

# Appendices 6.4 & 6.5

Appendix 6.4 Deuterium and Chloride in Nested Piezometer Waters

Appendix 6.5 Rainfall Data at Perry Lakes (5 gauges) plus Deuterium in Rain –  
(sampling data and results)

## Appendix 6.4 Deuterium and Chloride in Nested Piezometer Waters

The five nested piezometers (three wells per piezometer) were sampled monthly. Temperature profiles were also taken in the deepest 'c' piezometer at each site. Initially (March 1996) a small electric submersible pump was used. This required a petrol generator and was not always available. All sampling from September 1996 onwards was done manually. Each well was bailed with a two metre long sludge pump designed to fit snugly within 50mm PVC. Water equivalent to a minimum three well volumes was removed. Water was sampled in the lowermost screened section of each piezometer using a position sampler.

## Appendix 6.5 Rainfall and Deuterium in Rain

Initial measurements in April 1996 used only three rain gauges, one with the Class A evaporation pan in the UWA Field Station, and one each in East Lake and West Lake. All rain gauges suffer from errors due to modification of the wind field (Maidment 1993). Given these well known difficulties a second gauge was added to East Lake in August 1996 about 10 metres from the initial gauge. Both were about 20 metres out in the lake on the eastern side. This is the 'downwind' side of the lake during the passage of winter cold frontal systems and well away from the rain shadow effects of fringing trees. The floating Class A evaporation pan was located off shore from the south side of East Lake. This was the only practical location for it despite it being a known rain and wind shadow in southwest winds. A separate rain gauge was fitted in April 1997 to independently monitor winter rain. Rainfall here was 83.4% of that recorded in the primary gauges, proof of the extreme effect trees and other obstacles can have on local rainfall patterns (refer table). Total annual catch in the two primary East Lake gauges differed by only 0.14% (0.9mm). Refer table below.

A single gauge was used in West Lake located in a clear area surrounded by *Baumea articulata* thus shielding it from view and vandals. This area was dry in summer and flooded during winter. Rainfall collected for deuterium was stored below silicon oil. The collector was in a clear area in the CSIRO complex, about 100 metres west of the UWA Field Station rain gauge. Total water volume was measured for each sample. All gauges were read nominally at 08:00 each day. Trace amounts ('TR') were treated as nil.

### Total Rainfall Perry Lakes 1997

UWA Field Stn	East Lake #1	East Lake #2	East Lake Pan	West Lake
644.5	651.4	650.5	542.8	646.0

Deuterium and Chloride Nested Piezometer Waters  
Deuterium

Appendix 6.4

Year	Month	N1a	N1b	N1c	N2a	N2b	N2c	N3a	N3b	N3c	N4a	N4b	N4c	N5a	N5b	N5c
1996	March	-11.6	-9.4	3.2	-6.1	0.6	-3.7	-14.9	-14.5	-13.6	7.4	-3.1	1.4	-10.4	15.0	14.6
	September	-12.4	-9.5	-0.7	4.9	-0.4	-5.0	-13.6	-15.1	-13.7	-7.0	-1.9	-0.2	-10.2	15.4	4.3
	October	-11.8	-9.8	-2.1	-0.7	-2.1	-5.5	-15.6	-11.9	-14.7	-6.1	-1.8	2.1	-9.3	16.7	12.7
	November	-12.2	-10.4	0.8	-1.9	-1.2	-4.6	-14.4	-11.6	-14.2	-11.8	2.0	0.7	-11.4	14.7	11.8
	December	-13.6	-9.1	-0.3	-3.8	-3.1	-4.3	-13.7	-8.4	-13.7	-0.1	-1.1	0.6	-9.3	16.2	15.0
1997	January	-11.4	-8.0	0.3	-2.4	-3.2	-5.9	-16.0	-9.5	-14.4	1.0	3.7	0.3	-10.3	15.4	15.6
	February	-11.3	-9.3	1.6	1.7	-2.4	-4.6	-16.5	-10.5	-15.8	8.3	2.1	-1.0	-10.2	15.4	15.1
	March	-12.4	-10.1	1.5	4.2	-0.5	-5.4	-16.3	-10.8	-15.8	9.7	-3.2	0.4	-10.8	14.7	14.4
	April	-12.6	-10.6	1.4	5.1	-1.6	-4.1	-15.0	-8.2	-14.8	3.7	-2.8	0.1	-9.7	15.8	16.2
	May	-12.7	-11.3	1.1	0.3	-0.8	-5.5	-16.6	-9.9	-13.7	-1.2	-2.9	0.8	-9.7	16.0	24.6
	June	-11.9	-11.1	2.8	0.2	-3.8	-6.2	-17.5	-7.3	-16.7	-4.4	-4.2	-0.2	-11.2	15.3	15.5
	July	-11.6	-9.4	0.6	-0.1	-4.1	-6.9	-15.2	-11.1	-16.7	-5.3	-5.6	-0.7	-11.2	15.3	15.7
	August	-11.0	-9.4	2.0	2.6	-2.7	-5.6	-13.6	-7.6	-14.2	-3.5	-4.9	0.5	-8.8	15.8	15.7
	September	-8.4	-6.7	-0.1	2.5	-4.1	-5.2	-12.7	-9.2	-14.0	-1.1	-4.1	0.1	-10.9	14.6	14.6
	October	-15.3	-12.0	-1.0	-3.7	-4.3	-6.1	-9.6	-9.9	-15.5	-4.3	-3.4	0.5	-12.3	14.6	14.3
	November	-13.5	-12.2	0.0	-6.3	-5.9	-7.8	-10.5	-10.6	-17.5	-6.0	-7.1	-1.8	-11.9	12.7	13.4
	December	-11.2	-11.7	2.1	-5.4	-2.8	-4.1	-10.3	-11.1	-15.1	-3.8	-5.3	0.7	-10.9	14.4	14.9
Average not including March 1996 data																
Average		-12.1	-10.0	0.6	-0.2	-2.7	-5.4	-14.2	-10.2	-15.0	-2.0	-2.5	0.2	-10.5	15.2	14.6
Average including March 1996 data																
		-10.7	-8.9	0.8	0.2	-2.5	-4.9	-12.5	-8.7	-13.3	-1.4	-2.2	0.3	-9.3	15.2	14.6

All data permil

## Chloride

Year	Month	N1a	N1b	N1c	N2a	N2b	N2c	N3a	N3b	N3c	N4a	N4b	N4c	N5a	N5b	N5c
1996	March	313	228	322	153	163	187	289	208	194	197	161	204	307	400	400
	September	415	223	292	142	180	197	341	216	202	196	154	203	343	410	302
	October	471	220	280	154	178	189	315	243	199	173	156	200	356	408	350
	November	328	220	298	120	182	192	254	222	205	115	183	198	356	408	363
	December	307	224	311	143	168	177	305	273	188	183	157	194	356	382	372
1997	January	315	222	315	125	176	192	280	263	191	109	189	196	350	395	393
	February	341	223	328	128	194	197	258	266	196	139	208	199	348	397	406
	March	372	224	346	129	194	201	237	262	199	188	182	199	309	356	408
	April	359	227	354	116	194	204	202	281	191	203	192	187	350	356	395
	May	372	220	356	123	186	206	237	302	200	232	204	196	348	400	393
	June	382	227	343	124	196	195	243	292	202	221	199	199	341	395	404
	July	432	230	348	154	176	200	278	261	203	205	189	194	367	406	389
	August	428	240	318	131	198	197	330	256	203	190	182	182	198	408	382
	September	475	232	315	171	202	202	387	236	203	195	184	208	369	413	384
	October	328	232	309	213	200	203	348	230	201	174	200	190	413	384	363
	November	363	242	324	176	206	198	380	233	205	157	168	210	346	413	402
	December	400	243	337	167	207	221	387	256	207	159	169	210	337	419	408
	Average	376	228	323	145	188	198	298	253	199	179	181	199	350	397	383

All data mg l<sup>-1</sup>

Rainfall (mm) Including Deuterium in Rainfall

Appendix 6.5

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
1996								
April	23	0.1	0.1			0.1		
	24							
May	25	0.7	0.6			0.5		
	26							
	27							
	28							
	29							
	30							
	01							
May	02							
	03							
	04							
	05	4.0	3.7			3.9		
	06						R001	-1.4
	07							
	08	15.2	13.4			14.0	R002	-6.2
	09	4.5	4.5			4.7	R003	-5.7
	10	4.9	4.0			3.6		
	11	1.5	1.3			1.5	R004	-3.5
	12							
	13							
	14							
	15							
June	16	TR	0.2			0.5		
	17	4.0	2.9			2.5		
	18						R005	9.7
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
30								
June	31	27.4	25.8			25.8	R006	10.7
	01	0.9	0.5			0.6		
	02	TR	TR			TR	R007	18.4
	03	2.9	1.0			1.0		
	04						R008	7.7
	05							
	06							
	07							
	08							
	09	0.5	0.5			0.5		
	10	8.0	7.7			9.6		
	11	0.5	0.5			0.2		
	12	1.1	1.5			1.7		
	13	TR	0.1			TR	R009	-9.4
14								

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	15							
	16	8.4	7.2			6.6		
	17	2.5	2.0			2.2		
	18	22.0	19.5			19.8	R010	-12.1
	19	34.5	32.4			32.5	R011	-15.4
	20	27.2	25.9			30.1		
	21	20.9	18.0			19.5	R012	-21.0
	22	16.3	14.7			11.0		
	23	1.5	1.5			1.7		
	24	7.6	7.1			6.0	R013	-29.8
	25	TR	TR			TR		
	26							
	27	13.5	13.5			15.0		
	28	8.9	7.9			7.5	R014	-9.9
	29	0.2	0.2			0.4		
	30	12.5	11.8			12.0		
July	01	1.2	1.1			1.0	R015	-0.6
	02	3.4	2.9			2.6		
	03	22.2	22.9			26.5		
	04	7.2	8.3			7.6		
	05	3.5	3.4			3.0	R016	-24.4
	06	TR	TR			0.1		
	07							
	08	23.0	22.0			24.4		
	09						R017	-26.9
	10							
	11							
	12							
	13	1.2	1.2			1.1		
	14							
	15							
	16	14.3	14.3			14.4		
	17	14.9	14.6			16.5	R018	-18.8
	18	4.6	2.9			2.8		
	19	4.8	4.8			4.0		
	20	0.7	1.0			0.6	R019	5.6
	21	4.5	4.8			4.0		
	22	8.2	7.4			7.6		
	23	4.0	3.9			3.7	R020	-2.6
	24	19.1	18.5			16.6		
	25	12.9	10.4			8.4		
	26	0.5	0.5			0.3	R 021	-18.2
	27	25.6	23.7			25.8		
	28	7.4	7.5			7.5	R 022	-6.8
	29	0.0	0.3			0.3		
	30	10.6	10.5			11.1		
	31	3.9	4.0			4.7		
August	01	3.4	3.4			4.4		
	02	1.2	1.2			1.5	R 023	-6.7
	03	1.2	1.0			0.7		
	04	6.7	6.7			6.2		
	05	3.7	4.3			5.7		
	06	5.5	5.9			4.6	R 024	-33.3
	07	5.2	5.4			5.0		
	08		TR			0.1	R 025	3.5
	09							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	10							
	11	19.7	18.0			17.7		
	12	0.6	0.5			0.7	R 026	2.6
	13	10.7	9.7			10.0		
	14	1.5	1.5	Data starts		1.5	R 027	-12.8
	15	1.2	1.6	1.5		1.2		
	16	1.2	1.0	0.9		1.2		
	17	1.2	0.7	0.7		0.3	R 028	1.4
	18							
	19							
	20	3.2	3.5	3.3		2.8		
	21	8.2	8.3	8.0		9.4		
	22	0.9	0.9	0.8		1.0	R 029	-3.2
	23							
	24	10.2	9.0	8.8		9.8		
	25						R 030	-0.2
	26							
	27	4.8	2.6	2.5		1.8		
	28	1.8	1.6	1.5		1.0		
	29						R 031	-1.0
	30							
	31	8.7	9.0	8.7		9.0		
September	01						R 032	5.8
	02							
	03	2.5	2.8	2.8		3.0		
	04						R 033	1.2
	05							
	06	6.9	5.8	6.0		5.2		
	07	2.1	2.1	2.0		2.5		
	08	3.0	3.2	2.7		3.3	R 034	8.0
	09	5.7	5.5	5.5		5.0		
	10	11.3	10.1	10.1		11.2		
	11	13.2	17.9	17.9		19.0	R 035	-13.4
	12	1.1	0.2	0.2		0.2		
	13							
	14	2.5	2.1	2.4		2.0	R 036	1.2
	15	5.0	4.4	4.4		5.0		
	16	4.7	3.5	3.5		5.0		
	17	2.0	1.3	1.3		1.0	R 037	7.7
	18	4.0	4.9	4.7		4.5		
	19	1.4	1.2	1.2		1.5	R 038	5.2
	20	0.2	0.1	0.1		0.1		
	21							
	22	25.2	22.4	22.5		22.0	R 039	-13.9
	23	0.2	0.1	0.1		TR		
	24	0.1	0.1	TR		TR		
	25							
	26							
	27	18.5	17.9	17.7		19.2		
	28	0.2	TR	TR		0.1	R 040	-13.2
	29	1.8	1.5	1.5		1.7		
	30							
October	01	0.1	0.1	0.1		TR		
	02						R 041	1.5
	03							
	04							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	05							
	06							
	07							
	08							
	09							
	10	4.5	4.2	4.0		4.5		
	11	4.3	3.4	2.7		2.6	R 042	0.4
	12							
	13							
	14	0.1	0.1	0.1		0.2		
	15							
	16							
	17							
	18							
	19							
	20							
	21	10.0	14.2	14.2		15.0		
	22	9.4	4.5	4.5		4.6	R 043	-22.1
	23	10.3	10.0	10.2		10.2		
	24	6.6	5.8	6.0		4.0	R 044	-7.2
	25							
	26							
	27							
	28							
	29							
	30							
	31	0.5	0.3	0.3		0.2	R 045	22.1
November	01							
	02							
	03							
	04							
	05							
	06	6.0	7.7	7.6		8.5		
	07	8.4	6.0	6.0		5.0	R 046	9.5
	08							
	09							
	10							
	11							
	12							
	13	0.4	0.3	0.3		0.4		
	14	0.1	0.2	0.2		0.3		
	15	19.3	18.9	19.5		22.0		
	16	20.1	17.5	18.0		14.8		
	17	TR	0.1	0.1		TR	R 047	-24.9
	18							
	19							
	20							
	21							
	22							
	23							
	24	1.2	1.0	1.0		1.1	R 048	2.7
	25							
	26							
	27							
	28							
	29							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil	
December	30	0.7	0.5	0.5		0.7			
	01	4.0	2.7	3.0		3.3			
	02	0.7	1.0	1.0		2.5	R 049	-9.4	
	03	0.5	0.5	0.5		1.4			
	04						R 050	4.5	
	05								
	06								
	07								
	08								
	09								
	10								
	11								
	12		6.0	5.5	5.5		5.8	R 051	-16.3
	13		1.1	1.0	1.0		0.5		
	14							R 052	-1.8
	15								
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								
	25								
	26								
	27								
	28								
	29								
	30								
31									
1997									
January	01								
	02								
	03								
	04								
	05								
	06								
	07								
	08								
	09								
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20	0.5	0.3	0.3		0.2			
	21						R 053	15.5	
	22								
	23								

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	24							
	25							
	26							
	27							
	28							
	29							
	30							
	31							
February	01							
	02							
	03							
	04							
	05							
	06							
	07							
	08							
	09							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20	0.2	0.3	0.3		0.2		
	21	0.2	0.2	0.2		0.2		
	22							
	23							
	24	0.9	1.0	1.0		1.1		
	25	0.3					R 054	-25.2
	26							
	27							
	28							
March	01							
	02							
	03							
	04							
	05							
	06							
	07	0.1	0.2	0.2		0.2	R 055	34.4
	08							
	09							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17	3.6	5.8	5.6		4.5	R 056	-3.4
	18							
	19							
	20							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29	18.6	20.3	20.1		16.0		
	30	39.9	43.5	43.3		40.2	R 057	-12.0
	31							
April	01							
	02							
	03							
	04		0.7	0.7		0.5		
	05	0.6	0.1	0.1		TR	R 058	-26.1
	06	7.5	5.5	5.5		4.7	R 059	-39.5
	07	0.2	0.2	0.2		0.3		
	08	9.2	6.6	6.7		5.9	R 060	-40.2
	09							
	10				Data starts			
	11	4.2	4.3	4.3	4.3	4.5		
	12	0.5	0.5	0.5	0.2	0.5	R 061	-71.0
	13	0.1	0.2	0.2	0.2	0.2		
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21	6.4	9.5	9.6	9.4	8.9	R 062	-8.0
	22							
	23							
	24							
	25							
	26							
	27	0.2	0.2	0.2	0.2	0.2		
	28							
	29							
	30	3.1	2.5	2.5	2.0	3.5	R 063	7.9
May	01	6.3	5.9	6.0	5.4	6.5		
	02						R 064	4.0
	03	6.4	6.1	6.1	6.0	6.5		
	04						R 065	-5.8
	05							
	06							
	07							
	08							
	09							
	10							
	11							
	12	1.1	1.1	1.1	1.2	1.2		
	13	2.5	2.6	2.6	2.5	2.5	R 066	-50.5
	14							
	15							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	16							
	17							
	18	2.2	2.9	2.9	2.7	2.7		
	19	4.2	4.5	4.5	3.7	4.5	R 067	-35.5
	20							
	21							
	22							
	23							
	24	14.8	14.5	14.5	13.3	14.8		
	25	5.0	5.5	5.5	4.0	5.2	R 068	-3.0
	26	0.1	0.2	0.2	0.1	0.2		
	27	1.0	0.5	0.5	0.3	0.3		
	28	14.8	14.0	13.8	13.5	16.8	R 069	-7.5
	29							
	30							
	31	29.6	28.4	28.1	27.7	32.9	R 070	-3.0
June	01	12.2	15.7	15.7	15.0	11.0		
	02	23.3	28.9	28.7	27.4	29.2		
	03	13.0	2.8	2.6	2.7	2.6	R 071	-21.0
	04	6.0	9.0	9.1	8.0	9.2		
	05	7.5	4.3	4.3	3.4	4.5	R 072	-1.3
	06	2.3	2.7	2.6	2.1	1.7		
	07	1.0	1.1	1.0	0.8	1.1	R 073	-0.5
	08	8.2	10.2	10.2	9.9	10.5		
	09	15.7	12.3	12.2	10.7	12.4	R 074	-41.4
	10							
	11	6.9	6.8	6.7	6.2	6.4		
	12	4.9	6.0	6.0	5.2	5.7		
	13	0.6	0.6	0.6	0.5	0.2	R 075	-4.0
	14							
	15							
	16							
	17							
	18							
	19	1.4	1.4	1.4	1.3	1.4		
	20	1.9	2.0	2.0	1.6	2.0		
	21	3.1	2.0	1.9	1.6	1.8	R 076	4.2
	22	0.1	0.2	0.2	0.2	0.2		
	23	2.6	2.3	2.3	1.9	2.5		
	24						R 077	-0.1
	25	0.2	0.2	0.2	0.2	0.2		
	26						R 078	13.8
	27							
	28							
	29							
	30							
July	01							
	02							
	03	8.2	8.0	8.1	8.0	8.0	R 079	-44.2
	04							
	05	0.5	0.3	0.3	0.3	0.3		
	06	17.2	17.4	17.4	17.5	19.0		
	07	9.0	9.8	9.8	9.5	11.0	R 080	-15.2
	08	1.8	2.2	2.2	2.0	3.0	R 081	2.9
	09	9.3	13.4	13.4	13.3	8.6	R 082	-14.7
	10							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	11							
	12							
	13	6.8	6.9	6.9	6.8	14.5		
	14	13.5	14.0	13.8	13.5	6.3	R 083	-0.4
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24	7.2	8.4	8.2	8.0	8.0		
	25	8.4	9.0	9.5	9.0	9.1	R 084	-13.6
	26	1.9	1.7	1.6	1.6	1.8		
	27	5.7	6.4	6.2	6.0	6.5	R 085	-11.8
	28							
	29	1.1	U/S	0.8	0.5	1.0		
	30						R 086	-3.8
	31							
August	01							
	02							
	03							
	04	22.6	22.0	22.0	21.5	19.5	R 087	-14.0
	05	6.8	7.5	7.5	7.1	7.0	R 088	-10.5
	06	4.5	2.6	2.5	2.5	2.7		
	07	2.5	1.6	1.5	1.5	1.9		
	08	1.8	2.0	2.0	2.0	1.9	R 089	-2.8
	09	6.2	5.5	5.4	5.6	11.6		
	10	23.7	24.6	24.8	24.0	21.5	R 090	-19.9
	11							
	12							
	13							
	14							
	15	18.6	17.5	17.1	18.5	16.7	R 091	-5.9
	16	4.8	5.0	5.0	4.9	4.8		
	17						R 092	-18.0
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27	0.6	N/R (birds)	0.5	0.5	0.7		
	28	8.3	9.0	9.0	8.6	13.7		
	29	5.9	5.9	6.2	6.0	3.9	R 093	-24.5
	30							
	31							
September	01							
	02	13.9	12.8	13.0	12.6	13.0	R 094	-28.4
	03	6.2	7.5	7.6	7.4	7.9		
	04	0.6	0.1	0.1	0.1	0.1	R 095	-2.4

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	05							
	06	39.7	39.3	39.0	38.2	38.8	R 096	-54.8
	07	0.9	1.0	1.0	1.0	0.5		
	08	24.5	26.3	26.3	25.9	28.0		
	09	10.2	14.3	14.4	13.5	15.2	R 097	-22.6
	10	13.5	12.7	12.9	13.3	8.0		
	11	0.7	0.6	0.6	0.6	0.1	R 098	-26.2
	12	1.5	1.2	1.2	1.2	1.0		
	13						R 099	-23.9
	14							
	15							
	16							
	17							
	18	0.5	0.2	0.2	0.2	0.4		
	19	0.2	0.1	0.1		0.2		
	20						R 100	4.3
	21							
	22							
	23							
	24	0.6	0.5	0.5	0.5	0.7	R 101	-2.2
	25							
	26	0.8	0.8	0.8	0.5	1.4		
	27	0.3				0.1	R 102	15.0
	28							
	29							
	30							
October	01	1.3	1.7	1.9	1.4	2.4		
	02						R 103	-1.1
	03							
	04							
	05							
	06							
	07							
	08	3.0	2.7	2.7	2.6	3.4		
	09	15.5	15.2	14.8	13.8	15.6	R 104	1.0
	10	9.5	8.9	8.6	8.0	9.5		
	11						R 105	2.9
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23	0.2	0.1	0.1	0.1	0.1	R 106	28.4
	24							
	25							
	26							
	27							
	28	1.4	1.4	1.4	1.5	1.8	R 107	11.4
	29							
	30							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	31							
November	01							
	02							
	03							
	04							
	05							
	06							
	07							
	08							
	09							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22	5.5	5.4	5.3	5.1	5.2	R 108	-5.1
	23	0.2						
	24							
	25							
	26	1.3	1.2	1.2	1.1	1.0		
	27	0.1	0.1	0.1	0.1	0.1	R 109	2.8
	28							
	29							
	30							
December	01							
	02							
	03							
	04							
	05							
	06							
	07							
	08							
	09							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17	0.3	0.0	0.0	0.0	TR	R 110	23.4
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							

Month	Day	UWA Field Stn	East Lake Gauge #1	East Lake Gauge #2	Floating Pan	West Lake	Isotope Sample	Deuterium permil
	26							
	27							
	28							
	29							
	30							
	31							
1998								
January	01							
	02							
	03							
	04							
	05							
	06							
	07							
	08							
	09							
	10							
	11							
	12							
	13							
	14	0.5	0.5	0.5	0.5	1.4	R 111	11.4
	15							
	16	TR	TR	TR	TR	Not read		
	17	1.5	1.6	1.6	1.5	1.8	R 112	-1.1
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30						Maximum deuterium enrichment	34.4
	31	Data ends					Maximum deuterium depletion	-71.0
Totals 1997		644.5	651.4	650.5	542.8*	646.0		

\*Floating pan was in a slight rain shadow from trees. It was essential it had its own gauge