

## Appendix 6.2

East Lake Balance Sheets, Balance Periods 1-50  
(one sheet for each balance period).

## Appendix 6.2 (East Lake) and 6.3 (West Lake) Balance Sheets

Component	Units	Details
Day & Time		Date and time of the end of each 24 hour balance 'day'
Stage	m	Lake stage (metres above Australian Height Datum)
Area	m <sup>2</sup>	Lake area from lake stage, refer Appendix 3.8
Volume	m <sup>3</sup>	Lake volume from lake stage, refer Appendix 3.8
$\Delta S$	m <sup>3</sup>	Change in lake volume ('storage') over each 4 day sub-balance
Lake	$\delta$	Deuterium in ‰ measured at the start and end of each 4 day sub-balance
	Cl	Chloride in mg L <sup>-1</sup> measured at the start and end of each 4 day sub-balance
Rain	mm	Rainfall in mm falling on the lake surface
	m <sup>3</sup>	Rainfall volume
	$\delta$	Deuterium (average for each rainfall event which may span several days)
	Cl	Chloride in rain, 12mg L <sup>-1</sup> being the average for Floreat
Drains	m <sup>3</sup>	Storm drain flow (total for lake)
	$\delta$	As per rainfall
	Cl	As per rainfall
Top Up	m <sup>3</sup>	Individual volumes for outlets 'A' and 'B'
	$\delta$	Deuterium for each outlet sampled during most top up events
	Cl	Chloride for each outlet sampled during most top up events
Evaporation	mm	Evaporation in mm as measured by the floating evaporation pan
	m <sup>3</sup>	Volume of lake water evaporated
	$\delta E_{\text{pan}}$	$\delta E$ as measured experimentally for Perry Lakes by pan experiments
	$\delta E^*$	$\delta E$ as estimated from standard equations
	$\delta A$	$\delta A$ as measured or interpolated from vapour sampling
Apparent GW Flux	m <sup>3</sup>	Residual in the mass balance
GW In	m <sup>3</sup>	Groundwater discharged to lake as computed by integrated balance
Lake-GW	m <sup>3</sup>	Groundwater recharged to aquifer as computed by integrated balance

The groundwater ('GW') components are the key components which could not be measured directly. They are the reason for performing an integrated balance in the first place. The 'apparent groundwater flux' is simply the residual in the mass balance alone. It is the apparent surplus or deficit in water required to balance the equation. A negative value indicates an apparent deficit in water and is indicative of water which has flowed out of the lake as recharge to the aquifer. A positive value indicates an apparent surplus and indicates additional water which has entered the lake as groundwater discharge. We use the term 'apparent' because the true groundwater flux (discharge and recharge) cannot be measured directly, only the residual gain or loss.

Groundwater discharge ('GW In') is the groundwater discharged into the lake during flow-through conditions as measured by integrated mass-solute-isotopic balances. Under recharge conditions this figure is zero. Recharge ('Lake-GW') is lake water recharged to the aquifer under both flow-through and recharge flow regimes. Under recharge regimes the mass balance residual (a negative apparent flow) and the recharge as measured by integrated balance will generally be similar. All volumetric quantities are sub-totaled for each four day sub-balance. Each sub-balance row includes  $\Delta S$ , mean lake water deuterium and chloride and mean  $\delta E_{\text{pan}}$  mean  $\delta E^*$  and mean  $\delta A$ . All integrated results were computed using the locally derived  $\delta E_{\text{pan}}$  in the isotopic balance.

**Balance Period No: 1**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	m <sup>3</sup>	Cl	m <sup>3</sup>	mm	m <sup>3</sup>	δE <sub>pan</sub>	δE*				δA	
22/4/96	8:00	47651	13542	-2.9								2.3	-49.1	-109.4	-85.2				
23/4/96	8:00	48369	14022			0.1	4.8	-1.4		3525	-5.3	1.4	-59.8	-117.2	-85.2		-2984		
24/4/96	8:00	50736	15956							3525	-5.3	2.4	-55.0	-114.6	-85.2		-1471		
25/4/96	8:00	51017	16210			0.6	31	-1.4	27	2820	-5.3	1.3	-77.7	-131.3	-85.2		-2558		
26/4/96	8:00	48632	14216	-5.7								1.1	-76.2	-131.1	-85.2		-1937		
Balance 1A		ΔS	674	-4.30			35		27	9870			309	-67.2	-123.6	-85.2	0	8974	
27/4/96	8:00	49747	15102							3525	-5.3	2.3	-59.4	-119.0	-85.2		-2523		
28/4/96	8:00	51073	16261							3525	-5.3	2.9	-57.4	-117.5	-85.2		-2219		
29/4/96	8:00	51883	16982							3525	-5.3	4.1	-49.2	-111.5	-85.2		-2596		
30/4/96	8:00	48632	14216	-3.8								3.5	-46.8	-109.7	-85.2		-2591		
Balance 1B		ΔS	0	-4.75			0		0	10575			646	-53.2	-114.4	-85.2	0	9928	
1/5/96	8:00	44723	11557									2.2	-73.1	-129.4	-85.2		-2556		
2/5/96	8:00	41564	9656									2.8	-56.3	-117.8	-85.2		-1780		
3/5/96	8:00	38596	7975									2.4	-58.5	-120.0	-85.2		-1586		
4/5/96	8:00	39649	8601	-6.8						2820	-5.3	2.1	-70.2	-129.7	-85.2		-2111		
Balance 1C		ΔS	-5615	-5.30			0		0	2820			403	-64.5	-124.2	-85.2	0	8061	
Totals		ΔS	-4941				35		27	23265			1358				-26911	0	26963

**Balance Period No: 2**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>
				δ	Cl	mm	δ	m <sup>3</sup>	Cl	m <sup>3</sup>	mm	δE <sub>pan</sub>	δE*	δA			
4/5/96	8:00	39649	8601	-6.8								2.1	-70.2	-129.7	-85.2		
5/5/96	8:00	37583	7404			3.7	139	290				2.1	-72.6	-131.4	-85.2		
6/5/96	8:00	34381	5854									2.3	-52.7	-116.0	-85.2		
7/5/96	8:00	31597	4764							400	-5.3	1.8	-89.2	-143.7	-85.2		
8/5/96	8:00	34783	6027	-4.5		13.4	466	2114				5.4	-60.1	-121.4	-85.2		
Balance 2A		ΔS	-2574	-5.65		605		2404		400			-68.6	-128.1	-85.2	0	5584
9/5/96	8:00	33084	5314									1.4	-79.2	-135.1	-85.2		
10/5/96	8:00	31107	4607			4.5	149	357				2.8	-58.7	-119.1	-85.2		
11/5/96	8:00	27923	3720			4.0	124	315				2.4	-43.6	-107.5	-85.2		
12/5/96	8:00	25091	3111	0.5		1.3	36	87				1.9	-37.5	-102.6	-85.2		
Balance 2B		ΔS	-2916	-2.00			310	760		0			-54.7	-116.1	-85.2	0	3720
13/5/96	8:00	18919	2248									2.1	-40.2	-105.3	-85.2		
14/5/96	8:00	34137	5751							4725	-5.3	2.6	-39.1	-105.2	-85.2		
15/5/96	8:00	38334	7821							3525	-5.3	2.7	-44.8	-110.2	-85.2		
16/5/96	8:00	41144	9449	-4.1		0.2	8.2	1		3525	-5.3	1.4	-67.6	-128.9	-85.2		
Balance 2C		ΔS	6338	-1.80			8	1		11775			-47.9	-112.4	-85.2	0	5179
Totals		ΔS	848				923	3165		12175			930			0	14485

**Balance Period No: 3**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains m <sup>3</sup>	Summer Top Up m <sup>3</sup>	Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				ΔS	δ	mm	δ			mm	δE <sub>pan</sub> m <sup>3</sup>	δE* mm				δA
16/5/96	8:00	41144	9449							1.4	-67.6	-128.9	-85.2			
17/5/96	8:00	44085	11113	-4.1		2.9	128	222	3525	1.2	-72.5	-133.0	-85.2			
18/5/96	8:00	45302	11963						3525	2.8	-43.2	-109.8	-85.2	-2160		
19/5/96	8:00	42117	9949							1.7	-44.5	-111.0	-85.2	-2550		
20/5/96	8:00	38986	8208	-4.3						1.9	-46.6	-112.9	-85.2	-1940		
Balance 3A		ΔS	-1241	-4.20		128		222	7050		-51.7	-116.7	-85.2	-8315	0	8321
21/5/96	8:00	37313	7254							1.7	-51.2	-116.9	-85.2	-889		
22/5/96	8:00	40912	9326						3525	1.2	-53.2	-118.8	-85.2	-1406		
23/5/96	8:00	44021	11069						3525	1.4	-52.3	-118.4	-85.2	-1724		
24/5/96	8:00	45695	12236	-5.6					3525	1.7	-54.5	-120.5	-85.2	-2282		
Balance 3B		ΔS	4028	-4.95		0		0	10575		-52.8	-118.7	-85.2	-6302	0	6313
25/5/96	8:00	47651	13542							3.0	-45.4	-112.9	-85.2	-2080		
26/5/96	8:00	44214	11202						3525	2.8	-45.9	-113.2	-85.2	-2211		
27/5/96	8:00	43688	10850						1880	2.3	-43.9	-111.6	-85.2	-2131		
28/5/96	8:00	44596	11468	-3.8	200				2820	1.3	-55.1	-120.8	-85.2	-2146		
Balance 3C		ΔS	-768	-4.70		0		0	8225		-47.6	-114.6	-85.2	-8568	0	8564
Totals		ΔS	2019			128		222	25850			996		-23185	0	23198

**Balance Period No: 4**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE <sub>pan</sub>				δE*	δA
28/5/96	8:00	3.264	44596	11468	-3.8							1.3	-55.1	-120.8	-85.2				
29/5/96	8:00	3.287	46104	12511						3525	-5.3	1.5	-55.6	-121.7	-85.2				
30/5/96	8:00	3.318	48300	13974						3525	-5.3	2.7	-43.0	-111.2	-85.2				
31/5/96	8:00	3.416	54363	19002		25.8	1403	12.0	2245	3500	-5.3	4.8	-81.5	-144.6	-85.2				
1/6/96	8:00	3.427	54887	19603	-6.0	0.5	27	18.4	19	3525	-5.3	1.7	-59.6	-126.1	-85.2				
Balance 4A		ΔS	8135	184.00	-4.90	1430			2264	14075			538	-59.9	-125.9	-85.2	0	9472	
2/6/96	8:00	3.378	51883	16982								0.7	-63.1	-129.1	-85.2				
3/6/96	8:00	3.332	49201	14656		1.0	49	7.7	61	12.0		1.1	-70.0	-135.1	-85.2				
4/6/96	8:00	3.292	46458	12742								1.5	-50.1	-117.8	-85.2				
5/6/96	8:00	3.252	43822	10938	-4.5							1.1	-47.9	-115.9	-85.2				
Balance 4B		ΔS	-8665	170.00	-5.25	49			61	0			218	-57.8	-124.5	-85.2	0	8473	
6/6/96	8:00	3.218	41225	9490								1.1	-47.9	-115.8	-85.2				
7/6/96	8:00	3.187	39051	8247								1.3	-46.1	-114.3	-85.2				
8/6/96	8:00	3.153	36768	6958								1.8	-43.6	-112.1	-85.2				
9/6/96	8:00	3.127	34783	6027	-2.7	0.5	17	-9.4	19	12.0		1.3	-59.7	-125.8	-85.2				
Balance 4C		ΔS	-4911	172.50	-3.60	17			19	0			209	-49.3	-117.0	-85.2	0	4777	
Totals		ΔS	-5441			1497			2344	14075			966				-22391	0	22722

**Balance Period No: 5**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>
				δ	Cl	mm	δ	Cl	mm	δE <sub>pan</sub> m <sup>3</sup>	δE* mm	δA	δ	Cl			
9/6/96	8:00	34783	6027	-2.7	173							1.3	-59.7	-125.8	-85.2		
10/6/96	8:00	34218	5785			7.7	-9.4	12.0	628	12.0		0.6	-113.3	-171.8	-85.2		
11/6/96	8:00	32320	5020			0.5	-9.4	12.0				0.8	-67.0	-132.0	-85.2		
12/6/96	8:00	30223	4332			1.5	-9.4	12.0	104	12.0		0.8	-60.8	-126.8	-85.2		
13/6/96	8:00	27428	3609	-1.9	159	0.1	-9.4	12.0				0.7	-50.4	-117.8	-85.2		
Balance 5A		ΔS	-2418	-2.30	166.00		328		731		0	94	-72.9	-137.1	-85.2	0	3221
14/6/96	8:00	24290	2962									0.7	-50.8	-118.3	-85.2		
15/6/96	8:00	20459	2445									1.0	-55.0	-122.2	-85.2		
16/6/96	8:00	23441	2819			7.2	-12.1	12.0	585	12.0		1.9	-62.8	-129.1	-85.2		
17/6/96	8:00	22660	2704	-3.4	129	2	-12.1	12.0	146	12.0		1.0	-66.8	-132.8	-85.2		
Balance 5B		ΔS	-905	-2.65	144.00		214		732		0	104	-58.8	-125.6	-85.2	144	1891
18/6/96	8:00	30125	4301									3.1	-75.8	-142.0	-85.2		
19/6/96	8:00	38266	7783			19.5	-12.1	12.0	1653	12.0		3.6	-126.2	-188.8	-85.2		
20/6/96	8:00	43337	10632			32.4	-15.4	12.0	2920	12.0		3.0	-112.8	-177.7	-85.2		
21/6/96	8:00	45966	12419	-14.5	32.3	25.9	-21.0	12.0	2255	12.0		3.4	-91.2	-158.5	-85.2		
Balance 5C		ΔS	9715	-8.95	80.65		3777		8347		0	476	-101.5	-166.8	-85.2	381	2337
22/6/96	8:00	47355	13352									1.8	-110.3	-176.3	-85.2		
23/6/96	8:00	46315	12650			14.7	-29.8	12.0	1227	12.0		0.3	-142.5	-206.4	-85.2		
24/6/96	8:00	46458	12742			1.5	-29.8	12.0	104	12.0		0.4	-128.2	-193.2	-85.2		
25/6/96	8:00	45432	12053	-16.1	29.4	7.1	-29.8	12.0	577	12.0		0.7	-81.5	-149.7	-85.2		
Balance 5D		ΔS	-366	-15.30	30.85		1095		1908		0	146	-115.6	-181.4	-85.2	75	3289
Totals		ΔS	6026				5414		11717		0	821				600	10738

**Balance Period No: 6**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	m <sup>3</sup>	mm	δE*	δA				mm
25/6/96	8:00	45432	12053	-16.1	29.4							0.7	-81.5	-149.7	-85.2			
26/6/96	8:00	3.257	44150									1.1	-89.6	-157.1	-85.2	-848		
27/6/96	8:00	3.282	45762			13.5	-9.9	12.0	1040	12.0		1.2	-167.3	-229.1	-85.2	-482		
28/6/96	8:00	3.291	46387			7.9	-9.9	12.0	668	12.0		2.0	-105.7	-171.6	-85.2	-529		
29/6/96	8:00	3.268	44850	-13.2	29.4	0.2	-0.6	12.0	3	12.0		1.5	-93.2	-159.8	-85.2	-993		
Balance 6A		ΔS	-406	-14.65	29.40				1710		0		258	-114.0	-179.4	-85.2	180	3056
30/6/96	8:00	3.290	46315						966	12.0		2.0	-114.1	-178.9	-85.2	-420		
1/7/96	8:00	3.274	45237			11.8	-0.6	12.0	32	12.0		1.7	-80.6	-148.0	-85.2	-735		
2/7/96	8:00	3.265	44659			2.9	-24.4	12.0	197	12.0		1.2	-108.9	-174.0	-85.2	-676		
3/7/96	8:00	3.319	48369	-12.9	27.7	22.9	-24.4	12.0	2190	12.0		3.8	-120.7	-184.6	-85.2	-611		
Balance 6B		ΔS	2375	-13.05	28.55				3385		0		402	-106.1	-171.4	-85.2	241	2697
4/7/96	8:00	3.325	48760						613	12.0		1.9	-89.5	-155.9	-85.2	-633		
5/7/96	8:00	3.322	48568			8.3	-24.4	12.0	286	12.0		0.6	-121.8	-185.5	-85.2	-567		
6/7/96	8:00	3.305	47355			3.4	-24.4	12.0				1.2	-83.1	-150.0	-85.2	-758		
7/7/96	8:00	3.297	46798	-13.6	26.3							2.7	-65.5	-133.8	-85.2	-250		
Balance 6C		ΔS	-1047	-13.25	27.00				899		0		308	-90.0	-156.3	-85.2	0	2277
Totals		ΔS	922				3396		5994		0		968			-7501	421	8030

**Balance Period No: 7**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up m <sup>3</sup>	Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ	Cl	m <sup>3</sup>		mm	δE <sup>*</sup>	δA				
7/7/96	8:00	46798	12975	-13.6	26.3						2.7	-65.5	-133.8	-85.2			
8/7/96	8:00	50104	15401			22.0	-26.9	12.0	1742	12.0	2.3	-139.7	-201.6	-85.2	-305		
9/7/96	8:00	49387	14804								1.8	-76.5	-143.7	-85.2	-506		
10/7/96	8:00	3.322	48568								1.4	-67.8	-135.8	-85.2	-568		
11/7/96	8:00	47873	13685	-14.4	23.7						1.7	-61.4	-129.8	-85.2	-403		
Balance 7A		ΔS	710	-14.00	25.00				1742			353	-86.3	-152.7	-1782	0	1868
12/7/96	8:00	47075	13163						1	12.0	3.2	-60.3	-128.7	-85.2	-370		
13/7/96	8:00	46526	12789						34	12.0	0.4	-160.9	-219.9	-85.2	-443		
14/7/96	8:00	45897	12373			1.2	-18.8	12.0	18	12.0	1.2	-100.3	-164.7	-85.2	-378		
15/7/96	8:00	45106	11827	-14.2	22.2						1.1	-116.9	-179.5	-85.2	-495		
Balance 7B		ΔS	-1858	-14.30	22.95				53			281	-109.6	-173.2	-1686	0	2048
16/7/96	8:00	47144	13210								1.7	-165.7	-222.9	-85.2	-379		
17/7/96	8:00	49075	14558			14.3	-18.8	12.0	1168	12.0	3.8	-100.0	-163.5	-85.2	-655		
18/7/96	8:00	3.323	48632			2.9	5.6	12.0	124	12.0	3.0	-78.1	-143.6	-85.2	-458		
19/7/96	8:00	48696	14265	-12.5	36.2	4.8	5.6	12.0	393	12.0	2.0	-97.9	-160.9	-85.2	-481		
Balance 7C		ΔS	2438	-13.35	29.20				3156			511	-110.4	-172.7	-1973	1146	3143
Totals		ΔS	1290				2924		4952			1144			-5441	1146	7059

**Balance Period No: 8**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	mm	δE <sub>pan</sub>	δE*				δA	
19/7/96	8:00	3.324	48696	14265	-12.5	36.2						2.0	-97.9	-160.9	-85.2				
20/7/96	8:00	3.316	48161	13877			1.0	48	5.6	12.0	102	0.9	-104.9	-166.6	-85.2	-496			
21/7/96	8:00	3.316	48161	13877			4.8	231	-2.6	12.0	355	1.0	-126.3	-184.7	-85.2	-540			
22/7/96	8:00	3.327	48886	14411			7.4	362	-2.6	12.0	601	1.0	-118.6	-158.5	-89.9	-378			
23/7/96	8:00	3.322	48568	14168	-10.0	35.6	3.9	189	-2.6	12.0	262	2.5	-75.3	-135.2	-87.2	-572			
Balance 8A		ΔS	-97		-11.25	35.90		831			1321		262	-106.3	-161.2	-86.9	158	2152	
24/7/96	8:00	3.368	51298	16466			18.5	949	-18.2	12.0	1724	2.9	-82.4	-146.5	-84.5	-232			
25/7/96	8:00	3.388	52463	17504			10.4	546	-18.2	12.0	1162	2.0	-74.5	-145.1	-81.8	-566			
26/7/96	8:00	3.378	51883	16982			0.5	26	-18.2	12.0	8	1.9	-69.9	-145.9	-79.1	-456			
27/7/96	8:00	3.440	55481	20320	-6.2	29.5	23.7	1315	-6.8	12.0	2060	3.7	-70.8	-153.3	-76.4	159			
Balance 8B		ΔS	6152		-8.10	32.55		2835			4955		543	-74.4	-147.7	-80.5	161	1185	
28/7/96	8:00	3.455	56120	21157			7.5	421	-6.8	12.0	767	2.3	-68.2	-155.5	-73.7	-224			
29/7/96	8:00	3.443	55608	20487			0.3	17	-6.7	12.0	1	2.3	-64.7	-155.5	-71.0	-561			
30/7/96	8:00	3.465	56571	21721			10.5	594	-6.7	12.0	907	1.7	-139.7	-245.0	-76.0	-174			
31/7/96	8:00	3.464	56522	21664	-5.8	30.4	4.0	226	-6.7	12.0	106	3.0	-53.1	-123.3	-80.9	-222			
Balance 8C		ΔS	1344		-6.00	29.95		1258			1781		513	-81.4	-169.8	-75.4	268	1476	
1/8/96	8:00	3.455	56120	21157			3.4	191	-6.7	12.0	316	2.8	-61.3	-122.5	-85.9	-857			
2/8/96	8:00	3.454	56077	21101			1.2	67	-6.7	12.0	172	2.3	-71.7	-117.7	-90.8	-169			
3/8/96	8:00	3.446	55736	20654			1.0	56	-33.3	12.0	42	2.1	-64.0	-103.4	-95.8	-428			
4/8/96	8:00	3.454	56077	21101	-4.4	31.7	6.7	376	-33.3	12.0	571	2.2	-68.8	-91.3	-100.7	-379			
Balance 8D		ΔS	-563		-5.10	31.05		690			1102		522	-66.4	-108.7	-93.3	205	2006	
5/8/96	8:00	3.455	56120	21157			4.3	241	-33.3	12.0	369	1.6	-63.3	-82.7	-105.7	-467			
6/8/96	8:00	3.463	56474	21608			5.9	333	-33.3	12.0	581	1.4	-56.3	-90.5	-103.1	-384			
7/8/96	8:00	3.470	56800	22004			5.4	307	3.5	12.0	514	0.8	-73.5	-92.8	-100.5	-380			
8/8/96	8:00	3.460	56337	21438	-4.9	30.5					1464	1.7	-58.9	-99.3	-97.9	-468			
Balance 8E		ΔS	337		-4.65	31.10		881			1464		309	-63.0	-91.3	-101.8	43	1733	
Totals		ΔS	7173				6494				10622		2149				-7795	835	8552

**Balance Period No: 9**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation				Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	m <sup>3</sup>	mm	m <sup>3</sup>	δE <sub>pan</sub>	δE*			
8/8/96	8:00	56337	21438	-4.9	30.5							1.7	-58.9	-99.3	-97.9			
9/8/96	8:00	55906	20877									1.9	-53.2	-101.8	-95.3			
10/8/96	8:00	55566	20431									2.3	-49.2	-103.5	-92.6			
11/8/96	8:00	57254	22574			18.0	1031	2.6	12.0	1584	12.0	1.5	-83.6	-120.9	-90.0			
12/8/96	8:00	56935	22175	-3.3	29.4	0.5	28	2.6	12.0	9	12.0	1.9	-50.8	-109.5	-87.4			
Balance 9A		ΔS	737	-4.10	29.95		1059			1593	0		-59.2	-108.9	-91.3	-1484	50	1540
13/8/96	8:00	57628	23034									2.2	-61.5	-120.4	-84.8			
14/8/96	8:00	57301	22632			9.7	559	-12.8	12.0	793	12.0	1.9	-45.0	-110.8	-82.2			
15/8/96	8:00	56980	22232			1.5	86	-12.8	12.0	161	12.0	1.0	-58.7	-127.8	-79.2			
16/8/96	8:00	57161	22460	-2.5	30.1	1.6	91	1.4	12.0	42	12.0	1.3	-59.1	-133.5	-76.2			
Balance 9B		ΔS	285	-2.90	29.75		793			1029	0		-56.1	-123.1	-80.6	-1169	166	1321
17/8/96	8:00	56428	21551									1.7	-52.0	-129.3	-73.3			
18/8/96	8:00	55991	20989			0.7	39	1.4	12.0	46	12.0	2.8	-38.9	-113.2	-70.3			
19/8/96	8:00	55651	20543									3.2	-38.2	-114.7	-67.3			
20/8/96	8:00	55608	20487	0.5	28.5	3.5	195	-3.2	12.0	191	12.0	2.9	-47.8	-129.1	-70.0			
Balance 9C		ΔS	-1973	-1.00	29.30		234			237	0		-44.3	-121.6	-70.2	-1850	0	2333
Totals		ΔS	-951				2086			2860	0		1394			-4503	216	5194

**Balance Period No: 10**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	m <sup>3</sup>	mm	δE*	δA					
20/8/96	8:00	55608	20487	0.5	28.5							2.9	-47.8	-129.1	-70.0				
21/8/96	8:00	56206	21270			8.3	-3.2	12.0	572	12.0		1.0	-65.4	-149.9	-72.8				
22/8/96	8:00	55948	20933			0.9	-3.2	12.0	31	12.0		1.6	-52.6	-125.9	-75.5				
23/8/96	8:00	55736	20654									1.7	-55.0	-123.2	-78.2				
24/8/96	8:00	56428	21551	0.2	30.7	9.0	-0.2	12.0	659	12.0		1.7	-71.8	-132.1	-80.9				
Balance 10A		ΔS	1064	0.35	29.60	1025			1262		0		336	-61.2	-132.8	-76.9	350	1255	
25/8/96	8:00	56034	21045						51	12.0		2.8	-41.9	-103.6	-83.7				
26/8/96	8:00	55736	20654									2.0	-42.9	-101.4	-86.4				
27/8/96	8:00	55694	20598			2.6	-1.0	12.0	201	12.0		1.9	-60.1	-113.8	-84.5				
28/8/96	8:00	55523	20376	-0.1	32.4	1.6	-1.0	12.0	105	12.0		2.1	-63.8	-120.3	-82.5				
Balance 10B		ΔS	-1175	0.05	31.55	234			356		0		491	-52.2	-109.8	-84.3	149	1453	
29/8/96	8:00	55178	19933						1	12.0		1.8	-51.9	-114.0	-80.6				
30/8/96	8:00	54935	19658									2.1	-50.4	-115.3	-78.6				
31/8/96	8:00	55566	20431			9.0	5.8	12.0	692	12.0		2.2	-52.0	-119.7	-76.7				
1/9/96	8:00	55221	19988	2.3	30.6							3.1	-41.8	-110.5	-74.7				
Balance 10C		ΔS	-388	1.10	31.50	500			693		0		508	-49.0	-114.9	-77.7	0	1375	
Totals		ΔS	-499			1758			2312		0		1335				-3234	499	4083

**Balance Period No: 11**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains m <sup>3</sup>	Summer Top Up m <sup>3</sup>	Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ			Cl	mm	δE <sub>pan</sub> m <sup>3</sup>				δE* m <sup>3</sup>
1/9/96	8:00	3.434	55221	19988	2.3	30.6					3.1	-41.8	-110.5	-74.7		
2/9/96	8:00	3.429	54984	19713							2.1	-40.8	-111.3	-72.8		
3/9/96	8:00	3.425	54793	19493			2.8	153	12.0	256	3.1	-43.6	-114.4	-73.4	-160	
4/9/96	8:00	3.421	54605	19274							3.1	-38.8	-107.3	-74.0	-460	
5/9/96	8:00	3.414	54264	18893	4.8	33.0					2.5	-37.0	-104.4	-74.6	-50	
Balance 11A		ΔS	-1095		3.55	31.80		153	0	256		-40.0	-109.4	-73.7	-247	1051
6/9/96	8:00	3.422	54652	19329												
7/9/96	8:00	3.420	54558	19220			6.0	328	12.0	570	3.5	-42.9	-110.3	-75.3	-274	
8/9/96	8:00	3.420	54558	19220			2.1	115	12.0	149	3.5	-41.6	-107.6	-75.9	-178	
9/9/96	8:00	3.429	54984	19713	4.7	33.2	3.2	175	12.0	202	0.7	-53.8	-118.9	-76.5	-337	
Balance 11B		ΔS	820		4.75	33.10	5.5	302	12.0	440	2.4	-49.2	-112.6	-77.1	-120	1088
10/9/96	8:00	3.448	55821	20766				919		1360		-46.9	-112.4	-76.2	-908	
11/9/96	8:00	3.490	57724	23149			10.1	564	12.0	964	3.2	-50.5	-114.2	-76.8	-299	
12/9/96	8:00	3.482	57347	22689			17.9	1033	12.0	1364	2.8	-49.1	-112.9	-76.4	146	
13/9/96	8:00	3.478	57161	22460	2.5	30.9	0.2	11	12.0	158	1.7	-49.2	-113.2	-76.1	-530	
Balance 11C		ΔS	2747		3.60	32.05		1609	0	2487	1.8	-49.6	-113.7	-75.8	-125	890
Totals		ΔS	2472					2681	0	4103		1680			-2633	3029

**Balance Period No: 12**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	mm	δE*				δA	
13/9/96	8:00	57161	22460	2.5	30.9	2.4	137	1.2	12.0	184		1.8	-49.6	-113.7	-75.8				
14/9/96	8:00	56935	22175			4.4	251	7.7	12.0	296	12.0	4.1	-51.8	-116.1	-75.5				
15/9/96	8:00	57025	22289			3.5	200	7.7	12.0	314	12.0	3.6	-67.2	-132.3	-75.1				
16/9/96	8:00	57254	22574			1.3	74	7.7	12.0	64	12.0	2.2	-64.0	-129.3	-74.8				
17/9/96	8:00	56890	22118	4.1	33.9							2.9	-58.4	-120.8	-75.8				
Balance 12A		ΔS	-342	3.30	32.40		662			858	0		732	-60.3	-124.6	-75.3	342	1483	
18/9/96	8:00	57254	22574			4.9	281	5.2	12.0	382	12.0	2.5	-69	-127.5	-76.8				
19/9/96	8:00	57025	22289			1.2	68	5.2	12.0	67	12.0	4.4	-42	-102.2	-77.9				
20/9/96	8:00	56800	22004			0.1	5.7	5.2	12.0	1	12.0	3.3	-42	-100.0	-78.9				
21/9/96	8:00	56571	21721	6.1	36.1							2.6	-41	-98.0	-79.9				
Balance 12B		ΔS	-397	5.10	35.00		355			450	0		731	-48.5	-106.9	-78.4	190	653	
22/9/96	8:00	59030	24609			22.5	1328	-13.9	12.0	2051	12.0	5.6	-58.5	-108.5	-80.9				
23/9/96	8:00	58761	24255			0.1	5.9	-13.9	12.0	20	12.0	3.5	-40.5	-97.2	-80.8				
24/9/96	8:00	58334	23846	5.7	30.8	0.1	5.8	-13.9	12.0			3.0	-44.3	-98.7	-80.7				
25/9/96	8:00	57969	23438	6.4	30.9							2.6	-39.3	-95.3	-80.6				
Balance 12C		ΔS	1717	6.25	33.50		1340			2071	0		854	-45.7	-99.9	-80.7	0	1553	
<b>Totals</b>		ΔS	978				2356			3378	0		2317				-2440	532	3689

**Balance Period No: 13**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains m <sup>3</sup>	Summer Top Up m <sup>3</sup>	Evaporation m <sup>3</sup>	δE*		Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>
				δ	Cl	mm	δ				mm	δE <sub>pan</sub>			
25/9/96	8:00	57969	23438	6.4	30.9					2.6	-39.3	-95.3	-80.6		
26/9/96	8:00	57724	23149	7.1	31.0					3.1	-37.7	-93.8	-80.5		
27/9/96	8:00	59725	25618			17.9	1069	1643	12.0	1.5	-71.1	-115.7	-80.3		
28/9/96	8:00	59318	25023					2	12.0	4.0	-54.7	-105.6	-80.2		
29/9/96	8:00	59155	24786	4.7	37.3	1.5	89	57	12.0	3.8	-44.2	-99.2	-80.1		
Balance 13A		ΔS	1348	5.55	34.10		1158	1702	0	735	-51.9	-103.6	-80.3	894	1687
30/9/96	8:00	58901	24432							4.0	-40	-96.8	-80.0		
1/10/96	8:00	58511	24021			0.1	5.9	1.5	12.0	2.2	-45	-99.2	-79.9		
2/10/96	8:00	58279	23787							1.9	-49	-103.7	-78.1		
3/10/96	8:00	57918	23381	5.1	38.1					3.3	-43	-101.4	-76.2		
Balance 13B		ΔS	-1405	4.90	37.70		6	0	0	667	-44.3	-100.3	-78.5	0	802
4/10/96	8:00	57676	23092							3.4	-44.1	-103.3	-74.4		
5/10/96	8:00	57347	22689							3.9	-42.1	-102.8	-72.5		
6/10/96	8:00	57115	22403							3.3	-40.4	-102.4	-70.7		
7/10/96	8:00	56890	22118	7.3	41.9					3.7	-38.3	-101.2	-68.8		
Balance 13C		ΔS	-1263	6.20	40.00		0	0	0	814	-41.2	-102.5	-71.6	254	687
Totals		ΔS	-1320				1164	1702	0	2216				1148	3176



**Balance Period No: 15**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	mm	δE <sub>pan</sub>	δE*	δA					
19/10/96	8:00	3.414	18893	14.5	54.4																
20/10/96	8:00	3.453	21045																		
21/10/96	8:00	3.509	24255			14.2	834	-22.1	12.0	1	12.0	2075	-2.5	204	720	-12.8	164				
22/10/96	8:00	3.515	24609			4.5	266	-22.1	12.0	625	12.0	1389	-2.5	204	482	-12.8	164				
23/10/96	8:00	3.527	25320	8.5	75.2	10.2	607	-7.2	12.0	792	12.0										
Balance 15A		ΔS	6427	11.50	64.80		1707			2265		3464			1202			55	1373		
24/10/96	8:00	3.527	25320																		
25/10/96	8:00	3.517	24727			6.0	357	-7.2	12.0	405	12.0										
26/10/96	8:00	3.506	24079																		
27/10/96	8:00	3.497	23555	9.0	75.7																
Balance 15B		ΔS	-1765	8.75	75.45		357			405		0			0			0	1620		
28/10/96	8:00	3.488	23034																		
29/10/96	8:00	3.478	22460																		
30/10/96	8:00	3.472	22118																		
31/10/96	8:00	3.458	21326	11.5	79.4	0.3	17	22.1	12.0	3	12.0	48	-2.5	204							
Balance 15C		ΔS	-2229	10.25	77.55		17			60		48			0			0	1276		
Totals		ΔS	2433				2081			2730		3512			1202			2952	-4141	55	4269

Lawn irrigation and lake top up commence sub balance 15A



**Balance Period No: 17**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>				
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA			
12/11/96	8:00	56337	21438	13.1	119	0.3	17	-24.9	12.0	18	12.0	6.1	-38.0	-98.6	-62.5						
13/11/96	8:00	55778	20710			0.2	11	-24.9	12.0	8	12.0	5.0	-40.2	-99.3	-64.8	-482					
14/11/96	8:00	55036	19768			19.5	1111	-24.9	12.0	1792	12.0	4.4	-63.4	-117.4	-67.0	-738					
15/11/96	8:00	56980	22232	4.0	92.0	18.0	1051	-24.9	12.0	1651	12.0	5.5	-69.1	-119.0	-69.3	-192					
16/11/96	8:00	58389	23904	8.55	105.50		2190			3469		3	-2.5	204	9	-13.5	174				
Balance 17A		ΔS	2466							3		3			9			0	2785		
17/11/96	8:00	57819	23265			0.1	5.8	-24.9	12.0	45	12.0	4.1	-55.1	-104.3	-73.8	-452					
18/11/96	8:00	57301	22632							15		4.0	-50.4	-97.7	-76.0	-432					
19/11/96	8:00	56845	22060									4.6	-52.0	-96.4	-76.5	-310					
20/11/96	8:00	56293	21382	11.1	101							4.4	-48.9	-92.4	-77.0	-428					
Balance 17B		ΔS	-2522	7.55	96.50		6			45		15			15			644	2149		
21/11/96	8:00	55778	20710							5	12.0	4.7	-47.8	-90.8	-77.5	-415					
22/11/96	8:00	55036	19768							13	12.0	4.9	-47.9	-89.7	-77.9	-683					
23/11/96	8:00	54984	19713							15	12.0	5.1	-47.0	-88.1	-78.4	-286					
24/11/96	8:00	54214	18839	12.8	109	1.0	54	2.7	12.0	45	12.0	5.1	-40.8	-85.4	-78.9	-696					
Balance 17C		ΔS	-2543	11.95	105.00		54			78		348			148			78	2176		
Totals		ΔS	-2599				2250			3592		366			172			3142	-5837	722	7110

**Balance Period No: 18**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>						
				ΔS	Cl	mm	δ	m <sup>3</sup>	Cl	m <sup>3</sup>	δ	mm	m <sup>3</sup>	δE <sub>pan</sub>	δA	mm				m <sup>3</sup>	δE <sub>pan</sub>	δA			
24/11/96	8:00	54214	18839	12.8	109.0							20	-2.5	204	5	-13.5	174	5.1	-40.8	-85.4	-78.9				
25/11/96	8:00	53644	18300									50	-2.5	204				5.7	-36.1	-82.7	-79.4	-359			
26/11/96	8:00	3391	52672	17661														5.1	-80.3	-80.4	-80.4	-509			
27/11/96	8:00	3380	51996	17086														5.0	-34.3	-77.8	-81.5	-401			
28/11/96	8:00	3367	51241	16415	119.0							100	-2.5	204				4.4	-34.4	-74.6	-82.5	-620			
Balance 18A			ΔS -2424	15.00	114.00	0			0			170			5			711	-35.5	-78.8	-80.9	-1888	537		2366
29/11/96	8:00	3352	50395	15653														5.1	-33.2	-71.3	-83.5	-592			
30/11/96	8:00	3369	51356	16517								1508	-2.5	204	137	-9.3	242	5.2	-36.0	-69.5	-84.5	-682			
1/12/96	8:00	3397	53204	17979								1420	-2.5	204	461	-9.3	242	4.0	-50.0	-74.4	-85.6	-616			
2/12/96	8:00	3418	54461	19111	147.0							1320	-2.5	204	678	-9.3	242	3.5	-54.5	-80.0	-86.6	-825			
Balance 18B			ΔS 2696	14.15	133.00	240			257			4248			1276			610	-43.4	-73.8	-85.1	-2715	330		3067
3/12/96	8:00	3408	53945	18569														4.3	-41.0	-79.9	-85.0	-468			
4/12/96	8:00	3388	52463	17504														5.2	-36.4	-78.5	-83.5	-881			
5/12/96	8:00	3370	51415	16569														5.5	-34.4	-76.6	-81.9	-744			
6/12/96	8:00	3354	50510	15753	18.4	151.0												5.5	-29.9	-75.4	-80.3	-630			
Balance 18C			ΔS -3358	14.75	149.00	27			8			0			50			719	-35.4	-77.6	-82.7	-2723	0		2777
7/12/96	8:00	3345	49985	15301														5.5	-31.9	-77.6	-78.7	-900			
8/12/96	8:00	3375	51709	16827								468	-4.5	186	160	-9.1	237	5.9	-34.3	-80.1	-77.2	-1603			
9/12/96	8:00	3403	53644	18300								2480	-4.5	186	848	-9.1	237	5.2	-39.6	-83.9	-75.6	-1571			
10/12/96	8:00	3382	52109	17190	15.0	172.0						2404	-4.5	186	822	-9.1	237	5.3	-40.7	-83.5	-77.3	-923			
Balance 18D			ΔS 1437	16.70	161.50	0			0			5352			1830			748	-36.6	-81.3	-77.2	-4997	0		5067
Totals			ΔS -1649			267			264			9770			3161			2788				-12324	867		13277





**Balance Period No: 21**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>				δE*	δA
3/1/97	8:00	42194	9991	16.5	252																
4/1/97	8:00	40187	8921							14	-1.7	204		7.1	-39.5	-70.7	-86.1				
5/1/97	8:00	43192	10546							2437	-1.8	206	442	8.3	-36.9	-66.7	-87.6	-740			
6/1/97	8:00	45897	12373							2555	-1.8	206	520	7.5	-41.9	-75.3	-89.1	-941			
7/1/97	8:00	44021	11069	10.2	237								148	6.0	-46.5	-82.1	-90.6	-979			
Balance 21A		ΔS	1078	13.35	244.50				0	5006			962	6.3	-39.7	-82.1	-89.9	-1023			
8/1/97	8:00	42039	9907											1208	-41.2	-76.5	-89.3	-3682	0	3920	
9/1/97	8:00	39984	8800											7.0	-38.6	-78.9	-89.1	-861			
10/1/97	8:00	38466	7898											6.6	-39.5	-74.2	-88.4	-838			
11/1/97	8:00	36768	6958	18.5	268									5.6	-42.4	-66.6	-87.7	-681			
Balance 21B		ΔS	-4111	14.35	252.50				0	0			0	6.7	-36.4	-64.3	-87.0	-689			
12/1/97	8:00	40912	9326											1042	-39.2	-71.0	-88.1	-3069	0	3041	
13/1/97	8:00	44214	11202							2794	-0.1	205	918	8.1	-51.5	-78.1	-86.2	-1028			
14/1/97	8:00	42117	9949							2534	-0.1	205	824	7.1	-51.6	-86.0	-85.5	-1180			
15/1/97	8:00	39783	8681	9.9	240									6.2	-45.5	-84.0	-87.1	-987			
Balance 21C		ΔS	1723	14.20	254.00				0	5328			1742	5.4	-46.9	-81.5	-88.7	-1046			
Totals		ΔS	-1310						0	10334			2704		3355				-10993	0	11285

**Balance Period No: 22**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>			
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*	δA							
15/1/97	8:00	39783	8681	9.9	240																	
16/1/97	8:00	37787	7517																			
17/1/97	8:00	35818	6486																			
18/1/97	8:00	33734	5582																			
19/1/97	8:00	37177	7180	12.8	243																	
Balance 22A		ΔS	-1501	11.35	241.50	0		0	0	2057	746	-16.2	152	8.0	285	-48.5	-64.5	-95.1	-859	0	3453	
20/1/97	8:00	39451	8483																			
21/1/97	8:00	37516	7366			0.3	12	15.5	12.0	1981	718	-16.4	150	9.4	359	-46.0	-74.0	-96.7	-1049			
22/1/97	8:00	35344	6272																			
23/1/97	8:00	33246	5381	12.0	253																	
Balance 22B		ΔS	-1799	12.40	248.00	12			0	1981	718			7.4	254	-41.5	-72.8	-94.6	-637	0	3558	
24/1/97	8:00	30711	4484																			
25/1/97	8:00	32057	4923																			
26/1/97	8:00	35344	6272																			
27/1/97	8:00	38059	7669	5.7	225																	
Balance 22C		ΔS	2288	8.85	239.00	0			0	4611	1844	-13.5	172	5.2	191	-48.9	-86.5	-91.8	-1004	0	3468	
Totals		ΔS	-1012			12			0	8649	3308				2840					-10140	0	10479





**Balance Period No: 25**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation				Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ	m <sup>3</sup>	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE* mm	δA					
20/2/97	8:00	32578	5117	3.8	226	0.2	5.9	15.2	12.0	12	12.0				2.9	-63.1	-94.2	-88.1			
21/2/97	8:00	29623	4152												4.7	-58.8	-88.6	-89.4			
22/2/97	8:00	27555	3637												3.9	-63.3	-93.1	-90.6			
23/2/97	8:00	33408	5447							1	12.0	168	168	2.7	-58.9	-92.9	-91.9				
24/2/97	8:00	34863	6062	-0.3	221	1.0	35	-25.2	12.0	28	12.0	168	168	2.5	-102.7	-97.6	-93.1				
Balance 25A		ΔS	945	1.75	223.50		40.8			41		1344			423	-70.9	-93.0	-91.2	0		3957
25/2/97	8:00	31878	4859							4	12.0				2.3	-89.4	-92.6	-92.6			
26/2/97	8:00	28623	3890									5	-14.2	168	1.3	-64.7	-89.0	-92.2			
27/2/97	8:00	24290	2962												4.7	-54.6	-86.1	-91.7			
28/2/97	8:00	2983	2083	6.9	245										5.2	-50.3	-82.9	-91.2			
Balance 25B		ΔS	-3979	3.30	233.00		0			4		5			348	-64.8	-87.6	-91.9	0		3613
1/3/97	8:00	26186	3341												6.9	-42.0	-89.6	-90.7			
2/3/97	8:00	34943	6097									330	-15.4	151	2.5	-63.1	-95.6	-90.3			
3/3/97	8:00	39319	8404	-0.9								1301	-15.4	151	6.0	-59.4	-100.1	-89.8			
4/3/97	8:00	3255	44021	-1.0	206							1202	-15.8	149	6.4	-50.8	-100.1	-87.4			
Balance 25C		ΔS	8986	2.98	225.50		0			0		4258	-15.6	150	718	-53.8	-96.4	-89.5	0		6896
Totals		ΔS	5952				40.8			46		5607			1489				-14569	0	14466

**Balance Period No: 26**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA	
4/3/97	8:00	3.255	44021	11069	-1.0	206						6.4	-50.8	-100.1	-87.4				
5/3/97	8:00	3.201	39984	8800	-1.0							4.7	-51.0	-102.0	-84.9	-2072			
6/3/97	8:00	3.155	36905	7032								5.1	-50.4	-101.9	-82.5	-1572			
7/3/97	8:00	3.110	33408	5447			0.2	6.7	34.4	12.0		6.3	-49.3	-101.9	-80.1	-1372			
8/3/97	8:00	3.068	29517	4122	5.7	230						3.8	-42.9	-98.9	-77.7	-1207			
Balance 26A		ΔS	-6947	2.38	218.00			6.7		0	0		732	-48.4	-101.2	-81.3	-6222	0	6180
9/3/97	8:00	3.038	25951	3289								5.8	-41.5	-99.6	-75.2	-671			
10/3/97	8:00	3.070	29727	4182						1403	-2.5	204	4.4	-52.3	-113.5	-72.8	-908		
11/3/97	8:00	3.037	25834	3263						57	-2.5	204	5.6	-48.9	-108.6	-74.1	-857		
12/3/97	8:00	3.001	20280	2425	8.8	251						4.7	-35.9	-95.3	-75.3	-730			
Balance 26B		ΔS	-1697	7.25	240.50			0		1460			549	-44.7	-104.3	-74.4	-3165	0	3125
13/3/97	8:00	2.960	15365	1703								4.7	-30.6	-89.6	-76.6	-638			
14/3/97	8:00	2.927	12908	1240								3.3	-29.7	-86.8	-77.9	-416			
15/3/97	8:00	2.896	10945	869								6.7	-23.7	-81.3	-79.2	-291			
16/3/97	8:00	2.867	8651	582	17.0	282						5.8	-23.3	-76.0	-80.4	-230			
Balance 26C		ΔS	-1843	12.90	266.50			0		0	0		267	-26.8	-83.4	-78.5	-1576	0	1606
Totals		ΔS	-10487					6.7		1460	557		1548				-10963	0	10911

**Balance Period No: 27**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>					
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA				
16/3/97	8:00	8651	582	17.0	282	5.8	174															
17/3/97	8:00	29929	4241																			
18/3/97	8:00	24697	3036			5.8	-3.4	12.0	375	12.0	152	1895	-13.8	186	5.8	-23.3	-76.0	-80.4				
19/3/97	8:00	18657	2211						195	12.0	152				4.0	-73.8	-122.0	-81.7				
20/3/97	8:00	14894	1627	0.9	203										3.9	105	-64.0	-114.9	-81.8			
Balance 27A		ΔS	1045	8.95	242.50	174			570		1895				3.9	65	-56.3	-109.3	-81.8			
															3.9	65	-56.5	-108.7	-81.9			
															351	-62.6	-113.7	-81.8	-4069	0	3547	
21/3/97	8:00	12173	1089												3.3	45	-59.5	-111.5	-81.9	-493		
22/3/97	8:00	31498	4733												6.0	132	-65.2	-116.1	-82.0	-1211		
23/3/97	8:00	35264	6237												3.5	118	-59.5	-113.3	-82.0	-2476		
24/3/97	8:00	3191	39319	-3.0	205										4.5	167	-63.1	-116.5	-82.1	0		
Balance 27B		ΔS	6777	-1.05	204.00	0			0		2130				463	-61.8	-114.4	-82.0	-4179	0	4284	
25/3/97	8:00	35818	6486												2.8	106	-64.7	-118.5	-81.2	-1821		
26/3/97	8:00	31597	4764												5.0	169	-58.4	-114.8	-80.3	-1553		
27/3/97	8:00	3043	26544	0.3	212										3.4	100	-49.9	-109.2	-79.4	-1243		
28/3/97	8:00	3045	26794	0.1	220										3.9	103	-44.3	-105.6	-78.4	-1114		
Balance 27C		ΔS	-4930	-1.45	212.50	0			0		270				478	-54.3	-112.0	-79.8	-5731	0	5732	
Totals		ΔS	2892			174			570		4295				1292					-13980	0	13563

**Balance Period No: 28**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>					
				δ	Cl	mm	δ	m <sup>3</sup>	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE* mm	δA								
28/3/97	8:00	3,045	3474	0.1	220	20.3	647	-12.0	12.0	1747	12.0	480	-2.5	217	135	-13.5	149	3.9	-44.3	-105.6	-78.4			
29/3/97	8:00	3,092	4859							1747	12.0	480	-2.5	217	135	-13.5	149	2.6	-65.5	-126.1	-77.5	-1548		
30/3/97	8:00	3,329	14509			43.5	2132	-12.0	12.0	4157	12.0	3340	-0.8	217	2222	-16.8	149	2.6	-121.6	-182.9	-76.6	-2096		
31/3/97	8:00	3,292	12742							8	12.0							2.5	-78.6	-143.6	-75.7	-1655		
1/4/97	8:00	3,256	11113	-3.4	130													3.9	-79.7	-133.4	-80.9	-1454		
Balance 28A		ΔS	7639	-1.65	175.00		2779			5912		3820			2357			475	-86.4	-146.5	-77.7	-6754	0	5634
2/4/97	8:00	3,225	9781									146	-11.2	163				3.0	-56.2	-109.5	-86.2	-1348		
3/4/97	8:00	3,223	41644									1219	-11.2	163				3.9	-55.4	-103.5	-91.4	-1142		
4/4/97	8:00	3,220	41400			0.7	29	-26.1	12.0	42	12.0	1134	-2.5	204	310	-13.5	149	3.1	-65.9	-98.3	-96.6	-1510		
5/4/97	8:00	3,215	40988	-3.7	145	0.1	4.1	-26.1	12.0	9	12.0	909	-2.5	204	356	-13.5	149	2.8	-77.0	-87.5	-101.8	-1368		
Balance 28B		ΔS	-1746	-3.55	137.50		33			51		3408			666			535	-63.6	-99.7	-94.0	-5368	0	5588
6/4/97	8:00	3,197	39716			5.5	218	-39.5	12.0	524	12.0							1.8	-84.0	-107.1	-107.1	-1394		
7/4/97	8:00	3,170	37923			0.2	7.6	-40.2	12.0	10	12.0							4.2	-86.5	-64.4	-112.3	-904		
8/4/97	8:00	3,168	37787			6.7	253	-40.2	12.0	738	12.0							1.3	-95.5	-75.1	-107.7	-1019		
9/4/97	8:00	3,143	36045	-6.4	133													4.7	-71.3	-94.3	-103.1	-750		
Balance 28C		ΔS	-2773	-5.05	139.00		479			1272		0			0			458	-84.3	-77.4	-107.5	-4066	0	3914
Totals		ΔS	3120				3291			7234		7228			3023			1469				-16188	0	15136

**Balance Period No: 29**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>				
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	mm	m <sup>3</sup>	δE*	δA							
9/4/97	8:00	36045	6594	-6.4	133																		
10/4/97	8:00	39716	8641																				
11/4/97	8:00	38334	7821			4.3	165	-71.0	12.0	273	12.0	216	723	-13.0	157	4.7	-71.3	-94.3	-103.1				
12/4/97	8:00	40465	9082			0.5	20	-71.0	12.0	6	12.0	204	594	-13.5	169	2.8	-77.4	-100.5	-98.5	-1519			
13/4/97	8:00	38128	7707	-3.6	177	0.2	7.6	-71.0	12.0		12.0					3.2	-61.9	-110.7	-89.2	-1461			
Balance 29A		ΔS	1113	-5.00	155.00		193			279			1317				373	-71.7	-108.8	-91.5	-5427	0	5360
14/4/97	8:00	36045	6594																				
15/4/97	8:00	3130	35025																				
16/4/97	8:00	3102	32749																				
17/4/97	8:00	3151	36630	-2.9	206																		
Balance 29B		ΔS	-823	-3.25	191.50		0			0			877				429	-58.2	-118.6	-82.1	-3947	0	3780
18/4/97	8:00	3135	35425																				
19/4/97	8:00	3177	38400																				
20/4/97	8:00	3155	36905																				
21/4/97	8:00	3147	36349	-1.4	196	9.6	349	-8.0	12.0	663	12.0	215	139	-13.4	164	3.4	-64.4	-106.9	-90.0	-1184			
Balance 29C		ΔS	-146	-2.15	201.00		349			668			2486				407	-60.8	-110.3	-87.9	-5325	0	5273
Totals		ΔS	144				542			946			4680				1209				-14699	0	14413





**Balance Period No: 32**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)				Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>			
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>				δE*	δA	
15/5/97	8:00	27428	3609	-1.7	219																	
16/5/97	8:00	33246	5381							2469	-1.2	222	637	-13.1	162	2.2	-55.0	-45.2	-119.3			
17/5/97	8:00	32145	4955							537	-1.2	222	157	-13.1	162	1.7	-61.4	-39.9	-118.7	-1283		
18/5/97	8:00	29929	4241			2.9	87	-35.5	12.0	103						1.9	-58.5	-49.7	-118.0	-1059		
19/5/97	8:00	28507	3861	-3.9	213	4.5	128	-35.5	12.0	316						1.1	-83.2	-21.0	-117.3	-868		
Balance 32A		ΔS	252	-2.80	216.00		215			418			794			1.7	-66.2	-41.5	-117.6	-3984	0	3846
20/5/97	8:00	3038	3289													0.9	-65.8	-54.3	-112.7	-546		
21/5/97	8:00	34057	5717													2.3	-45.1	-78.5	-108.8	-1353		
22/5/97	8:00	31498	4733													2.9	-51.0	-76.4	-104.9	-888		
23/5/97	8:00	29194	4034	-0.7	217											3.1	-46.7	-83.0	-100.9	-604		
Balance 32B		ΔS	173	-2.30	215.00		0			0			797			285	-52.1	-73.1	-106.8	-3392	0	3419
24/5/97	8:00	30810	4515			14.5	447	-3.0	12.0	1238						1.3	-56.1	-88.3	-97.0	-1165		
25/5/97	8:00	30028	4271			5.5	165	-3.0	12.0	332						1.5	-67.8	-100.2	-93.1	-696		
26/5/97	8:00	27679	3665			0.2	5.5	-7.5	12.0							1.6	-45.2	-104.2	-89.2	-567		
27/5/97	8:00	25349	3161	-0.8	165	0.5	13	-7.5	12.0	15						1.8	-53.4	-104.6	-90.6	-485		
Balance 32C		ΔS	-873	-0.75	191.00		630			1586			0			176	-55.6	-99.3	-92.5	-2912	0	2607
Totals		ΔS	-448				845			2004			1591			659				-10288	0	9872



**Balance Period No: 34**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	δ	Cl	mm	m <sup>3</sup>				δE*
16/6/97	8:00	46315	12650	-6.6	108														
17/6/97	8:00	3,273	11872																
18/6/97	8:00	3,258	44214																
19/6/97	8:00	3,246	10676			1.4	61	4.2	12.0	41	12.0								
20/6/97	8:00	3,235	10203	-5.1	106	2.0	85	4.2	12.0	68	12.0								
Balance 34A		ΔS	-2447	-5.85	107.00		146			109		0						2465	
21/6/97	8:00	3,225	9781																
22/6/97	8:00	3,211	40683			2.0	84	4.2	12.0	92	12.0								
23/6/97	8:00	3,205	40254			0.2	8	-0.1	12.0										
24/6/97	8:00	3,192	39385	-3.0	104	2.3	93	-0.1	12.0	101	12.0								
Balance 34B		ΔS	-1760	-4.05	105.00		184			193		0						1968	
25/6/97	8:00	3,182	38726																
26/6/97	8:00	3,171	37991			0.2	8	13.8	12.0	1	12.0								
27/6/97	8:00	3,162	37381																
28/6/97	8:00	3,155	36905	-1.8	112							66	-2.5	204	29	-11.6	174		
Balance 34C		ΔS	-1411	-2.40	108.00		8			1		66			29				1542
Totals		ΔS	-5618				338			303		66			29				5975

**Balance Period No: 35**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains m <sup>3</sup>	Summer Top Up m <sup>3</sup>	Evaporation m <sup>3</sup>	δE*		Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ				Cl	mm				δE <sub>pan</sub>
28/6/97	8:00	36905	7032	-1.8	112					1.7	-59.0	-114.0	-89.2			
29/6/97	8:00	36197	6666							0.7	-52.1	-101.1	-93.0			
30/6/97	8:00	35507	6343							1.8	-39.4	-93.3	-96.9			
1/7/97	8:00	34783	6027							2.1	-34.9	-94.2	-96.3			
2/7/97	8:00	33896	5649	-1.2	122					2.5	-32.2	-94.6	-95.7			
Balance 35A		ΔS	-1383	-1.50	117.00		0		0	250	-39.7	-95.8	-95.5	-1133	260	1396
3/7/97	8:00	34863	6062			8.1	-44.2	12.0		2.6	-40	-96.3	-95.1	-393		
4/7/97	8:00	34463	5888					6	12.0	2.1	-75	-102.9	-94.6	-108		
5/7/97	8:00	33896	5649			0.3	-15.2	12.0	13	1.6	-88	-110.2	-94.0	-209		
6/7/97	8:00	37244	7217	-3.9	79.9	17.4	-15.2	12.0	1403	1.5	-94	-116.9	-93.4	-428		
Balance 35B		ΔS	1568	-2.55	100.95		941		0	269	-74.2	-106.6	-94.3	-1137	0	1238
7/7/97	8:00	38986	8208			9.8	-15.2	12.0		2.4	-60.6	-109.6	-92.8	-249		
8/7/97	8:00	38661	8014			2.2	85	2.9	12.0	0.5	-46.8	-109.8	-89.3	-310		
9/7/97	8:00	40988	9367			13.4	-14.7	12.0	1194	1.2	-52.1	-103.2	-95.8	-342		
10/7/97	8:00	40394	9041	-5.7	59.4					2.2	-50.6	-94.7	-102.3	-237		
Balance 35C		ΔS	1824	-4.80	69.65		1016		0	250	-52.5	-104.4	-95.1	-1139	5	1139
Totals		ΔS	2009				1957		0	768				-3410	265	3773

**Balance Period No: 36**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation				Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*	δA				
10/7/97	8:00	40394	9041	-5.7	59.4							2.2	-50.6	-94.7	-102.3				
11/7/97	8:00	39850	8721									1.0	-46.7	-98.0	-99.4		-278		
12/7/97	8:00	39251	8365									2.5	-47.3	-100.8	-96.5		-257		
13/7/97	8:00	39850	8721			6.9	-0.4	450	12.0			0.5	-78.8	-113.2	-93.6		-348		
14/7/97	8:00	42963	10417	-4.1	50.6	14.0	-0.4	1356	12.0			0.6	-87.9	-126.4	-90.7		-238		
Balance 36A		ΔS	1376	-4.90	55.00			876		0			186	-65.2	-109.6	-95.1	102	1229	
15/7/97	8:00	42271	10033									2.0	-43.5	-113.9	-83.0		-300		
16/7/97	8:00	41724	9739									2.5	-43.0	-122.4	-75.2		-189		
17/7/97	8:00	41066	9408									1.7	-39.5	-124.0	-68.4		-262		
18/7/97	8:00	40536	9122	-2.2	53.0							1.9	-39.4	-121.6	-71.0		-209		
Balance 36B		ΔS	-1295	-3.15	51.80			0		0			335	-41.4	-120.5	-74.4	29	983	
19/7/97	8:00	39917	8760									1.5	-41.6	-123.0	-73.6		-303		
20/7/97	8:00	39649	8601									1.0	-41.9	-120.1	-76.1		-118		
21/7/97	8:00	39117	8286									1.8	-39.4	-113.6	-78.7		-245		
22/7/97	8:00	38791	8091	-1.2	55.6							2.1	-35.7	-110.6	-76.6		-114		
Balance 36C		ΔS	-1031	-1.70	54.30			0		0			251	-39.7	-116.8	-76.2	45	825	
Totals		ΔS	-950					876		0			772				-2861	176	3037

**Balance Period No: 37**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Summer Top Up		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA	
22/7/97	8:00	38791	8091	-1.2	55.6							2.1	-35.7	-110.6	-76.6				
23/7/97	8:00	38400	7860									2.8	-35.3	-107.9	-78.5				
24/7/97	8:00	39183	8325			8.4	-13.6	12.0	475	12.0		2.6	-49.4	-122.2	-80.4				
25/7/97	8:00	40608	9163			9.5	-13.6	12.0	689	12.0		2.2	-73.5	-142.8	-82.3				
26/7/97	8:00	40394	9041	-3.8	49.4	1.7	-11.8	12.0	52	12.0		1.4	-78.5	-141.1	-84.2				
Balance 37A		ΔS	950	-2.50	52.50		784		1216		0		353	-59.2	-128.5	-81.4	53	770	
27/7/97	8:00	41066	9408									1.1	-77.7	-133.6	-86.1				
28/7/97	8:00	40683	9204			6.4	-11.8	12.0	506	12.0		2.2	-56.6	-114.0	-88.0				
29/7/97	8:00	40394	9041			0.8	-3.8	12.0	54	12.0		2.2	-61.7	-119.5	-86.7				
30/7/97	8:00	39917	8760	-2.2	50.4							1.8	-55.4	-117.4	-85.4				
Balance 37B		ΔS	-281	-3.00	49.90		295		562		0		293	-62.9	-121.1	-86.5	133	973	
31/7/97	8:00	39583	8562	-3.2	52.0							1.6	-54.7	-119.7	-84.0				
1/8/97	8:00	39251	8365									2.3	-53.2	-120.2	-82.7				
2/8/97	8:00	38791	8091									2.9	-48.0	-117.1	-81.4				
3/8/97	8:00	38531	7937	-0.8	55.3							0.7	-56.8	-113.5	-86.6				
Balance 37C		ΔS	-823	-1.50	52.85		0		0		0		295	-53.2	-117.6	-83.7	129	659	
Totals		ΔS	-154				1079		1778		0		941				-2070	315	2402

**Balance Period No: 38**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>			
				δ	Cl	mm	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA		
3/8/97	8:00	38531	7937	-0.8	55.3	22.0	933	-14.0	12.0	1035	12.0				0.7	-56.8	-113.5	-86.6			
4/8/97	8:00	3233	42424	10118		7.5	327	-10.5	12.0	1116	12.0				1.3	-87.5	-111.0	-91.8	264		
5/8/97	8:00	3248	43550	10763		2.6	113	-2.8	12.0	244	12.0				2.8	-65.7	-105.8	-92.4	-676		
6/8/97	8:00	3249	43619	10806		1.6	70	-2.8	12.0	143	12.0				1.9	-59.8	-104.7	-93.0	-233		
7/8/97	8:00	3248	43550	10763		1.6	70	-2.8	12.0	143	12.0				2.0	-74.7	-108.7	-93.6	-167		
Balance 38A		ΔS	2826	-2.45	50.75	1443				2538					342	-71.9	-107.5	-92.7	-812	265	1095
8/8/97	8:00	3245	43337	10632		2.0	87	-2.8	12.0	128	12.0	39	-2.5	204	1.4	-76.3	-107.5	-94.3	-363		
9/8/97	8:00	3250	43688	10850		5.5	240	-19.9	12.0	514	12.0				2.4	-67.3	-104.4	-94.9	-433		
10/8/97	8:00	3316	48161	13877		24.8	1194	-19.9	12.0	2338	12.0				1.5	-63.0	-102.7	-95.5	-438		
11/8/97	8:00	3310	47725	13590						34	12.0				1.9	-48.0	-100.0	-96.1	-231		
Balance 38B		ΔS	2827	-4.30	45.85	1521				3014		39			320	-63.7	-103.7	-95.2	-1465	556	1897
12/8/97	8:00	3303	47214	13257						0					1.5	-54.9	-107.3	-91.5	-264		
13/8/97	8:00	3298	46866	13022						0					2.3	-52.8	-107.5	-90.7	-127		
14/8/97	8:00	3293	46526	12789						0					3.1	-69.9	-116.3	-89.8	-87		
15/8/97	8:00	3343	49866	15201		17.5	873	-5.9	12.0	1764	12.0				3.3	-90.6	-128.5	-89.0	-66		
Balance 38C		ΔS	1611	-4.55	46.10	873				1764					482	-67.1	-114.9	-90.3	-544	442	992
16/8/97	8:00	3347	50104	15401		5.0	251	-18.0	12.0	422	12.0				2.1	-59.7	-113.5	-88.2	-368		
17/8/97	8:00	3340	49688	15052						26	12.0				2.2	-46.8	-106.9	-87.3	-265		
18/8/97	8:00	3335	49387	14804						0					2.7	-47.0	-107.3	-86.5	-114		
19/8/97	8:00	3330	49075	14558						0					2.5	-48.3	-115.9	-79.1	-123		
Balance 38D		ΔS	-643	-3.60	48.80	251				447					471	-50.5	-110.9	-85.3	-870	319	1170
Totals		ΔS	6621			4088				7763		39			1616				-3691	1582	5154

**Balance Period No: 39**

**East Lake**

Day & Time	Stage m AHD	Area		Volume		Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>			
		m <sup>2</sup>	m <sup>2</sup>	m <sup>3</sup>	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>				δE*	δA	
19/8/97	8:00	3.330	49075	14558		-2.6	50.9								2.5	-48.3	-115.9	-79.1				
20/8/97	8:00	3.325	48760	14314											1.8	-47.0	-110.5	-82.7	-157			
21/8/97	8:00	3.320	48436	14071											3.0	-49.5	-107.6	-86.3	-96			
22/8/97	8:00	3.316	48161	13877											2.1	-55.9	-104.7	-89.8	-93			
23/8/97	8:00	3.311	47799	13638		-1.2	61.9								2.1	-53.9	-97.7	-93.4	-139			
Balance 39A			ΔS	-920		-1.90	56.40				0		0			435	-51.6	-105.1	-88.0	-485	673	1152
24/8/97	8:00	3.306	47427	13399											2.4	-41.4	-101.0	-86.8	-125			
25/8/97	8:00	3.301	47075	13163											2.4	-42.9	-107.8	-80.2	-123			
26/8/97	8:00	3.295	46662	12882											4.3	-38.5	-102.1	-81.9	-81			
27/8/97	8:00	3.294	46594	12835		1.8	68.5	0.5	23	-24.5	12.0				2.8	-54.3	-110.1	-83.6	60			
Balance 39B			ΔS	-803		0.30	65.20		23		0		0			558	-44.3	-105.3	-83.1	-268	276	525
28/8/97	8:00	3.314	48019	13781											1.5	-56.1	-108.0	-85.2	-186			
29/8/97	8:00	3.326	48823	14362				9.0	432	-24.5	12.0				1.8	-48.7	-101.9	-86.9	-87			
30/8/97	8:00	3.321	48503	14119				6.2	303	-24.5	12.0				2.3	-54.8	-101.9	-88.6	-131			
31/8/97	8:00	3.318	48300	13974		0.2	69.1								2.4	-46.8	-94.9	-92.8	-29			
Balance 39C			ΔS	1139		1.00	68.80		735		1226		0			388	-51.6	-101.7	-88.4	-434	506	925
Totals			ΔS	-584					758		1226		0			1380				-1187	1455	2602

**Balance Period No: 40**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δ	Cl	mm				m <sup>3</sup>	δE*
31/8/97	8:00	48300	13974	0.2	69.1							2.4	-46.8	-94.9	-92.8				
1/9/97	8:00	47873	13685									3.2	-44.8	-90.9	-97.0	-134			
2/9/97	8:00	49866	15201			13.0	648	12.0	901	12.0		1.3	-55.9	-91.5	-95.7	32			
3/9/97	8:00	3.355	15804			7.6	384	-2.4	396	12.0		2.0	-61.9	-94.0	-94.4	-78			
4/9/97	8:00	3.350	15552	-0.5	67.4	0.1	5.0	-2.4	2	12.0		2.0	-53.2	-96.3	-93.1	-159			
Balance 40A		ΔS	1578	-0.15	68.25		1038		1299	0	0		420	-53.9	-93.2	-95.0	-338	421	741
5/9/97	8:00	3.345	49985									2.3	-54.3	-97.1	-91.7	-136			
6/9/97	8:00	3.463	56474			39.3	2219	-54.8	5067	12.0		2.1	-166.6	-188.5	-90.4	-867			
7/9/97	8:00	3.456	56163			1.0	56	-22.6	10	12.0		3.0	-101.7	-148.4	-89.1	-293			
8/9/97	8:00	3.526	59481	-20.3	43.5	26.3	1564	-22.6	3144	12.0		3.0	-131.5	-170.1	-87.8	-490			
Balance 40B		ΔS	9709	-10.40	55.45		3840		8221	0	0		566	-113.5	-151.0	-89.8	-1786	48	1915
9/9/97	8:00	3.551	60631			14.4	873	-22.6	911	12.0		3.3	-127.7	-168.4	-87.0	-87			
10/9/97	8:00	3.575	62269			12.9	803	-26.2	1441	12.0		2.6	-96.2	-146.7	-86.2	-615			
11/9/97	8:00	3.570	61779			0.6	37	-26.2	23	12.0		2.3	-92.6	-144.5	-85.4	-229			
12/9/97	8:00	3.567	61539	-18.0	47.2	1.2	74	-23.9	71	12.0		2.7	-132.9	-175.5	-84.6	-165			
Balance 40C		ΔS	2477	-19.15	45.35		1787		2445	0	0		659	-112.3	-158.8	-85.8	-1097	1020	2101
Totals		ΔS	13764				6665		11965	0	0		1645				-3221	1489	4757

**Balance Period No: 41**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation				Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*	δA					
12/9/97	8:00	61539	27738	-18.0	47.2								2.7	-132.9	-175.5	-84.6					
13/9/97	8:00	61155	27370										3.1	-102.3	-153.0	-83.8					
14/9/97	8:00	60947	27126										2.5	-104.2	-155.2	-83.0					
15/9/97	8:00	60684	26822										3.1	-93.6	-147.5	-82.2					
16/9/97	8:00	60416	26519	-15.5	52.8								3.1	-88.0	-144.7	-80.5					
Balance 41A				ΔS	-1219	-16.75	50.00	0		0				725	-97.0	-150.1	-82.4	-494	576	1062	
17/9/97	8:00	60156	26218										2.6	-99.6	-157.0	-78.8					
18/9/97	8:00	59935	25917			0.2	12	4.3	12.0	19	12.0		3.0	-97.4	-154.2	-79.0					
19/9/97	8:00	59766	25678			0.1	6.0	4.3	12.0				2.9	-103.3	-158.5	-79.2					
20/9/97	8:00	59522	25320	-13.3	54.9								3.0	-89.1	-145.4	-79.3					
Balance 41B				ΔS	-1199	-14.40	53.85	18		19		0			693	-97.3	-153.8	-79.1	-542	96	640
21/9/97	8:00	59236	24904										2.5	-84.8	-141.1	-79.5					
22/9/97	8:00	59115	24727										3.2	-89.8	-144.5	-79.7					
23/9/97	8:00	58809	24314							1	12.0		3.4	-83.3	-136.6	-81.2					
24/9/97	8:00	58581	24079	-11.5	57.5	0.5	29	-2.2	12.0	2	12.0		4.0	-92.1	-140.4	-82.7					
Balance 41C				ΔS	-1241	-12.40	56.20	29		12		0			780	-87.5	-140.7	-80.8	-502	118	632
Totals				ΔS	-3659		47		31		0				2198				-1539	790	2334

**Balance Period No: 42**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation			Apparent GW Flux	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*	δA	δ	Cl				mm
24/9/97	8:00	58581	24079	-11.5	57.5								4.0	-92.1	-140.4	-82.7			
25/9/97	8:00	3,499	58174	23671				2	12.0				4.3	250	-66.3	-119.9	-160		
26/9/97	8:00	3,495	57969	23438		0.8	46	15.0	12.0				3.4	199	-73.6	-122.3	-92		
27/9/97	8:00	3,490	57724	23149				1	12.0				2.8	163	-76.9	-121.4	-127		
28/9/97	8:00	3,485	57486	22861	-8.1	62.2							3.3	192	-75.8	-117.8	-96		
Balance 42A		ΔS	-1218	-9.80	59.85	46		14		0				803	-73.2	-120.4	-475	333	776
29/9/97	8:00	3,479	57207	22517									3.7	209	-74.7	-115.1	-135		
30/9/97	8:00	3,475	57025	22289									3.1	179	-83.5	-115.9	-49		
1/10/97	8:00	3,472	56890	22118		1.9	108	-1.1	12.0	12.0			4.4	252	-79.2	-112.0	-151		
2/10/97	8:00	3,467	56663	21834	-7.6	69.9							3.1	178	-66.3	-106.7	-106		
Balance 42B		ΔS	-1027	-7.85	66.05	108		124		0				818	-75.9	-112.5	-442	726	1210
3/10/97	8:00	3,460	56337	21438									3.9	218	-60.1	-102.6	-178		
4/10/97	8:00	3,455	56120	21157									4.0	223	-69.7	-99.8	-58		
5/10/97	8:00	3,447	55778	20710									4.8	268	-63.1	-101.7	-179		
6/10/97	8:00	3,442	55566	20431	-2.7	77.4							5.6	314	-49.4	-100.3	35		
Balance 42C		ΔS	-1403	-5.15	73.65	0		0		0				1023	-60.6	-101.1	-380	451	781
Totals		ΔS	-3648			154		138		0				2644			-1296	1510	2767



**Balance Period No: 44**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>		
				δ	Cl	mm	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA	
18/10/97	8:00	54793	19493	1.8	90.5															
19/10/97	8:00	54510	19165																	
20/10/97	8:00	54055	18677																	
21/10/97	8:00	53580	18246																	
22/10/97	8:00	52839	17767	5.5	93.3															
Balance 44A		ΔS	-1726	3.65	91.90		0		0		0								719	
23/10/97	8:00	52166	17242																	
24/10/97	8:00	51591	16723			0.1	5.2	28.4	12.0											
25/10/97	8:00	51073	16261																	
26/10/97	8:00	50679	15905	7.4	104															
Balance 44B		ΔS	-1862	6.45	98.65		5		12		0								1606	
27/10/97	8:00	50221	15502																	
28/10/97	8:00	49866	15201																	
29/10/97	8:00	49138	14607			1.4	70	11.4	12.0											
30/10/97	8:00	48300	13974	10.3	116															
Balance 44C		ΔS	-1931	8.85	110.00		70		61		0								539	
Totals		ΔS	-5519				75		73		0								1158	
																				3865

Balance 44A corresponds to start irrigation pumping



**Balance Period No: 46**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				Δ	δ	mm	δ	m <sup>3</sup>	Cl	m <sup>3</sup>	Cl	δ	mm	m <sup>3</sup>	δE <sup>*</sup>				ΔA
11/11/97 8:00	3.209	40536	9122	21.1	146								5.9	-24.9	-65.7	-84.9			
12/11/97 8:00	3.197	39716	8641	22.7	151								6.6	-23.4	-61.0	-89.5	-217		
13/11/97 8:00	3.190	39251	8365	25.1	156								1.5	-26.2	-40.3	-94.1	-218		
14/11/97 8:00	3.184	38856	8130	22.97	151.00								2.5	-21.5	-42.6	-98.7	-137		
15/11/97 8:00	3.173	38128	7707	22.97	151.00								5.3	-18.6	-42.7	-103.2	-218		
Balance 46A		ΔS	-1415	22.97	151.00	0		0	0	0	0	0	624	-22.4	-46.6	-96.4	-791	0	812
16/11/97 8:00	3.164	37516	7366										6.9	-16.2	-42.6	-107.8	-81		
17/11/97 8:00	3.156	36973	7068										5.4	-14.2	-51.2	-98.3	-96		
18/11/97 8:00	3.148	36420	6775										6.3	-12.5	-52.1	-88.7	-63		
19/11/97 8:00	3.139	35742	6450	30.2	181								6.7	-10.7	-57.4	-79.2	-84		
Balance 46B		ΔS	-1257	27.65	168.50	0		0	0	0	0	0	933	-13.4	-50.8	-93.5	-324	229	546
20/11/97 8:00	3.130	35025	6132										5.4	-10.4	-51.8	-81.6	-126		
21/11/97 8:00	3.123	34463	5888										6.0	-9.6	-36.4	-84.1	-34		
22/11/97 8:00	3.131	35108	6167	30.6	183	5.4	190	450	12.0	12.0	12.0		3.1	-8.9	-19.4	-86.5	-252		
23/11/97 8:00	3.126	34703	5992	30.40	182.00		190	1	12.0	12.0			4.0	-9.9	-35.4	-88.9	-37		
Balance 46C		ΔS	-458	30.40	182.00	190		451		0	0	0	649	-9.7	-35.7	-85.3	-450	43	492
Totals		ΔS	-3130			190		451		0	0	0	2206				-1565	272	1850



**Balance Period No: 48**

**East Lake**

Day & Time	Stage m AHD	Area		Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
		m <sup>2</sup>	ΔS		δ	Cl	mm	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	mm	ΔE*	ΔA					
5/12/97	8:00	3.022	23869	2890	42.5	260							4.7	12.5	-6.7	-95.2			
6/12/97	8:00	3.009	21783	2593	47.4	282							7.5	13.7	-12.0	-96.7	-126		
7/12/97	8:00	2.997	19634	2345	50.3	324							7.4	15.3	-7.5	-98.1	-95		
8/12/97	8:00	2.988	18405	2174	50.3	324							7.2	13.7	-15.4	-85.0	-34		
9/12/97	8:00	2.976	17015	1962	50.3	324							6.3	11.1	-20.8	-81.6	-101		
Balance 48A			ΔS	-928	46.73	288.67					0	0	572	18.2	-13.9	-90.3	-356	0	370
10/12/97	8:00	2.961	15459	1718	55.0	336							8.3	13.5	-28.4	-78.2	-109		
11/12/97	8:00	2.949	14383	1539	55.0	336							7.0	10.4	-4.2	-74.8	-75		
12/12/97	8:00	2.936	13483	1358	58.3	377							6.4	8.9	12.4	-82.1	-92		
13/12/97	8:00	2.922	12589	1176	58.3	377							6.6	8.6	8.5	-89.4	-96		
Balance 48B			ΔS	-786	54.53	345.67					0	0	414	35.4	-2.9	-81.1	-372	0	432
14/12/97	8:00	2.910	11878	1029	61.1	419							8.9	10.8	11.7	-93.4	-39		
15/12/97	8:00	2.897	11013	880	61.1	419							8.3	9.6	-5.6	-83.3	-53		
16/12/97	8:00	2.885	10189	753	65.0	474							8.7	9.2	4.7	-73.1	-35		
17/12/97	8:00	2.871	9082	618	65.0	474							5.6	5.4	68.8	-75.4	-81		
Balance 48C			ΔS	-558	61.47	423.33					0	0	350	48.8	10.0	-81.3	-208	0	257
Totals			ΔS	-2272							0	0	1337				-935	0	1059

**Balance Period No: 49**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)		Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA
17/12/97	8:00	9082	618	65.0	474							5.6	68.8	29.2	-75.4			
18/12/97	8:00	7926	533									5.8	66.0	29.0	-77.7			
19/12/97	8:00	7110	450	65.0	536							5.8	44	36.1	-79.9			
20/12/97	8:00	2.836	357	67.7	574							5.2	35	30.4	-82.2			
Balance 49A		ΔS	-261	65.90	528.00	0		0	0	0	0		128	66.2	31.9	-79.9	-133	0
21/12/97	8:00	2.960	15365									6.8	73	-76.5	-107.1	-84.5	-179	
22/12/97	8:00	2.976	17015	-0.5	220					1598	-14.0	5.0	81	-65.6	-102.0	-81.9	-282	
23/12/97	8:00	2.963	15656	2.9	244					622	-13.6	9.2	150	-45.9	-90.9	-79.3	-63	
24/12/97	8:00	2.928	12972									7.6	109	-43.5	-78.6	-83.3	-387	
25/12/97	8:00	2.908	11755	19.9	319							8.4	104	-31.5	-64.6	-87.3	-143	
Balance 49B		ΔS	649	9.70	269.50	0		0	0	2220			517	-52.6	-88.7	-83.3	-1054	0
Totals		ΔS	388			0		0	0	2220	0		646				-1186	0

Average lake Cl & Deuterium for Sub balance 49B calculated from Dec 21 as lake is virtually dry on December 20th

Lake isolated by clay basin, effective groundwater discharge is minimal

**Balance Period No: 50**

**East Lake**

Day & Time	Stage m AHD	Area m <sup>2</sup>	Volume m <sup>3</sup>	Lake		Rain		Drains		Top Up (Outlets A & B)			Evaporation			Apparent GW Flux m <sup>3</sup>	GW In m <sup>3</sup>	Lake-GW m <sup>3</sup>	
				δ	Cl	mm	m <sup>3</sup>	δ	Cl	m <sup>3</sup>	δ	Cl	mm	m <sup>3</sup>	δE*				δA
25/12/97	8:00	11755	1006	19.9	319								8.4	-31.5	-64.6	-87.3			
26/12/97	8:00	2.889	10470	794									6.7	-25.0	-58.7	-91.3			
27/12/97	8:00	2.875	9430	655	372								7.9	-21.7	-49.7	-88.8			
28/12/97	8:00	2.982	17661	2066						1615	-13.1	161	3.5	-52.8	-75.6	-86.2			
29/12/97	8:00	2.989	18532	2192	215					737	-12.9	161	5.2	-72.4	-103.2	-85.6			
Balance 50A		ΔS	1186	15.37	302.00				0	2352		0		-43.0	-71.8	-88.0		0	829
30/12/97	8:00	2.962	15557	1734									6.9	-70.2	-98.1	-84.9			
31/12/97	8:00	2.937	13547	1372	243								3.9	-66.9	-92.0	-84.3			
1/1/98	8:00	2.912	11997	1053									5.8	-51.5	-82.7	-83.7			
2/1/98	8:00	2.892	10676	826	282								6.6	-39.4	-75.1	-83.1			
3/1/98	8:00	2.875	9430	655	297								6.8	-32.8	-70.2	-82.4			
Balance 50B		ΔS	-1537	9.90	256.00				0	0		0		-52.2	-83.6	-83.7		0	1124
Totals		ΔS	-351						0	2352		0		686				0	1953