

Table 5. Tritium concentrations and stable isotope values for steam, water and CO₂ collected from features within and around Lassen Volcanic National Park, California.

Site code	Feature type	Sample #	Date	Temp. (°C)	pH (p)	pH (m)	Tritium (TU)	δD water (‰)	δ ¹⁸ O water (‰)	δD-steam (‰)	δ ¹⁸ O-steam (‰)	δD-steam (E) (‰)	δ ¹⁸ O-steam (E) (‰)	δ ¹³ C-CO ₂ (‰)	
BUMPASS HELL															
BH-04	NTS	L82-47	09/01/82	9.5	5.4		21.6	-91	-13.2						
BH-04	NTS	L85-01	09/27/85	7.8	5.7			-91	-13.0						
BH-04	NTS	L93-05	08/11/93	11		3.84		-96	-13.6						
BH-06	TS	L87-04	09/22/87	17.5	5.2			-89	-12.9						
BH-11	FM	T75-03	07/16/75	113						-93	-11.1				
BH-12	FP	L02-08	09/18/02	95.5										-9.5	
BH-13	P	P75-16	10/08/75	90	2.5			-74	-6.3						
BH-14	P	LC82-13	06/17/82	94	3.2			-75	-8.1						
BH-14	P	L82-17	08/26/82	94	3.3			-62	-2.6						
BH-21	P	P75-15	10/08/75	85	2.1			-83	-10.2						
BH-36	P	L83-02	09/21/83	64				-48	4.1						
BH-38	FM	L82-18	08/26/82	106			0.13			-92	-10.8	-93	-10.9		
BH-38	FM	L83-01	09/21/83	102						-96	-12.2				
BH-40	P	L83-03	09/21/83	88				-65	-4.2						
BH-52	TS	L89-07	08/17/89	50.6	2.0			-88	-10.6						
BH-57	TS	P75-23	10/08/75	94	2.1			-62	-4.0						
BOILING SPRINGS LAKE - DRAKESBAD - TERMINAL GEYSER															
BSL	L	L76-15	09/02/76	93	2.5			-72	-6.9						
BSL	TS	L82-38	08/30/82	93				-69	-5.9			-101	-11.6		
BSL	FP	L02-11	09/20/02	95.8										-10.4	
DB-02	TS	L82-23	08/27/82	67				-87	-10.9						
TG	P	J79-03	07/31/79	95	5.2			-84	-9.4						
TG	FM	L82-35	08/30/82	114			0.23					-106	-13.5		
DEVILS KITCHEN															
DK-14	TS	LC82-12	06/16/82	93	5.8			-79	-8.5						
DK-14	TS	L82-19	08/27/82	94.5	5.7			-77	-7.7	-86	-9.2				
DK-34	TS	L82-20	08/27/82	95	4.8			-80	-9.4						
DK-44	TS	L82-22	08/27/82	93.5	6.3			-89	-11.9						
DK-47	P	P75-14	10/05/75	84	6.5			-94	-12.6						
LITTLE HOT SPRINGS VALLEY															
LHSV-02	FP	L83-06	09/22/83	128			0.69					-89	-10.2		
LLHSV-01	FM	L82-30	08/29/82	98						-90	-9.8	-93	-10.4		
LLHSV-02	TS	L82-31	08/16/82	97.5				-60	-1.9	-91	-10	-92	-10.3		
ULHSV-01	TS	L88-17	09/20/88	70.2			0.32	-95	-12.9						
ULHSV-02	TS	L82-32	08/29/82	71	6.1		24.9	-92	-13.2						
SULPHUR WORKS															
SW-00	TS	L82-49	09/01/82	93	1.3			-60	-4.0	-86	-9.8				
SW-00	FM	L02-04	09/16/02	93.6										-8.4	
SW-01	TS	LC82-03	06/14/82	85	6.5			-86	-11.8						
SW-09	FM	L82-25	08/28/82	97						-83	-10.3	-89	-11.3		
SW-09	FM	L83-04	09/21/83	94						-89	-11.5				
SW-VHZ-01	FP	LC82-06	06/14/82	89	7.1			-80	-10.7						
SW-VHZ-01	P	L82-26	08/28/82	90.5	2.1		0.09	-93.3	-12.1						
SW-VHZ-01	FP	L02-01	09/16/02	93.1										-8.4	
SW-VHZ-02	TS	L85-11	09/28/85	90.4	2.5			-59	-2.4						
MORGAN-GROWLER															
GHS	TS	L76-20	10/03/76	96	7.0			-95	-9.2						
GHS	TS	LC82-16	06/18/82	96.5	8.0			-92	-10.0						
GHS	TS	L83-08	09/22/83	97				-93	-9.2			-129	-15.1		
GHS	TS	L84-07	09/12/84	95	8.0			-92	-9.2						
MHS-03	TS	L76-21	10/03/76	52	5.7			-94	-8.9						
MHS-04	TS	P75-07	09/24/75	92	7.5			-94	-8.7						
OTHER [COLD BOILING LAKE - PILOT PINNACLE - REGIONAL SPRINGS]															
O-CBL	L	L82-45	08/31/82	21.5	4.7			-73	-8.9						
O-PP-01	TS	L82-48	09/01/82	86	1.7			-81	-9.1						
O-REG-CS	NTS	L76-02	06/25/76	4.5	5.5			-98	-13.8						
O-REG-DS	NTS	L76-04	06/26/76	9.5	5.9			-95	-13.3						
O-REG-DS	NTS	L89-10	08/18/89	10	5.5		10.7	-95	-12.9						
O-REG-DS	NTS	L93-14	08/14/93	9		7.01		-95	-13.1						
O-REG-KCCS	NTS	L76-03	06/25/76	4	5.5			-97	-13.5						
O-REG-KCCS	NTS	L82-46.5	08/31/82	8			27.8	-92	-13.6						
O-REG-MS	NTS	L76-01	06/25/76	6	6.0			-100	-13.8						
O-REG-MS	NTS	T79-06	08/22/79	7			49.2	-100	-13.8						
O-REG-MS	NTS	L93-01	08/10/93	15		6.53		-99	-13.6						
O-REG-OBS	NTS	P75-06	10/04/75	14				-101	-13.7						
O-REG-OBS	NTS	T79-07	08/22/79	6			49.3	-102	-14.0						
O-REG-OBS	NTS	LC82-17	06/19/82	5				-102	-14.1						
O-REG-OBS	NTS	L82-28	08/28/82	8	6.0			-101	-14.0						
O-REG-OBS	NTS	L93-02	08/10/93	6		6.47		-101	-13.8						