REVISED WATER BALANCE - HIGHLAND
REVISION DATE June 2017(Rev 2)

Year							0 2017	1 2018	2 2019	3 2020	4 2021	5 2022	6 2023	7 2024	8 2025	9 2026	10 2027	11 2028	12 2029	13 2030	14 2031	15 2032	16 2033	17 2034	18 2035	19 2036	20 2037	21 2038	22 2039	23 2040	24 2041	25 2042	26 2043	27 2044	28 2045	29 2046	30 2047	31 2048	32 2049	33 2050	34 2051	35 2052	36 2053	37 2054	38 2055	39 2056
PRODUCTION FLOWS																																													
Total Production Flow (gpm)							3370	2560	1710	1080	540	220	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Production Bleed (gpm)							33.7	25.6	17.1	10.8	5.4	2.2	0.3	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWS to Disposal							10	10	10	10	10	10																																	
Control Bleed (gpm)							12	10	12	2	0	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RESTORATION FLOWS																																													
	PV With Flair (Kgal)	GWS PV to Finish	RO PV to Finish	Average flow (gpm)	Treatment time (years)																																								
SAT 2	**84,828,000**	0	303,684,240										0	0	0	0	0	0																											
MU C (gal) (RO)	84,828	0	4	144.00	4.0								232145040	160605840	89066640	17527440	0	0																											
GWS (gal)				34.20	0.0								144	144	144	144	144	144																											
Total Disposal (gal)													34	34	34	34	34	34																											
													36	36	36	36	36	36																											
SAT 2	**32,311,000**	22,617,700	137,321,750											14122420	5627140	0	0																												
MU D (gal) (RO)	32,311	1	4	72.00	3.6									101552150	65782550	30012950	0																												
GWS (gal)				17.10	2.5									72	72	72	72																											
Total Disposal (gal)														17	17	17	17																											
														18	18	18	18																											
SAT 2	**19,235,000**	15,388,000	81,748,750											6892720	0	0																												
MU D Ext. (gal) (RO)	19,235	1	4	72.00	2.2									45979150	10209550	0																												
GWS (gal)				17.10	1.7									72	72	72																											
Total Disposal (gal)														17	17	17																											
														18	18	18																											
SAT 2	**91,086,000**	45,543,000	582,950,400										28552440	11561880	0	0	0	0																											
MU E (gal) (RO)	91,086	1	6	174.86	6.3								511411200	439872000	368332800	296793600	189484800	46406400																											
GWS (gal)				41.53	2.1								144	144	144	144	216	288																											
Total Disposal (gal)													34	34	34	34	51	68																											
													36	36	36	36	54	72																											
SAT2	**90,870,000**	63,609,000	599,742,000						55113720	38123160	0	0	0																																
MU H(gal) (RO)	90,870	1	7	244.80	4.7				56397240	49243320	27781560	63198000	0																																
GWS (gal)				58.14	2.1				72	144	432	432	144																														
Total Disposal (gal)									17	34	103	103	34																														
									18	36	108	108	36																																
SAT 2	**84,786,000**	84,786,000	678,288,000					50804880	0	0	0																																	
MU I (gal)(RO)	84,786	1	8	342.00	3.8			535209600	320592000	141744000	0																																	
GWS (gal)				81.23	2.0			68	103	86	68																																
Total Disposal (gal)								72	108	90	72																																	
SAT3	**232,906,000**	232,906,000	1,863,248,000																198924880	147953200	96981520	29019280	0	0	0																				
MUF(gal)(RO)	232,906	1	8	555.43	6.4														1720169600	1505552000	1290934400	1004777600	647081600	289385600	0																				
GWS (gal)				131.91	3.4														288	432	432	576	720	720	720																				
Total Disposal (gal)																			68	103	103	137	171	171	171																				
																			72	108	108	144	180	180	180																				
SAT 3	**66,817,000**	66,817,000	534,536,000						49826440	32315880	0	0	0																																
MU J (gal)(RO)	66,817	1	8	230.40	4.4				462996800	391457600	248379200	105300800	0																																
GWS (gal)				54.72	2.3				144	144	288	288	288																														
Total Disposal (gal)									34	34	68	68	68																														
									36	36	72	72	72																																
SAT 3	**84,214,000**	84,214,000	673,712,000										67223440	50232880	33242320	16251760	0	0	0	0	0	0																						
MU K (gal)(RO)	84,214	1	8	144.00	8.9								602172800	530633600	459094400	387555200	316016000	244476800	172937600	101398400	29859200	0																						
GWS (gal)				34.20	4.7								144	144	144	144	144	144	144	144	144	144																						
Total Disposal (gal)													34	34	34	34	34	34	34	34	34	34																						
													36	36	36	36	36	36	36	36	36	36																						
SAT 3	**78,568,000**	78,568,000	628,544,000										61577440	44586880	27596320	10605760	0	0	0	0	0	0																						
MU K North (gal)(RO)	78,568	1	8	144.00	8.3								557004800	485465600	413926400	342387200	270848000	199308800	127769600	56230400	0																						
GWS (gal)				34.20	4.4								144	144	144	144	144	144	144	144	144	144																						
Total Disposal (gal)													34	34	34	34	34	34	34	34	34	34																						
													36	36	36	36	36	36	36	36	36	36																						
Total Restoration Disposal (gpm)							72	144	144	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restoration Flow From Smith Ranch (gpm)							50	60	65	115	110	110	110	110	110	110	110	110	115	110	115	116	120	120	125	150	200	200	150	150	200	200	200	200	200	200	0	0	0	0	0	0	0	0	0

Installed RO Capacity (gpm) (feed)	Current (gpm)	Feed (Future)		
	200		160	144
	200		160	144
	0		0	0
	200		160	144
	200		160	144
	200		160	144
	1000			720

Deep Disposal Well Capacity (gpm)	Permitted	Current	Online (95%)																																										
Morton 1-20 (gpm)	**147**	**40**	**38**			38	37	37	36	36	35	35	34	34	33	33	32	32	31	31	30	30	29	29	29	28	28	27	27	26	26	26	25	25	25	24	24	23	23	23	22	22	22	21	21
DDW 9 (gpm)	**158**	**12**	**11.4**			11	11	11	11	11	11	11	10	10	10	10	10	10	10	9	9	9	9	9	9	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	6	6
Volman 33-27 (gpm)	**105**	**50**	**47.5**			48	47	46	45	45	44	43	43	42	41	41	40	40	39	38	38	37	37	36	36	35	35	34	34	33	33	32	32	31	31	30	30	29	29	28	28	28	27	27	26
PSR2 Evaporation (gpm)		**20**	**20**			20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Irrigator Circle 2 (gpm)		**130**	**130**			130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
Irrigator Circle 1 (gpm)		**0**	**0**			0	0	0	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	70	70	70	70	70	70	70	70	70	70	70	0	0	0	0
Total Available		**252**				247	245	244	323	321	320	318	317	316	315	313	312	311	310	308	307	306	305	304	303	302	301	299	298	287	286	285	284	283	283	282	281	280	279	278	277	206	205	205	204
Total Production Bleed (gpm)						34	26	17	11	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GWS to disposal						10	10	10	10	10	10																																		
Control Bleed (gpm)						12	10	12	2	0	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Restoration Disposal (gpm)						72	144	144	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Disposal Required (gpm)						128	190	183	203	195	192	185	185	185	185	185	185	185	185	185	185	185	185	185	185	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Water from Smith Ranch (gpm)						50	60	65	115	110	110	110	110	110	110	110	110	115	110	115	116	120	120	125	150	200	200	150	150	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200