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MAY 24 2002

Inyo Co. Water Department

May 23, 2002

Mr. Greg James
Inyo County Water Department
163 May St.
Bishop, CA 93514

Dear Greg:

2002-03 Annual Operations Plan

Enclosed is Los Angeles Department of Water and Power's (LADWP) Final 2002-03 Annual Operations Plan. The Plan incorporates modifications that were made to address concerns expressed by the Inyo County Water Department (ICWD).

As you know LADWP released the Draft Annual Operations Plan on April 20, 2002, and agreed to extend the ICWD review period by 10 days. On May 10, LADWP received comments on the Draft Plan by ICWD. At the Technical Group meeting held on May 21, 2002 the two parties discussed the ICWD comments and proposed methods to address them. Since then Technical Group representatives have continued discussing minor modifications to the Pumping Program.

Upon reading the Final Plan you will see that LADWP has attempted to accommodate the comments and concerns expressed by ICWD. Reductions of pumping from certain wellfields have been incorporated even though LADWP does not share the concern expressed by ICWD for those areas.

The Final Operations Plan calls for pumping of 86,000 acre-feet, same as that contemplated in the Draft Plan. Planned pumping from exempt wells has been increased from the level contemplated in the Draft Plan, to make up for reductions in pumping from other wellfields. Pumping of new or deep wells will be conducted according to jointly established protocols, with the understanding that water produced by operation of these wells will be used to replace pumping scheduled in the Final Plan. ---

Water and Power Conservation... a way of life

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Mr. Greg James

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May 23, 2002

Reductions to the supply of some E/M projects (same as last year) as proposed in the Final Plan still need to be approved by the Standing Committee at some time. Based on your May 10 letter and succeeding discussions, it is our understanding that ICWD is in agreement with these reductions.

If you have questions on any of the above, please don't hesitate to call me at (760) 873-0225.

Sincerely,

A handwritten signature in cursive script that reads "Gene Coufal".

GENE L. COUFAL
Manager
Aqueduct Business Group

Enclosure

c: Mr. René Mendez

ANNUAL OWENS VALLEY OPERATIONS PLAN 2002-2003 RUNOFF YEAR

INTRODUCTION

This document is LADWP's annual operations plan and pumping program for the Owens Valley for runoff year 2002-2003, pursuant to the Inyo/LA Long Term Agreement.

This year's pumping program reflects the conservative management strategy of the Water Agreement between the County of Inyo and the City of Los Angeles dated October 18, 1991 and comments received from the Inyo County Water Department. The overall goal of managing the water resources within Inyo County is to avoid certain described decreases and changes in vegetation and to cause no significant effect on the environment which cannot be acceptably mitigated while providing a reliable supply of water for export to Los Angeles and for use in Inyo County.

PLANNED 2002-2003 OWENS VALLEY PUMPING AND USES

For the period of April 1, 2002 to March 31, 2003, our forecast of Owens Valley runoff is 76 percent of normal (Table 1). According to the provisions of the Agreement, 147,885 acre-feet of water are available for groundwater pumping from Owens Valley wellfields. Given Inyo County's expressed concern regarding vegetation in select areas of Owens Valley, LADWP plans to pump a total of only 86,000 acre-feet for the entire valley, not including pumping to the aqueduct during the winter if necessary to prevent the water in the aqueduct from freezing.

The planned pumping consists of the amount necessary for sole source in-valley uses, groundwater for uses on the Bishop Cone, and the amount available to meet the various off-site uses while maintaining relatively stable water levels. During this year of below normal runoff, the water table can be expected to decline naturally throughout the valley. Due to the success of the Drought Recovery Policy and the associated ten consecutive years of low pumping, high water tables persist throughout the valley. The limited pumping outlined below will likely lead to temporary water table decline in parts of most well fields.

Consistent with the goals of the Agreement, pumping in all areas is within the allowable limits and consistent with the ground water mining provisions of the Green Book (Table 2).

As with previous operations plans, some wells that could be pumped under the Agreement will not be operated this year.

Planned Pumping

The attached tables provide detailed information on pumping and uses. Planned monthly pumping volumes by wellfield are shown on Table 3. ICWD and LADWP are jointly developing pumping protocols for Wells 380, 381, 378, 379, 389, 415, and 416. If these wells are pumped during the 2002-03 runoff year, LADWP will reduce its planned Owens Valley pumping by an amount equal to the amount pumped from Wells 380, 381, 378, 379, 389, 415 and 416. LADWP will work with the ICWD to identify the wells where planned pumping will be reduced. Actual monthly pumping amounts may vary, but total pumping is not expected to exceed 86,000 acre-feet, excluding freeze protection pumping.

Table 4 lists the April 2001 soil water status and projected soil water for each monitoring site using the methodology described in the Green Book.

Table 5 lists monitoring sites, production wells associated with each monitoring site, available production capacity according to the ON/OFF status as described in the Agreement, and the planned pumping from each wellfield in the Owens Valley. The following is justification for the planned pumping program listed by wellfield.

Laws Wellfield

Monitoring sites L1 and L2 have ON status. Production wells controlled by these monitoring sites have an available production capacity of 23,458 acre-feet. Exempt wells within Laws wellfield have a capacity of 11,946 acre-feet. Total capacity is 35,404 acre-feet available based on the ON/OFF status. LADWP is not proposing any pumping at this time from production wells associated with monitoring sites L1 (except Well 247 for McNally Ponds) and L2 pending completion of an operation plan for the Laws Area. Pumping in the Laws Wellfield is for the purpose of irrigation supply, E/M projects supply, town water supply, and offsite E/M replacement water. Exempt Well 365 will be pumped for ten months. The planned pumping in the Laws wellfield is 4,300 acre-feet.

Bishop Wellfield

Pumping from Bishop Wellfield is governed by the provisions of the Hillside Decree. The planned pumping from the Bishop Wellfield is 12,000 acre-feet.

Big Pine Wellfield

Monitoring site BP4 has ON status. Production wells controlled by this monitoring site have an available production capacity of 7,530 acre-feet. Exempt wells in the Big Pine Wellfield have a capacity of 27,000 acre-feet. A total capacity of 34,530 acre-feet is available in the Big Pine Wellfield based on ON/OFF status. Pumping from Big Pine Wellfield includes supply for Fish Spring Fish Hatchery and the town water system on a year round basis; exempt wells 218 and 219 will run throughout the year. The total proposed pumping from Big Pine Wellfield is 27,000 acre-feet.

Testing of the improved town ditch system supply well, Well 415, is not included in this plan. Also, this year LADWP is considering testing Wells 378, 379, and 389, Big Pine Wellfield wells

screened in the deep aquifer, to provide data to be used in developing a deep well management plan. If test pumping takes place from Wells 415, 378, and/or 389 in the Big Pine Wellfield, pumping in other Owens Valley wells will be reduced so that total pumping does not exceed 86,000 acre-feet.

Taboose-Aberdeen Wellfield

Monitoring site TA5 has ON status. Production wells controlled by this monitoring site have an available production capacity of 10,208 acre-feet. Exempt Well 118 in the Taboose-Aberdeen Wellfield has a capacity of 2,244 acre-feet. A total capacity of 12,452 acre-feet is available in the Taboose-Aberdeen Wellfield based on the ON/OFF status. The planned pumping in the Taboose-Aberdeen Wellfield is 12,450 acre-feet.

Thibaut-Sawmill Wellfield

Monitoring site TS3 has ON status. Production wells controlled by this monitoring site have an available production capacity of 2,968 acre-feet. The capacity of exempt Wells 351 and 356 is 12,163 acre-feet and 8,109 acre-feet respectively. A total capacity of 15,131 acre-feet is available in Thibaut-Sawmill Wellfield based on the ON/OFF status. The planned pumping in Thibaut-Sawmill Wellfield is from the Blackrock Fish Hatchery supply wells and production wells associated with monitoring site TS3. The planned pumping from Thibaut-Sawmill wellfield is 13,500 acre-feet.

Testing of Wells 380 and 381, wells screened in the deep aquifer, is being considered to provide data for use in developing a deep well management plan. If pumping takes place from Wells 380 and 381 in the Thibaut-Sawmill Wellfield, pumping in other Owens Valley wells will be reduced so that total pumping does not exceed 86,000 acre-feet.

Independence-Oak Wellfield

No monitoring sites in the Independence-Oak Wellfield have ON status. Total exempt capacity of Independence-Oak Wellfield is 12,634 acre-feet. The only pumping planned from this wellfield is from exempt wells for the purpose of irrigation, E/M projects, stockwater, town water supply, and offsite E/M replacement water. The planned pumping from the Independence-Oak Wellfield is 12,050 acre-feet.

Symmes-Shepherd Wellfield

Sites SS1, SS3, and SS4 have ON status. Production wells controlled by these monitoring sites have an available production capacity of 18,461 acre-feet. Exempt Well 402 in the Symmes-Shepherd Wellfield has an available capacity of 1,300 acre-feet. A total available capacity of 19,761 acre-feet is available in the Symmes-Shepherd Wellfield based on the ON/OFF status. The planned pumping is from exempt E/M Well 402 for irrigation. The planned pumping from Symmes-Shepherd Wellfield is 1300 acre-feet.

Bairs-Georges Wellfield

Monitoring site BG2 has ON status. Production wells controlled by this monitoring site have an available production capacity of 2,896 acre-feet. Exempt Well 343 has a capacity of 579 acre-feet. A total capacity of 3,475 acre-feet is available in the Bairs-Georges Wellfield

based on the ON/OFF status. The pumping program includes exempt Well 343 for irrigation and wells associated with monitoring site BG2 for the second half or the year. The planned pumping from Bairs-Georges Wellfield is 2000 acre-feet.

Lone Pine Wellfield

Available pumping capacity in the Lone Pine Wellfield is 2,498 acre-feet. 1400 acre-feet of pumping is planned for E/M project supply and town water supply. The planned pumping from Lone Pine wellfield is 1,400 acre-feet.

Initial operation of Well 416 is not included in this plan. If Well 416 is operated, pumping will be reduced from other wells so the total pumping from all Owens Valley Wellfields will not exceed 86,000 acre-feet.

In Valley Uses and E/M Projects

Similar to runoff years 1996-97 through 2001-02, full allotments will be available for most in-valley uses in 2002-2003. Exceptions are some E/M projects discussed below and a Laws area irrigation lease. LADWP leases will be provided with the normal duty of 5 acre-feet per acre. Alfalfa and improved pasture E/M projects will also receive 5 acre-feet per acre. Native pasture E/M projects will receive 3 acre-feet per acre duty. Table 6 shows the proposed monthly in-valley uses for 2002-2003.

The Agreement provides that "... enhancement/mitigation projects shall continue to be supplied by enhancement/mitigation wells as necessary." Due to monitoring sites being in soil water deficit status, the amount of water supplied to E/M projects has exceeded the amount of water provided by E/M project supply wells. Los Angeles' commitment to pump conservatively, and the imbalance between E/M project use and pumping from E/M wells, will result in a reduction of approximately 5,000 acre-feet in E/M project supply. The scheduled supply reduction for this year to the Lower Owens River Project is 3,000 acre-feet, Laws area ponds and pasturelands supply will be reduced by 1,500 acre-feet, and Klondike Lake supply is expected to be reduced by 500 acre-feet. (These reductions are identical to those made in recent years and are not in addition to previous reductions.)

To conserve water and to reduce groundwater pumping, releases to the Lower Owens River Project will be as conducted for the past 12 years. Releases will commence east of Independence and be augmented through additional releases at the Georges and Locust spillgates to maintain a continuous flow in the river channel.

Meeting E/M water uses, as described above, will result in a shortfall of E/M pumping of approximately 15,800 acre-feet (Table 7). This shortfall will be made up by pumping Los Angeles Aqueduct supply wells and/or by providing surface water from the Los Angeles Aqueduct.

Aqueduct Operations

Table 8 shows proposed Los Angeles Aqueduct first-of-month reservoir storage levels and proposed monthly Aqueduct deliveries to Los Angeles.

2002 RUNOFF FORECAST

April 1, 2002

APRIL THROUGH SEPTEMBER RUNOFF

	MOST PROBABLE VALUE		REASONABLE MAXIMUM (% of Avg.)	REASONABLE MINIMUM (% of Avg.)	LONG-TERM MEAN (1946 - 1995) (Acre-feet)
	(Acre-feet)	(% of Avg.)			
Mono Basin:	75,500	72%	84%	60%	104,346
Owens Valley:	210,200	72%	85%	58%	293,239
Total Runoff:	285,700	72%	85%	58%	397,585

APRIL THROUGH MARCH RUNOFF

	MOST PROBABLE VALUE		REASONABLE MAXIMUM (% of Avg.)	REASONABLE MINIMUM (% of Avg.)	LONG-TERM MEAN (1951 - 2000) (Acre-feet)
	(Acre-feet)	(% of Avg.)			
Mono Basin:	93,100	76%	89%	63%	122,480
Owens Valley:	302,100	76%	89%	63%	398,417
Total Runoff:	395,200	76%	89%	63%	520,897

MOST PROBABLE - That runoff which is expected if median precipitation occurs after the forecast date.

REASONABLE MAXIMUM - That runoff which is expected to occur if precipitation subsequent to the forecast is equal to the amount which is exceeded on the average once in 10 years.

REASONABLE MINIMUM - That runoff which is expected to occur if precipitation subsequent to the forecast is equal to the amount which is exceeded on the average 9 out of 10 years.

TABLE 2. ESTIMATED APRIL-SEPTEMBER 2001 MINING LIMIT

WATER YR	LAWS		BISHOP		BIG PINE		TABOOSE-	THIBAUT	IND-SYM-	BAIRS	LONE PINE		OWENS VALLEY	
	RECHARGE	PUMPING	RECHARGE	PUMPING	RECHARGE	PUMPING	RECHARGE	PUMPING	RECHARGE	PUMPING	RECHARGE	PUMPING	RECHARGE	PUMPING
1982	23622	14525	54899	6271	39514	24302	49103	26429	53359	8054	19370	1306	239867	80887
1983	35781	1038	70019	11	54564	25543	66183	14433	69294	318	24609	1250	320450	42593
1984	11758	6854	54463	3773	34320	27154	48176	13691	49425	367	18137	1772	216279	53611
1985	10913	10016	43995	9777	26653	26937	34243	27460	37594	8788	14298	2197	167696	85175
1986	31217	9953	60341	1809	47994	25054	56535	27325	58596	7842	21221	2439	275904	74422
1987	12405	21220	38443	9558	22816	38946	29544	53314	30067	32542	12193	1660	145468	157240
1988	12538	22486	36729	10900	20631	33667	25907	55195	27169	40348	11297	1389	134271	163985
1989	12758	38167	36456	11961	19765	35915	23127	54284	26748	34728	10992	1668	129846	176723
1990	11580	28019	34199	11416	17604	29591	20785	33476	23407	20114	9989	1661	117564	124277
1991	11132	13700	34869	11521	18729	21425	22407	29183	25846	10427	10406	1304	123389	87560
1992	10859	8909	34688	11337	18392	24345	20521	23768	23999	14247	10422	1628	118881	84234
(a) 1993	15056	7601	45895	8405	30653	22628	37676	19442	40214	11694	15138	1517	184632	71287
1994	10429	21233	33033	10211	17634	24959	22022	23587	24331	14895	10103	1281	117552	96166
1995	19053	7040	51585	4800	36383	21879	44601	17163	47240	12596	17366	1040	216228	64518
1996	17076	3500	48948	2400	33718	11000	41391	8600	43983	6300	16333	520	201449	32320
1997	16698	8349	48409	9606	33173	24002	40736	21771	43319	9461	16123	1128	198458	74317
1998	21529	470	54557	7159	39387	23729	48218	16484	50911	7946	18529	1239	233131	57027
1999	13338	1719	42829	8650	27534	21832	33944	16700	36428	8424	13938	2141	168011	59466
2000	15970	3974	47333	10804	32086	20212	39425	23143	41989	8497	15701	1036	192504	67666
2001	10840	8	36129	1452	20783	13616	25790	6262	28155	1453	11315	1183	133012	23974
2002														
(b) WY82-01														
TOTALS	313712	228773	871690	150369	571550	483120	704544	505448	753919	257588	286165	28176	3501580	1653474
ESTIMATED		84939		721321		88430		199096		496331		257989		1848106
APRIL-SEPT 2002				(c)										
MINING LIMIT														

- (a) Estimated Recharge for the 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002 Water Year; Approximated pumping for the first half of Water Year 2001
- (b) Estimated 20 Year Total for Recharge and Estimated 19.5 Year Total for Pumping
- (c) Bishop Cone Pumping Actually Limited to No Greater Than the Total Amount of Water Used on Los Angeles-Owned Land on the Cone

Table 3: 2002-2003 Projected Monthly Owens Valley Groundwater Pumping [ac-ft]

Month	Laws	Bishop	Big Pine	Taboose- Aberdeen	Thibaut- Sawmill	Indep.- Oak	Symmes- Shepherd	Bairs- Georges	Lone Pine	TOTAL
April	540	1,400	2,000	1,000	1,000	1,000	205	50	100	7,295
May	560	1,400	2,000	1,000	1,000	1,000	205	50	100	7,315
June	560	1,400	2,300	1,000	1,000	1,000	205	50	120	7,635
July	680	1,400	2,300	1,050	1,000	1,000	205	50	120	7,805
August	340	1,400	2,300	1,050	1,000	1,000	205	50	120	7,465
September	240	1,400	2,300	1,050	1,000	1,000	205	50	120	7,365
October	230	600	2,300	1,050	1,250	1,000	70	350	120	6,970
November	230	600	2,300	1,050	1,250	1,010	0	350	120	6,910
December	230	600	2,300	1,050	1,250	1,010	0	350	120	6,910
January	230	600	2,300	1,050	1,250	1,010	0	300	120	6,860
February	230	600	2,300	1,050	1,250	1,010	0	300	120	6,860
March	230	600	2,300	1,050	1,250	1,010	0	50	120	6,610
TOTAL	4,300	12,000	27,000	12,450	13,500	12,050	1,300	2,000	1,400	86,000

Soil/vegetation water balance calculations according to Green Book section III for October 2001 and April 2002.

Site	Oct 2001 soil AWC	50% Annual Precip.	Proj. soil AWC	October 2001 Veg Water Req./ Water Req. for well turn-on	Oct 2001 Status	April 2002 soil AWC	April 2002 Status	Soil AWC req. for well turn-on
	(cm)	(cm)	(cm)	(cm)		(cm)		(cm)
L1	4.8	7.9	12.7	9.8/NA	ON	5.9	ON	NA
L2	7.2	7.9	15.1	9.8/NA	ON	8.1	ON	NA
L3	8.4	NA	8.4	17.3/26.3	OFF	14.9	OFF	26.3, OFF 10-99
BP1	8.4	NA	8.4	18.3/22.9	OFF	9.3	OFF	22.9†, OFF 10-97
BP2	0.9	NA	0.9	18.6/28.4	OFF	1.6	OFF	28.4, OFF 7-98
BP3	2.1	7.9	10.0	6.7/6.7	OFF	4.3	OFF	6.7, OFF 7-01
BP4	40.9	8.2	49.1	17.6/NA	ON	41.2	ON	NA
TA3	2.4	NA	1.0	15.6/25.9	OFF	3.5	OFF	25.9, OFF 7-98
TA4	12.7	NA	12.7	29.4/23.2	OFF	16.2	OFF	23.2, OFF 10-98
TA5	18.2	8.2	26.4	5.3/NA	ON	19.0	ON	NA
TA6	2.9	NA	2.9	23.3/26.8	OFF	3.6	OFF	26.8†, OFF 7-96
TS1	1.9	NA	1.9	16.5/20.4	OFF	2.1	OFF	20.4†, OFF 10-96
TS2	2.5	NA	2.5	13.8/19.5	OFF	4.9	OFF	19.5, OFF 7-98
TS3	16.1	7.3	23.4	23.1/NA	ON	20.7	ON	NA
TS4	29.9	NA	29.9	42.8/46.1	OFF	40.1	OFF	46.1, OFF 10-98
IO1	20.6	NA	20.6	42.5/42.2	OFF	23.5	OFF	42.2, OFF 10-98
IO2	2.8	NA	2.8	3.3/6.4	OFF	3.3	OFF	6.4†, OFF 7-96
SS1	38.9	6.5	45.4	15.1/NA	ON	41.4	ON	NA
SS2	1.7	NA	1.7	2.8/6.4	OFF	1.6	OFF	6.4†, OFF 7-96
SS3	31.3	6.5	37.8	12.9/NA	ON	44.1	ON	NA
SS4	11.0	6.6	17.6	5.3/NA	ON	11.2	ON	NA
BG2	27.9	6.6	34.5	16.3/NA	ON	27.3	ON	NA

†: These values of soil water required for well turn-on were derived using calculations based on %cover that were routinely performed in the past. The values have not been updated to conform to the Greenbook equations in section III.D.2, p. 57-59.

Table 5: Available Pumping Capacity According to Monitoring Sites with ON Status and Proposed Pumping for Runoff Year 2002-2003

Wellfield	Monitoring Site	Associated wells	Available Capacity (AF)	Proposed Pumping (AF)
LAWS	L1	247, 248, 249, 398	12,670	
	L2	236, 239, 243, 244	10,788	
	L5	245, 387EM, 388EM	2,534	
	Exempt	354, 365, 413	9,412	
	Wellfield Pumpage		35,404	4,300
Bishop	All wells	140, 141, 207, 238, 371, 406, 407, 408	12,000	
	Wellfield Pumpage		12,000	12,000
Big Pine	BP4	331	7,530	
	Exempt	218, 219, 330, 332, 341, 352, 415	27,000	
	Wellfield Pumpage		34,530	27,000
Taboose	TA5	349	10,208	
Aberdeen	Exempt	118	2,244	
	Wellfield Pumpage		12,452	12,450
Thibaut	TS3	103, 104, 382EM	2,968	
Sawmill	Exempt	351, 356	12,163	
	Wellfield Pumpage		15,131	13,500
Independence	Exempt	59, 60, 61, 65, 357, 383EM, 384EM, 401	12,634	
Oak	Wellfield Pumpage		12,634	12,050
Symmes	SS1	69, 392, 393	6,588	
Shepherd	SS3	92, 396	5,864	
	SS4	75, 345	6,009	
	Exempt	402EM	1,300	
	Wellfield Pumpage		19,761	1,300
Bairs	BG2	348, 401	2,896	
Georges	Exempt	343	579	
	Wellfield Pumpage		3,475	2,000
Lone Pine	Exempt	344, 346, 390	2,498	
	Wellfield Pumpage		2,498	1,400
Owens Valley Total			147,885	86,000

Table 6: Historic (1981-82) and Projected (2002-2003) Water Uses in the Owens Valley [ac-ft]

Use	April		May		June		July		August		September		TOTAL Apr-Sep	
	1981	2002	1981	2002	1981	2002	1981	2002	1981	2002	1981	2002	1981	2002
	Irrigation	3980	4700	7958	8070	10373	8190	9476	8100	8295	7980	6321	5630	46403
Stockwater	1141	1070	1319	1230	1244	1160	1245	1210	1219	1185	1319	1100	7487	6955
Enhancement/Mitigation	0	1250	0	1980	0	3590	0	3560	0	3810	0	2890	0	17080
Recreation & Wildlife	379	460	804	980	1160	800	1455	1020	1381	930	1406	720	6585	4910
Total	5500	7480	10081	12260	12777	13740	12176	13890	10895	13905	9046	10340	60475	71615

Use	October		November		December		January		February		March		TOTAL Oct-Mar		TOTAL Apr-Mar	
	1981	2002	1981	2002	1981	2002	1982	2003	1982	2003	1982	2003	81-82	02-03	81-82	02-03
	Irrigation	263	830	0	10	0	0	0	0	0	10	14	100	277	950	46680
Stockwater	1065	1010	1045	890	1050	990	1007	1010	1010	950	1098	1000	6275	5850	13762	12805
Enhancement/Mitigation	0	1700	0	750	0	770	0	530	0	450	0	600	0	4800	0	21880
Recreation & Wildlife	781	820	713	460	565	430	478	250	342	340	447	300	3326	2600	9911	7510
Total	2109	4360	1758	2110	1615	2190	1485	1790	1352	1750	1559	2000	9878	14200	70353	85815

**Table 7: Owens Valley Groundwater Pumping
for Production and E/M Wells (1984-2003)**

Runoff Year (Apr-Mar)	Owens Valley Runoff (1) (% of normal)	Total Pumping (acre-feet)	Production Wells (acre-feet)	E/M Wells (acre-feet)	E/M Water Uses (acre-feet)	E/M Pumping vs. Use Imbalance (acre-feet)	Cumulative E/M Pumping vs. Use Imbalance (acre-feet)
1984/85	125%	61,981	61,981	0	0		0
1985/86	107%	107,718	107,718	0	109		0
1986/87	165%	69,887	69,887	0	12,696	(3)	0
1987/88	70%	209,393	179,883	29,510	29,360		0
1988/89	65%	200,443	171,012	29,431	30,872		0
1989/90	66%	155,903	133,340	22,563	23,330		0
1990/91	54%	89,061	70,974	18,087	17,949		0
1991/92	67%	87,526	71,736	15,790	20,517	-4,727	-4,727
1992/93	64%	84,135	70,370	13,765	18,357	-4,592	-9,319
1993/94	111%	76,329	67,338	8,991	19,310	-10,319	-19,638
1994/95	69%	89,153	78,143	11,010	20,812	-9,802	-29,440
1995/96	160%	69,740	57,168	12,572	22,914	-10,342	-39,782
1996/97	140%	74,817	57,894	16,923	23,949	-7,026	-46,808
1997/98	129%	66,910	52,756	14,154	21,500	-7,346	-54,154
1998/99	155%	51,575	47,354	4,221	19,672	(3)	-54,154
1999/00	92%	63,699	59,366	4,333	24,450	-20,117	-74,271
2000/01	87%	67,534	61,195	6,339	20,611	-14,272	-88,543
2001/02	86%	72,536	69,242	3,294	21,815	-18,521	-107,064
2002/03 (2)	76%	86,000	80,850	5,200	21,000	-15,800	-122,864

(1) 1951-2000 average: 398,417 acre-feet

(2) estimated values

(3) surface water was available

**Table 8: Proposed Los Angeles Aqueduct Operations
2002-2003**

Month	Reservoir Storage (1st of Month) Acre-Feet	Aqueduct Deliveries to LA Acre-Feet
Apr	170,100	7,400
May	177,200	24,600
Jun	175,900	23,800
Jul	171,300	30,700
Aug	157,800	38,400
Sep	133,100	37,200
Oct	106,800	15,400
Nov	110,000	11,900
Dec	122,500	12,300
Jan	136,800	13,800
Feb	148,400	12,500
Mar	155,900	15,400
TOTAL		243,400