65	IGT7 fluid sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Diffuse flow around microbial mat. T ~ 39 °C
133-1-W2-IGT8	36802	04/25 16 16	4341, 2114	April-May 05		1736.43	78.5	2.25	IGT8 fluid sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Replicate sample. Same diffuse flow. T ~ 37 °C
133-2-R1	37357	04/25 19 41	4288, 1819	April-May 05		1708.341	288.29	7.388	Andesite/grab	Meg Tivey	Ropy andesite from within volcanic (?) crater.
133-3-R1 133-3-R2	37497	04/25 20 12	4254, 1885	April-May 05		1712.035	81.12	7.388	Andesite/grab	Meg Tivey	Surifical staining w/ Fe and Mn-oxides
133-4-R1	37573	04/25 20 32	4259, 1908	April-May 05		1705.549	154.7	1.15	Andesite/grab	Meg Tivey	Fragile, striated and stained, moderately vesicular andesite w/ silica dandelions.
133-5-W1-IGT4	37989	04/25 21 40	4275, 1951	April-May 05		1711.825	128.99	2.413	IGT4 water sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Diffuse, clear, high T flow from underside of sulfide flange. T ~ 120 °C.

133-5-W2-IGT3	38029	04/25 21 50	4275, 1951	April- May 05		1711.655	138.52	0.738	IGT3 water sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Replicate fluid sample. Temp 120 °C.
133-5-R1	38067	04/25 22 00	4275, 1951	April- May 05		1711.587	139.18	0.813	Active sulfide flange/grab	Meg Tivey	Largely fine- grained Fe/Zn sulfide w/ marcasite/pyrite lining underside.
133-6-W1-IGT2	38446	04/25 22 45	4290, 1972	April- May 05		1719.024	127.23	5.951	IGT2 water sample	Geoff Wheat, Jeff Seewald, Mike Mottl	White smoker, low T focused flow from bulbous sulfide mound. T ~ 69 °C. Sampling by Jap Mkr # 00.
133-6-W2-IGT1	38463	04/25 22 51	4290, 1972	April- May 05		1718.97	127.19	5.988	IGT1 water sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Replicate sample. T = 70 °C.
135-6-B1	45430	04/29 07 00	4341, 2114	April- May 05		1737	170.13	0.788	Microbial Mat/slurp(clogged)/gra b	A-L Reysenbach	Replicate to sample 133-1-B1. Microbial mat from andesite
135-6-RB2	45449	04/29 07 14	4341, 2114	April- May 05		1736.702	205.6	0.775	Andesite/grab	Meg Tivey	Vesicular andesite, external staining. Thick microbial mat.
135-7-W1-Mgreen	45768	04/29 08 19	4289, 1973	April- May 05		1719.004	126.86	5.788	Majors water sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Replicate fluid pairs at Mkr #00 for fluids VL3, from low T focused flow.
135-7-W2-Mred	45819	04/29 08 27	4289, 1973	April- May 05		1719.038	127.01	5.863	Majors water sample	Geoff Wheat, Jeff Seewald, Mike Mottl	Replicate fluid sample for VL3.
135-8-R1	46015	04/29 08 45	4290, 1973	April- May 05		1720.158	273.51	5.438	Active sulfide chimney/grab	Meg Tivey	Sulfide from bulbous sulfide mound, close to fluids VL3.
135-9-R1	46106	04/29 09 04	4279, 1954	April- May 05		1712.063	150.41	5.701	Relict sulfide chimney/grab	Meg Tivey	From inactive sulfide mound. No

											distinguishable chimney or orifice.
135-10-R1	46206	04/29 09 09	4282, 1945	April- May 05		1707.886	183.42	4.151	Relict sulfide/grab	Meg Tivey	Relict sulfide from exterior of small (~ 1 m) mound structure w/ distinct red (Fe-oxide) staining.

Japanese Markers;  
#00 (X4289, Y1973, Z1721 m)