

APPENDIX A

APPENDIX A: TABLES

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Table A-1: Water Quality ~ Annual TDS and NO₃-N in mg/L by Management Zone

It should be noted that the same wells were not necessarily sampled each year, which may cause fluctuations in high and low values. It should also be noted that water quality and the character of groundwater are determined by a number of factors including: mineral content of sediments; recharge and drainage patterns; historic land use practices; and screening intervals and depths of wells sampled, to name a few. ND stands for "None Detected", an indication that the constituent is not present or is present in quantities below the testing detection limit

A-1-a. Lakeview/Hemet North Management Zone (partial):

Year	Samples	TDS		NO3-N	
		High	Low	High	Low
2004	25	4,410	380	22.0	ND
2005	24	4,360	360	21.0	ND
2006	22	4,520	350	21.0	ND
2007	19	4,410	300	11.0	ND
2008	20	4,580	320	11.0	ND

A-1-b. Perris North Management Zone:

Year	Samples	TDS		NO3-N	
		High	Low	High	Low
2004	25	1,400	270	23.0	0.8
2005	22	1,310	220	23.0	ND
2006	22	1,620	240	20.0	ND
2007	17	1,730	460	24.0	ND
2008	20	1,860	220	16.0	ND

A-1-c. Perris South Management Zone:

Year	Samples	TDS		NO3-N	
		High	Low	High	Low
2004	40	10,300	590	20.0	ND
2005	36	10,100	580	18.0	ND
2006	38	15,700	310	26.0	ND
2007	41	14,600	320	21.0	ND
2008	38	12,800	280	100.0	ND

A-1-d. San Jacinto Lower Pressure Management Zone:

Year	Samples	TDS		NO3-N	
		High	Low	High	Low
2004	7	1,870	330	7.8	ND
2005	6	1,870	260	7.7	ND
2006	5	1,080	360	8.5	ND
2007	8	1,180	340	8.0	ND
2008	7	5,020	340	8.0	ND

A-1-e. Menifee Management Zone:

Year	Samples	TDS		NO3-N	
		High	Low	High	Low
2004	16	4,540	840	15.0	0.2
2005	14	3,680	910	10.0	ND
2006	12	3,880	921	14.0	ND
2007	13	3,580	770	14.0	0.7
2008	15	3,390	850	9.7	ND

A-1-f. Hemet South Management Zone (partial):

Year	Samples	TDS		NO3-N	
		High	Low	High	Low
2004	2	800	630	16.0	12.0
2005	0	-	-	-	-
2006	3	710	470	17.0	7.3
2007	0	-	-	-	-
2008	2	510	460	11.0	11.0

Table A-2: Number of Wells Measured for the Groundwater Level Monitoring Program by Management Zone

Note: The below figures represent the number of wells actually sampled or measured rather than the number of wells participating in the program. Not all participating wells could be sampled or measured each year due to flooding, access, or other constraints.

Table A-2-a: Number of Wells Measured in Spring

Water Levels	2004	2005	2006	2007	2008
Lakeview/Hemet North (partial)	30	30	32	28	33
Perris North	30	438	501	501	505
Perris South	47	48	53	53	56
S.J. Lower Pressure	20	17	19	22	22
Menifee	21	21	20	19	18
Hemet South (partial)	2	1	1	2	1
Totals	150	555	626	625	635

Table A-2-b: Number of Wells Measured in Fall

Water Levels	2004	2005	2006	2007	2008
Lakeview/Hemet North (partial)	29	31	33	29	30
Perris North	37	424	489	505	501
Perris South	53	50	58	58	51
S.J. Lower Pressure	22	26	19	24	22
Menifee	23	21	20	18	18
Hemet South (partial)	2	1	1	2	2
Totals	166	553	620	636	624

Table A-3: Number of Wells in the Groundwater Extraction Monitoring Program

A-3-a. Metered Wells:

Management Zone/Year	2004	2005	2006	2007	2008
Lakeview/Hemet North (partial)	22	24	23	22	21
Perris North	14	14	18	17	11
Perris South	10	8	14	11	9
S.J. Lower Pressure	3	3	3	5	4
Meniffee	4	5	5	5	5
Hemet South (partial)	1	1	1	2	2
Totals	54	55	64	62	52

A-3-b. Estimated Wells:

Management Zone/Year	2004	2005	2006	2007	2008
Lakeview/Hemet North (partial)	1	1	1	0	0
Perris North	8	7	3	3	6
Perris South	1	1	1	2	4
S.J. Lower Pressure	3	2	1	0	1
Meniffee	7	7	6	6	6
Hemet South (partial)	1	1	1	1	1
Totals	21	19	13	12	18

A-3-c. Total Wells Monitored:

Management Zone/Year	2004	2005	2006	2007	2008
Lakeview/Hemet North (partial)	23	25	24	22	21
Perris North	22	20	21	20	17
Perris South	11	9	15	13	13
S.J. Lower Pressure	6	5	4	5	5
Meniffee	11	12	11	11	11
Hemet South (partial)	2	2	2	3	3
Totals	75	73	77	74	70

**Table A-4: Groundwater Production (AF) Results from the
Groundwater Extraction Monitoring Program**

Management Zone	2004	2005	2006	2007	2008
Perris North	7,509	7,739	8,284	8,066	8,425
Lakeview/Hemet North (partial)	3,943	2,763	3,049	2,791	2,214
S.J. Lower Pressure	345	309	408	416	149
Perris South	2,316	1,475	6,455	6,630	4,166
Menifee	4,539	4,407	4,860	4,725	4,132
Hemet South (partial)	90	88	71	7	172
Totals	18,742	16,781	23,127	22,635	19,258

**Table A-5: Groundwater Production (AF) Recorded
with the State in the Plan Area**

Management Zone	2003	2004	2005	2006	2007
Perris North	4,457	4,672	4,298	7,602	7,776
Lakeview/Hemet North (partial)	3,478	2,427	1,881	2,191	3,957
S.J. Lower Pressure	179	0	154	255	845
Perris South	1,843	2,285	1,405	6,377	6,600
Menifee	5,155	3,340	2,643	3,593	3,381
Hemet South (partial)	340	340	0	114	0
Totals	15,452	13,064	10,381	20,132	22,559

Table A-6: District-Wide Recycled Water Use by Management Zone (AF)

Management Zone	2004	2005	2006	2007	2008
Lakeview/Hemet North (partial)	3,293	3,680	4,416	5,464	4,541
Perris North	2,317	2,462	2,675	2,642	1,871
Perris South	5,018	4,143	5,043	7,038	5,531
S.J. Lower Pressure	1,811	3,135	2,142	3,749	5,179
Menifee	115	46	85	383	400
Hemet South (partial)	112	228	60	15	7
WSJ Sub-Total	12,666	13,694	14,421	19,291	17,529
Hemet North	2,591	2,191	1,410	1,291	1,357
Hemet South (H/SJ)	671	483	978	2,521	2,672
SJ Upper Pressure	1,435	1,868	1,670	2,132	4,718
H/SJ Sub-Total	4,697	4,542	4,058	5,944	8,747
Santa Margarita	3,393	1,868	2,719	2,264	1,524
EVMWD	2,808	536	208	239	194
Other Sub-Total	6,201	2,404	2,927	2,503	1,718
Totals	23,564	20,640	21,406	27,738	27,994

Table A-7: Rainfall (inches) in the Plan Area

Station	Lakeview	Lake Perris	Moreno Valley East	Sun City	Winchester
Year	4S/2W 18	3S/3W 33	3S/2W 06	5S/3W 22	5S/2W 28
2004	-	15.12	18.15	15.08	14.20
2005	13.32	15.04	-	18.04	18.92
2006	-	5.16	7.15	-	7.12
2007	3.51	4.28	5.51	-	4.33
2008	-	9.37	11.19	8.73	10.06

**Table A-8: Inactive Wells Capped/Sealed by EMWD
per Year in the Plan Area**

Management Zone	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total Wells
Lakeview/Hemet North (partial)	2	2	1	1	2	0	0	0	0	8
Perris North	5	3	2	0	0	0	0	0	0	10
Perris South	6	8	0	4	2	1	1	0	1	23
S.J. Lower Pressure	5	0	2	0	1	0	0	0	0	8
Menifee	3	1	5	1	1	0	0	0	0	11
Hemet South (partial)	0	0	0	0	0	0	0	0	0	0
Totals	21	14	10	6	6	1	1	0	1	60

Table A-9: Well Permits in the Plan Area by Type and Year

Type of Permit/Year	2002	2003	2004	2005	2006	2007	2008
Domestic – Individual and Community Wells	28	25	33	40	16	26	6
Agricultural Wells	5	6	4	15	2	10	5
Monitoring Wells	32	41	66	43	40	62	60
Cathodic Protection Wells	2	1	3	0	0	5	4
Well Abandonments	13	17	34	26	20	21	55
Totals	80	90	140	124	78	124	126