

# DWLBC REPORT

Berri-Renmark  
Numerical Goundwater  
Model 2007  
Volume 2 - Appendices

2007/30



**Government of South Australia**

Department of Water, Land and  
Biodiversity Conservation

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# **Berri – Renmark Numerical Groundwater Model 2007**

## **Volume 2 – Appendices**

**Wei Yan, Joel Georgiou, Steve Barnett and Brenton Howe**

**Knowledge and Information Division  
Department of Water, Land and Biodiversity Conservation**

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**Report DWLBC 2007/30**



**Government of South Australia**

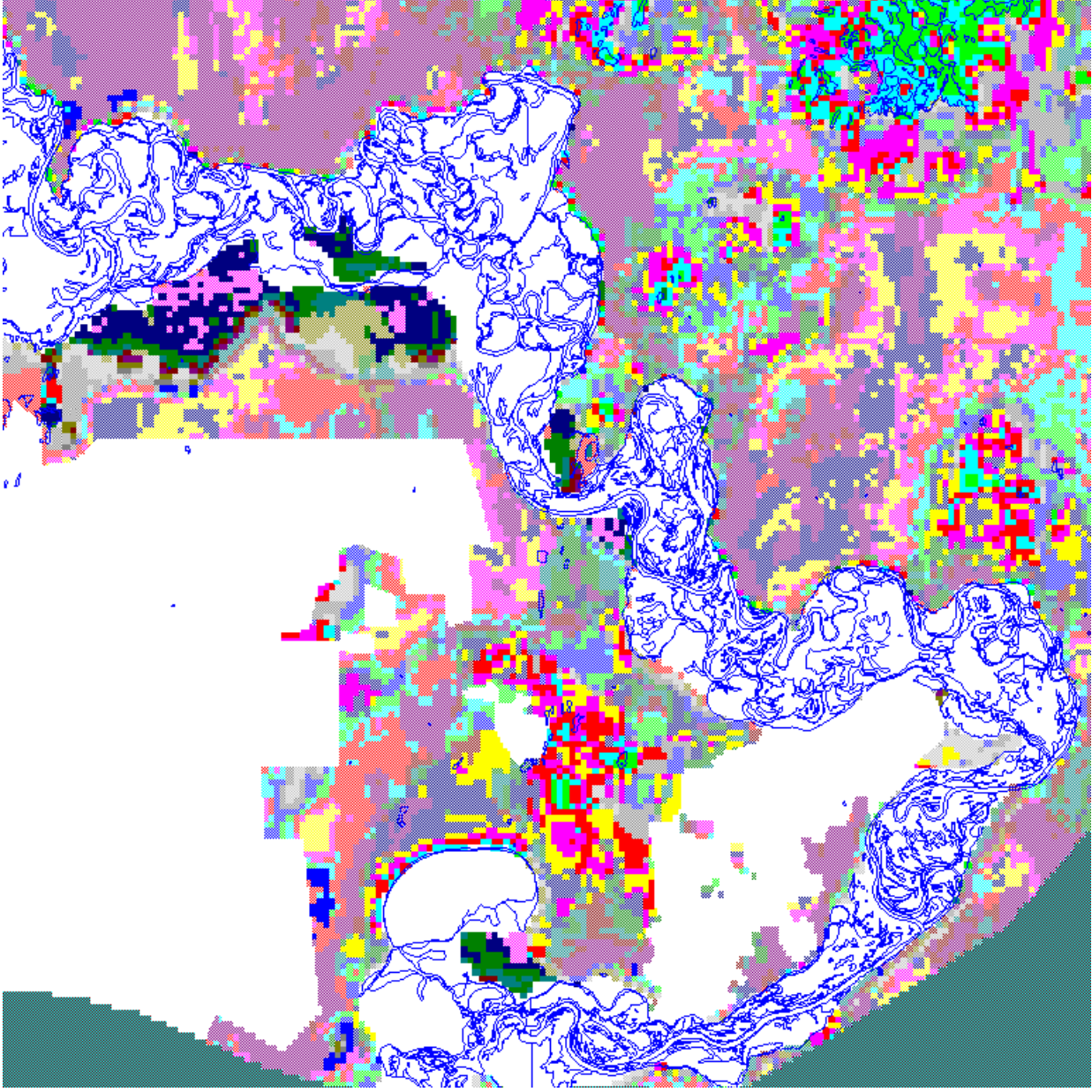
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# Appendix A-1

## Model Input - Mallee Clearance

- Model recharge zones
- Zone number and recharge rates (mm/yr)

Modflow Recharge zone numbers	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
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**Appendix A-1-1:** Mallee clearance recharge zones applied in the Berri - Renmark Area (Scenario-2) (Modflow zone numbers shown)

Modflow Recharge Zone		41	42	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DEH Zone No.		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Start Year	Stop Year	Start Day	Stop Day																			
1920	1930	0	3650	0.07	0.18	0.07	0.07	0.07	0.07	0.07	0.07	0.33	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1930	1940	3650	7300	0.07	0.65	0.16	0.07	0.07	0.07	0.07	0.07	0.07	2.12	0.39	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1940	1950	7300	10950	0.07	0.71	0.48	0.07	0.07	0.07	0.07	0.07	2.16	1.56	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1950	1960	10950	14600	0.07	0.71	0.67	0.18	0.07	0.07	0.07	0.07	2.16	2.37	0.62	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1960	1970	14600	18250	0.07	0.71	0.70	0.43	0.09	0.07	0.07	0.07	2.16	2.52	1.98	0.15	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1970	1980	18250	21900	0.07	0.71	0.70	0.59	0.23	0.07	0.07	0.07	2.16	2.53	2.98	0.71	0.10	0.07	0.07	0.07	0.07	0.07	0.07
1980	1990	21900	25550	0.07	0.71	0.70	0.63	0.43	0.07	0.07	0.07	2.16	2.53	3.30	1.83	0.35	0.08	0.07	0.07	0.07	0.07	0.07
1990	2000	25550	29200	0.07	0.71	0.70	0.64	0.56	0.07	0.07	0.07	2.16	2.53	3.35	2.79	1.06	0.15	0.07	0.07	0.07	0.07	0.07
2000	2010	29200	32850	0.07	0.72	0.70	0.64	0.61	0.14	0.08	0.07	2.16	2.53	3.36	3.24	1.97	0.45	0.11	0.07	0.07	0.07	0.07
2010	2020	32850	36500	0.07	0.73	0.70	0.64	0.62	0.54	0.25	0.10	2.16	2.53	3.36	3.37	2.66	1.05	0.26	0.08	0.07	0.07	0.07
2020	2030	36500	40150	0.09	0.74	0.70	0.64	0.62	0.61	0.38	0.16	2.16	2.53	3.36	3.40	3.00	1.80	0.63	0.15	0.08	0.07	0.07
2030	2040	40150	43800	0.19	0.75	0.70	0.64	0.62	0.63	0.49	0.27	2.16	2.53	3.36	3.40	3.13	2.43	1.23	0.35	0.11	0.07	0.07
2040	2050	43800	47450	0.48	0.76	0.70	0.64	0.62	0.64	0.56	0.39	2.16	2.53	3.36	3.40	3.17	2.82	1.91	0.75	0.22	0.07	0.07
2050	2060	47450	51100	1.10	0.76	0.70	0.64	0.62	0.64	0.59	0.49	2.16	2.53	3.36	3.40	3.18	3.01	2.48	1.29	0.47	0.09	0.09
2060	2070	51100	54750	2.06	0.76	0.70	0.64	0.62	0.64	0.60	0.56	2.16	2.53	3.36	3.40	3.18	3.08	2.86	1.88	0.88	0.12	0.12
2070	2080	54750	58400	3.20	0.76	0.70	0.64	0.62	0.64	0.61	0.59	2.16	2.53	3.36	3.40	3.18	3.11	3.07	2.39	1.40	0.17	0.17
2080	2090	58400	62050	4.32	0.76	0.70	0.64	0.62	0.64	0.61	0.61	2.16	2.53	3.36	3.40	3.18	3.12	3.17	2.76	1.95	0.27	0.27
2090	2100	62050	65700	5.22	0.76	0.70	0.64	0.62	0.64	0.61	0.62	2.16	2.53	3.36	3.40	3.18	3.12	3.22	3.00	2.43	0.40	0.40
2100	2110	65700	69350	5.86	0.76	0.70	0.64	0.62	0.64	0.61	0.62	2.16	2.53	3.36	3.40	3.18	3.12	3.24	3.13	2.81	0.55	0.55
2110	2120	69350	73000	6.25	0.76	0.70	0.64	0.62	0.64	0.61	0.62	2.16	2.53	3.36	3.40	3.18	3.12	3.24	3.19	3.06	0.73	0.73
2120	2145	73000	82125	6.25	0.76	0.70	0.64	0.62	0.64	0.61	0.62	2.16	2.53	3.36	3.40	3.18	3.12	3.24	3.19	3.06	0.73	0.73

Appendix A-1-2: Mallee clearance recharge rates in mm/yr (Scenario-2)

Modflow Recharge Zone		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
DEH Zone No.		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
Start Year	Stop Year	Start Day	Stop Day																			
1920	1930	0	3650	2.77	0.07	0.07	0.07	0.07	0.07	0.07	0.07	2.43	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
1930	1940	3650	7300	7.83	0.60	0.07	0.07	0.07	0.07	0.07	0.07	10.53	0.87	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
1940	1950	7300	10950	8.09	3.63	0.09	0.07	0.07	0.07	0.07	0.07	10.90	5.79	0.15	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
1950	1960	10950	14600	8.09	6.70	0.97	0.07	0.07	0.07	0.07	0.07	10.90	10.15	2.24	0.08	0.07	0.07	0.07	0.07	0.07	0.07	
1960	1970	14600	18250	8.09	7.35	3.68	0.35	0.07	0.07	0.07	0.07	10.90	10.91	6.82	0.56	0.07	0.07	0.07	0.07	0.07	0.07	
1970	1980	18250	21900	8.09	7.38	6.23	1.91	0.13	0.07	0.07	0.07	10.90	10.94	9.91	3.12	0.18	0.07	0.07	0.07	0.07	0.07	
1980	1990	21900	25550	8.09	7.38	7.16	4.37	0.64	0.09	0.07	0.07	10.90	10.94	10.83	6.89	1.07	0.09	0.07	0.07	0.07	0.07	
1990	2000	25550	29200	8.09	7.38	7.32	6.08	2.19	0.26	0.08	0.07	10.90	10.94	10.97	9.51	3.50	0.26	0.08	0.07	0.07	0.07	
2000	2010	29200	32850	8.09	7.38	7.34	6.78	4.34	0.97	0.15	0.07	10.90	10.94	10.99	10.62	6.60	1.03	0.18	0.08	0.07	0.07	
2010	2020	32850	36500	8.09	7.38	7.34	6.97	6.06	2.44	0.51	0.10	10.90	10.94	10.99	10.94	8.93	2.82	0.64	0.13	0.07	0.07	
2020	2030	36500	40150	8.09	7.38	7.34	7.01	6.97	4.30	1.41	0.27	10.90	10.94	10.99	11.00	10.13	5.29	1.81	0.39	0.10	0.07	
2030	2040	40150	43800	8.09	7.38	7.34	7.01	7.32	5.89	2.85	0.74	10.90	10.94	10.99	11.01	10.60	7.62	3.72	1.13	0.25	0.08	
2040	2050	43800	47450	8.09	7.38	7.34	7.01	7.42	6.89	4.48	1.67	10.90	10.94	10.99	11.01	10.76	9.22	5.91	2.53	0.69	0.11	
2050	2060	47450	51100	8.09	7.38	7.34	7.01	7.45	7.39	5.85	2.98	10.90	10.94	10.99	11.01	10.82	10.08	7.82	4.44	1.66	0.24	
2060	2070	51100	54750	8.09	7.38	7.34	7.01	7.46	7.60	6.77	4.39	10.90	10.94	10.99	11.01	10.86	10.45	9.15	6.42	3.21	0.54	
2070	2080	54750	58400	8.09	7.38	7.34	7.01	7.46	7.67	7.28	5.61	10.90	10.94	10.99	11.01	10.89	10.59	9.93	8.07	5.14	1.11	
2080	2090	58400	62050	8.09	7.38	7.34	7.01	7.46	7.70	7.53	6.51	10.90	10.94	10.99	11.01	10.90	10.64	10.31	9.22	7.11	2.00	
2090	2100	62050	65700	8.09	7.38	7.34	7.01	7.46	7.70	7.63	7.06	10.90	10.94	10.99	11.01	10.91	10.65	10.48	9.90	8.79	3.17	
2100	2110	65700	69350	8.09	7.38	7.34	7.01	7.46	7.70	7.67	7.37	10.90	10.94	10.99	11.01	10.92	10.66	10.55	10.27	10.04	4.51	
2110	2120	69350	73000	8.09	7.38	7.34	7.01	7.46	7.70	7.69	7.53	10.90	10.94	10.99	11.01	10.92	10.66	10.58	10.44	10.87	5.90	
2120	2145	73000	82125	8.09	7.38	7.34	7.01	7.46	7.70	7.69	7.53	10.90	10.94	10.99	11.01	10.92	10.66	10.58	10.44	10.87	5.90	

Appendix A-1-3: Mallee clearance recharge rates in mm/yr (Scenario-2)

# Appendix A-2

## Model Input - Berri Area

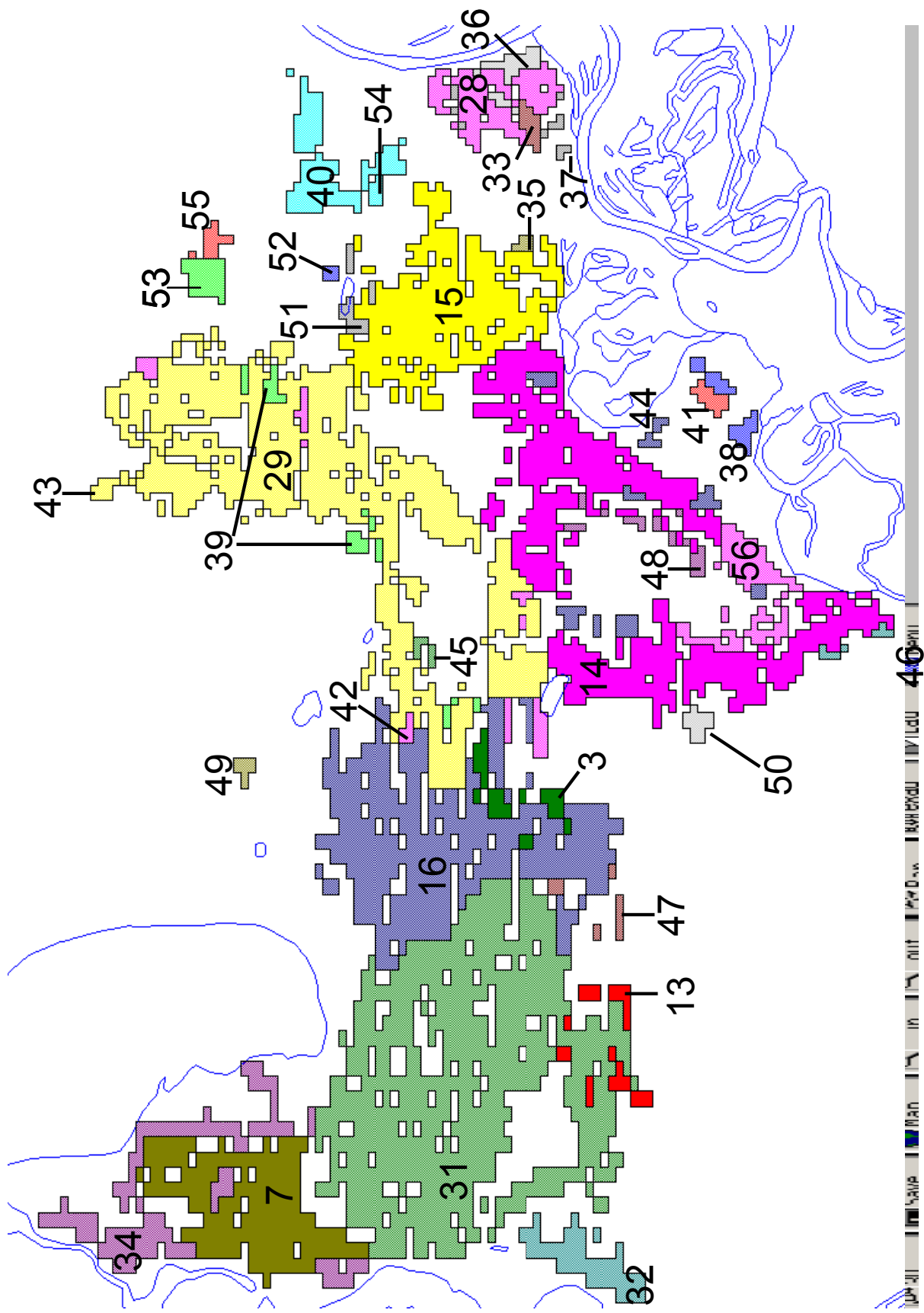
- Model recharge zones
- Model recharge rates (mm/yr)
- Irrigation start year and lag time
- Total model recharge volume
- Caisson Modelled Specifications

(Scenario-3A, Scenario-3B, Scenario-3C & Scenario-4)

Scenario	Name	Model Run	Irrigation development area	IIP1	RH <sup>2</sup>	SIS <sup>3</sup>
S-1	Natural system	Steady State	None	-	-	-
S-2	Mallee clearance	1920 – 2105	None (but includes Mallee clearance area)	-	-	-
S-3A	Pre-1988, no IIP, no RH	1988 – 2105	Pre-1988	No	No	-
S-3B	Pre-1988, with IIP, no RH	1988 – 2105	Pre-1988	Yes	No	-
S-3C	Pre-1988, with IIP and with RH	1988 – 2105	Pre-1988	Yes	Yes	-
S-4	Current irrigation	2005 – 2105	Pre-1988 + Post-1988	Yes	Yes	No
S-5	Current plus future irrigation	2005 – 2105	Pre-1988 + Post-1988 + Future development	Yes	Yes	No
1 Improved Irrigation Practices		2 Rehabilitation	3 Salt Interception Scheme			

**Appendix A-2: Model Scenario conditions**





**Appendix A-2:** Model recharge zones in the Berri Area (Scenario-3A, Scenario-3B, Scenario-3C, Scenario-4)

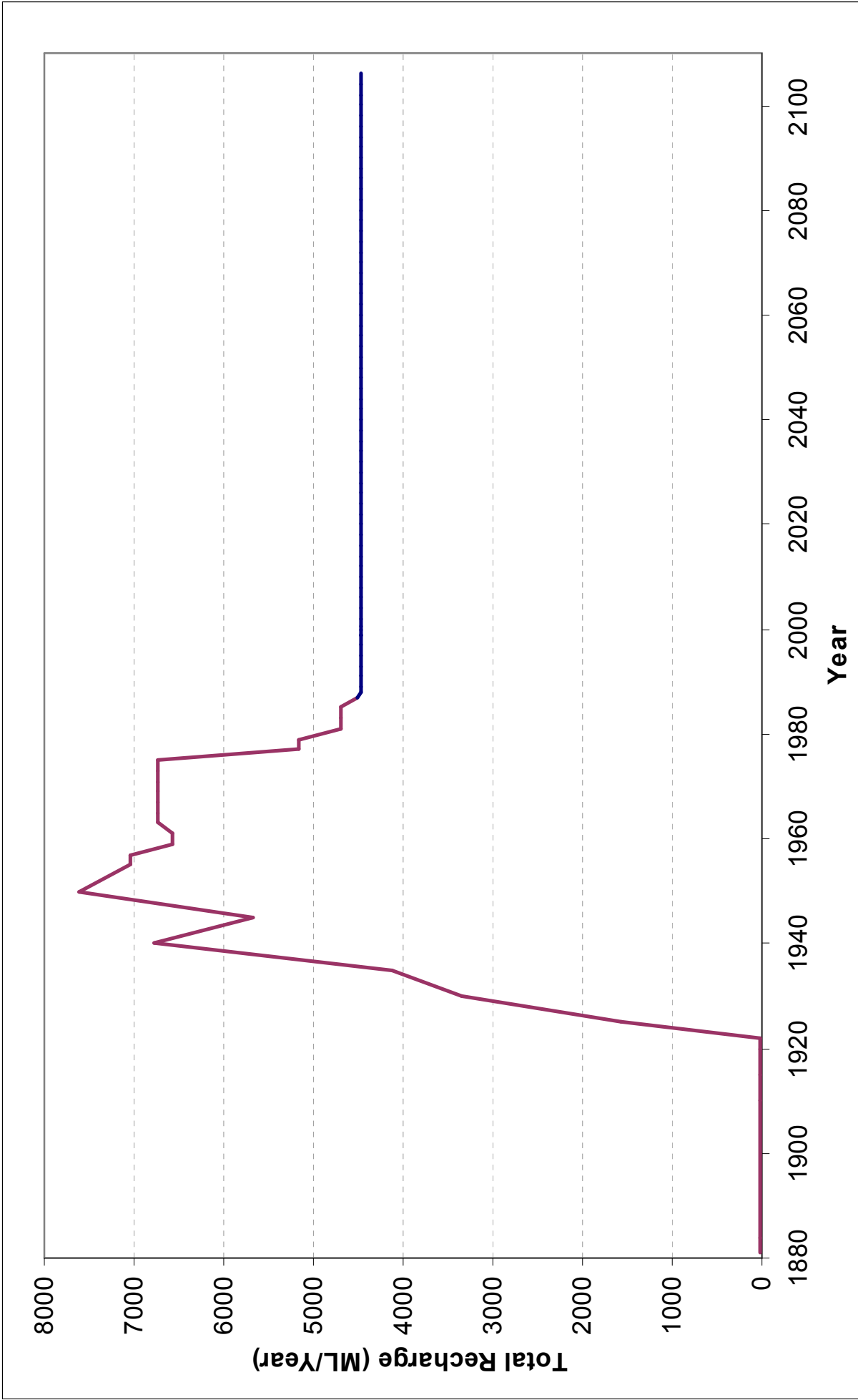


Irrigation Start year		1996	2001	1998	2000	1995	1995	1995	2002	1997	2002	1999	2001	2003	2003
Start Year	Lag time (yrs)		Z 3	Z 41	Z 42	Z 43	Z 44	Z 45	Z 46	Z 54	Z 47	Z 48	Z 49	Z 55	Z 52
	Stop Year	Start Day	Stop Day												
1880	1881	0	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1881	1884	365	1460	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1884	1910	1460	10950	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1910	1915	10950	12776	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1915	1920	12776	14603	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1920	1922	14603	15333	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1922	1925	15333	16430	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1925	1930	16430	18255	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1930	1935	18255	20081	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1935	1940	20081	21908	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1940	1945	21908	23734	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1945	1950	23734	25560	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1950	1955	25560	27386	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1955	1957	27386	28117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1957	1959	28117	28847	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1959	1961	28847	29578	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1961	1963	29578	30308	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1963	1965	30308	31039	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1965	1967	31039	31769	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1967	1969	31769	32500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1969	1971	32500	33230	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1971	1973	33230	33961	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1973	1975	33961	34691	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1975	1977	34691	35422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1977	1979	35422	36152	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1979	1981	36152	36883	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1981	1983	36883	37613	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1983	1985	37613	38344	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1985	1987	38344	39074	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1987	1988	0	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1988	1989	365	731	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1989	1991	731	1461	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1991	1993	1461	2192	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1993	1995	2192	2922	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1995	1997	2922	3653	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1997	1999	3653	4383	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1999	2000	4383	4749	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2000	2002	4749	5479	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2002	2004	5479	6209	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2004	2006	6209	6939	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2006	2008	6939	7670	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2008	2010	7670	8401	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Appendix A-2-(S3A-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3A from 1880 to 2010 (Berri Area) cont.







Appendix A-2-(S3A-5): Total recharge volume to the Loxton Sands in Scenario-3A (Berri Area)

Start Year	Irrigation Start year																			
	Lag time (yrs)		1925	1920	1920	1920	1920	1961	1970	1991	1995	1995	1920	1930	1930	1930	1950	1965	1985	1996
	Stop Year	Stop Day	Z 28	Z 29	Z 14	Z 15	Z 33	Z 40	Z 35	Z 36	Z 37	Z 38	Z 56	Z 7	Z 31	Z 32	Z 10	Z 34	Z 34	Z 39
1880	1881	0	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1881	1884	365	1460	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1884	1910	1460	10950	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1910	1915	10950	12776	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1915	1920	12776	14603	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1920	1922	14603	15333	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1922	1925	15333	16430	0.1	118.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1925	1930	16430	18255	109.4	118.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	168.5	0.1	0.1	0.1	0.1	0.1	0.1
1930	1935	18255	20081	109.4	118.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	168.5	0.1	0.1	0.1	0.1	0.1	0.1
1935	1940	20081	21908	99.4	118.7	237.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	237.4	168.5	0.1	0.1	0.1	0.1	0.1
1940	1945	21908	23734	99.4	109.4	118.7	118.7	0.1	0.1	0.1	0.1	0.1	0.1	237.4	118.7	0.1	168.5	0.1	0.1	0.1
1945	1950	23734	25560	99.4	109.4	118.7	118.7	0.1	0.1	0.1	0.1	0.1	0.1	237.4	118.7	118.7	118.7	0.1	0.1	0.1
1950	1955	25560	27386	99.4	99.4	109.4	109.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	109.4	109.4	109.4	0.1	0.1	0.1
1955	1957	27386	28117	99.4	99.4	109.4	109.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	109.4	109.4	109.4	0.1	0.1	0.1
1957	1959	28117	28847	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1959	1961	28847	29578	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1961	1963	29578	30308	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1963	1965	30308	31039	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1965	1967	31039	31769	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1967	1969	31769	32500	99.4	99.4	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1969	1971	32500	33230	99.4	99.4	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1971	1973	33230	33961	99.4	99.4	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1973	1975	33961	34691	99.4	99.4	99.4	99.4	99.4	99.4	0.1	0.1	0.1	0.1	237.4	99.4	99.4	99.4	0.1	0.1	0.1
1975	1977	34691	35422	66.3	33.1	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	149.1	99.4	99.4	99.4	0.1	0.1	0.1
1977	1979	35422	36152	66.3	33.1	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	149.1	99.4	99.4	99.4	0.1	0.1	0.1
1979	1981	36152	36883	66.3	32.1	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	149.1	99.4	99.4	99.4	0.1	0.1	0.1
1981	1983	36883	37613	66.3	32.1	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	149.1	99.4	99.4	99.4	0.1	0.1	0.1
1983	1985	37613	38344	66.3	32.1	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	149.1	99.4	99.4	99.4	0.1	0.1	0.1
1985	1987	38344	39074	66.3	32.1	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	149.1	99.4	99.4	99.4	0.1	0.1	0.1
1987	1988	0	365	66.3	28.5	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	99.4	99.4	99.4	99.4	99.4	99.4	0.1
1988	1989	365	731	66.3	28.5	66.3	66.3	99.4	99.4	0.1	0.1	0.1	0.1	99.4	99.4	99.4	99.4	99.4	99.4	0.1
1989	1991	731	1461	64.2	28.5	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
1991	1993	1461	2192	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
1993	1995	2192	2922	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
1995	1997	2922	3653	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
1997	1999	3653	4383	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
1999	2000	4383	4749	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
2000	2002	4749	5479	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
2002	2004	5479	6209	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
2004	2006	6209	6939	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
2006	2008	6939	7670	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1
2008	2010	7670	8401	64.2	26.6	64.2	64.2	96.3	96.3	0.1	0.1	0.1	0.1	96.3	96.3	96.3	96.3	96.3	96.3	0.1

Appendix A-2-(S3B-1): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 1880 to 2010 (Berri Area).

Start Year	Irrigation Start year		1996	2001	1998	2000	1995	1995	1995	2002	1997	1997	1999	1999	2001	2001	2003	2003																
	Lag time (yrs)																		10	5	10	10	15	15	10	15	15	15	15	15	15	15	15	15
	Stop Year	Start Day																	Z 3	Z 41	Z 42	Z 43	Z 44	Z 13	Z 53	Z 45	Z 46	Z 54	Z 48	Z 51	Z 49	Z 55	Z 50	Z 52
1880	1881	0	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1881	1884	365	1460	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1884	1910	1460	10950	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1910	1915	10950	12776	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1915	1920	12776	14603	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1920	1922	14603	15333	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1922	1925	15333	16430	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1925	1930	16430	18255	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1930	1935	18255	20081	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1935	1940	20081	21908	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1940	1945	21908	23734	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1945	1950	23734	25560	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1950	1955	25560	27386	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1955	1957	27386	28117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1957	1959	28117	28847	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1959	1961	28847	29578	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1961	1963	29578	30308	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1963	1965	30308	31039	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1965	1967	31039	31769	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1967	1969	31769	32500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1969	1971	32500	33230	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1971	1973	33230	33961	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1973	1975	33961	34691	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1975	1977	34691	35422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1977	1979	35422	36152	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1979	1981	36152	36883	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1981	1983	36883	37613	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1983	1985	37613	38344	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1985	1987	38344	39074	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1987	1988	0	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1988	1989	365	731	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1989	1991	731	1461	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1991	1993	1461	2192	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1993	1995	2192	2922	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1995	1997	2922	3653	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1997	1999	3653	4383	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
1999	2000	4383	4749	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
2000	2002	4749	5479	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
2002	2004	5479	6209	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
2004	2006	6209	6939	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
2006	2008	6939	7670	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																
2008	2010	7670	8401	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																

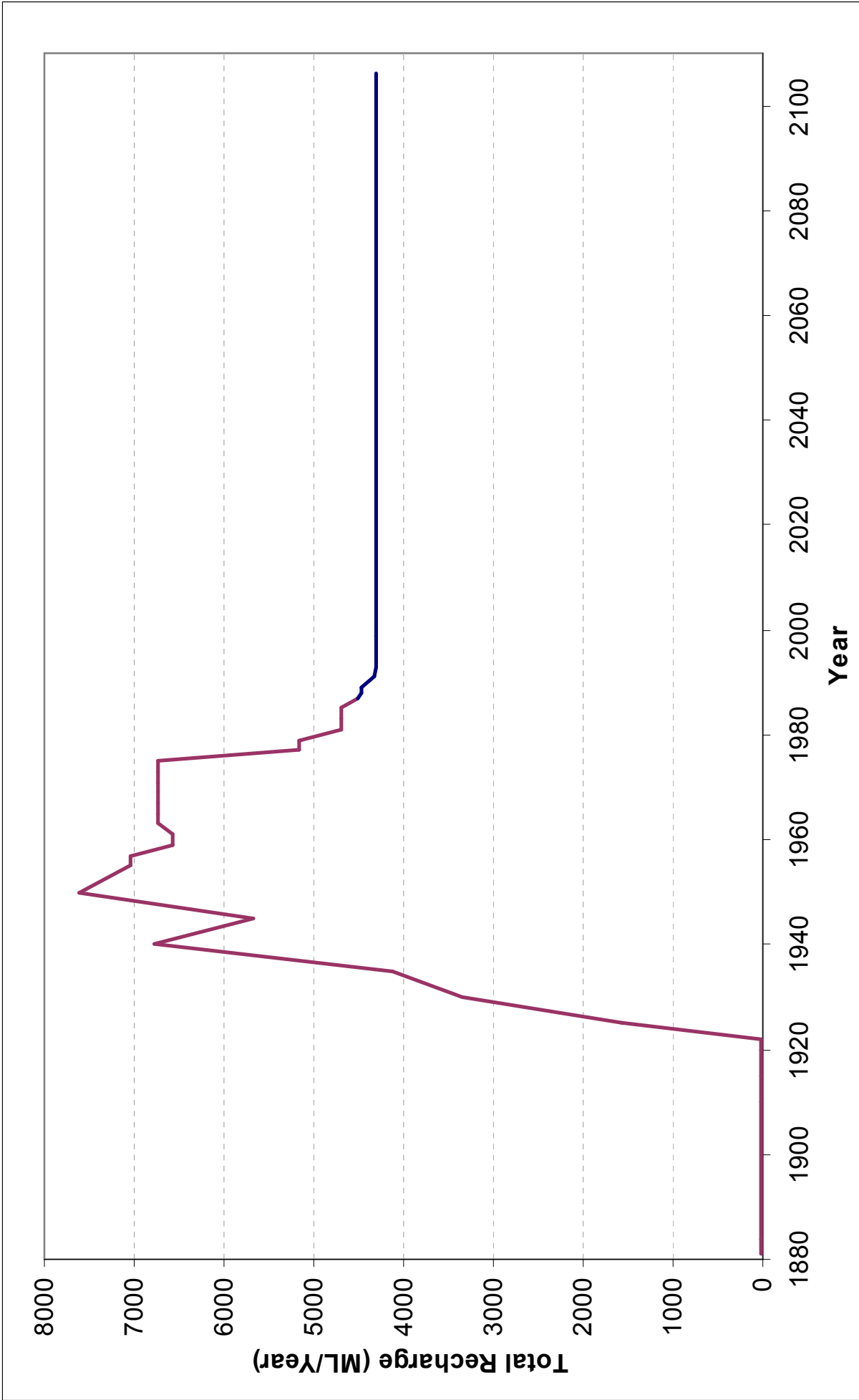
Appendix A-2-(S3B-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 1880 to 2010 (Berri Area) cont.





Irrigation Start year		Lag time (yrs)		1996	2001	1998	2000	1995	1995	1995	2002	1997	2002	1999	1999	2001	2001	2003
Start Year	Stop Year	Start Day	Stop Day	Z 3	Z 41	Z 42	Z 43	Z 44	Z 13	Z 53	Z 45	Z 46	Z 47	Z 48	Z 49	Z 55	Z 50	Z 52
2010	2012	8401	9131	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2012	2014	9131	9862	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2014	2016	9862	10592	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2016	2018	10592	11323	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2018	2020	11323	12053	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2020	2022	12053	12784	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2022	2024	12784	13514	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2024	2026	13514	14245	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2026	2028	14245	14975	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2028	2030	14975	15706	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2030	2032	15706	16436	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2032	2034	16436	17167	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2034	2036	17167	17897	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2036	2038	17897	18628	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2038	2040	18628	19358	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2040	2042	19358	20089	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2042	2044	20089	20819	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2044	2046	20819	21550	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2046	2048	21550	22280	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2048	2050	22280	23011	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2050	2052	23011	23741	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2052	2054	23741	24472	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2054	2056	24472	25202	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2056	2058	25202	25933	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2058	2060	25933	26663	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2060	2062	26663	27394	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2062	2064	27394	28124	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2064	2066	28124	28855	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2066	2068	28855	29585	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2068	2070	29585	30316	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2070	2072	30316	31046	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2072	2074	31046	31777	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2074	2076	31777	32507	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2076	2078	32507	33238	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2078	2080	33238	33968	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2080	2082	33968	34699	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2082	2084	34699	35429	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2084	2086	35429	36160	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2086	2088	36160	36890	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2088	2090	36890	37621	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2090	2092	37621	38351	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2092	2094	38351	39082	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2094	2096	39082	39812	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2096	2098	39812	40543	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2098	2100	40543	41273	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2100	2102	41273	42004	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2102	2104	42004	42734	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2104	2106	42734	43465	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Appendix A-2-(S3B-4): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 2010 to 2106 (Berri Area) cont.



Appendix A-2-(S3B-5): Total recharge volume to the Loxton Sands in Scenario-3B (Berri Area)

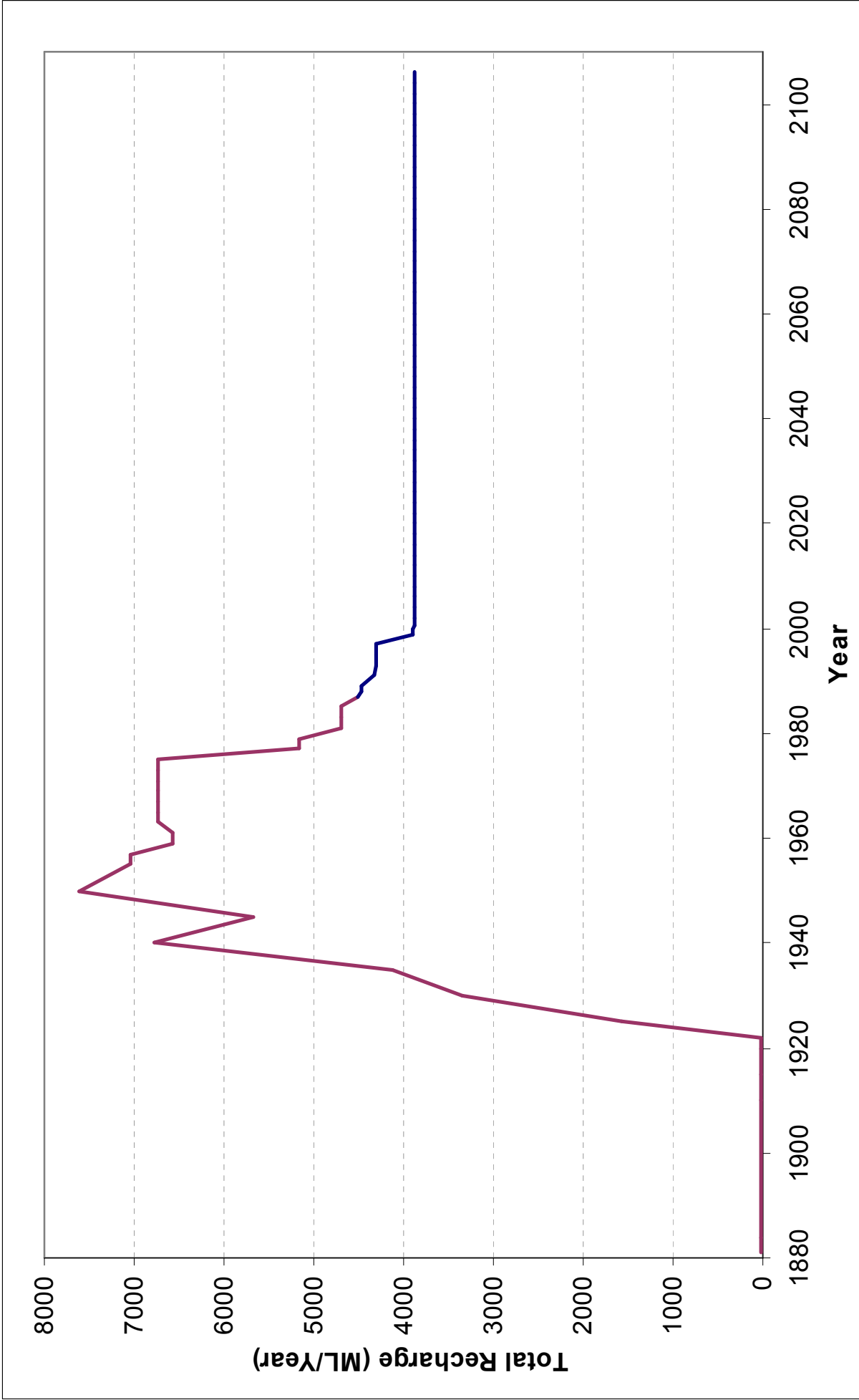


Start Year	Irrigation Start year		1996	2001	1998	2000	1995	1995	1995	2002	1997	2002	1999	2001	2003																
	Lag time (yrs)															10	5	10	Z 43	Z 44	Z 13	Z 53	Z 45	Z 46	Z 47	Z 48	Z 51	Z 49	Z 55	Z 50	Z 52
	Stop Year	Stop Day																													
1880	1881	0	Z 3	Z 41	Z 42	Z 43	Z 44	Z 13	Z 53	Z 45	Z 46	Z 47	Z 48	Z 51	Z 49	Z 55	Z 50	Z 52													
1881	1884	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1884	1910	1460	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1910	1915	10950	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1915	1920	12776	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1920	1922	14603	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1922	1925	15333	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1925	1930	16430	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1930	1935	18255	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1935	1940	20081	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1940	1945	21908	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1945	1950	23734	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1950	1955	25560	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1955	1957	27386	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1957	1959	28117	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1959	1961	28847	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1961	1963	29578	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1963	1965	30308	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1965	1967	31039	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1967	1969	31769	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1969	1971	32500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1971	1973	33230	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1973	1975	33961	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1975	1977	34691	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1977	1979	35422	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1979	1981	36152	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1981	1983	36883	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1983	1985	37613	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1985	1987	38344	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1987	1988	39074	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1988	1988	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1988	1989	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1989	1991	731	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1991	1993	1461	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1993	1995	2192	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1995	1997	2922	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1997	1999	3653	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
1999	2000	4383	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
2000	2002	4749	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
2002	2004	5479	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
2004	2006	6209	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
2006	2008	6939	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
2008	2010	7670	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													
2008	2010	8401	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													

Appendix A-2-(S3C-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3C from 1880 to 2010 (Berri Area) cont.







Appendix A-2-(S3C-5): Total recharge volume to the Loxton Sands in Scenario-3C (Berri Area)





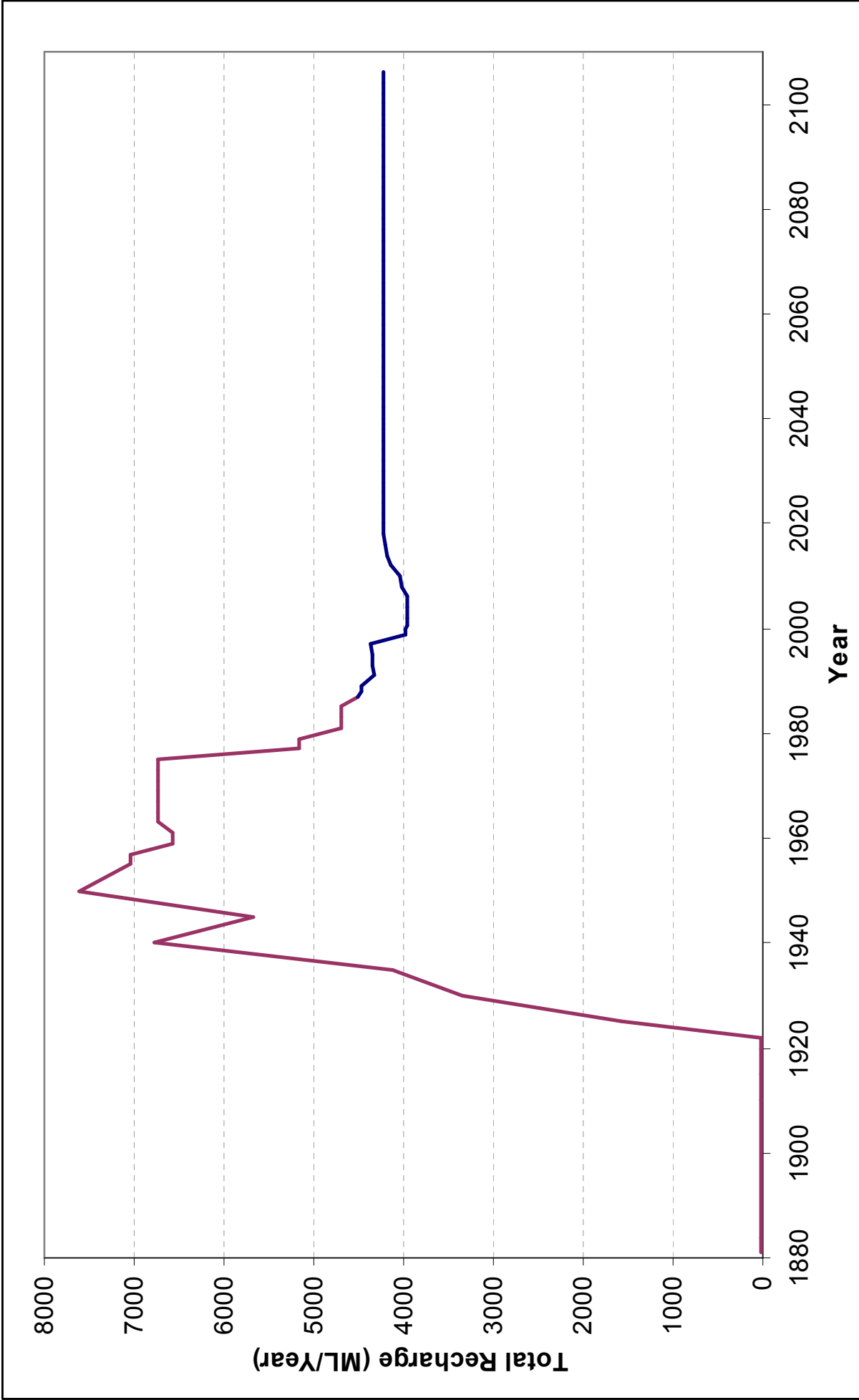
Start Year	Irrigation Start year		1996		2001		1998		2000		1995		1995		2002		1997		2002		1999		2001		2003		
	Lag time (yrs)		Z 3	Z 41	Z 42	Z 43	Z 44	Z 45	Z 46	Z 47	Z 48	Z 49	Z 50	Z 51	Z 52	Z 53	Z 54	Z 55	Z 56	Z 57	Z 58	Z 59	Z 60	Z 61	Z 62	Z 63	
	Stop Year	Start Day																									Stop Day
1880	1881	0	365																								
1881	1884	365	1460																								
1884	1910	1460	10950																								
1910	1915	10950	12776																								
1915	1920	12776	14603																								
1920	1922	14603	15333																								
1922	1925	15333	16430																								
1925	1930	16430	18255																								
1930	1935	18255	20081																								
1935	1940	20081	21908																								
1940	1945	21908	23734																								
1945	1950	23734	25560																								
1950	1955	25560	27386																								
1955	1957	27386	28117																								
1957	1959	28117	28847																								
1959	1961	28847	29578																								
1961	1963	29578	30308																								
1963	1965	30308	31039																								
1965	1967	31039	31769																								
1967	1969	31769	32500																								
1969	1971	32500	33230																								
1971	1973	33230	33961																								
1973	1975	33961	34691																								
1975	1977	34691	35422																								
1977	1979	35422	36152																								
1979	1981	36152	36883																								
1981	1983	36883	37613																								
1983	1985	37613	38344																								
1985	1987	38344	39074																								
1987	1988	0	365																								
1988	1989	365	731																								
1989	1991	731	1461																								
1991	1993	1461	2192																								
1993	1995	2192	2922																								
1995	1997	2922	3653																								
1997	1999	3653	4383																								
1999	2000	4383	4749																								
2000	2002	4749	5479																								
2002	2004	5479	6209																								
2004	2006	6209	6939																								
2006	2008	6939	7670																								
2008	2010	7670	8401																								

Appendix A-2-(S4-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-4 from 1880 to 2010 (Berri Area) cont.



Irrigation Start year		1996	2001	1998	2000	1995	1995	2002	1997	2002	1999	1999	2001	2001	2003	2003
Start Year	Stop Year	10	5	10	10	15	15	10	15	10	15	15	15	15	15	15
		Z 3	Z 41	Z 42	Z 43	Z 44	Z 13	Z 53	Z 45	Z 46	Z 47	Z 48	Z 51	Z 49	Z 55	Z 50
Lag time (yrs)	Start Day	Stop Day														
2010	2012	8401	9131	42.8	57.1	27.5	27.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2012	2014	9131	9862	42.8	57.1	27.5	27.5	27.5	57.1	42.8	0.1	0.1	0.1	0.1	0.1	0.1
2014	2016	9862	10592	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	0.1	0.1
2016	2018	10592	11323	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	0.1	0.1
2018	2020	11323	12053	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2020	2022	12053	12784	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2022	2024	12784	13514	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2024	2026	13514	14245	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2026	2028	14245	14975	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2028	2030	14975	15706	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2030	2032	15706	16436	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2032	2034	16436	17167	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2034	2036	17167	17897	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2036	2038	17897	18628	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2038	2040	18628	19358	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2040	2042	19358	20089	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2042	2044	20089	20819	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2044	2046	20819	21550	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2046	2048	21550	22280	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2048	2050	22280	23011	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2050	2052	23011	23741	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2052	2054	23741	24472	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2054	2056	24472	25202	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2056	2058	25202	25933	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2058	2060	25933	26663	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2060	2062	26663	27394	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2062	2064	27394	28124	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2064	2066	28124	28855	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2066	2068	28855	29585	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2068	2070	29585	30316	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2070	2072	30316	31046	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2072	2074	31046	31777	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2074	2076	31777	32507	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2076	2078	32507	33238	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2078	2080	33238	33968	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2080	2082	33968	34699	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2082	2084	34699	35429	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2084	2086	35429	36160	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2086	2088	36160	36890	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2088	2090	36890	37621	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2090	2092	37621	38351	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2092	2094	38351	39082	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2094	2096	39082	39812	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2096	2098	39812	40543	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2098	2100	40543	41273	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2100	2102	41273	42004	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2102	2104	42004	42734	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1
2104	2106	42734	43465	42.8	57.1	27.5	27.5	27.5	57.1	42.8	57.1	57.1	42.8	27.5	57.1	57.1

Appendix A-2-(S4-4): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-4 from 2010 to 2106 (Berri Area) cont



Appendix A-2-(S4-5): Total recharge volume to the Loxton Sands in Scenario-4 (Berri Area)

Region	Well name	Time activated		Drain level (mAHD)	Cond (m <sup>2</sup> /d)
		Days	date		
Cobdolga	Cob 1	4976	2001	19.5	1000
Berri	Berri 1 -10	Caissons deactivated in model			
	G_Town	4976	2001	16	1000
	Pud_Town	0	1987	16	1000

Note: Caissons have been assumed to be part of Irrigation Efficiency Improvements ( i.e. Caissons are inactive for scenario 3a)

# Appendix A-3

## Model Input - Renmark Area

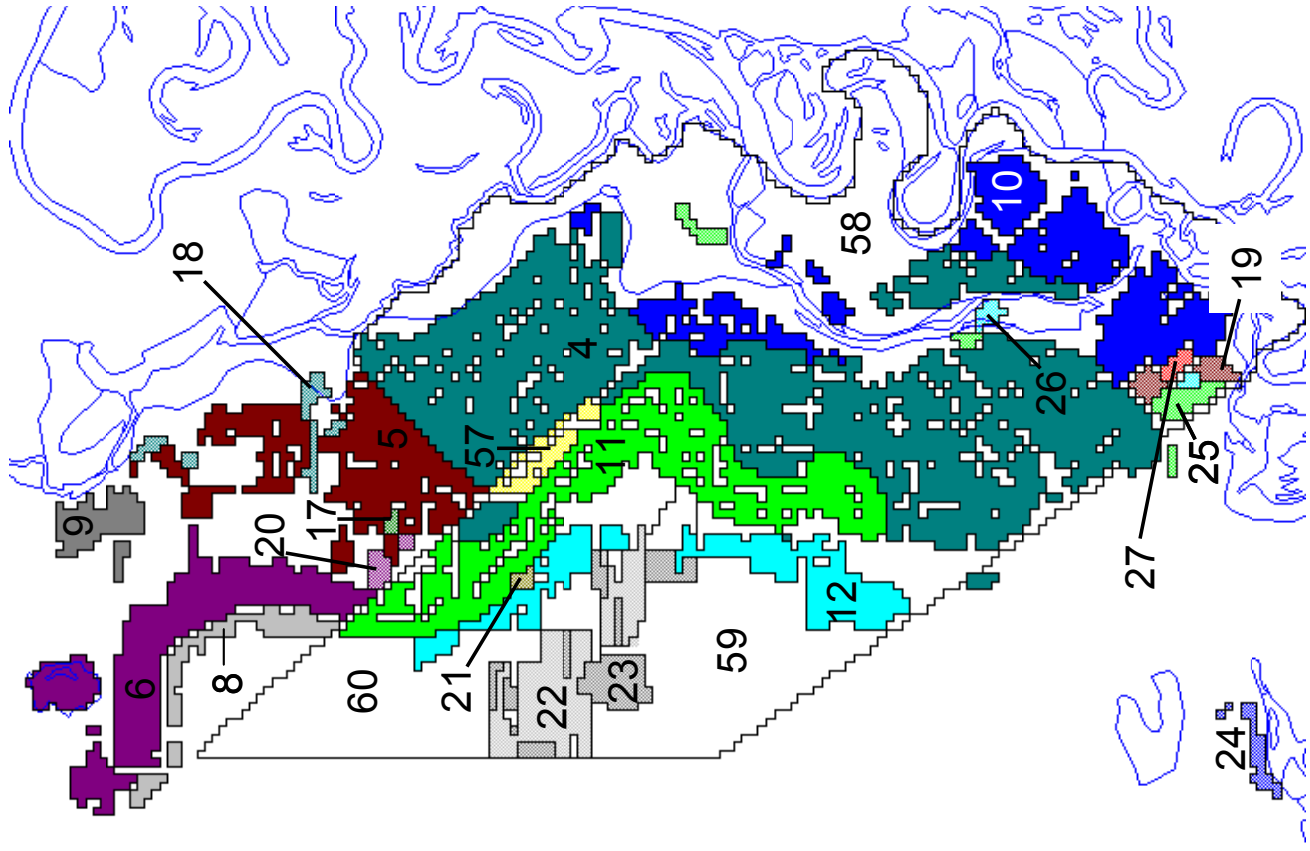
- Model recharge zones
- Model recharge rates (mm/yr)
- Irrigation start year and lag time
- Total model recharge volume
- Caisson Modelled Specifications

(Scenario-3A, Scenario-3B, Scenario-3C, Scenario-4 & Scenario-5)

Scenario	Name	Model Run	Irrigation development area	IIP1	RH <sup>2</sup>	SIS <sup>3</sup>
S-1	Natural system	Steady State	None	-	-	-
S-2	Mallee clearance	1920 – 2105	None (but includes Mallee clearance area)	-	-	-
S-3A	Pre-1988, no IIP, no RH	1988 – 2105	Pre-1988	No	No	-
S-3B	Pre-1988, with IIP, no RH	1988 – 2105	Pre-1988	Yes	No	-
S-3C	Pre-1988, with IIP and with RH	1988 – 2105	Pre-1988	Yes	Yes	-
S-4	Current irrigation	2005 – 2105	Pre-1988 + Post-1988	Yes	Yes	No
S-5	Current plus future irrigation	2005 – 2105	Pre-1988 + Post-1988 + Future development	Yes	Yes	No
1 Improved Irrigation Practices		2 Rehabilitation	3 Salt Interception Scheme			

**Appendix A-3: Model Scenario conditions**





**Appendix A-3:** Model recharge zones in the Renmark Area (Scenario-3A, Scenario-3B, Scenario-3C, Scenario-4, Scenario-5)

Start Year	Irrigation Start year		1881	1900	1880	1985	1997	2004	1999	1995	1999	1970	1997	1999
	Stop Year	Lag time (yrs)												
1880	1881	0	0	10	35	0	0	0	35	40	35	5	0	0
1881	1884	365	4	11	12	10	19	27	21	22	21	24	25	26
1884	1910	1460	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1910	1915	10950	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1915	1920	12776	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1920	1925	14603	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1925	1930	16429	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1930	1935	18255	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1935	1940	20081	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1940	1945	21908	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1945	1950	23734	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1950	1955	25560	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1955	1957	27386	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1957	1959	28847	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1959	1961	28847	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1961	1963	29578	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1963	1965	30308	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1965	1967	31039	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1967	1969	31769	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1969	1971	32500	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1971	1973	33230	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1973	1975	33961	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1975	1977	34691	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1977	1979	35422	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1979	1981	36152	183.6	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1981	1983	36883	194.6	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1983	1985	37613	171.7	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1985	1987	38344	171.7	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1987	1988	39074	171.7	176.4	176.4	156.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1988	1989	365	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1989	1991	731	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1991	1993	1461	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1993	1995	2192	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1995	1997	2922	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1997	1999	3653	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
1999	2000	4383	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
2000	2002	4749	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
2002	2004	5479	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
2004	2006	6209	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
2006	2008	6939	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
2008	2010	7670	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1
		8401	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1

Appendix A-3-(S3A-1): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3A from 1880 to 2010 (Renmark Area).

Irrigation Start year		1881	1920	1940	1951	1954	1959	1955	1961	2014	2014	2014
Lag time (yrs)		0	0	5	40	5	0	0	0	0	30	40
Start Year	Stop Year	Start (day)	Stop (day)	5	8	9	17	18	20	58	59	60
1880	1881	0	365	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1881	1884	365	1460	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1884	1910	1460	10950	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1910	1915	10950	12776	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1915	1920	12776	14603	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1920	1925	14603	16429	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1925	1930	16429	18255	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1930	1935	18255	20081	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1935	1940	20081	21908	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1940	1945	21908	23734	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1945	1950	23734	25560	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1950	1955	25560	27386	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1955	1957	27386	28117	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1957	1959	28117	28847	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1959	1961	28847	29578	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1961	1963	29578	30308	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1963	1965	30308	31039	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1965	1967	31039	31769	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1967	1969	31769	32500	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1969	1971	32500	33230	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1971	1973	33230	33961	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1973	1975	33961	34691	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1975	1977	34691	35422	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1977	1979	35422	36152	183.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1979	1981	36152	36883	194.6	169.3	141.1	135.4	135.4	176.4	176.4	176.4	176.4
1981	1983	36883	37613	171.7	168.9	141.1	135.1	135.1	176.4	176.4	176.4	176.4
1983	1985	37613	38344	171.7	156.2	135.4	125.0	125.0	176.4	176.4	176.4	176.4
1985	1987	38344	39074	171.7	156.2	146.4	125.0	125.0	176.4	176.4	176.4	176.4
1987	1988	0	365	171.7	156.2	146.4	125.0	125.0	176.4	176.4	176.4	176.4
1988	1989	365	731	171.7	156.2	146.4	125.0	125.0	176.4	176.4	176.4	176.4
1989	1991	731	1461	0.1	156.2	146.4	125.0	125.0	176.4	176.4	176.4	176.4
1991	1993	1461	2192	0.1	156.2	146.4	125.0	125.0	176.4	176.4	176.4	176.4
1993	1995	2192	2922	0.1	156.2	146.4	125.0	125.0	176.4	176.4	176.4	176.4
1995	1997	2922	3653	0.1	156.2	146.4	125.0	132.6	190.6	190.6	190.6	190.6
1997	1999	3653	4383	0.1	156.2	146.4	125.0	80.6	132.6	132.6	132.6	132.6
1999	2000	4383	4749	0.1	156.2	146.4	125.0	41.6	80.6	80.6	80.6	80.6
2000	2002	4749	5479	0.1	156.2	146.4	125.0	44.4	41.6	41.6	41.6	41.6
2002	2004	5479	6209	0.1	156.2	146.4	125.0	44.4	44.4	44.4	44.4	44.4
2004	2006	6209	6939	0.1	156.2	146.4	125.0	44.4	44.4	44.4	44.4	44.4
2006	2008	6939	7670	0.1	156.2	146.4	125.0	44.4	44.4	44.4	44.4	44.4
2008	2010	7670	8401	0.1	156.2	146.4	125.0	44.4	44.4	44.4	44.4	44.4

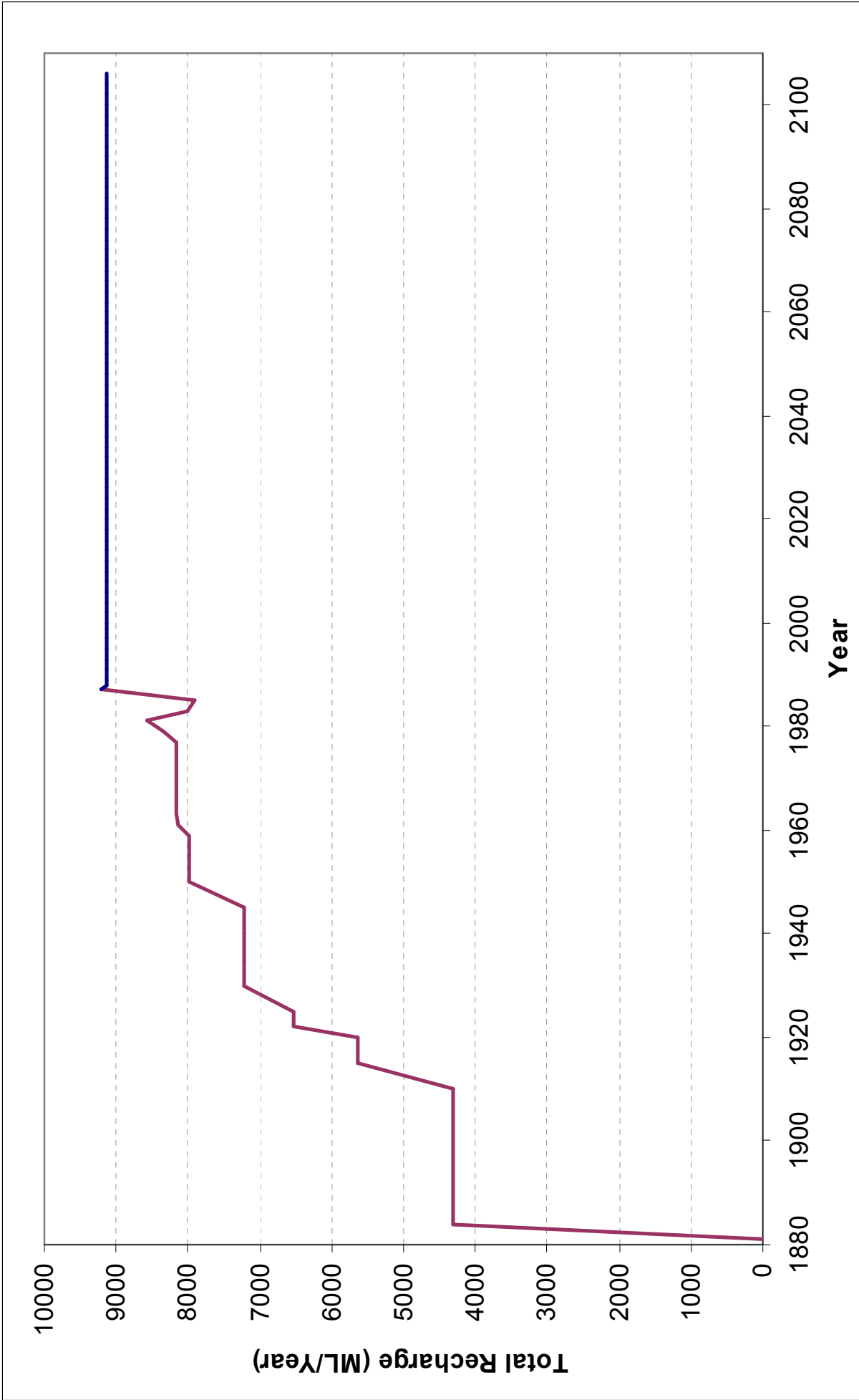
Appendix A-3-(S3A-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3A from 1880 to 2010 (Remark Area) cont.

Irrigation Start year		1881	1900	1880	1985	1997	2004	1999	1995	1999	1970	1997	1999			
Start Year	Lag time (yrs)	Stop (day)	Start (day)	Stop (day)	1881	1900	1880	1985	1997	2004	1999	1995	1999	1970	1997	1999
2010	2012	8401	9131	9131	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2012	2014	9131	9862	9862	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2014	2016	9862	10592	10592	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2016	2018	10592	11323	11323	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2018	2020	11323	12053	12053	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2020	2022	12053	12784	12784	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2022	2024	12784	13514	13514	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2024	2026	13514	14245	14245	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2026	2028	14245	14975	14975	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2028	2030	14975	15706	15706	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2030	2032	15706	16436	16436	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2032	2034	16436	17167	17167	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2034	2036	17167	17897	17897	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2036	2038	17897	18628	18628	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2038	2040	18628	19358	19358	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2040	2042	19358	20089	20089	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2042	2044	20089	20819	20819	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2044	2046	20819	21550	21550	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2046	2048	21550	22280	22280	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2048	2050	22280	23011	23011	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2050	2052	23011	23741	23741	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2052	2054	23741	24472	24472	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2054	2056	24472	25202	25202	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2056	2058	25202	25933	25933	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2058	2060	25933	26663	26663	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2060	2062	26663	27394	27394	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2062	2064	27394	28124	28124	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2064	2066	28124	28855	28855	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2066	2068	28855	29585	29585	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2068	2070	29585	30316	30316	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2070	2072	30316	31046	31046	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2072	2074	31046	31777	31777	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2074	2076	31777	32507	32507	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2076	2078	32507	33238	33238	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2078	2080	33238	33968	33968	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2080	2082	33968	34699	34699	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2082	2084	34699	35429	35429	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2084	2086	35429	36160	36160	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2086	2088	36160	36890	36890	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2088	2090	36890	37621	37621	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2090	2092	37621	38351	38351	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2092	2094	38351	39082	39082	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2094	2096	39082	39812	39812	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2096	2098	39812	40543	40543	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2098	2100	40543	41273	41273	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2100	2102	41273	42004	42004	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2102	2104	42004	42734	42734	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0
2104	2106	42734	43465	43465	171.7	176.4	176.4	164.4	0	0	0	0	0	5	0	0

**Appendix A-3-(S3A-3):** Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3A from 2010 to 2106 (Remark Area).

Irrigation Start year			1881	1920	1940	1951	1954	1999	1995	1961	2014	2014	2014
Start Year	Stop Year	Lag time (yrs)	0	0	5	6	8	0	0	0	0	30	40
			57	5	6	8	17	18	20	58	59	60	
Stop (day)	Start (day)	Stop (day)	9137	9137	9862	10592	10592	10592	10592	10592	10592	10592	10592
2010	2012	8401	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2012	2014	9131	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2014	2016	9862	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2016	2018	10592	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2018	2020	11323	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2020	2022	12053	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2022	2024	12784	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2024	2026	13514	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2026	2028	14245	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2028	2030	14975	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2030	2032	15706	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2032	2034	16436	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2034	2036	17167	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2036	2038	17897	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2038	2040	18628	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2040	2042	19358	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2042	2044	20089	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2044	2046	20819	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2046	2048	21550	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2048	2050	22280	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2050	2052	23011	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2052	2054	23741	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2054	2056	24472	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2056	2058	25202	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2058	2060	25933	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2060	2062	26663	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2062	2064	27394	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2064	2066	28124	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2066	2068	28855	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2068	2070	29585	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2070	2072	30316	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2072	2074	31046	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2074	2076	31777	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2076	2078	32507	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2078	2080	33238	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2080	2082	33968	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2082	2084	34699	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2084	2086	35429	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2086	2088	36160	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2088	2090	36890	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2090	2092	37621	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2092	2094	38351	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2094	2096	39082	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2096	2098	39812	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2098	2100	40543	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2100	2102	41273	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2102	2104	42004	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2104	2106	42734	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1
2106	2108	43465	0.1	156.2	146.4	0.1	125.0	44.4	44.4	44.4	0.1	0.1	0.1

Appendix A-3-(S3A-4): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3A from 2010 to 2106 (Remark Area) cont



Appendix A-3-(S3A-5): Total recharge volume to the Loxton Sands in Scenario-3A (Renmark Area)

Irrigation Start year		1881	1900	1880	1885	1977	2004	1999	1995	1999	1970	1997	1999
Start Year	Stop Year	Lag time (yrs)		1880		1977		1999		1970		1997	
		start (day)	stop (day)	35	12	0	19	0	27	40	5	0	25
1880	1881	0	365	10	11	0	10	35	21	21	24	0	26
1881	1884	0.1	1460	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1884	1910	176.4	10950	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1910	1915	176.4	12776	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1915	1920	176.4	14603	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1920	1925	176.4	16429	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1925	1930	176.4	18255	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1930	1935	176.4	20081	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1935	1940	176.4	21908	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1940	1945	176.4	23734	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1945	1950	176.4	25560	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1950	1955	176.4	27386	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1955	1957	176.4	28117	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1957	1959	176.4	28847	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1959	1961	176.4	29578	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1961	1963	176.4	30308	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1963	1965	176.4	31039	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1965	1967	176.4	31769	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1967	1969	176.4	32500	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1969	1971	176.4	33230	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1971	1973	176.4	33961	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1973	1975	176.4	34691	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1975	1977	176.4	35422	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1977	1979	183.6	36152	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1979	1981	194.6	36883	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1981	1983	171.7	37613	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1983	1985	171.7	38344	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1985	1987	171.7	39074	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1987	1988	0	365	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1988	1989	365	731	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1989	1991	1461	1461	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1991	1993	1461	2192	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1993	1995	2192	2922	190.6	190.6	176.4	176.4	176.4	176.4	176.4	190.6	176.4	176.4
1995	1997	2922	3653	132.6	132.6	176.4	176.4	176.4	176.4	176.4	132.6	176.4	176.4
1997	1999	3653	4383	85.0	85.0	117.2	117.2	176.4	176.4	176.4	85.0	176.4	176.4
1999	2000	4383	4749	41.9	41.9	58.6	58.6	176.4	176.4	176.4	41.9	176.4	176.4
2000	2002	4749	5479	37.3	37.3	44.4	44.4	176.4	176.4	176.4	37.3	176.4	176.4
2002	2004	5479	6209	37.3	37.3	44.4	44.4	176.4	176.4	176.4	37.3	176.4	176.4
2004	2006	6209	6939	37.3	37.3	44.4	44.4	176.4	176.4	176.4	37.3	176.4	176.4
2006	2008	6939	7670	37.3	37.3	44.4	44.4	176.4	176.4	176.4	37.3	176.4	176.4
2008	2010	7670	8401	37.3	37.3	44.4	44.4	176.4	176.4	176.4	37.3	176.4	176.4

Appendix A-3-(S3B-1): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 1880 to 2010 (Renmark Area).

Start Year	Irrigation Start year Lag time (yrs)		Stop (day)	1881	1920	1940	1951	1954	1999	1995	1961	2014	2014	2014
	Stop Year	Start (day)												
1880	1881	0	365	57	5	6	8	9	17	18	20	58	59	60
1881	1884	365	1460	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1884	1910	1460	10950	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1910	1915	10950	12776	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1915	1920	12776	14603	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1920	1925	14603	16429	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1925	1930	16429	18255	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1930	1935	18255	20081	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1935	1940	20081	21908	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1940	1945	21908	23734	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1945	1950	23734	25560	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1950	1955	25560	27386	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1955	1957	27386	28117	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1957	1959	28117	28847	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1959	1961	28847	29578	176.4	176.4	141.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1
1961	1963	29578	30308	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1963	1965	30308	31039	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1965	1967	31039	31769	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1967	1969	31769	32500	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1969	1971	32500	33230	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1971	1973	33230	33961	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1973	1975	33961	34691	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1975	1977	34691	35422	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1977	1979	35422	36152	183.6	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1979	1981	36152	36883	194.6	169.3	141.1	0.1	135.4	0.1	0.1	176.4	0.1	0.1	0.1
1981	1983	36883	37613	171.7	168.9	141.1	0.1	135.1	0.1	0.1	176.4	0.1	0.1	0.1
1983	1985	37613	38344	171.7	156.2	135.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1985	1987	38344	39074	171.7	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1987	1988	0	365	171.7	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1988	1989	365	731	171.7	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1989	1991	731	1461	0.1	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1991	1993	1461	2192	0.1	156.2	146.4	156.2	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1993	1995	2192	2922	0.1	156.2	146.4	156.2	125.0	0.1	0.1	190.6	0.1	0.1	0.1
1995	1997	2922	3653	0.1	132.6	142.0	132.6	106.1	0.1	0.1	132.6	0.1	0.1	0.1
1997	1999	3653	4383	0.1	80.6	85.0	80.6	64.5	0.1	0.1	80.6	0.1	0.1	0.1
1999	2000	4383	4749	0.1	41.9	41.9	41.9	41.6	0.1	0.1	41.6	0.1	0.1	0.1
2000	2002	4749	5479	0.1	37.3	37.3	37.3	44.4	0.1	0.1	44.4	0.1	0.1	0.1
2002	2004	5479	6209	0.1	37.3	37.3	37.3	44.4	0.1	0.1	44.4	0.1	0.1	0.1
2004	2006	6209	6939	0.1	37.3	37.3	37.3	44.4	0.1	0.1	44.4	0.1	0.1	0.1
2006	2008	6939	7670	0.1	37.3	37.3	37.3	44.4	0.1	0.1	44.4	0.1	0.1	0.1
2008	2010	7670	8401	0.1	37.3	37.3	37.3	44.4	0.1	0.1	44.4	0.1	0.1	0.1

Appendix A-3-(S3B-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 1880 to 2010 (Renmark Area) cont.

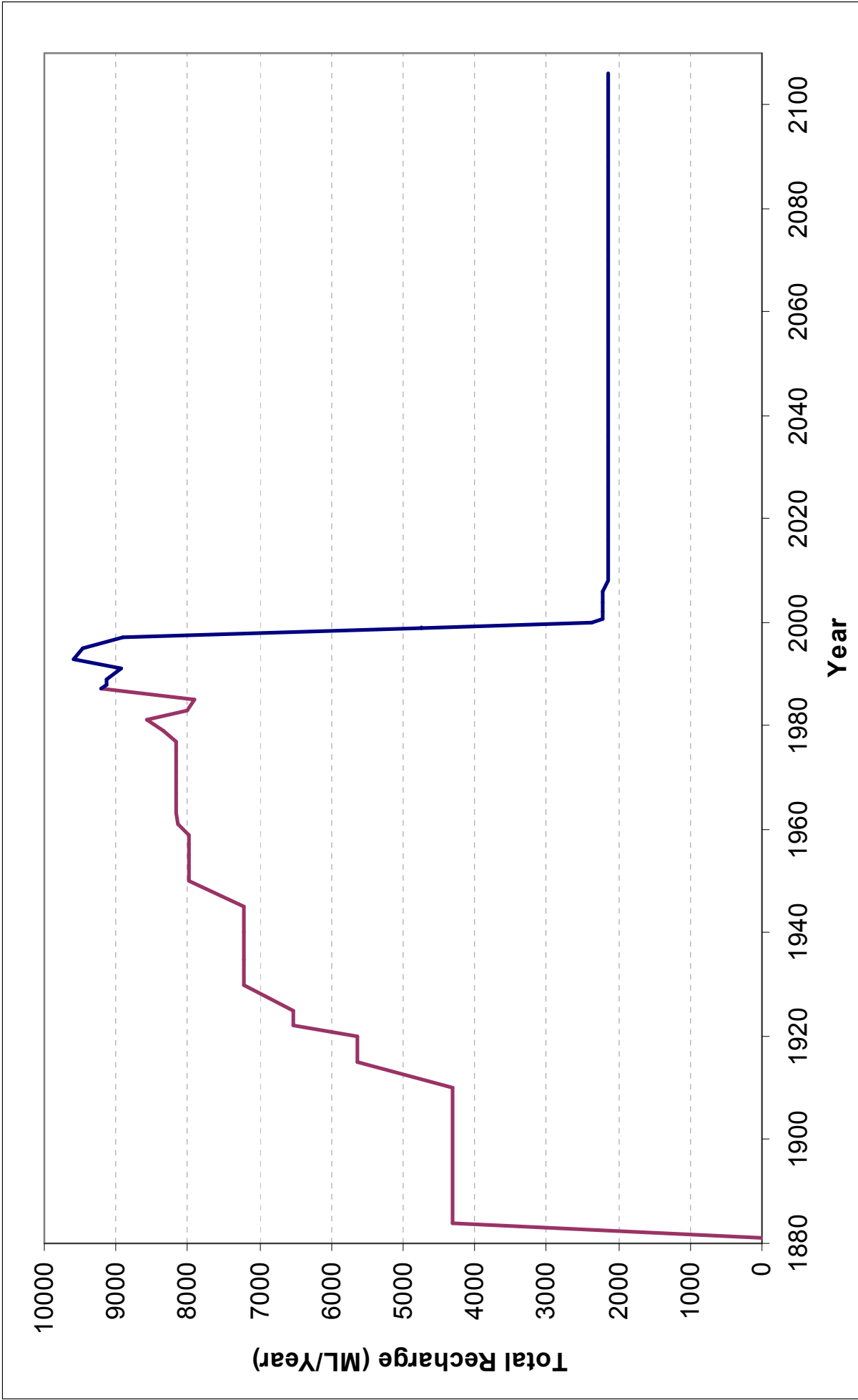


Irrigation Start year		1881	1900	1880	1985	1997	2004	1999	1995	1999	1970	1999	1999
Start Year	Lag time (yrs)	Stop Year	Start (day)	Stop (day)	0	11	35	12	10	19	27	21	40
2010	8401	9131	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2012	9131	9862	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2014	9862	10592	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2016	10592	11323	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2018	11323	12053	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2020	12053	12784	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2022	12784	13514	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2024	13514	14245	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2026	14245	14975	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2028	14975	15706	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2030	15706	16436	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2032	16436	17167	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2034	17167	17897	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2036	17897	18628	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2038	18628	19358	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2040	19358	20089	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2042	20089	20819	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2044	20819	21550	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2046	21550	22280	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2048	22280	23011	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2050	23011	23741	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2052	23741	24472	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2054	24472	25202	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2056	25202	25933	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2058	25933	26663	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2060	26663	27394	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2062	27394	28124	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2064	28124	28855	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2066	28855	29585	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2068	29585	30316	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2070	30316	31046	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2072	31046	31777	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2074	31777	32507	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2076	32507	33238	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2078	33238	33968	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2080	33968	34699	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2082	34699	35429	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2084	35429	36160	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2086	36160	36890	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2088	36890	37621	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2090	37621	38351	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2092	38351	39082	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2094	39082	39812	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2096	39812	40543	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2098	40543	41273	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2100	41273	42004	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2102	42004	42734	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2104	42734	43465	37.3	44.4	44.4	37.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1

**Appendix A-3-(S3B-3):** Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 2010 to 2106 (Remark Area).

Irrigation Start year			1881	1920	1940	1951	1954	1999	1995	1961	2014	2014	2014
Start Year	Stop Year	Lag time (yrs)	0	0	5	40	5	0	0	0	0	30	40
			57	5	6	8	9	17	18	20	58	59	60
Stop (day)	Start (day)	Stop (day)											
2010	2012	8401	9131	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2012	2014	9131	9862	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2014	2016	9862	10592	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2016	2018	10592	11323	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2018	2020	11323	12053	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2020	2022	12053	12784	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2022	2024	12784	13514	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2024	2026	13514	14245	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2026	2028	14245	14975	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2028	2030	14975	15706	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2030	2032	15706	16436	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2032	2034	16436	17167	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2034	2036	17167	17897	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2036	2038	17897	18628	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2038	2040	18628	19358	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2040	2042	19358	20089	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2042	2044	20089	20819	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2044	2046	20819	21550	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2046	2048	21550	22280	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2048	2050	22280	23011	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2050	2052	23011	23741	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2052	2054	23741	24472	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2054	2056	24472	25202	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2056	2058	25202	25933	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2058	2060	25933	26663	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2060	2062	26663	27394	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2062	2064	27394	28124	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2064	2066	28124	28855	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2066	2068	28855	29585	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2068	2070	29585	30316	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2070	2072	30316	31046	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2072	2074	31046	31777	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2074	2076	31777	32507	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2076	2078	32507	33238	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2078	2080	33238	33968	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2080	2082	33968	34699	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2082	2084	34699	35429	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2084	2086	35429	36160	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2086	2088	36160	36890	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2088	2090	36890	37621	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2090	2092	37621	38351	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2092	2094	38351	39082	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2094	2096	39082	39812	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2096	2098	39812	40543	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2098	2100	40543	41273	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2100	2102	41273	42004	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2102	2104	42004	42734	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1
2104	2106	42734	43465	37.3	37.3	37.3	37.3	44.4	0.1	44.4	0.1	0.1	0.1

**Appendix A-3-(S3B-4):** Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-3B from 2010 to 2106 (Remark Area) cont



Appendix A-3-(S3B-5): Total recharge volume to the Loxton Sands in Scenario-3B (Renmark Area)

Start Year	Irrigation Start year Lag time (yrs)		Stop (day)	1881	1900	1880	1885	1977	2004	1999	1995	1970	1997	1999	
	Stop Year	Start (day)		0	10	35	0	0	0	0	35	40	5	0	40
1880	1881	0	365	4	11	12	10	19	27	21	22	24	25	23	26
1881	1884	365	1460	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1884	1910	1460	10950	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1910	1915	10950	12776	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1915	1920	12776	14603	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1920	1925	14603	16429	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1925	1930	16429	18255	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1930	1935	18255	20081	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1935	1940	20081	21908	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1940	1945	21908	23734	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1945	1950	23734	25560	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1950	1955	25560	27386	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1955	1957	27386	28117	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1957	1959	28117	28847	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1959	1961	28847	29578	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1961	1963	29578	30308	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1963	1965	30308	31039	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1965	1967	31039	31769	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1967	1969	31769	32500	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1969	1971	32500	33230	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1971	1973	33230	33961	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1973	1975	33961	34691	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1975	1977	34691	35422	176.4	176.4	176.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1977	1979	35422	36152	183.6	176.4	176.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1979	1981	36152	36883	194.6	176.4	176.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1981	1983	36883	37613	171.7	176.4	176.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1983	1985	37613	38344	171.7	176.4	176.4	0.1	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1985	1987	38344	39074	171.7	176.4	176.4	156.4	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1987	1988	0	365	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1988	1989	365	731	171.7	176.4	176.4	164.4	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1989	1991	731	1461	171.7	176.4	176.4	154.2	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1991	1993	1461	2192	183.0	176.4	176.4	183.0	0.1	0.1	0.1	0.1	176.4	0.1	0.1	0.1
1993	1995	2192	2922	177.4	190.6	176.4	168.6	168.6	0.1	0.1	0.1	190.6	0.1	0.1	0.1
1995	1997	2922	3653	177.4	132.6	176.4	177.4	177.4	0.1	0.1	0.1	132.6	0.1	0.1	0.1
1997	1999	3653	4383	85.0	80.6	117.2	85.0	85.0	0.1	0.1	0.1	80.6	80.6	0.1	0.1
1999	2000	4383	4749	41.9	41.6	58.6	41.9	41.9	0.1	0.1	0.1	41.6	41.6	0.1	41.6
2000	2002	4749	5479	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	0.1	44.4
2002	2004	5479	6209	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	0.1	44.4
2004	2006	6209	6939	37.3	44.4	58.6	37.3	37.3	44.4	0.1	0.1	44.4	44.4	0.1	44.4
2006	2008	6939	7670	37.3	44.4	44.4	37.3	37.3	44.4	0.1	0.1	44.4	44.4	0.1	44.4
2008	2010	7670	8401	37.3	44.4	44.4	37.3	37.3	44.4	0.1	0.1	44.4	44.4	0.1	44.4

Appendix A-3-(S4-1): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-4 from 1880 to 2010 (Remark Area).

Start Year	Irrigation Start year										1981	1920	1940	1951	1954	1999	1995	1961	2014	2014	2014					
	Lag time (yrs)		Stop (day)		0	5	6	8	9	17												18	20	58	59	60
	Start Year	Stop Year	Start (day)	Stop (day)																						
1880	1881	0	365	57	5	6	8	9	17	18	20	58	59	60												
1881	1884	365	1460	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1884	1910	1460	10950	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1910	1915	10950	12776	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1915	1920	12776	14603	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1920	1925	14603	16429	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1925	1930	16429	18255	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1930	1935	18255	20081	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1935	1940	20081	21908	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1940	1945	21908	23734	176.4	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1945	1950	23734	25560	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1950	1955	25560	27386	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1955	1957	27386	28117	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1957	1959	28117	28847	176.4	176.4	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1												
1959	1961	28847	29578	176.4	176.4	141.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1												
1961	1963	29578	30308	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1963	1965	30308	31039	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1965	1967	31039	31769	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1967	1969	31769	32500	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1969	1971	32500	33230	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1971	1973	33230	33961	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1973	1975	33961	34691	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1975	1977	34691	35422	176.4	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1977	1979	35422	36152	183.6	176.4	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1												
1979	1981	36152	36883	194.6	169.3	141.1	0.1	135.4	0.1	0.1	176.4	0.1	0.1	0.1												
1981	1983	36883	37613	171.7	168.9	141.1	0.1	135.1	0.1	0.1	176.4	0.1	0.1	0.1												
1983	1985	37613	38344	171.7	156.2	135.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1												
1985	1987	38344	39074	171.7	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1												
1987	1988	0	365	171.7	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1												
1988	1989	365	731	171.7	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1												
1989	1991	731	1461	0.1	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1												
1991	1993	1461	2192	0.1	156.2	146.4	156.2	125.0	0.1	0.1	176.4	0.1	0.1	0.1												
1993	1995	2192	2922	0.1	156.2	146.4	156.2	125.0	0.1	0.1	190.6	0.1	0.1	0.1												
1995	1997	2922	3653	0.1	132.6	142.0	132.6	106.1	0.1	132.6	132.6	0.1	0.1	0.1												
1997	1999	3653	4383	0.1	80.6	85.0	80.6	64.5	0.1	80.6	80.6	0.1	0.1	0.1												
1999	2000	4383	4749	0.1	41.9	41.9	41.9	41.6	41.6	41.6	41.6	0.1	0.1	0.1												
2000	2002	4749	5479	0.1	37.3	37.3	37.3	44.4	44.4	44.4	44.4	0.1	0.1	0.1												
2002	2004	5479	6209	0.1	37.3	37.3	37.3	44.4	44.4	44.4	44.4	0.1	0.1	0.1												
2004	2006	6209	6939	0.1	37.3	37.3	37.3	44.4	44.4	44.4	44.4	0.1	0.1	0.1												
2006	2008	6939	7670	0.1	37.3	37.3	37.3	44.4	44.4	44.4	44.4	0.1	0.1	0.1												
2008	2010	7670	8401	0.1	37.3	37.3	37.3	44.4	44.4	44.4	44.4	0.1	0.1	0.1												

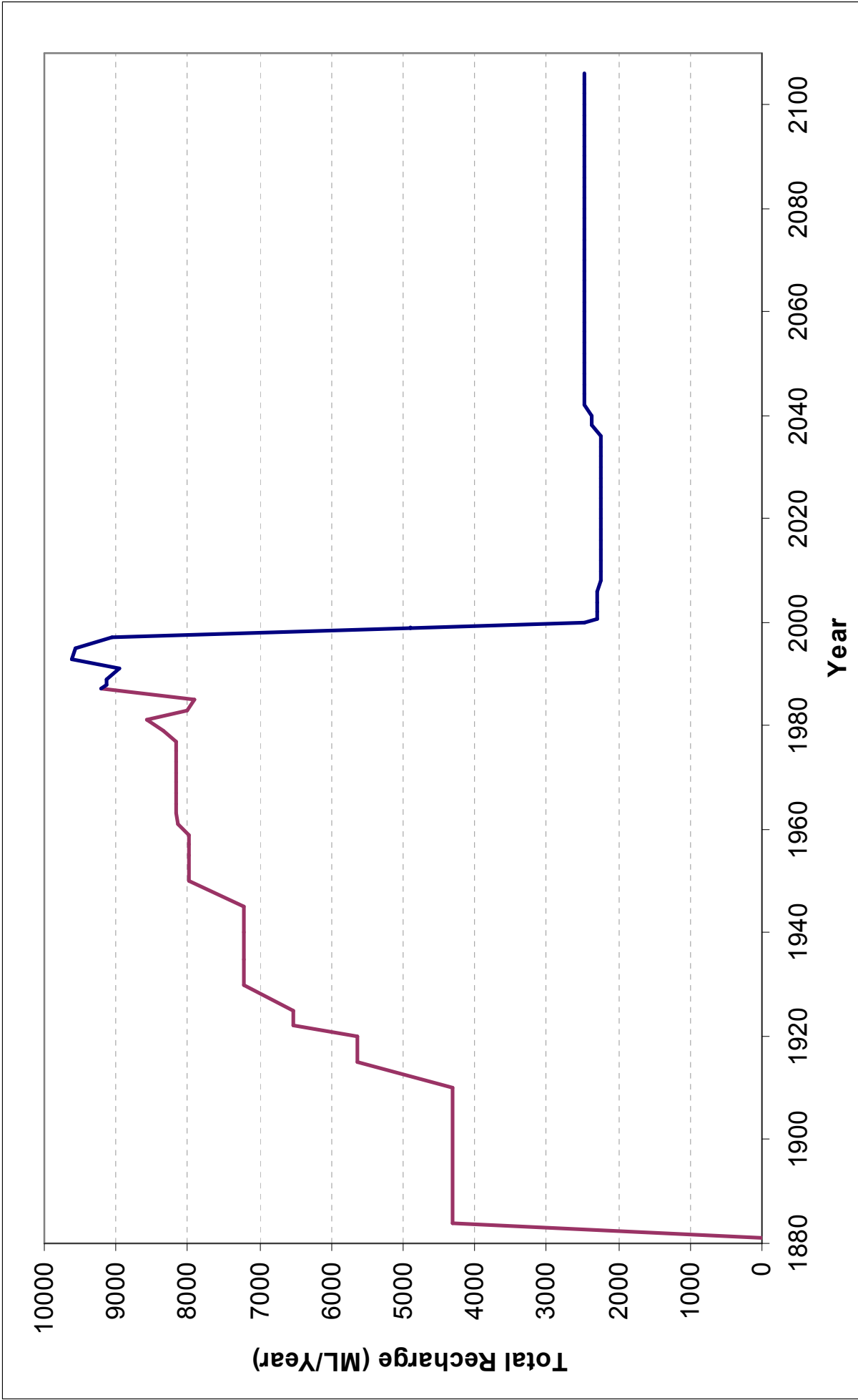
**Appendix A-3-(S4-2):** Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-4 from 1880 to 2010 (Renmark Area) cont.

Irrigation Start year		1881	1900	1880	1985	1997	2004	1999	1995	1999	1970	1997	1999
Start Year	Stop Year	Lag time (yrs)		1880	1985	1997	2004	1999	1995	1999	1970	1997	1999
		Start (day)	Stop (day)										
2010	2012	8401	9131	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2012	2014	9131	9862	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2014	2016	9862	10592	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2016	2018	10592	11323	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2018	2020	11323	12053	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2020	2022	12053	12784	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2022	2024	12784	13514	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2024	2026	13514	14245	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2026	2028	14245	14975	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2028	2030	14975	15706	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2030	2032	15706	16436	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2032	2034	16436	17167	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2034	2036	17167	17897	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2036	2038	17897	18628	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2038	2040	18628	19358	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2040	2042	19358	20089	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2042	2044	20089	20819	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2044	2046	20819	21550	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2046	2048	21550	22280	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2048	2050	22280	23011	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2050	2052	23011	23741	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2052	2054	23741	24472	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2054	2056	24472	25202	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2056	2058	25202	25933	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2058	2060	25933	26663	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2060	2062	26663	27394	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2062	2064	27394	28124	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2064	2066	28124	28855	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2066	2068	28855	29585	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2068	2070	29585	30316	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2070	2072	30316	31046	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2072	2074	31046	31777	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2074	2076	31777	32507	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2076	2078	32507	33238	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2078	2080	33238	33968	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2080	2082	33968	34699	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2082	2084	34699	35429	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2084	2086	35429	36160	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2086	2088	36160	36890	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2088	2090	36890	37621	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2090	2092	37621	38351	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2092	2094	38351	39082	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2094	2096	39082	39812	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2096	2098	39812	40543	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2098	2100	40543	41273	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2100	2102	41273	42004	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2102	2104	42004	42734	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2104	2106	42734	43465	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4

Appendix A-3-(S4-3): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-4 from 2010 to 2106 (Remark Area)

Irrigation Start year			1881	1920	1940	1951	1954	1959	1995	1961	2014	2014	2014	
Start Year	Stop Year	Lag time (yrs)	0	5	6	8	9	0	18	20	0	58	30	
			57	5	6	8	9	17	18	20	58	59	60	
Stop (day)	Start (day)	Stop (day)												
2010	2012	8401	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2012	2014	9131	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2014	2016	9862	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2016	2018	10592	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2018	2020	11323	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2020	2022	12053	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2022	2024	12784	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2024	2026	13514	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2026	2028	14245	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2028	2030	14975	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2030	2032	15706	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2032	2034	16436	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2034	2036	17167	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2036	2038	17897	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2038	2040	18628	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2040	2042	19358	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2042	2044	20089	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2044	2046	20819	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2046	2048	21550	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2048	2050	22280	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2050	2052	23011	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2052	2054	23741	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2054	2056	24472	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2056	2058	25202	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2058	2060	25933	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2060	2062	26663	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2062	2064	27394	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2064	2066	28124	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2066	2068	28855	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2068	2070	29585	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2070	2072	30316	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2072	2074	31046	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2074	2076	31777	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2076	2078	32507	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2078	2080	33238	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2080	2082	33968	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2082	2084	34699	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2084	2086	35429	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2086	2088	36160	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2088	2090	36890	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2090	2092	37621	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2092	2094	38351	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2094	2096	39082	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2096	2098	39812	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2098	2100	40543	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2100	2102	41273	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2102	2104	42004	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1
2104	2106	42734	0.1	37.3	37.3	37.3	37.3	44.4	44.4	44.4	0	0.1	0.1	0.1

**Appendix A-3-(S4-4):** Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-4 from 2010 to 2106 (Renmark Area) cont



Appendix A-3-(S4-5): Total recharge volume to the Loxton Sands in Scenario-4 (Renmark Area)



Start Year	Irrigation Start year		1881	1900	1880	1985	1997	2004	1999	1995	1970	1997	1999
	Stop Year	Lag time (yrs)											
1880	1881	0	4	11	12	10	19	27	21	22	24	25	26
1881	1884	365	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1884	1910	1460	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1910	1915	10950	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1915	1920	12776	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1920	1925	14603	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1925	1930	16429	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1930	1935	18255	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1935	1940	20081	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1940	1945	21908	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1945	1950	23734	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1950	1955	25560	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1955	1957	27386	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1957	1959	28117	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1959	1961	28847	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1961	1963	29578	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1963	1965	30308	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1965	1967	31039	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1967	1969	31769	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1969	1971	32500	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1971	1973	33230	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1973	1975	33961	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1975	1977	34691	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1977	1979	35422	183.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1979	1981	36152	194.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1981	1983	36883	171.7	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1983	1985	37613	171.7	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1985	1987	38344	171.7	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1987	1988	0	171.7	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1988	1989	365	171.7	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1989	1991	731	171.7	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1991	1993	1461	183.0	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1993	1995	2192	177.4	190.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1995	1997	2922	177.4	132.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1997	1999	3653	177.4	80.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4	176.4
1999	2000	4383	85.0	41.6	117.2	85.0	41.9	0.1	0.1	0.1	80.6	80.6	0.1
2000	2002	4749	41.9	44.4	58.6	41.9	37.3	0.1	0.1	0.1	41.6	41.6	41.6
2002	2004	5479	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	44.4
2004	2006	6209	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	44.4
2006	2008	6939	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	44.4
2008	2010	7670	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	44.4
2010	2010	8401	37.3	44.4	58.6	37.3	37.3	0.1	0.1	0.1	44.4	44.4	44.4

Appendix A-3-(S5-1): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-5 from 1880 to 2010 (Remark Area).

		Irrigation Start year													
Start Year	Stop Year	Lag time (yrs)		Stop (day)	1881	1920	1940	1951	1954	1999	1995	1961	2014		2014
		Start (day)	Stop (day)										0	30	
1880	1881	0	365	57	0	5	6	8	9	17	18	20	58	59	60
1881	1884	365	1460	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1884	1910	1460	10950	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1910	1915	10950	12776	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1915	1920	12776	14603	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1920	1925	14603	16429	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1925	1930	16429	18255	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1930	1935	18255	20081	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1935	1940	20081	21908	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1940	1945	21908	23734	176.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1945	1950	23734	25560	176.4	0.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1950	1955	25560	27386	176.4	0.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1955	1957	27386	28117	176.4	0.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1957	1959	28117	28847	176.4	0.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1959	1961	28847	29578	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	0.1	0.1	0.1	0.1
1961	1963	29578	30308	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1963	1965	30308	31039	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1965	1967	31039	31769	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1967	1969	31769	32500	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1969	1971	32500	33230	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1971	1973	33230	33961	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1973	1975	33961	34691	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1975	1977	34691	35422	176.4	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1977	1979	35422	36152	183.6	0.1	0.1	141.1	0.1	141.1	0.1	0.1	176.4	0.1	0.1	0.1
1979	1981	36152	36883	194.6	0.1	169.3	141.1	0.1	135.4	0.1	0.1	176.4	0.1	0.1	0.1
1981	1983	36883	37613	171.7	0.1	168.9	141.1	0.1	135.1	0.1	0.1	176.4	0.1	0.1	0.1
1983	1985	37613	38344	171.7	0.1	156.2	135.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1985	1987	38344	39074	171.7	0.1	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1987	1988	0	365	171.7	0.1	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1988	1989	365	731	171.7	0.1	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1989	1991	731	1461	0.1	0.1	156.2	146.4	0.1	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1991	1993	1461	2192	0.1	0.1	156.2	146.4	156.2	125.0	0.1	0.1	176.4	0.1	0.1	0.1
1993	1995	2192	2922	0.1	0.1	156.2	146.4	156.2	125.0	0.1	0.1	190.6	0.1	0.1	0.1
1995	1997	2922	3653	0.1	0.1	132.6	142.0	132.6	106.1	0.1	132.6	132.6	0.1	0.1	0.1
1997	1999	3653	4383	0.1	0.1	80.6	85.0	80.6	64.5	0.1	80.6	80.6	0.1	0.1	0.1
1999	2000	4383	4749	0.1	0.1	41.9	41.9	41.9	41.6	0.1	41.6	41.6	0.1	0.1	0.1
2000	2002	4749	5479	0.1	0.1	37.3	37.3	37.3	44.4	0.1	44.4	44.4	0.1	0.1	0.1
2002	2004	5479	6209	0.1	0.1	37.3	37.3	37.3	44.4	0.1	44.4	44.4	0.1	0.1	0.1
2004	2006	6209	6939	0.1	0.1	37.3	37.3	37.3	44.4	0.1	44.4	44.4	0.1	0.1	0.1
2006	2008	6939	7670	0.1	0.1	37.3	37.3	37.3	44.4	0.1	44.4	44.4	0.1	0.1	0.1
2008	2010	7670	8401	0.1	0.1	37.3	37.3	37.3	44.4	0.1	44.4	44.4	0.1	0.1	0.1

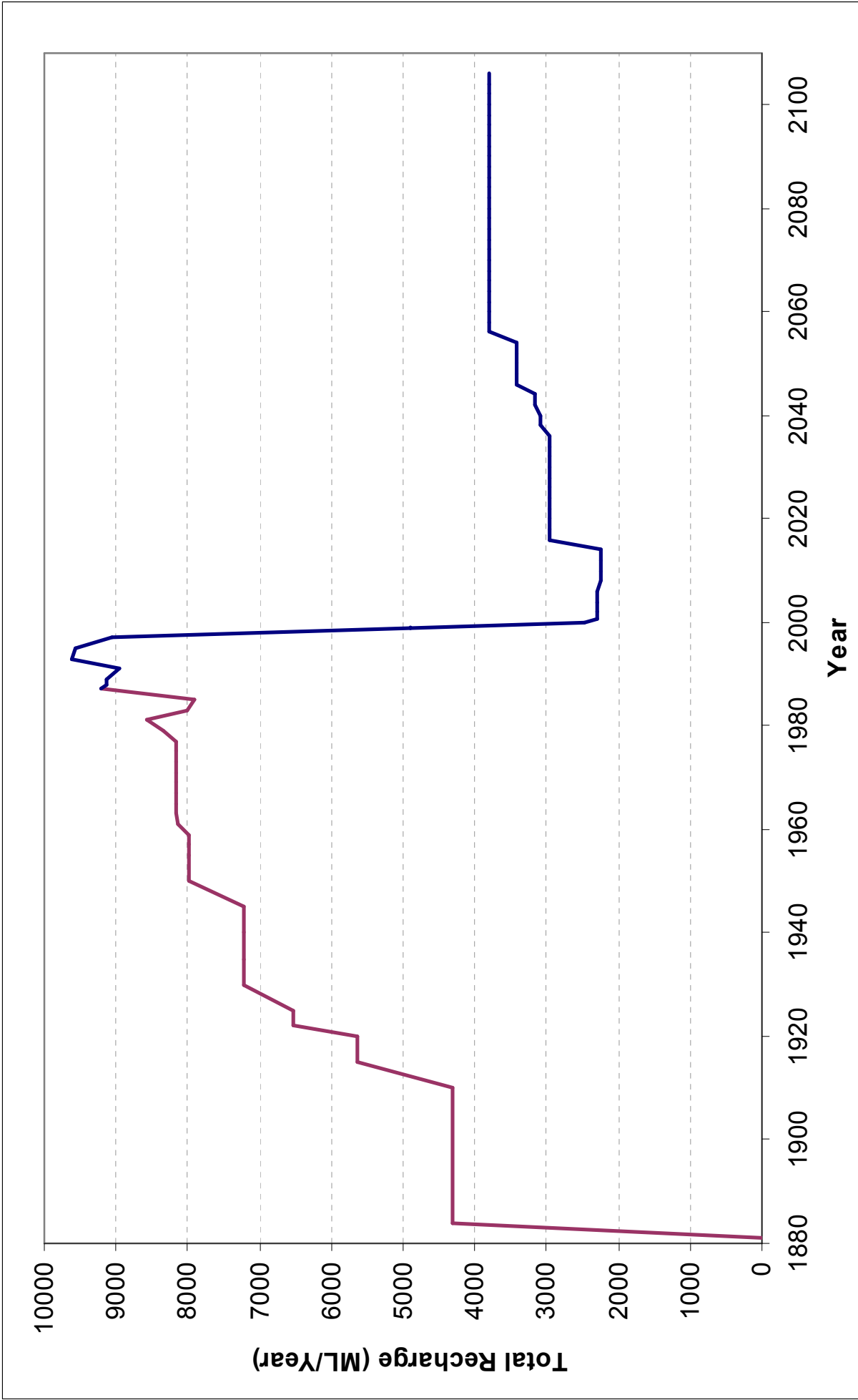
Appendix A-3-(S5-2): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-5 from 1880 to 2010 (Renmark Area) cont.

Irrigation Start year		1881	1900	1880	1985	1997	2004	1999	1995	1999	1970	1997	1999
Start Year	Stop Year	Lag time (yrs)		1880	1985	1997	2004	1999	1995	1999	1970	1997	1999
		Start (day)	Stop (day)										
2010	2012	8401	9131	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2012	2014	9131	9862	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2014	2016	9862	10592	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2016	2018	10592	11323	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2018	2020	11323	12053	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2020	2022	12053	12784	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2022	2024	12784	13514	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2024	2026	13514	14245	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2026	2028	14245	14975	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2028	2030	14975	15706	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2030	2032	15706	16436	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2032	2034	16436	17167	37.3	44.4	37.3	44.4	0.1	0.1	0.1	44.4	44.4	44.4
2034	2036	17167	17897	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2036	2038	17897	18628	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2038	2040	18628	19358	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2040	2042	19358	20089	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2042	2044	20089	20819	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2044	2046	20819	21550	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2046	2048	21550	22280	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2048	2050	22280	23011	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2050	2052	23011	23741	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2052	2054	23741	24472	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2054	2056	24472	25202	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2056	2058	25202	25933	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2058	2060	25933	26663	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2060	2062	26663	27394	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2062	2064	27394	28124	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2064	2066	28124	28855	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2066	2068	28855	29585	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2068	2070	29585	30316	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2070	2072	30316	31046	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2072	2074	31046	31777	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2074	2076	31777	32507	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2076	2078	32507	33238	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2078	2080	33238	33968	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2080	2082	33968	34699	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2082	2084	34699	35429	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2084	2086	35429	36160	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2086	2088	36160	36890	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2088	2090	36890	37621	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2090	2092	37621	38351	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2092	2094	38351	39082	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2094	2096	39082	39812	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2096	2098	39812	40543	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2098	2100	40543	41273	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2100	2102	41273	42004	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2102	2104	42004	42734	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4
2104	2106	42734	43465	37.3	44.4	37.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4

Appendix A-3-(S5-3): Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-5 from 2010 to 2106 (Remark Area)

Irrigation Start year		1881	1920	1940	1951	1954	1999	1995	1961	2014	2014								
Start Year	Stop Year	Lag time (yrs)		1940		1951		1954		1999		1995		1961		2014		2014	
		Start (day)	Stop (day)	5	6	8	9	17	18	20	0	58	59	0	30	40	60		
2010	2012	8401	9131	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2012	2014	9131	9862	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2014	2016	9862	10592	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2016	2018	10592	11323	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2018	2020	11323	12053	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2020	2022	12053	12784	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2022	2024	12784	13514	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2024	2026	13514	14245	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2026	2028	14245	14975	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2028	2030	14975	15706	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2030	2032	15706	16436	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2032	2034	16436	17167	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2034	2036	17167	17897	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2036	2038	17897	18628	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2038	2040	18628	19358	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2040	2042	19358	20089	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2042	2044	20089	20819	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2044	2046	20819	21550	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2046	2048	21550	22280	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2048	2050	22280	23011	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2050	2052	23011	23741	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2052	2054	23741	24472	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2054	2056	24472	25202	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2056	2058	25202	25933	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2058	2060	25933	26663	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2060	2062	26663	27394	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2062	2064	27394	28124	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2064	2066	28124	28855	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2066	2068	28855	29585	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2068	2070	29585	30316	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2070	2072	30316	31046	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2072	2074	31046	31777	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2074	2076	31777	32507	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2076	2078	32507	33238	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2078	2080	33238	33968	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2080	2082	33968	34699	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2082	2084	34699	35429	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2084	2086	35429	36160	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2086	2088	36160	36890	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2088	2090	36890	37621	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2090	2092	37621	38351	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2092	2094	38351	39082	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2094	2096	39082	39812	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2096	2098	39812	40543	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2098	2100	40543	41273	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2100	2102	41273	42004	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2102	2104	42004	42734	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40
2104	2106	42734	43465	0.1	37.3	37.3	37.3	44.4	44.4	0	17	18	0	20	58	59	0	30	40

**Appendix A-3-(S5-4):** Model recharge zones, irrigation start time, lag time and recharge rates (mm/yr) in Scenario-5 from 2010 to 2106 (Remark Area) cont



Appendix A-3-(S5-5): Total recharge volume to the Loxton Sands in Scenario-5 (Renmark Area)

Region	Well name	Time activated		Drain level (mAHD)	Cond (m <sup>2</sup> /d)
		Days	date		
Renmark South	Ren 1 - 4 & 6	4976	2001	13	2000
	Ren 5	4376	1999	14	5000
Renmark North	Ren14	4376	1999	16	2000
	Ren 7 - 13	Caissons deactivated in model			
Renmark North-east	Ren15-16	4749	2000	14	3000
	Ren 17	3653	1997	16.5	2000

Note: Caissons have been assumed to be part of Irrigation Efficiency Improvements ( i.e. Caissons are inactive for scenario 3a)

# Appendix B-1

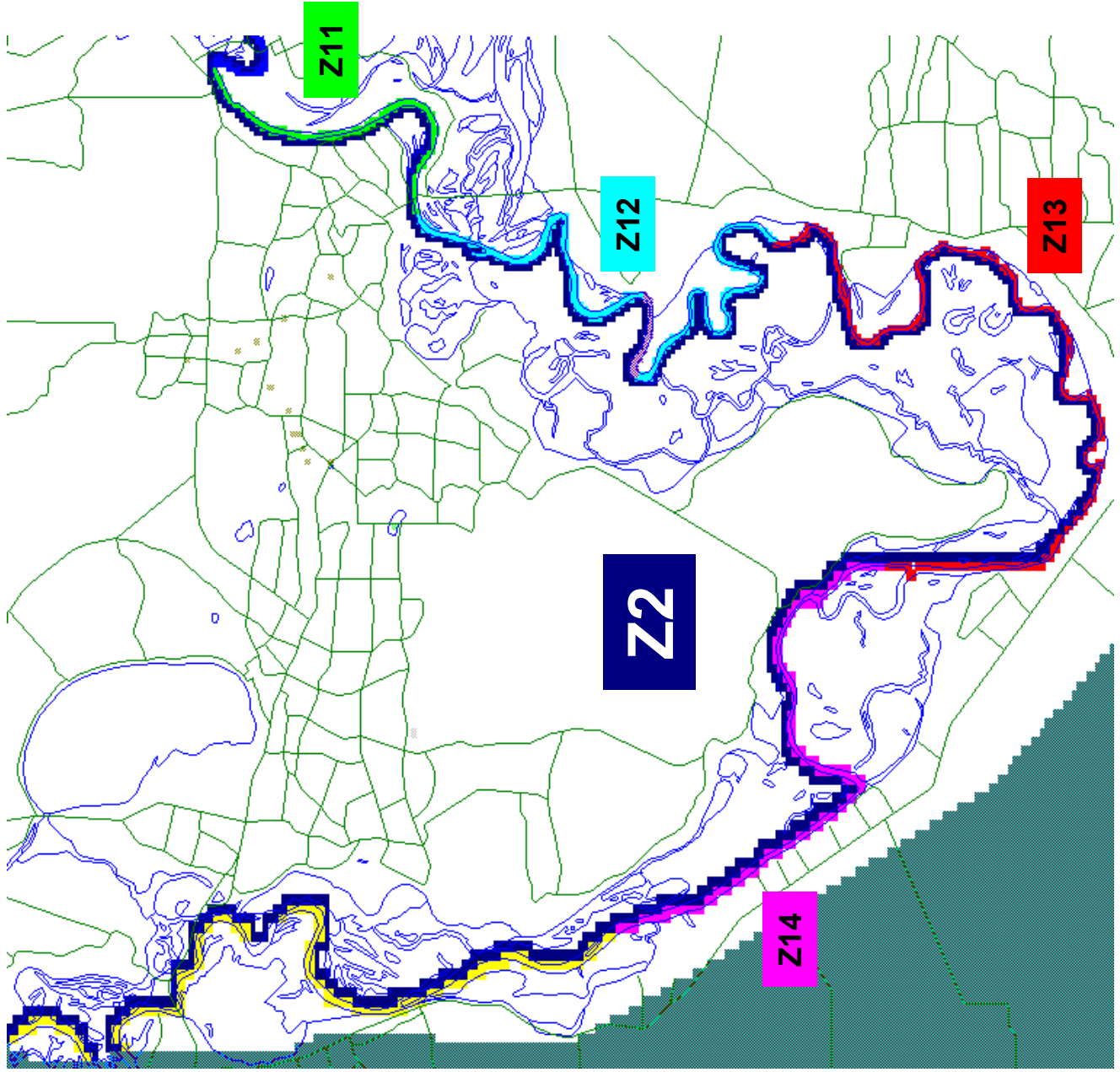
## Model Output - Berri Area

- Flow budget zones
- Modelled groundwater flux (m<sup>3</sup>/day)
- Modelled Salt load (tonnes/day)

(All Scenarios)

Scenario	Name	Model Run	Irrigation development area	IIP1	RH <sup>2</sup>	SIS <sup>3</sup>
S-1	Natural system	Steady State	None	-	-	-
S-2	Mallee clearance	1920 – 2105	None (but includes Mallee clearance area)	-	-	-
S-3A	Pre-1988, no IIP, no RH	1988 – 2105	Pre-1988	No	No	-
S-3B	Pre-1988, with IIP, no RH	1988 – 2105	Pre-1988	Yes	No	-
S-3C	Pre-1988, with IIP and with RH	1988 – 2105	Pre-1988	Yes	Yes	-
S-4	Current irrigation	2005 – 2105	Pre-1988 + Post-1988	Yes	Yes	No
S-5	Current plus future irrigation	2005 – 2105	Pre-1988 + Post-1988 + Future development	Yes	Yes	No
1 Improved Irrigation Practices		2 Rehabilitation	3 Salt Interception Scheme			





Appendix B-1: Model flow budget zones in the Berri Area (layer 1)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1921	23	343	0	3	368
3650	1930	23	349	0	6	378
7300	1940	23	349	0	25	397
10950	1950	23	349	0	36	408
14600	1960	23	350	0	43	415
18250	1970	23	350	0	48	421
21900	1980	24	350	0	53	426
24820	1988	25	350	0	55	430
25186	1989	25	350	0	56	431
25550	1990	25	350	0	56	431
25916	1991	26	350	0	57	432
26647	1993	26	350	0	57	433
27377	1995	26	350	0	58	434
28108	1997	27	350	0	58	435
28838	1999	27	350	0	59	435
29200	2000	27	350	0	59	436
29431	2001	28	350	0	59	437
29934	2002	28	350	0	60	438
30664	2004	28	350	0	60	439
31394	2006	29	350	0	61	439
32125	2008	29	350	0	61	440
32850	2010	30	350	0	62	441
33586	2012	31	350	0	63	443
34317	2014	31	350	0	64	444
35047	2016	32	350	0	64	445
35778	2018	32	350	0	65	446
36500	2020	33	350	0	65	447
37239	2022	34	350	0	66	450
37969	2024	35	350	0	67	451
38700	2026	35	350	0	67	452
39430	2028	36	350	0	68	453
40150	2030	36	350	0	68	454
40891	2032	38	350	0	70	457
41622	2034	39	350	0	70	459
42352	2036	39	350	0	71	460

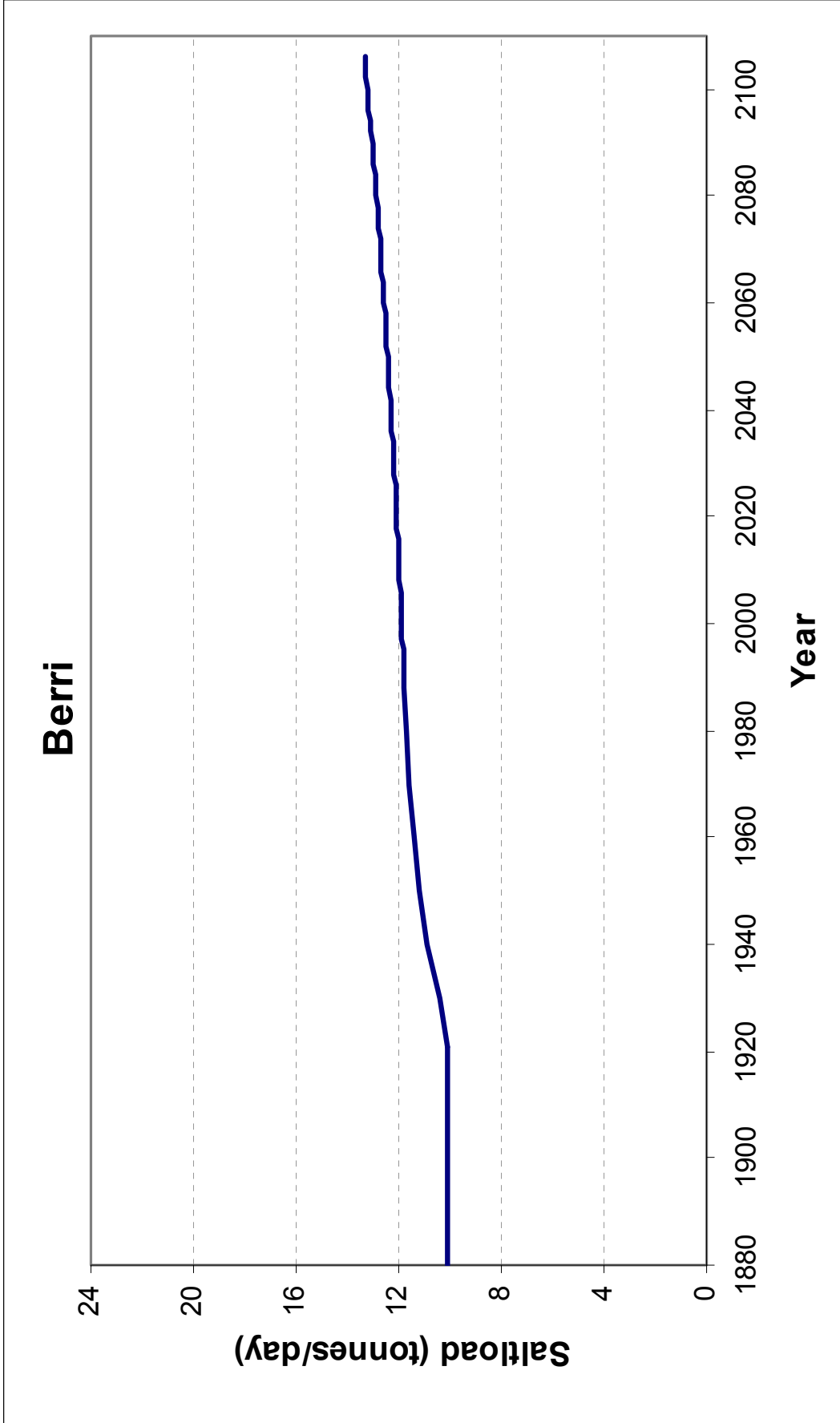
Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
43083	2038	40	350	0	71	461
43465	2039	41	350	0	72	462
43800	2040	41	350	0	72	463
44544	2042	43	350	0	73	466
45274	2044	45	350	0	74	468
46005	2046	46	350	0	74	471
46735	2048	48	350	0	75	473
47450	2050	49	350	0	75	474
48196	2052	51	350	0	76	478
48927	2054	53	350	0	77	480
49657	2056	55	350	0	78	483
50388	2058	56	350	0	79	485
51100	2060	58	350	0	79	487
51849	2062	60	350	0	80	491
52579	2064	62	350	0	81	494
53310	2066	64	350	0	82	496
54040	2068	66	350	0	83	499
54750	2070	68	350	0	84	502
55501	2072	70	350	0	85	505
56232	2074	72	350	0	86	509
56962	2076	75	351	0	86	512
57693	2078	77	351	0	87	515
58400	2080	79	351	0	88	517
59154	2082	81	351	0	89	521
59884	2084	84	351	0	90	524
60615	2086	86	351	0	91	528
61345	2088	88	351	0	92	531
62050	2090	90	351	0	93	534
62806	2092	92	351	0	94	537
63537	2094	95	351	0	95	541
64267	2096	97	351	0	96	544
64998	2098	99	351	0	97	547
65700	2100	101	351	0	98	550
66459	2102	104	351	0	99	554
67189	2104	106	351	0	100	557
67920	2106	108	351	0	102	560

Appendix B-1-(S2-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-2 (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1921	0.1	10.0	0.0	0.1	10.1
3650	1930	0.1	10.1	0.0	0.2	10.4
7300	1940	0.1	10.1	0.0	0.7	10.9
10950	1950	0.1	10.1	0.0	1.0	11.2
14600	1960	0.1	10.1	0.0	1.2	11.4
18250	1970	0.1	10.1	0.0	1.4	11.6
21900	1980	0.1	10.2	0.0	1.5	11.7
24820	1988	0.1	10.2	0.0	1.6	11.8
25186	1989	0.1	10.2	0.0	1.6	11.8
25550	1990	0.1	10.2	0.0	1.6	11.8
25916	1991	0.1	10.2	0.0	1.6	11.8
26647	1993	0.1	10.2	0.0	1.6	11.8
27377	1995	0.1	10.2	0.0	1.6	11.8
28108	1997	0.1	10.2	0.0	1.6	11.9
28838	1999	0.1	10.2	0.0	1.6	11.9
29200	2000	0.1	10.2	0.0	1.7	11.9
29431	2001	0.1	10.2	0.0	1.7	11.9
29934	2002	0.1	10.2	0.0	1.7	11.9
30664	2004	0.1	10.2	0.0	1.7	11.9
31394	2006	0.1	10.2	0.0	1.7	11.9
32125	2008	0.1	10.2	0.0	1.7	12.0
32850	2010	0.1	10.2	0.0	1.7	12.0
33586	2012	0.1	10.2	0.0	1.8	12.0
34317	2014	0.1	10.2	0.0	1.8	12.0
35047	2016	0.1	10.2	0.0	1.8	12.0
35778	2018	0.1	10.2	0.0	1.8	12.1
36500	2020	0.1	10.2	0.0	1.8	12.1
37239	2022	0.1	10.2	0.0	1.9	12.1
37969	2024	0.1	10.2	0.0	1.9	12.1
38700	2026	0.1	10.2	0.0	1.9	12.1
39430	2028	0.1	10.2	0.0	1.9	12.2
40150	2030	0.1	10.2	0.0	1.9	12.2
40891	2032	0.1	10.2	0.0	2.0	12.2
41622	2034	0.1	10.2	0.0	2.0	12.2
42352	2036	0.1	10.2	0.0	2.0	12.3
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
43083	2038	0.1	10.2	0.0	2.0	12.3
43465	2039	0.1	10.2	0.0	2.0	12.3
43800	2040	0.1	10.2	0.0	2.0	12.3
44544	2042	0.1	10.2	0.0	2.1	12.3
45274	2044	0.1	10.2	0.0	2.1	12.4
46005	2046	0.1	10.2	0.0	2.1	12.4
46735	2048	0.1	10.2	0.0	2.1	12.4
47450	2050	0.1	10.2	0.0	2.1	12.4
48196	2052	0.1	10.2	0.0	2.1	12.5
48927	2054	0.1	10.2	0.0	2.2	12.5
49657	2056	0.1	10.2	0.0	2.2	12.5
50388	2058	0.2	10.2	0.0	2.2	12.5
51100	2060	0.2	10.2	0.0	2.2	12.6
51849	2062	0.2	10.2	0.0	2.3	12.6
52579	2064	0.2	10.2	0.0	2.3	12.6
53310	2066	0.2	10.2	0.0	2.3	12.7
54040	2068	0.2	10.2	0.0	2.3	12.7
54750	2070	0.2	10.2	0.0	2.3	12.7
55501	2072	0.2	10.2	0.0	2.4	12.7
56232	2074	0.2	10.2	0.0	2.4	12.8
56962	2076	0.2	10.2	0.0	2.4	12.8
57693	2078	0.2	10.2	0.0	2.5	12.8
58400	2080	0.2	10.2	0.0	2.5	12.9
59154	2082	0.2	10.2	0.0	2.5	12.9
59884	2084	0.2	10.2	0.0	2.5	12.9
60615	2086	0.2	10.2	0.0	2.6	13.0
61345	2088	0.2	10.2	0.0	2.6	13.0
62050	2090	0.2	10.2	0.0	2.6	13.0
62806	2092	0.3	10.2	0.0	2.7	13.1
63537	2094	0.3	10.2	0.0	2.7	13.1
64267	2096	0.3	10.2	0.0	2.7	13.2
64998	2098	0.3	10.2	0.0	2.7	13.2
65700	2100	0.3	10.2	0.0	2.8	13.2
66459	2102	0.3	10.2	0.0	2.8	13.3
67189	2104	0.3	10.2	0.0	2.8	13.3
67920	2106	0.3	10.2	0.0	2.9	13.3
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Appendix B-1-(S2-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-2 (Berri Area)



Appendix B-1-(S2-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-2 (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	22	343	0	3	367
1460	1884	21	349	0	0	370
10950	1910	22	350	0	35	407
12776	1915	23	350	0	39	412
14603	1920	24	350	0	42	416
15333	1922	25	350	0	43	417
16429	1925	25	350	0	45	420
18255	1930	85	350	0	47	482
20081	1935	119	350	0	49	518
21908	1940	136	350	0	51	537
23734	1945	151	350	0	53	555
25560	1950	166	351	0	56	573
27386	1955	181	351	0	59	592
28117	1957	187	352	0	60	599
28847	1959	193	352	0	61	606
29578	1961	200	352	0	62	614
30308	1963	208	352	0	63	624
31039	1965	220	353	0	65	637
31769	1967	231	353	0	66	650
32500	1969	242	353	0	67	663
33230	1971	254	354	0	69	676
33961	1973	265	354	0	70	689
34691	1975	275	354	0	72	701
35422	1977	273	355	0	73	701
36152	1979	276	355	0	74	706
36883	1981	281	355	0	76	712
37613	1983	287	356	0	77	720
38344	1985	293	356	0	79	728
39074	1987	300	356	0	80	736
365	1988	310	356	0	82	748
731	1989	313	356	0	83	752
1461	1991	319	357	0	85	760
2192	1993	325	357	0	86	768
2922	1995	331	357	0	87	775
3653	1997	336	357	0	89	782
4383	1999	341	357	0	90	789
4749	2000	344	357	0	91	792
5479	2002	349	358	0	92	798
6209	2004	353	358	0	94	804
6939	2006	357	358	0	95	810
7670	2008	361	358	0	97	816
8401	2010	365	358	0	98	821
9131	2012	368	358	0	99	826
9862	2014	372	358	0	101	831
10592	2016	375	358	0	102	835

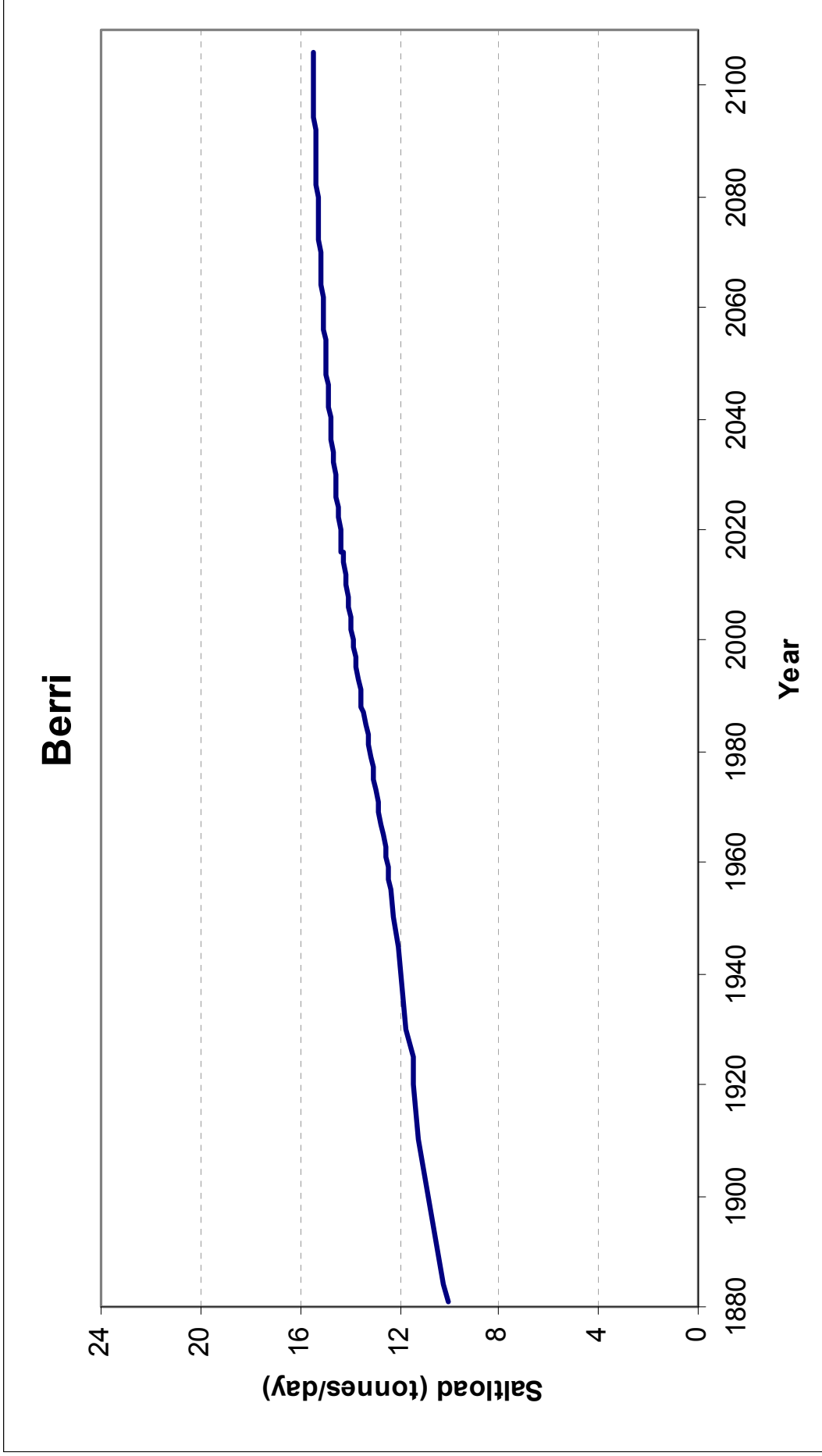
Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	378	358	0	103	840
12053	2020	381	358	0	105	844
12784	2022	383	358	0	106	848
13514	2024	386	358	0	107	851
14245	2026	388	358	0	108	855
14975	2028	390	359	0	110	858
15706	2030	392	359	0	111	862
16436	2032	394	359	0	112	865
17167	2034	396	359	0	113	868
17897	2036	398	359	0	114	871
18628	2038	399	359	0	115	873
19358	2040	401	359	0	116	876
20089	2042	402	359	0	117	879
20819	2044	404	359	0	118	881
21550	2046	405	359	0	119	883
22280	2048	406	359	0	120	886
23011	2050	408	359	0	121	888
23741	2052	409	359	0	122	890
24472	2054	410	359	0	123	892
25202	2056	411	359	0	124	894
25933	2058	412	359	0	125	896
26663	2060	413	359	0	126	898
27394	2062	414	359	0	126	899
28124	2064	415	359	0	127	901
28855	2066	416	359	0	128	903
29585	2068	417	359	0	129	904
30316	2070	418	359	0	129	906
31046	2072	418	359	0	130	907
31777	2074	419	359	0	131	909
32507	2076	420	359	0	131	910
33238	2078	421	359	0	132	912
33968	2080	421	359	0	133	913
34699	2082	422	359	0	133	914
35429	2084	423	359	0	134	916
36160	2086	423	359	0	134	917
36890	2088	424	359	0	135	918
37621	2090	425	359	0	135	919
38351	2092	425	359	0	136	920
39082	2094	426	359	0	136	921
39812	2096	426	359	0	137	922
40543	2098	427	359	0	137	923
41273	2100	428	359	0	138	924
42004	2102	428	359	0	138	925
42734	2104	429	359	0	138	926
43465	2106	429	359	0	139	927

Appendix B-1-(S3A-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-3A (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	0.1	10.0	0.0	0.1	10.1
1460	1884	0.1	10.1	0.0	0.0	10.2
10950	1910	0.1	10.1	0.0	1.0	11.2
12776	1915	0.1	10.1	0.0	1.1	11.3
14603	1920	0.1	10.2	0.0	1.2	11.4
15333	1922	0.1	10.2	0.0	1.2	11.4
16429	1925	0.1	10.2	0.0	1.3	11.5
18255	1930	0.2	10.2	0.0	1.3	11.7
20081	1935	0.3	10.2	0.0	1.4	11.9
21908	1940	0.4	10.2	0.0	1.4	12.0
23734	1945	0.4	10.2	0.0	1.5	12.1
25560	1950	0.5	10.2	0.0	1.6	12.2
27386	1955	0.5	10.2	0.0	1.6	12.3
28117	1957	0.5	10.2	0.0	1.7	12.4
28847	1959	0.5	10.2	0.0	1.7	12.5
29578	1961	0.5	10.2	0.0	1.7	12.5
30308	1963	0.6	10.2	0.0	1.8	12.6
31039	1965	0.6	10.2	0.0	1.8	12.7
31769	1967	0.6	10.2	0.0	1.9	12.7
32500	1969	0.7	10.3	0.0	1.9	12.8
33230	1971	0.7	10.3	0.0	1.9	12.9
33961	1973	0.7	10.3	0.0	2.0	13.0
34691	1975	0.8	10.3	0.0	2.0	13.1
35422	1977	0.7	10.3	0.0	2.1	13.1
36152	1979	0.8	10.3	0.0	2.1	13.2
36883	1981	0.8	10.3	0.0	2.1	13.2
37613	1983	0.8	10.3	0.0	2.2	13.3
38344	1985	0.8	10.3	0.0	2.2	13.3
39074	1987	0.8	10.3	0.0	2.3	13.4
365	1988	0.8	10.3	0.0	2.3	13.5
731	1989	0.9	10.3	0.0	2.3	13.5
1461	1991	0.9	10.4	0.0	2.4	13.6
2192	1993	0.9	10.4	0.0	2.4	13.7
2922	1995	0.9	10.4	0.0	2.5	13.7
3653	1997	0.9	10.4	0.0	2.5	13.8
4383	1999	0.9	10.4	0.0	2.5	13.8
4749	2000	0.9	10.4	0.0	2.6	13.9
5479	2002	1.0	10.4	0.0	2.6	13.9
6209	2004	1.0	10.4	0.0	2.6	14.0
6939	2006	1.0	10.4	0.0	2.7	14.1
7670	2008	1.0	10.4	0.0	2.7	14.1
8401	2010	1.0	10.4	0.0	2.8	14.1
9131	2012	1.0	10.4	0.0	2.8	14.2
9862	2014	1.0	10.4	0.0	2.8	14.2
10592	2016	1.0	10.4	0.0	2.9	14.3
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	1.0	10.4	0.0	2.9	14.3
12053	2020	1.0	10.4	0.0	2.9	14.4
12784	2022	1.0	10.4	0.0	3.0	14.4
13514	2024	1.1	10.4	0.0	3.0	14.5
14245	2026	1.1	10.4	0.0	3.0	14.5
14975	2028	1.1	10.4	0.0	3.1	14.6
15706	2030	1.1	10.4	0.0	3.1	14.6
16436	2032	1.1	10.4	0.0	3.1	14.6
17167	2034	1.1	10.4	0.0	3.2	14.7
17897	2036	1.1	10.4	0.0	3.2	14.7
18628	2038	1.1	10.4	0.0	3.2	14.7
19358	2040	1.1	10.4	0.0	3.3	14.8
20089	2042	1.1	10.4	0.0	3.3	14.8
20819	2044	1.1	10.4	0.0	3.3	14.8
21550	2046	1.1	10.4	0.0	3.4	14.9
22280	2048	1.1	10.4	0.0	3.4	14.9
23011	2050	1.1	10.4	0.0	3.4	14.9
23741	2052	1.1	10.4	0.0	3.4	15.0
24472	2054	1.1	10.4	0.0	3.5	15.0
25202	2056	1.1	10.4	0.0	3.5	15.0
25933	2058	1.1	10.4	0.0	3.5	15.1
26663	2060	1.1	10.4	0.0	3.5	15.1
27394	2062	1.1	10.4	0.0	3.6	15.1
28124	2064	1.1	10.4	0.0	3.6	15.1
28855	2066	1.1	10.4	0.0	3.6	15.2
29585	2068	1.1	10.4	0.0	3.6	15.2
30316	2070	1.1	10.4	0.0	3.6	15.2
31046	2072	1.1	10.4	0.0	3.7	15.2
31777	2074	1.1	10.4	0.0	3.7	15.2
32507	2076	1.1	10.4	0.0	3.7	15.3
33238	2078	1.1	10.4	0.0	3.7	15.3
33968	2080	1.1	10.4	0.0	3.7	15.3
34699	2082	1.2	10.4	0.0	3.7	15.3
35429	2084	1.2	10.4	0.0	3.8	15.3
36160	2086	1.2	10.4	0.0	3.8	15.4
36890	2088	1.2	10.4	0.0	3.8	15.4
37621	2090	1.2	10.4	0.0	3.8	15.4
38351	2092	1.2	10.4	0.0	3.8	15.4
39082	2094	1.2	10.4	0.0	3.8	15.4
39812	2096	1.2	10.4	0.0	3.8	15.4
40543	2098	1.2	10.4	0.0	3.9	15.4
41273	2100	1.2	10.4	0.0	3.9	15.5
42004	2102	1.2	10.4	0.0	3.9	15.5
42734	2104	1.2	10.4	0.0	3.9	15.5
43465	2106	1.2	10.4	0.0	3.9	15.5
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Appendix B-1-(S3A-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-3A (Berri Area)



Appendix B-1-(S3A-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-3A (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	22	343	0	3	367
1460	1884	21	349	0	0	370
10950	1910	22	350	0	35	407
12776	1915	23	350	0	39	412
14603	1920	24	350	0	42	416
15333	1922	25	350	0	43	417
16429	1925	25	350	0	45	420
18255	1930	85	350	0	47	482
20081	1935	119	350	0	49	518
21908	1940	136	350	0	51	537
23734	1945	151	350	0	53	555
25560	1950	166	351	0	56	573
27386	1955	181	351	0	59	592
28117	1957	187	352	0	60	599
28847	1959	193	352	0	61	606
29578	1961	200	352	0	62	614
30308	1963	208	352	0	63	624
31039	1965	220	353	0	65	637
31769	1967	231	353	0	66	650
32500	1969	242	353	0	67	663
33230	1971	254	354	0	69	676
33961	1973	265	354	0	70	689
34691	1975	275	354	0	72	701
35422	1977	273	355	0	73	701
36152	1979	276	355	0	74	706
36883	1981	281	355	0	76	712
37613	1983	287	356	0	77	720
38344	1985	293	356	0	79	728
39074	1987	300	356	0	80	736
365	1988	303	356	0	81	740
731	1989	306	356	0	82	744
1461	1991	312	356	0	83	751
2192	1993	317	357	0	85	758
2922	1995	323	357	0	86	765
3653	1997	328	357	0	87	772
4383	1999	333	357	0	89	779
4749	2000	335	357	0	89	782
5479	2002	339	357	0	91	788
6209	2004	344	357	0	92	793
6939	2006	347	358	0	94	799
7670	2008	351	358	0	95	804
8401	2010	355	358	0	97	809
9131	2012	358	358	0	98	814
9862	2014	361	358	0	99	818
10592	2016	364	358	0	101	822

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	367	358	0	102	826
12053	2020	369	358	0	103	830
12784	2022	371	358	0	104	834
13514	2024	374	358	0	106	837
14245	2026	376	358	0	107	841
14975	2028	377	358	0	108	844
15706	2030	379	358	0	109	847
16436	2032	381	358	0	110	850
17167	2034	382	358	0	112	852
17897	2036	384	358	0	113	855
18628	2038	385	358	0	114	857
19358	2040	386	358	0	115	860
20089	2042	388	358	0	116	862
20819	2044	389	358	0	117	864
21550	2046	390	358	0	118	866
22280	2048	391	359	0	119	868
23011	2050	391	359	0	120	870
23741	2052	392	359	0	120	871
24472	2054	393	359	0	121	873
25202	2056	394	359	0	122	874
25933	2058	394	359	0	123	876
26663	2060	395	359	0	124	877
27394	2062	396	359	0	125	879
28124	2064	396	359	0	125	880
28855	2066	397	359	0	126	881
29585	2068	397	359	0	127	883
30316	2070	398	359	0	127	884
31046	2072	398	359	0	128	885
31777	2074	399	359	0	129	886
32507	2076	399	359	0	129	887
33238	2078	400	359	0	130	888
33968	2080	400	359	0	130	889
34699	2082	401	359	0	131	890
35429	2084	401	359	0	131	891
36160	2086	401	359	0	132	892
36890	2088	402	359	0	132	893
37621	2090	402	359	0	133	894
38351	2092	402	359	0	133	894
39082	2094	403	359	0	134	895
39812	2096	403	359	0	134	896
40543	2098	403	359	0	135	897
41273	2100	403	359	0	135	897
42004	2102	404	359	0	135	898
42734	2104	404	359	0	136	899
43465	2106	404	359	0	136	899

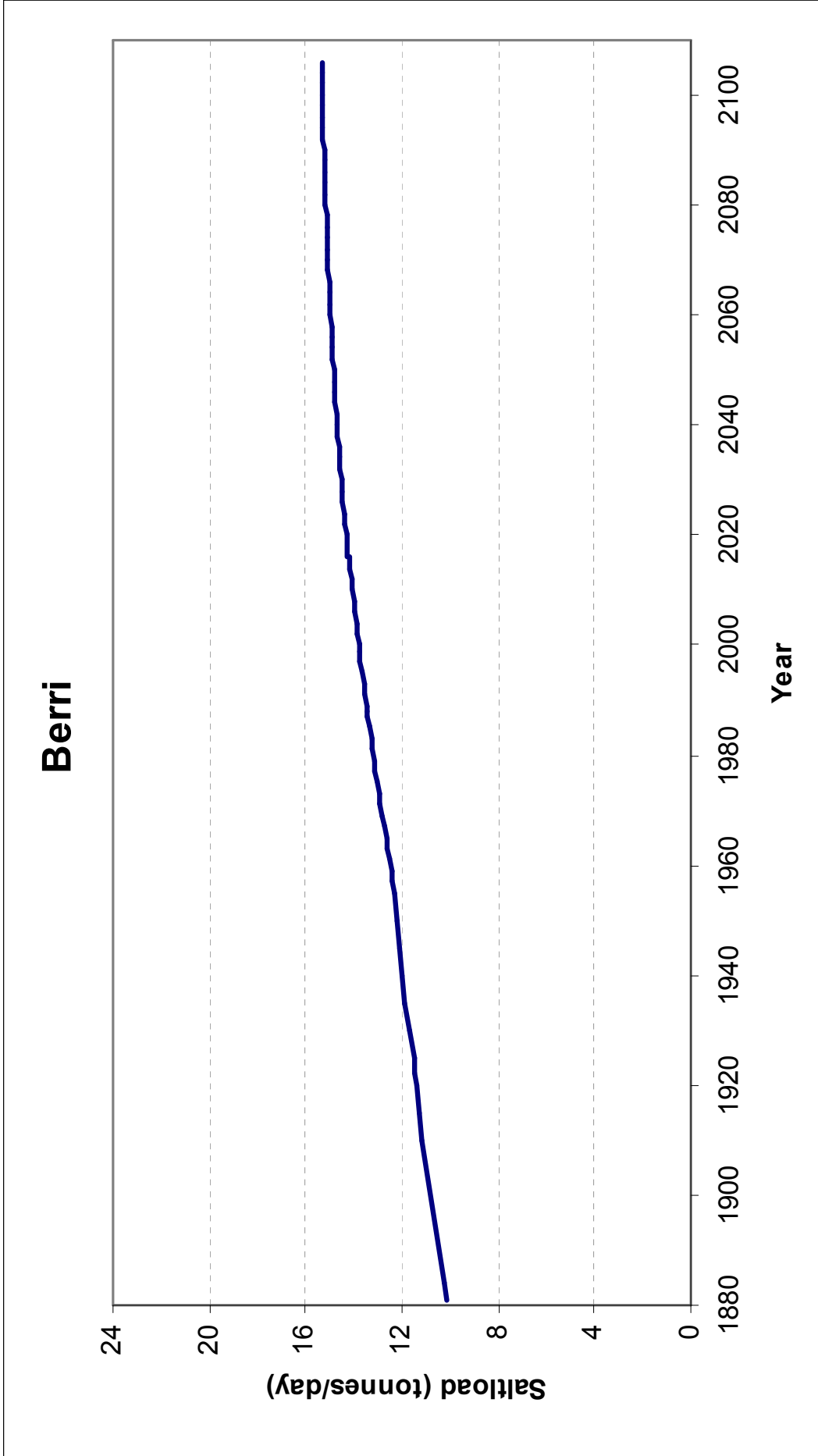
Appendix B-1-(S3B-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-3B (Berri Area)



Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	0.1	10.0	0.0	0.1	10.1
1460	1884	0.1	10.1	0.0	0.0	10.2
10950	1910	0.1	10.1	0.0	1.0	11.2
12776	1915	0.1	10.1	0.0	1.1	11.3
14603	1920	0.1	10.2	0.0	1.2	11.4
15333	1922	0.1	10.2	0.0	1.2	11.4
16429	1925	0.1	10.2	0.0	1.3	11.5
18255	1930	0.2	10.2	0.0	1.3	11.7
20081	1935	0.3	10.2	0.0	1.4	11.9
21908	1940	0.4	10.2	0.0	1.4	12.0
23734	1945	0.4	10.2	0.0	1.5	12.1
25560	1950	0.5	10.2	0.0	1.6	12.2
27386	1955	0.5	10.2	0.0	1.6	12.3
28117	1957	0.5	10.2	0.0	1.7	12.4
28847	1959	0.5	10.2	0.0	1.7	12.5
29578	1961	0.5	10.2	0.0	1.7	12.5
30308	1963	0.6	10.2	0.0	1.8	12.6
31039	1965	0.6	10.2	0.0	1.8	12.7
31769	1967	0.6	10.2	0.0	1.9	12.7
32500	1969	0.7	10.3	0.0	1.9	12.8
33230	1971	0.7	10.3	0.0	1.9	12.9
33961	1973	0.7	10.3	0.0	2.0	13.0
34691	1975	0.8	10.3	0.0	2.0	13.1
35422	1977	0.7	10.3	0.0	2.1	13.1
36152	1979	0.8	10.3	0.0	2.1	13.2
36883	1981	0.8	10.3	0.0	2.1	13.2
37613	1983	0.8	10.3	0.0	2.2	13.3
38344	1985	0.8	10.3	0.0	2.2	13.3
39074	1987	0.8	10.3	0.0	2.3	13.4
365	1988	0.8	10.3	0.0	2.3	13.4
731	1989	0.8	10.3	0.0	2.3	13.5
1461	1991	0.9	10.3	0.0	2.3	13.5
2192	1993	0.9	10.4	0.0	2.4	13.6
2922	1995	0.9	10.4	0.0	2.4	13.7
3653	1997	0.9	10.4	0.0	2.5	13.7
4383	1999	0.9	10.4	0.0	2.5	13.8
4749	2000	0.9	10.4	0.0	2.5	13.8
5479	2002	0.9	10.4	0.0	2.6	13.9
6209	2004	0.9	10.4	0.0	2.6	13.9
6939	2006	0.9	10.4	0.0	2.6	14.0
7670	2008	1.0	10.4	0.0	2.7	14.0
8401	2010	1.0	10.4	0.0	2.7	14.1
9131	2012	1.0	10.4	0.0	2.8	14.1
9862	2014	1.0	10.4	0.0	2.8	14.2
10592	2016	1.0	10.4	0.0	2.8	14.2
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	1.0	10.4	0.0	2.9	14.3
12053	2020	1.0	10.4	0.0	2.9	14.3
12784	2022	1.0	10.4	0.0	2.9	14.3
13514	2024	1.0	10.4	0.0	3.0	14.4
14245	2026	1.0	10.4	0.0	3.0	14.4
14975	2028	1.0	10.4	0.0	3.0	14.5
15706	2030	1.0	10.4	0.0	3.1	14.5
16436	2032	1.0	10.4	0.0	3.1	14.5
17167	2034	1.0	10.4	0.0	3.1	14.6
17897	2036	1.0	10.4	0.0	3.2	14.6
18628	2038	1.1	10.4	0.0	3.2	14.7
19358	2040	1.1	10.4	0.0	3.2	14.7
20089	2042	1.1	10.4	0.0	3.3	14.7
20819	2044	1.1	10.4	0.0	3.3	14.8
21550	2046	1.1	10.4	0.0	3.3	14.8
22280	2048	1.1	10.4	0.0	3.3	14.8
23011	2050	1.1	10.4	0.0	3.4	14.8
23741	2052	1.1	10.4	0.0	3.4	14.9
24472	2054	1.1	10.4	0.0	3.4	14.9
25202	2056	1.1	10.4	0.0	3.4	14.9
25933	2058	1.1	10.4	0.0	3.5	14.9
26663	2060	1.1	10.4	0.0	3.5	15.0
27394	2062	1.1	10.4	0.0	3.5	15.0
28124	2064	1.1	10.4	0.0	3.5	15.0
28855	2066	1.1	10.4	0.0	3.5	15.0
29585	2068	1.1	10.4	0.0	3.6	15.1
30316	2070	1.1	10.4	0.0	3.6	15.1
31046	2072	1.1	10.4	0.0	3.6	15.1
31777	2074	1.1	10.4	0.0	3.6	15.1
32507	2076	1.1	10.4	0.0	3.6	15.1
33238	2078	1.1	10.4	0.0	3.6	15.2
33968	2080	1.1	10.4	0.0	3.7	15.2
34699	2082	1.1	10.4	0.0	3.7	15.2
35429	2084	1.1	10.4	0.0	3.7	15.2
36160	2086	1.1	10.4	0.0	3.7	15.2
36890	2088	1.1	10.4	0.0	3.7	15.2
37621	2090	1.1	10.4	0.0	3.7	15.2
38351	2092	1.1	10.4	0.0	3.7	15.3
39082	2094	1.1	10.4	0.0	3.8	15.3
39812	2096	1.1	10.4	0.0	3.8	15.3
40543	2098	1.1	10.4	0.0	3.8	15.3
41273	2100	1.1	10.4	0.0	3.8	15.3
42004	2102	1.1	10.4	0.0	3.8	15.3
42734	2104	1.1	10.4	0.0	3.8	15.3
43465	2106	1.1	10.4	0.0	3.8	15.3
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Appendix B-1-(S3B-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-3B (Berri Area)



Appendix B-1-(S3B-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-3B (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	22	343	0	3	367
1460	1884	21	349	0	0	370
10950	1910	22	350	0	35	407
12776	1915	23	350	0	39	412
14603	1920	24	350	0	42	416
15333	1922	25	350	0	43	417
16429	1925	25	350	0	45	420
18255	1930	85	350	0	47	482
20081	1935	119	350	0	49	518
21908	1940	136	350	0	51	537
23734	1945	151	350	0	53	555
25560	1950	166	351	0	56	573
27386	1955	181	351	0	59	592
28117	1957	187	352	0	60	599
28847	1959	193	352	0	61	606
29578	1961	200	352	0	62	614
30308	1963	208	352	0	63	624
31039	1965	220	353	0	65	637
31769	1967	231	353	0	66	650
32500	1969	242	353	0	67	663
33230	1971	254	354	0	69	676
33961	1973	265	354	0	70	689
34691	1975	275	354	0	72	701
35422	1977	273	355	0	73	701
36152	1979	276	355	0	74	706
36883	1981	281	355	0	76	712
37613	1983	287	356	0	77	720
38344	1985	293	356	0	79	728
39074	1987	300	356	0	80	736
365	1988	303	356	0	81	740
731	1989	306	356	0	82	744
1461	1991	312	356	0	83	751
2192	1993	317	357	0	85	758
2922	1995	323	357	0	86	765
3653	1997	328	357	0	87	772
4383	1999	330	357	0	89	776
4749	2000	331	357	0	89	777
5479	2002	333	357	0	91	781
6209	2004	335	357	0	92	785
6939	2006	338	357	0	94	789
7670	2008	340	357	0	95	793
8401	2010	343	357	0	96	797
9131	2012	345	357	0	98	800
9862	2014	347	358	0	99	804
10592	2016	350	358	0	100	808

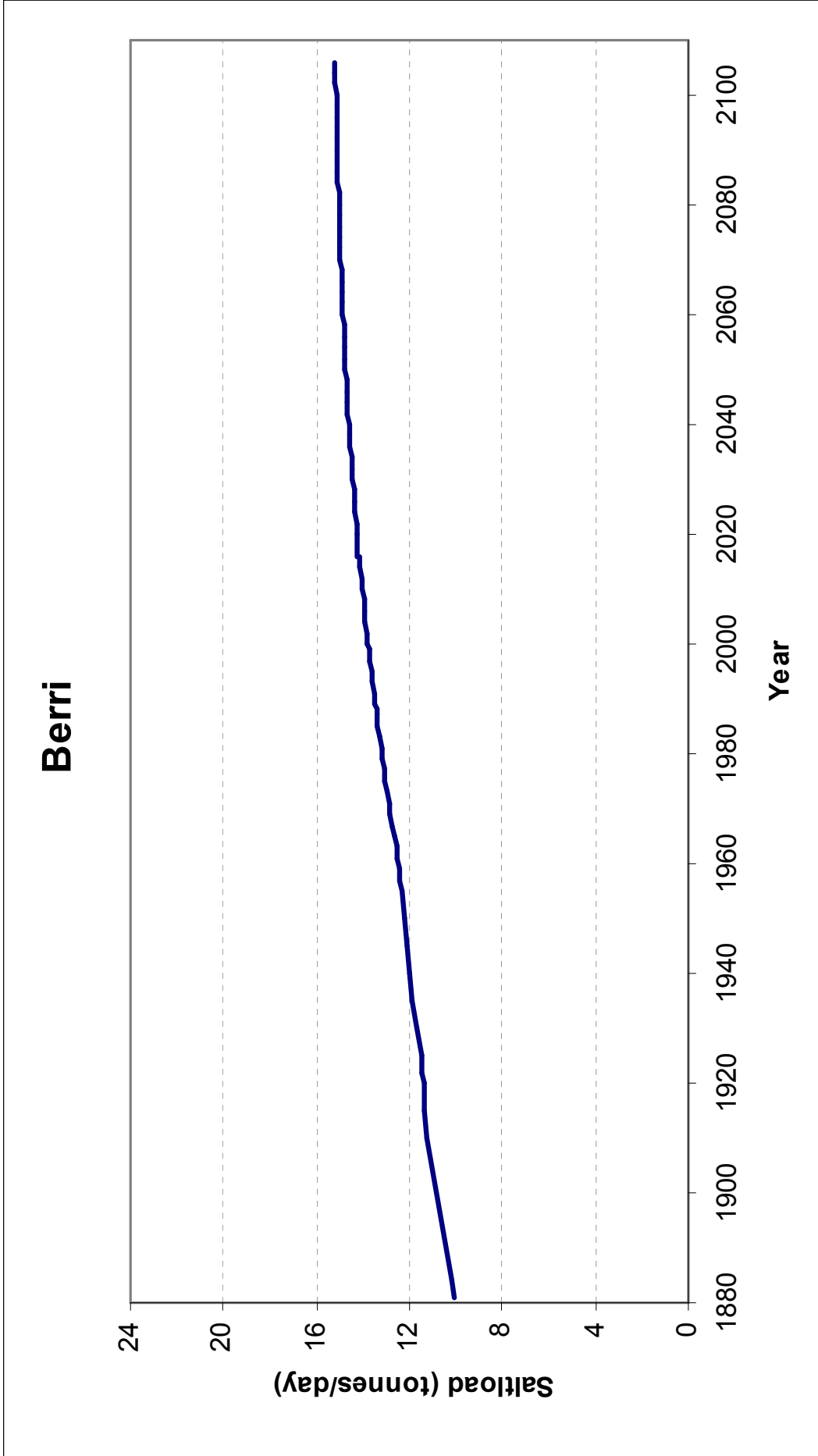
Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	352	358	0	102	811
12053	2020	354	358	0	103	814
12784	2022	355	358	0	104	817
13514	2024	357	358	0	105	820
14245	2026	359	358	0	107	823
14975	2028	360	358	0	108	825
15706	2030	361	358	0	109	828
16436	2032	363	358	0	110	830
17167	2034	364	358	0	111	833
17897	2036	365	358	0	112	835
18628	2038	366	358	0	113	837
19358	2040	367	358	0	114	839
20089	2042	368	358	0	115	841
20819	2044	369	358	0	116	843
21550	2046	370	358	0	117	844
22280	2048	371	358	0	118	846
23011	2050	371	358	0	119	848
23741	2052	372	358	0	119	849
24472	2054	373	358	0	120	851
25202	2056	373	358	0	121	852
25933	2058	374	358	0	122	853
26663	2060	374	358	0	122	855
27394	2062	375	358	0	123	856
28124	2064	375	358	0	124	857
28855	2066	376	358	0	124	858
29585	2068	376	358	0	125	859
30316	2070	377	358	0	126	860
31046	2072	377	358	0	126	861
31777	2074	377	358	0	127	862
32507	2076	378	358	0	127	863
33238	2078	378	358	0	128	864
33968	2080	379	358	0	128	865
34699	2082	379	358	0	129	866
35429	2084	379	358	0	129	866
36160	2086	380	358	0	130	867
36890	2088	380	358	0	130	868
37621	2090	380	358	0	131	869
38351	2092	380	358	0	131	869
39082	2094	381	358	0	131	870
39812	2096	381	358	0	132	871
40543	2098	381	358	0	132	871
41273	2100	382	358	0	132	872
42004	2102	382	358	0	133	872
42734	2104	382	358	0	133	873
43465	2106	382	358	0	133	873

Appendix B-1-(S3C-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-3C (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	0.1	10.0	0.0	0.1	10.1
1460	1884	0.1	10.1	0.0	0.0	10.2
10950	1910	0.1	10.1	0.0	1.0	11.2
12776	1915	0.1	10.1	0.0	1.1	11.3
14603	1920	0.1	10.2	0.0	1.2	11.4
15333	1922	0.1	10.2	0.0	1.2	11.4
16429	1925	0.1	10.2	0.0	1.3	11.5
18255	1930	0.2	10.2	0.0	1.3	11.7
20081	1935	0.3	10.2	0.0	1.4	11.9
21908	1940	0.4	10.2	0.0	1.4	12.0
23734	1945	0.4	10.2	0.0	1.5	12.1
25560	1950	0.5	10.2	0.0	1.6	12.2
27386	1955	0.5	10.2	0.0	1.6	12.3
28117	1957	0.5	10.2	0.0	1.7	12.4
28847	1959	0.5	10.2	0.0	1.7	12.5
29578	1961	0.5	10.2	0.0	1.7	12.5
30308	1963	0.6	10.2	0.0	1.8	12.6
31039	1965	0.6	10.2	0.0	1.8	12.7
31769	1967	0.6	10.2	0.0	1.9	12.7
32500	1969	0.7	10.3	0.0	1.9	12.8
33230	1971	0.7	10.3	0.0	1.9	12.9
33961	1973	0.7	10.3	0.0	2.0	13.0
34691	1975	0.8	10.3	0.0	2.0	13.1
35422	1977	0.7	10.3	0.0	2.1	13.1
36152	1979	0.8	10.3	0.0	2.1	13.2
36883	1981	0.8	10.3	0.0	2.1	13.2
37613	1983	0.8	10.3	0.0	2.2	13.3
38344	1985	0.8	10.3	0.0	2.2	13.3
39074	1987	0.8	10.3	0.0	2.3	13.4
365	1988	0.8	10.3	0.0	2.3	13.4
731	1989	0.8	10.3	0.0	2.3	13.5
1461	1991	0.9	10.3	0.0	2.3	13.5
2192	1993	0.9	10.4	0.0	2.4	13.6
2922	1995	0.9	10.4	0.0	2.4	13.7
3653	1997	0.9	10.4	0.0	2.5	13.7
4383	1999	0.9	10.4	0.0	2.5	13.8
4749	2000	0.9	10.4	0.0	2.5	13.8
5479	2002	0.9	10.4	0.0	2.6	13.8
6209	2004	0.9	10.4	0.0	2.6	13.9
6939	2006	0.9	10.4	0.0	2.6	13.9
7670	2008	0.9	10.4	0.0	2.7	14.0
8401	2010	0.9	10.4	0.0	2.7	14.0
9131	2012	0.9	10.4	0.0	2.7	14.1
9862	2014	0.9	10.4	0.0	2.8	14.1
10592	2016	1.0	10.4	0.0	2.8	14.2
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	1.0	10.4	0.0	2.9	14.2
12053	2020	1.0	10.4	0.0	2.9	14.2
12784	2022	1.0	10.4	0.0	2.9	14.3
13514	2024	1.0	10.4	0.0	3.0	14.3
14245	2026	1.0	10.4	0.0	3.0	14.4
14975	2028	1.0	10.4	0.0	3.0	14.4
15706	2030	1.0	10.4	0.0	3.1	14.4
16436	2032	1.0	10.4	0.0	3.1	14.5
17167	2034	1.0	10.4	0.0	3.1	14.5
17897	2036	1.0	10.4	0.0	3.2	14.5
18628	2038	1.0	10.4	0.0	3.2	14.6
19358	2040	1.0	10.4	0.0	3.2	14.6
20089	2042	1.0	10.4	0.0	3.2	14.6
20819	2044	1.0	10.4	0.0	3.3	14.7
21550	2046	1.0	10.4	0.0	3.3	14.7
22280	2048	1.0	10.4	0.0	3.3	14.7
23011	2050	1.0	10.4	0.0	3.3	14.7
23741	2052	1.0	10.4	0.0	3.4	14.8
24472	2054	1.0	10.4	0.0	3.4	14.8
25202	2056	1.0	10.4	0.0	3.4	14.8
25933	2058	1.0	10.4	0.0	3.4	14.8
26663	2060	1.0	10.4	0.0	3.4	14.9
27394	2062	1.0	10.4	0.0	3.5	14.9
28124	2064	1.0	10.4	0.0	3.5	14.9
28855	2066	1.0	10.4	0.0	3.5	14.9
29585	2068	1.0	10.4	0.0	3.5	14.9
30316	2070	1.0	10.4	0.0	3.5	15.0
31046	2072	1.0	10.4	0.0	3.5	15.0
31777	2074	1.0	10.4	0.0	3.6	15.0
32507	2076	1.0	10.4	0.0	3.6	15.0
33238	2078	1.0	10.4	0.0	3.6	15.0
33968	2080	1.0	10.4	0.0	3.6	15.0
34699	2082	1.0	10.4	0.0	3.6	15.0
35429	2084	1.0	10.4	0.0	3.6	15.1
36160	2086	1.0	10.4	0.0	3.6	15.1
36890	2088	1.0	10.4	0.0	3.7	15.1
37621	2090	1.0	10.4	0.0	3.7	15.1
38351	2092	1.0	10.4	0.0	3.7	15.1
39082	2094	1.0	10.4	0.0	3.7	15.1
39812	2096	1.0	10.4	0.0	3.7	15.1
40543	2098	1.0	10.4	0.0	3.7	15.1
41273	2100	1.0	10.4	0.0	3.7	15.2
42004	2102	1.0	10.4	0.0	3.7	15.2
42734	2104	1.0	10.4	0.0	3.7	15.2
43465	2106	1.0	10.4	0.0	3.7	15.2
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Appendix B-1-(S3C-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-3C (Berri Area)



Appendix B-1-(S3C-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-3C (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	22	343	0	3	367
1460	1884	21	349	0	0	370
10950	1910	22	350	0	35	407
12776	1915	23	350	0	39	412
14603	1920	24	350	0	42	416
15333	1922	25	350	0	43	417
16429	1925	25	350	0	45	420
18255	1930	85	350	0	47	482
20081	1935	119	350	0	49	518
21908	1940	136	350	0	51	537
23734	1945	151	350	0	53	555
25560	1950	166	351	0	56	573
27386	1955	181	351	0	59	592
28117	1957	187	352	0	60	599
28847	1959	193	352	0	61	606
29578	1961	200	352	0	62	614
30308	1963	208	352	0	63	624
31039	1965	220	353	0	65	637
31769	1967	231	353	0	66	650
32500	1969	242	353	0	67	663
33230	1971	254	354	0	69	676
33961	1973	265	354	0	70	689
34691	1975	275	354	0	72	701
35422	1977	273	355	0	73	701
36152	1979	276	355	0	74	706
36883	1981	281	355	0	76	712
37613	1983	287	356	0	77	720
38344	1985	293	356	0	79	728
39074	1987	300	356	0	80	736
365	1988	303	356	0	81	740
731	1989	306	356	0	82	744
1461	1991	312	356	0	83	751
2192	1993	351	357	0	85	792
2922	1995	362	357	0	86	804
3653	1997	376	357	0	87	820
4383	1999	378	357	0	89	824
4749	2000	380	357	0	89	826
5479	2002	383	357	0	91	831
6209	2004	387	357	0	92	837
6939	2006	390	357	0	94	841
7670	2008	393	358	0	95	846
8401	2010	396	358	0	96	850
9131	2012	399	358	0	98	854
9862	2014	401	358	0	99	858
10592	2016	404	358	0	100	862

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	406	358	0	102	866
12053	2020	408	358	0	103	869
12784	2022	410	358	0	104	873
13514	2024	412	358	0	106	876
14245	2026	414	358	0	107	879
14975	2028	416	358	0	108	882
15706	2030	418	358	0	109	885
16436	2032	419	358	0	110	888
17167	2034	421	358	0	111	890
17897	2036	422	358	0	112	893
18628	2038	424	358	0	113	895
19358	2040	425	358	0	114	898
20089	2042	426	358	0	116	900
20819	2044	428	358	0	117	902
21550	2046	429	358	0	117	905
22280	2048	430	358	0	118	907
23011	2050	431	358	0	119	909
23741	2052	432	358	0	120	911
24472	2054	433	358	0	121	912
25202	2056	434	358	0	122	914
25933	2058	435	358	0	123	916
26663	2060	436	358	0	124	918
27394	2062	437	358	0	124	919
28124	2064	437	358	0	125	921
28855	2066	438	359	0	126	922
29585	2068	439	359	0	127	924
30316	2070	440	359	0	127	925
31046	2072	440	359	0	128	927
31777	2074	441	359	0	129	928
32507	2076	441	359	0	129	929
33238	2078	442	359	0	130	930
33968	2080	443	359	0	130	932
34699	2082	443	359	0	131	933
35429	2084	444	359	0	131	934
36160	2086	444	359	0	132	935
36890	2088	445	359	0	132	936
37621	2090	445	359	0	133	937
38351	2092	446	359	0	133	938
39082	2094	446	359	0	134	939
39812	2096	447	359	0	134	940
40543	2098	447	359	0	135	941
41273	2100	448	359	0	135	942
42004	2102	448	359	0	136	943
42734	2104	449	359	0	136	943
43465	2106	449	359	0	136	944

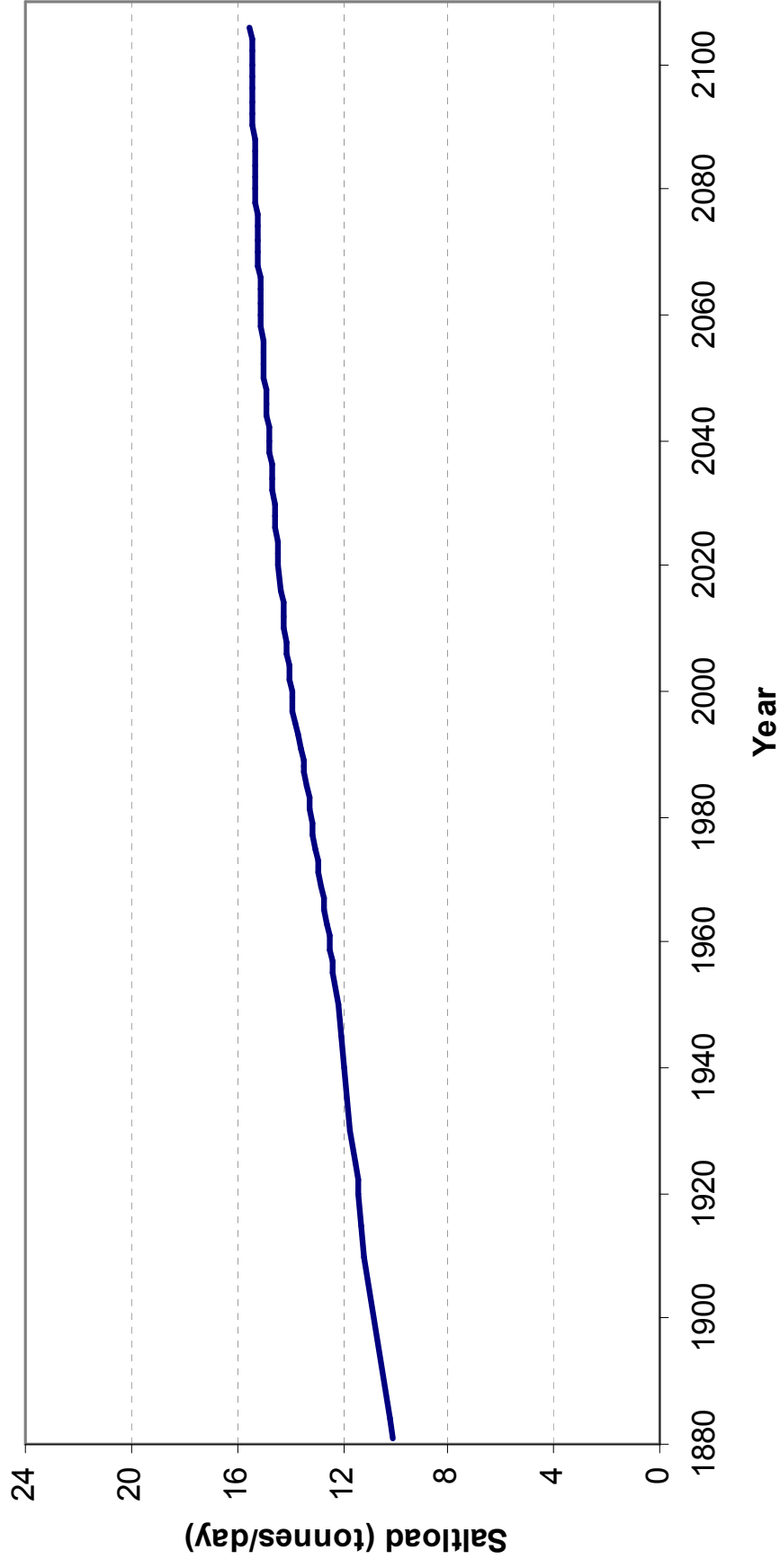
Appendix B-1-(S4-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-4 (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	0.1	10.0	0.0	0.1	10.1
1460	1884	0.1	10.1	0.0	0.0	10.2
10950	1910	0.1	10.1	0.0	1.0	11.2
12776	1915	0.1	10.1	0.0	1.1	11.3
14603	1920	0.1	10.2	0.0	1.2	11.4
15333	1922	0.1	10.2	0.0	1.2	11.4
16429	1925	0.1	10.2	0.0	1.3	11.5
18255	1930	0.2	10.2	0.0	1.3	11.7
20081	1935	0.3	10.2	0.0	1.4	11.9
21908	1940	0.4	10.2	0.0	1.4	12.0
23734	1945	0.4	10.2	0.0	1.5	12.1
25560	1950	0.5	10.2	0.0	1.6	12.2
27386	1955	0.5	10.2	0.0	1.6	12.3
28117	1957	0.5	10.2	0.0	1.7	12.4
28847	1959	0.5	10.2	0.0	1.7	12.5
29578	1961	0.5	10.2	0.0	1.7	12.5
30308	1963	0.6	10.2	0.0	1.8	12.6
31039	1965	0.6	10.2	0.0	1.8	12.7
31769	1967	0.6	10.2	0.0	1.9	12.7
32500	1969	0.7	10.3	0.0	1.9	12.8
33230	1971	0.7	10.3	0.0	1.9	12.9
33961	1973	0.7	10.3	0.0	2.0	13.0
34691	1975	0.8	10.3	0.0	2.0	13.1
35422	1977	0.7	10.3	0.0	2.1	13.1
36152	1979	0.8	10.3	0.0	2.1	13.2
36883	1981	0.8	10.3	0.0	2.1	13.2
37613	1983	0.8	10.3	0.0	2.2	13.3
38344	1985	0.8	10.3	0.0	2.2	13.3
39074	1987	0.8	10.3	0.0	2.3	13.4
365	1988	0.8	10.3	0.0	2.3	13.4
731	1989	0.8	10.3	0.0	2.3	13.5
1461	1991	0.9	10.3	0.0	2.3	13.5
2192	1993	1.0	10.4	0.0	2.4	13.7
2922	1995	1.0	10.4	0.0	2.4	13.8
3653	1997	1.0	10.4	0.0	2.5	13.8
4383	1999	1.0	10.4	0.0	2.5	13.9
4749	2000	1.0	10.4	0.0	2.5	13.9
5479	2002	1.0	10.4	0.0	2.6	14.0
6209	2004	1.1	10.4	0.0	2.6	14.0
6939	2006	1.1	10.4	0.0	2.6	14.1
7670	2008	1.1	10.4	0.0	2.7	14.1
8401	2010	1.1	10.4	0.0	2.7	14.2
9131	2012	1.1	10.4	0.0	2.7	14.2
9862	2014	1.1	10.4	0.0	2.8	14.3
10592	2016	1.1	10.4	0.0	2.8	14.3
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	1.1	10.4	0.0	2.9	14.4
12053	2020	1.1	10.4	0.0	2.9	14.4
12784	2022	1.1	10.4	0.0	2.9	14.4
13514	2024	1.1	10.4	0.0	3.0	14.5
14245	2026	1.1	10.4	0.0	3.0	14.5
14975	2028	1.1	10.4	0.0	3.0	14.6
15706	2030	1.1	10.4	0.0	3.1	14.6
16436	2032	1.1	10.4	0.0	3.1	14.6
17167	2034	1.1	10.4	0.0	3.1	14.7
17897	2036	1.2	10.4	0.0	3.2	14.7
18628	2038	1.2	10.4	0.0	3.2	14.7
19358	2040	1.2	10.4	0.0	3.2	14.8
20089	2042	1.2	10.4	0.0	3.2	14.8
20819	2044	1.2	10.4	0.0	3.3	14.8
21550	2046	1.2	10.4	0.0	3.3	14.9
22280	2048	1.2	10.4	0.0	3.3	14.9
23011	2050	1.2	10.4	0.0	3.4	14.9
23741	2052	1.2	10.4	0.0	3.4	15.0
24472	2054	1.2	10.4	0.0	3.4	15.0
25202	2056	1.2	10.4	0.0	3.4	15.0
25933	2058	1.2	10.4	0.0	3.5	15.0
26663	2060	1.2	10.4	0.0	3.5	15.1
27394	2062	1.2	10.4	0.0	3.5	15.1
28124	2064	1.2	10.4	0.0	3.5	15.1
28855	2066	1.2	10.4	0.0	3.5	15.1
29585	2068	1.2	10.4	0.0	3.6	15.2
30316	2070	1.2	10.4	0.0	3.6	15.2
31046	2072	1.2	10.4	0.0	3.6	15.2
31777	2074	1.2	10.4	0.0	3.6	15.2
32507	2076	1.2	10.4	0.0	3.6	15.2
33238	2078	1.2	10.4	0.0	3.6	15.3
33968	2080	1.2	10.4	0.0	3.7	15.3
34699	2082	1.2	10.4	0.0	3.7	15.3
35429	2084	1.2	10.4	0.0	3.7	15.3
36160	2086	1.2	10.4	0.0	3.7	15.3
36890	2088	1.2	10.4	0.0	3.7	15.4
37621	2090	1.2	10.4	0.0	3.7	15.4
38351	2092	1.2	10.4	0.0	3.8	15.4
39082	2094	1.2	10.4	0.0	3.8	15.4
39812	2096	1.2	10.4	0.0	3.8	15.4
40543	2098	1.2	10.4	0.0	3.8	15.4
41273	2100	1.2	10.4	0.0	3.8	15.4
42004	2102	1.2	10.4	0.0	3.8	15.5
42734	2104	1.2	10.4	0.0	3.8	15.5
43465	2106	1.2	10.4	0.0	3.8	15.5
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Appendix B-1-(S4-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-4 (Berri Area)

# Berri



Appendix B-1-(S4-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-4 (Berri Area)



Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	22	343	0	3	367
1460	1884	21	349	0	0	370
10950	1910	22	350	0	35	407
12776	1915	23	350	0	39	412
14603	1920	24	350	0	42	416
15333	1922	25	350	0	43	417
16429	1925	25	350	0	45	420
18255	1930	85	350	0	47	482
20081	1935	119	350	0	49	518
21908	1940	136	350	0	51	537
23734	1945	151	350	0	53	555
25560	1950	166	351	0	56	573
27386	1955	181	351	0	59	592
28117	1957	187	352	0	60	599
28847	1959	193	352	0	61	606
29578	1961	200	352	0	62	614
30308	1963	208	352	0	63	624
31039	1965	220	353	0	65	637
31769	1967	231	353	0	66	650
32500	1969	242	353	0	67	663
33230	1971	254	354	0	69	676
33961	1973	265	354	0	70	689
34691	1975	275	354	0	72	701
35422	1977	273	355	0	73	701
36152	1979	276	355	0	74	706
36883	1981	281	355	0	76	712
37613	1983	287	356	0	77	720
38344	1985	293	356	0	79	728
39074	1987	300	356	0	80	736
365	1988	303	356	0	81	740
731	1989	306	356	0	82	744
1461	1991	312	356	0	83	751
2192	1993	351	357	0	85	792
2922	1995	362	357	0	86	804
3653	1997	376	357	0	87	820
4383	1999	378	357	0	89	824
4749	2000	380	357	0	89	826
5479	2002	383	357	0	91	831
6209	2004	387	357	0	92	837
6939	2006	390	357	0	94	841
7670	2008	393	358	0	95	846
8401	2010	396	358	0	96	850
9131	2012	399	358	0	98	854
9862	2014	401	358	0	99	858
10592	2016	404	358	0	100	862

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	406	358	0	102	866
12053	2020	408	358	0	103	869
12784	2022	410	358	0	104	873
13514	2024	412	358	0	106	876
14245	2026	414	358	0	107	879
14975	2028	416	358	0	108	882
15706	2030	418	358	0	109	885
16436	2032	419	358	0	110	888
17167	2034	421	358	0	111	890
17897	2036	423	358	0	112	893
18628	2038	424	358	0	113	896
19358	2040	425	358	0	114	898
20089	2042	427	358	0	116	901
20819	2044	428	358	0	116	903
21550	2046	429	358	0	117	905
22280	2048	431	358	0	118	907
23011	2050	432	358	0	119	909
23741	2052	433	358	0	120	911
24472	2054	434	358	0	121	913
25202	2056	435	358	0	122	915
25933	2058	436	358	0	123	917
26663	2060	437	358	0	124	919
27394	2062	438	358	0	124	921
28124	2064	439	358	0	125	923
28855	2066	440	359	0	126	924
29585	2068	441	359	0	127	926
30316	2070	442	359	0	127	928
31046	2072	443	359	0	128	930
31777	2074	444	359	0	129	931
32507	2076	445	359	0	129	933
33238	2078	446	359	0	130	934
33968	2080	447	359	0	130	936
34699	2082	448	359	0	131	938
35429	2084	449	359	0	131	939
36160	2086	450	359	0	132	941
36890	2088	451	359	0	133	942
37621	2090	452	359	0	133	944
38351	2092	453	359	0	133	945
39082	2094	454	359	0	134	947
39812	2096	455	359	0	134	948
40543	2098	456	359	0	135	950
41273	2100	457	359	0	135	951
42004	2102	458	359	0	136	953
42734	2104	459	359	0	136	954
43465	2106	460	359	0	136	956

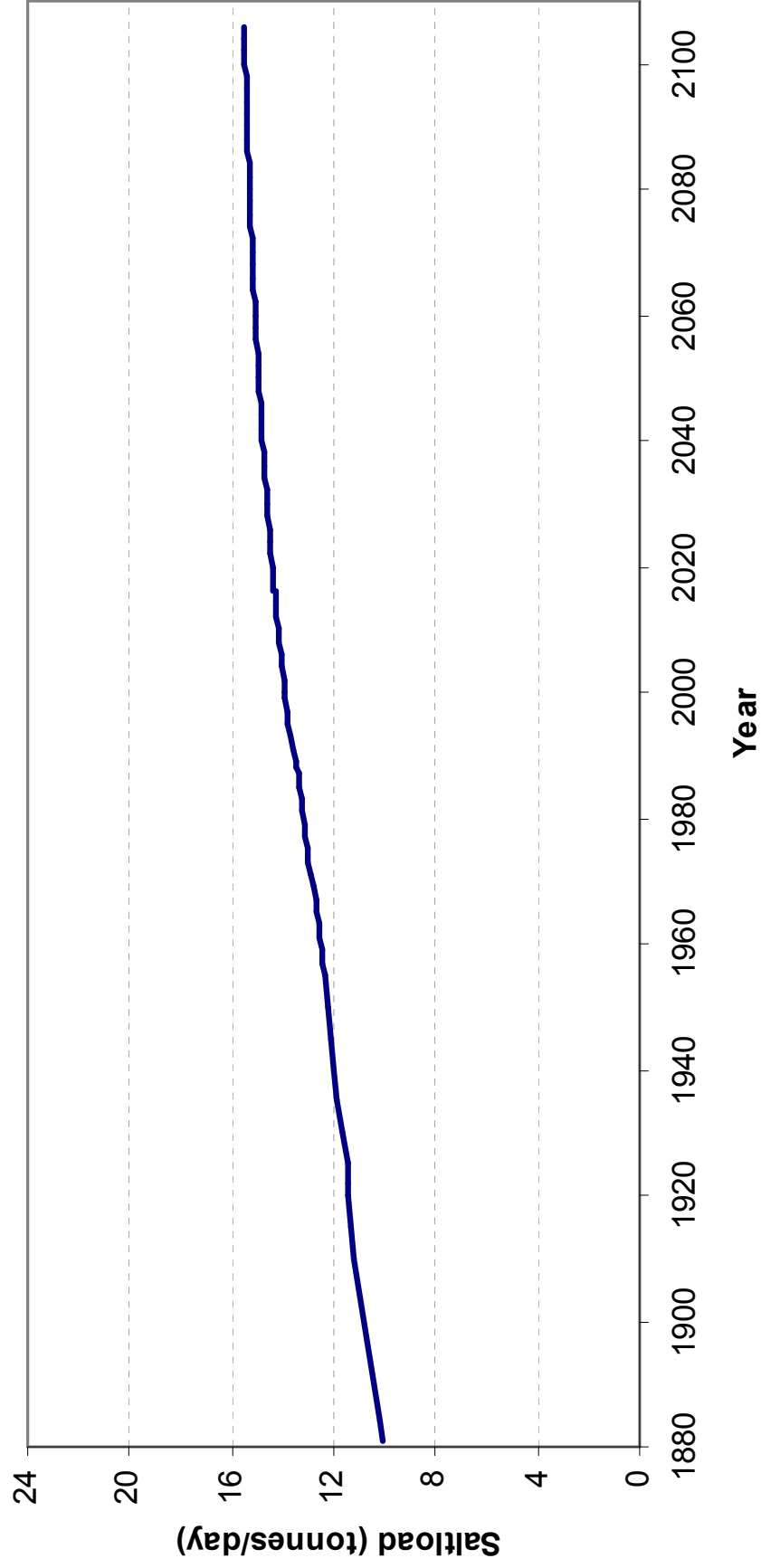
Appendix B-1-(S5-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-5 (Berri Area)

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
365	1881	0.1	10.0	0.0	0.1	10.1
1460	1884	0.1	10.1	0.0	0.0	10.2
10950	1910	0.1	10.1	0.0	1.0	11.2
12776	1915	0.1	10.1	0.0	1.1	11.3
14603	1920	0.1	10.2	0.0	1.2	11.4
15333	1922	0.1	10.2	0.0	1.2	11.4
16429	1925	0.1	10.2	0.0	1.3	11.5
18255	1930	0.2	10.2	0.0	1.3	11.7
20081	1935	0.3	10.2	0.0	1.4	11.9
21908	1940	0.4	10.2	0.0	1.4	12.0
23734	1945	0.4	10.2	0.0	1.5	12.1
25560	1950	0.5	10.2	0.0	1.6	12.2
27386	1955	0.5	10.2	0.0	1.6	12.3
28117	1957	0.5	10.2	0.0	1.7	12.4
28847	1959	0.5	10.2	0.0	1.7	12.5
29578	1961	0.5	10.2	0.0	1.7	12.5
30308	1963	0.6	10.2	0.0	1.8	12.6
31039	1965	0.6	10.2	0.0	1.8	12.7
31769	1967	0.6	10.2	0.0	1.9	12.7
32500	1969	0.7	10.3	0.0	1.9	12.8
33230	1971	0.7	10.3	0.0	1.9	12.9
33961	1973	0.7	10.3	0.0	2.0	13.0
34691	1975	0.8	10.3	0.0	2.0	13.1
35422	1977	0.7	10.3	0.0	2.1	13.1
36152	1979	0.8	10.3	0.0	2.1	13.2
36883	1981	0.8	10.3	0.0	2.1	13.2
37613	1983	0.8	10.3	0.0	2.2	13.3
38344	1985	0.8	10.3	0.0	2.2	13.3
39074	1987	0.8	10.3	0.0	2.3	13.4
365	1988	0.8	10.3	0.0	2.3	13.4
731	1989	0.8	10.3	0.0	2.3	13.5
1461	1991	0.9	10.3	0.0	2.3	13.5
2192	1993	1.0	10.4	0.0	2.4	13.7
2922	1995	1.0	10.4	0.0	2.4	13.8
3653	1997	1.0	10.4	0.0	2.5	13.8
4383	1999	1.0	10.4	0.0	2.5	13.9
4749	2000	1.0	10.4	0.0	2.5	13.9
5479	2002	1.0	10.4	0.0	2.6	14.0
6209	2004	1.1	10.4	0.0	2.6	14.0
6939	2006	1.1	10.4	0.0	2.6	14.1
7670	2008	1.1	10.4	0.0	2.7	14.1
8401	2010	1.1	10.4	0.0	2.7	14.2
9131	2012	1.1	10.4	0.0	2.7	14.2
9862	2014	1.1	10.4	0.0	2.8	14.3
10592	2016	1.1	10.4	0.0	2.8	14.3
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Day	Year	Z2 to Z11	Z2 to Z12	Z2 to Z13	Z2 to Z14	Total
11323	2018	1.1	10.4	0.0	2.9	14.4
12053	2020	1.1	10.4	0.0	2.9	14.4
12784	2022	1.1	10.4	0.0	2.9	14.4
13514	2024	1.1	10.4	0.0	3.0	14.5
14245	2026	1.1	10.4	0.0	3.0	14.5
14975	2028	1.1	10.4	0.0	3.0	14.6
15706	2030	1.1	10.4	0.0	3.1	14.6
16436	2032	1.1	10.4	0.0	3.1	14.6
17167	2034	1.1	10.4	0.0	3.1	14.7
17897	2036	1.2	10.4	0.0	3.2	14.7
18628	2038	1.2	10.4	0.0	3.2	14.7
19358	2040	1.2	10.4	0.0	3.2	14.8
20089	2042	1.2	10.4	0.0	3.2	14.8
20819	2044	1.2	10.4	0.0	3.3	14.8
21550	2046	1.2	10.4	0.0	3.3	14.9
22280	2048	1.2	10.4	0.0	3.3	14.9
23011	2050	1.2	10.4	0.0	3.4	14.9
23741	2052	1.2	10.4	0.0	3.4	15.0
24472	2054	1.2	10.4	0.0	3.4	15.0
25202	2056	1.2	10.4	0.0	3.4	15.0
25933	2058	1.2	10.4	0.0	3.5	15.0
26663	2060	1.2	10.4	0.0	3.5	15.1
27394	2062	1.2	10.4	0.0	3.5	15.1
28124	2064	1.2	10.4	0.0	3.5	15.1
28855	2066	1.2	10.4	0.0	3.5	15.1
29585	2068	1.2	10.4	0.0	3.6	15.2
30316	2070	1.2	10.4	0.0	3.6	15.2
31046	2072	1.2	10.4	0.0	3.6	15.2
31777	2074	1.2	10.4	0.0	3.6	15.2
32507	2076	1.2	10.4	0.0	3.6	15.3
33238	2078	1.2	10.4	0.0	3.6	15.3
33968	2080	1.2	10.4	0.0	3.7	15.3
34699	2082	1.2	10.4	0.0	3.7	15.3
35429	2084	1.2	10.4	0.0	3.7	15.3
36160	2086	1.2	10.4	0.0	3.7	15.4
36890	2088	1.2	10.4	0.0	3.7	15.4
37621	2090	1.2	10.4	0.0	3.7	15.4
38351	2092	1.2	10.4	0.0	3.8	15.4
39082	2094	1.2	10.4	0.0	3.8	15.4
39812	2096	1.2	10.4	0.0	3.8	15.4
40543	2098	1.2	10.4	0.0	3.8	15.5
41273	2100	1.2	10.4	0.0	3.8	15.5
42004	2102	1.3	10.4	0.0	3.8	15.5
42734	2104	1.3	10.4	0.0	3.8	15.5
43465	2106	1.3	10.4	0.0	3.8	15.5
<b>Salinity (mg/L)</b>		<b>2,729</b>	<b>29,037</b>	<b>25,000</b>	<b>28,117</b>	

Appendix B-1-(S5-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-5 (Berri Area)

# Berri



Appendix B-1-(S5-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-5 (Berri Area)

# Appendix B-2

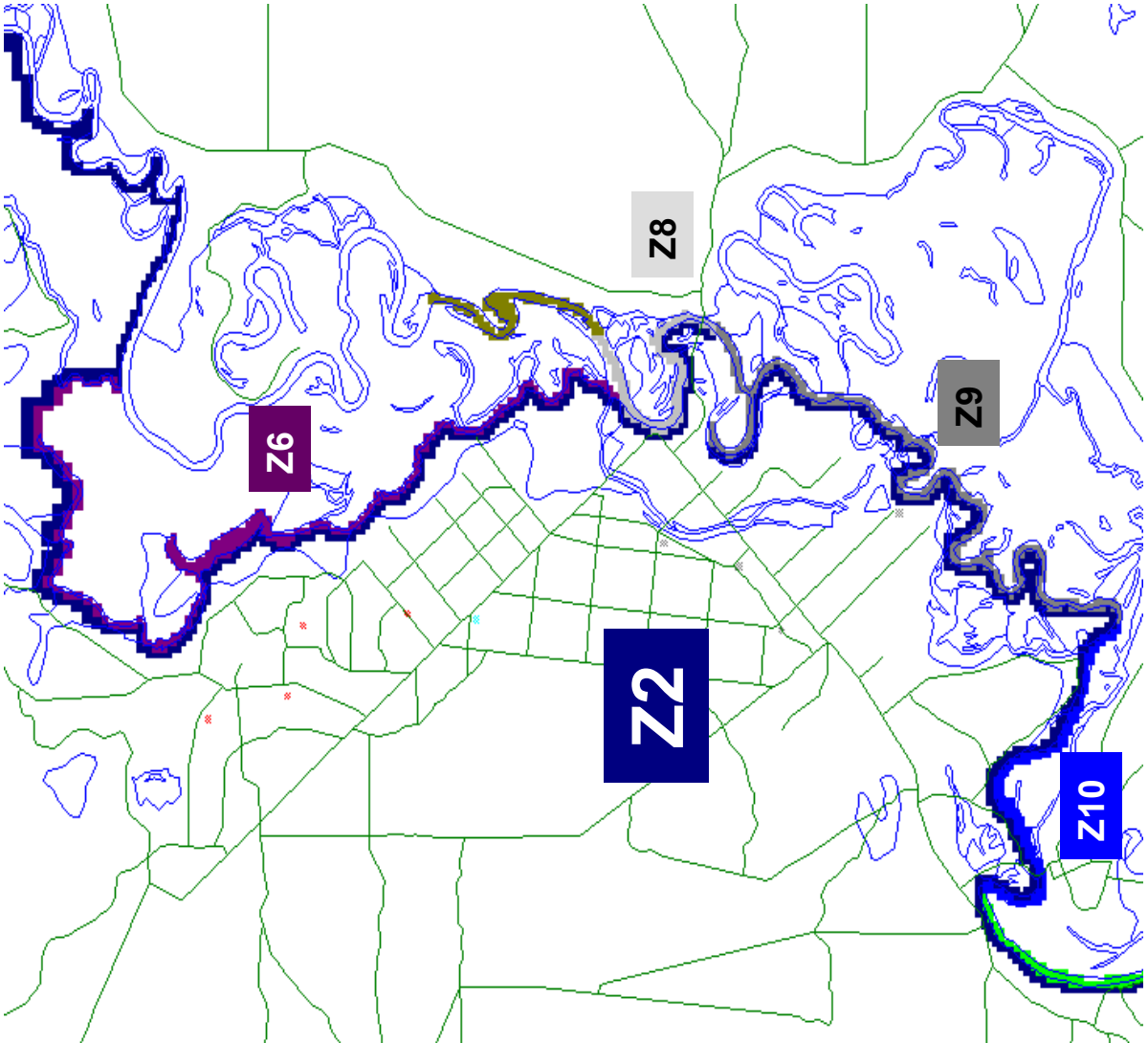
## Model Output - Renmark Area

- Flow budget zones
- Modelled groundwater flux (m<sup>3</sup>/day)
- Modelled Salt load (tonnes/day)

(All Scenarios)

Scenario	Name	Model Run	Irrigation development area	IIP1	RH <sup>2</sup>	SIS <sup>3</sup>
S-1	Natural system	Steady State	None	-	-	-
S-2	Mallee clearance	1920 – 2105	None (but includes Mallee clearance area)	-	-	-
S-3A	Pre-1988, no IIP, no RH	1988 – 2105	Pre-1988	No	No	-
S-3B	Pre-1988, with IIP, no RH	1988 – 2105	Pre-1988	Yes	No	-
S-3C	Pre-1988, with IIP and with RH	1988 – 2105	Pre-1988	Yes	Yes	-
S-4	Current irrigation	2005 – 2105	Pre-1988 + Post-1988	Yes	Yes	No
S-5	Current plus future irrigation	2005 – 2105	Pre-1988 + Post-1988 + Future development	Yes	Yes	No
1 Improved Irrigation Practices		2 Rehabilitation	3 Salt Interception Scheme			

**Appendix B-2: Model Scenario conditions**



Appendix B-2: Model flow budget zones in the Renmark Area (layer 1)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1921	344	0	525	88	956
3650	1930	344	0	529	89	961
7300	1940	325	0	532	89	946
10950	1950	323	0	537	91	951
14600	1960	325	0	542	95	961
18250	1970	330	0	547	99	976
21900	1980	335	0	552	104	991
24820	1988	339	0	556	108	1003
25186	1989	339	0	556	109	1005
25550	1990	340	0	557	109	1006
25916	1991	340	0	557	110	1007
26647	1993	341	0	558	111	1010
27377	1995	342	0	559	112	1013
28108	1997	342	0	560	113	1015
28838	1999	343	0	561	114	1018
29200	2000	343	0	561	114	1019
29431	2001	343	0	561	115	1019
29934	2002	344	0	562	115	1021
30664	2004	344	0	563	117	1024
31394	2006	345	0	563	118	1026
32125	2008	345	0	564	118	1028
32850	2010	346	0	565	119	1030
33586	2012	346	0	566	120	1032
34317	2014	347	0	566	121	1035
35047	2016	347	0	567	122	1037
35778	2018	348	0	568	123	1039
36500	2020	348	0	568	124	1041
37239	2022	349	0	569	125	1043
37969	2024	349	0	570	126	1045
38700	2026	349	0	570	127	1047
39430	2028	350	0	571	128	1049
40150	2030	350	0	572	129	1051
40891	2032	351	0	572	130	1053
41622	2034	351	0	573	131	1056
42352	2036	352	0	574	133	1058

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
43083	2038	352	0	574	134	1060
43465	2039	353	0	575	134	1061
43800	2040	353	0	575	135	1063
44544	2042	364	0	576	136	1076
45274	2044	378	0	577	137	1091
46005	2046	395	0	577	138	1110
46735	2048	418	0	578	139	1136
47450	2050	444	0	579	141	1163
48196	2052	472	0	579	142	1193
48927	2054	502	0	580	143	1226
49657	2056	530	0	581	145	1255
50388	2058	552	0	582	146	1280
51100	2060	571	0	582	147	1300
51849	2062	588	0	583	149	1320
52579	2064	602	0	584	150	1337
53310	2066	615	0	585	152	1351
54040	2068	625	0	586	154	1364
54750	2070	634	0	586	155	1376
55501	2072	644	0	587	157	1388
56232	2074	653	0	588	158	1399
56962	2076	660	0	589	160	1409
57693	2078	667	0	590	162	1419
58400	2080	673	0	591	163	1427
59154	2082	681	0	592	165	1437
59884	2084	687	0	592	167	1446
60615	2086	693	0	593	168	1454
61345	2088	698	0	594	170	1462
62050	2090	703	0	595	172	1469
62806	2092	709	0	596	173	1478
63537	2094	714	0	597	175	1486
64267	2096	719	0	598	177	1493
64998	2098	723	0	598	178	1500
65700	2100	727	0	599	180	1507
66459	2102	733	0	600	182	1514
67189	2104	737	0	601	183	1521
67920	2106	741	0	602	185	1528

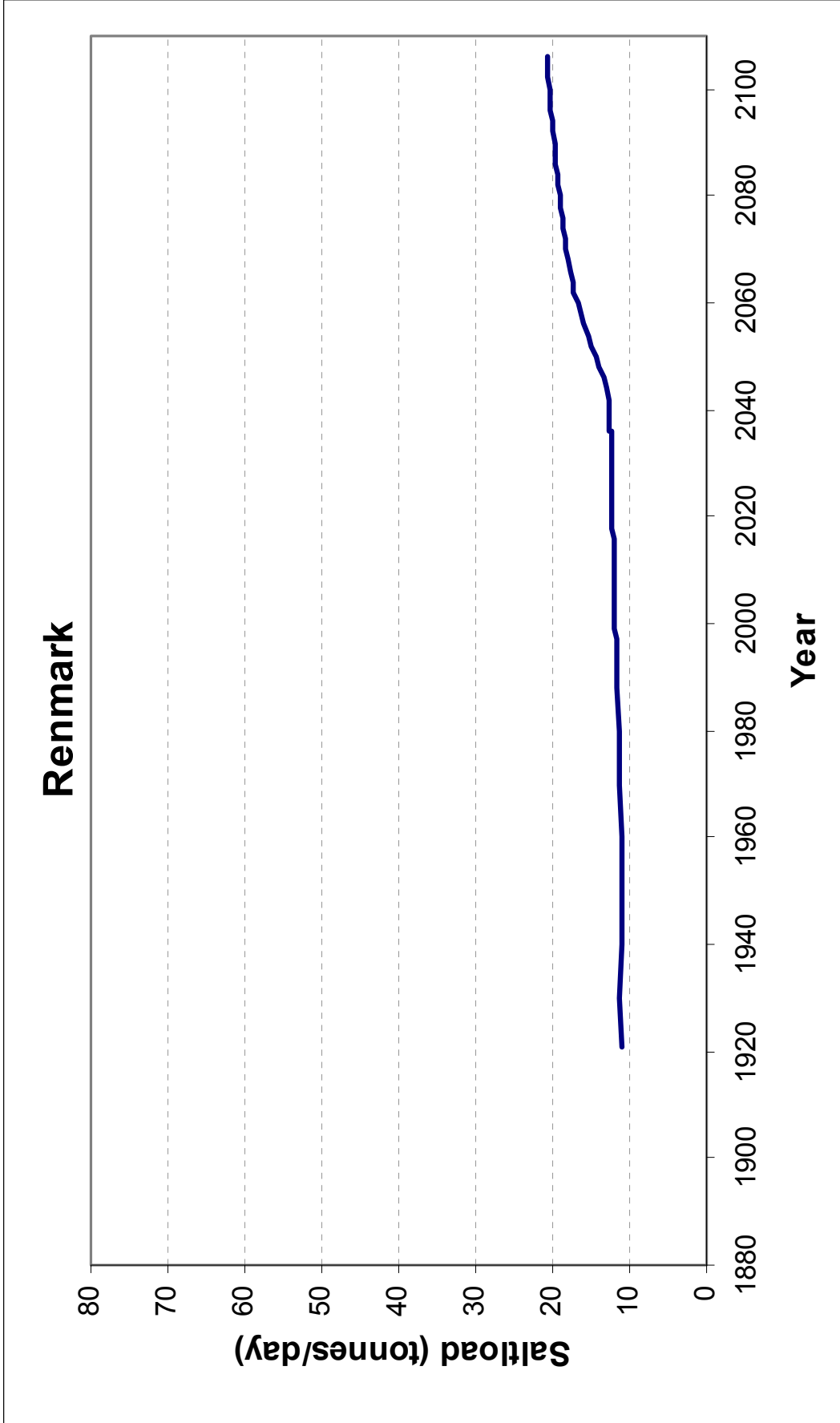
Appendix B-2-(S2-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-2 (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1921	6.3	0.0	3.1	1.2	10.6
3650	1930	6.3	0.0	3.1	1.2	10.7
7300	1940	6.0	0.0	3.2	1.2	10.3
10950	1950	5.9	0.0	3.2	1.2	10.4
14600	1960	6.0	0.0	3.2	1.3	10.5
18250	1970	6.1	0.0	3.2	1.3	10.6
21900	1980	6.2	0.0	3.3	1.4	10.8
24820	1988	6.2	0.0	3.3	1.5	11.0
25186	1989	6.2	0.0	3.3	1.5	11.0
25550	1990	6.2	0.0	3.3	1.5	11.0
25916	1991	6.2	0.0	3.3	1.5	11.0
26647	1993	6.3	0.0	3.3	1.5	11.1
27377	1995	6.3	0.0	3.3	1.5	11.1
28108	1997	6.3	0.0	3.3	1.5	11.1
28838	1999	6.3	0.0	3.3	1.6	11.2
29200	2000	6.3	0.0	3.3	1.6	11.2
29431	2001	6.3	0.0	3.3	1.6	11.2
29934	2002	6.3	0.0	3.3	1.6	11.2
30664	2004	6.3	0.0	3.3	1.6	11.3
31394	2006	6.3	0.0	3.3	1.6	11.3
32125	2008	6.3	0.0	3.3	1.6	11.3
32850	2010	6.4	0.0	3.4	1.6	11.3
33586	2012	6.4	0.0	3.4	1.6	11.4
34317	2014	6.4	0.0	3.4	1.7	11.4
35047	2016	6.4	0.0	3.4	1.7	11.4
35778	2018	6.4	0.0	3.4	1.7	11.4
36500	2020	6.4	0.0	3.4	1.7	11.5
37239	2022	6.4	0.0	3.4	1.7	11.5
37969	2024	6.4	0.0	3.4	1.7	11.5
38700	2026	6.4	0.0	3.4	1.7	11.5
39430	2028	6.4	0.0	3.4	1.7	11.6
40150	2030	6.4	0.0	3.4	1.8	11.6
40891	2032	6.4	0.0	3.4	1.8	11.6
41622	2034	6.4	0.0	3.4	1.8	11.6
42352	2036	6.5	0.0	3.4	1.8	11.7
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
43083	2038	6.5	0.0	3.4	1.8	11.7
43465	2039	6.5	0.0	3.4	1.8	11.7
43800	2040	6.5	0.0	3.4	1.8	11.7
44544	2042	6.7	0.0	3.4	1.9	12.0
45274	2044	6.9	0.0	3.4	1.9	12.2
46005	2046	7.3	0.0	3.4	1.9	12.6
46735	2048	7.7	0.0	3.4	1.9	13.0
47450	2050	8.2	0.0	3.4	1.9	13.5
48196	2052	8.7	0.0	3.4	1.9	14.0
48927	2054	9.2	0.0	3.4	2.0	14.6
49657	2056	9.7	0.0	3.4	2.0	15.1
50388	2058	10.1	0.0	3.4	2.0	15.6
51100	2060	10.5	0.0	3.5	2.0	15.9
51849	2062	10.8	0.0	3.5	2.0	16.3
52579	2064	11.1	0.0	3.5	2.1	16.6
53310	2066	11.3	0.0	3.5	2.1	16.8
54040	2068	11.5	0.0	3.5	2.1	17.0
54750	2070	11.6	0.0	3.5	2.1	17.2
55501	2072	11.8	0.0	3.5	2.1	17.5
56232	2074	12.0	0.0	3.5	2.2	17.6
56962	2076	12.1	0.0	3.5	2.2	17.8
57693	2078	12.3	0.0	3.5	2.2	18.0
58400	2080	12.4	0.0	3.5	2.2	18.1
59154	2082	12.5	0.0	3.5	2.2	18.3
59884	2084	12.6	0.0	3.5	2.3	18.4
60615	2086	12.7	0.0	3.5	2.3	18.5
61345	2088	12.8	0.0	3.5	2.3	18.7
62050	2090	12.9	0.0	3.5	2.3	18.8
62806	2092	13.0	0.0	3.5	2.4	18.9
63537	2094	13.1	0.0	3.5	2.4	19.0
64267	2096	13.2	0.0	3.5	2.4	19.2
64998	2098	13.3	0.0	3.5	2.4	19.3
65700	2100	13.4	0.0	3.6	2.5	19.4
66459	2102	13.5	0.0	3.6	2.5	19.5
67189	2104	13.5	0.0	3.6	2.5	19.6
67920	2106	13.6	0.0	3.6	2.5	19.7
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Appendix B-2-(S2-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-2 (Renmark Area)





Appendix B-2-(S2-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-2 (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	727	0	525	31	1283
1460	1884	1234	0	676	24	1934
10950	1910	2216	0	1216	100	3532
12776	1915	2244	0	1236	108	3588
14603	1920	2272	0	1249	113	3634
15333	1922	2654	0	1252	115	4021
16429	1925	2960	0	1256	117	4333
18255	1930	3123	0	1262	120	4505
20081	1935	3183	0	1267	122	4572
21908	1940	3212	0	1271	125	4608
23734	1945	2560	0	1161	121	3842
25560	1950	2584	0	1116	112	3812
27386	1955	2657	0	1100	105	3863
28117	1957	2678	0	1096	104	3878
28847	1959	2693	0	1094	103	3889
29578	1961	2857	0	1092	102	4050
30308	1963	2904	0	1091	101	4095
31039	1965	2927	0	1090	101	4117
31769	1967	2942	0	1089	101	4131
32500	1969	2951	0	1088	101	4140
33230	1971	2959	0	1088	101	4147
33961	1973	2964	0	1088	101	4152
34691	1975	2969	0	1088	101	4157
35422	1977	2972	0	1088	101	4161
36152	1979	2998	0	1092	102	4191
36883	1981	3021	0	1101	102	4223
37613	1983	2951	0	1094	103	4148
38344	1985	2909	0	1088	103	4100
39074	1987	2999	0	1767	104	4869
365	1988	3008	0	1919	105	5032
731	1989	2993	0	1931	106	5031
1461	1991	2986	0	1943	109	5038
2192	1993	2986	0	1949	111	5046
2922	1995	2987	0	1953	112	5052
3653	1997	2988	0	1955	113	5056
4383	1999	2989	0	1956	114	5060
4749	2000	2990	0	1957	114	5061
5479	2002	2991	0	1958	115	5063
6209	2004	2991	0	1959	116	5065
6939	2006	2992	0	1959	116	5067
7670	2008	2993	0	1960	116	5068
8401	2010	2993	0	1960	117	5070
9131	2012	2994	0	1960	117	5071
9862	2014	2994	0	1961	117	5072
10592	2016	2995	0	1961	117	5073

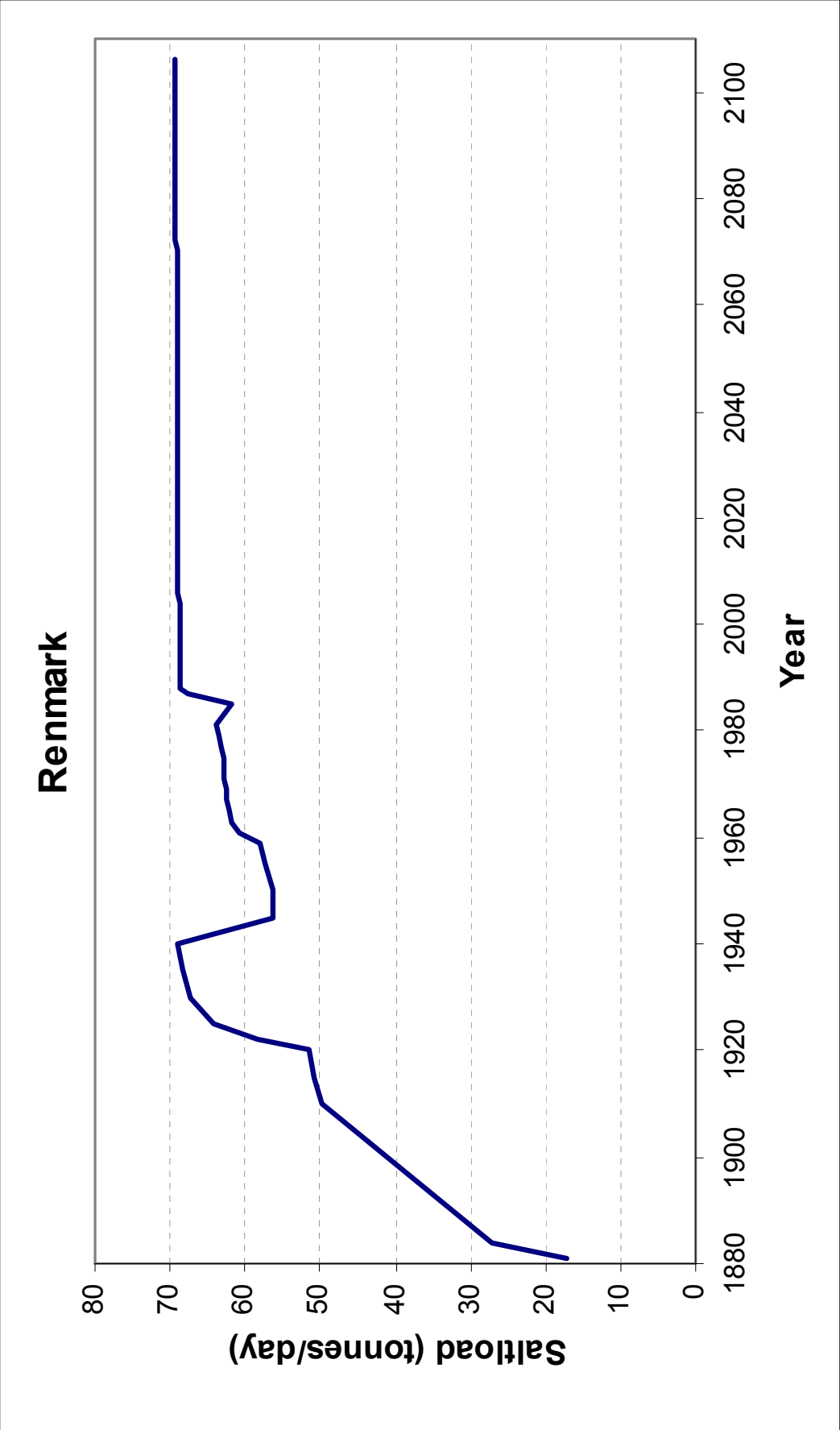
Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	2995	0	1961	118	5074
12053	2020	2996	0	1962	118	5075
12784	2022	2996	0	1962	118	5076
13514	2024	2996	0	1962	118	5077
14245	2026	2997	0	1962	119	5077
14975	2028	2997	0	1963	119	5078
15706	2030	2997	0	1963	119	5079
16436	2032	2998	0	1963	119	5080
17167	2034	2998	0	1963	119	5080
17897	2036	2998	0	1963	120	5081
18628	2038	2998	0	1964	120	5082
19358	2040	2999	0	1964	120	5082
20089	2042	2999	0	1964	120	5083
20819	2044	2999	0	1964	120	5083
21550	2046	2999	0	1964	120	5084
22280	2048	3000	0	1965	121	5085
23011	2050	3000	0	1965	121	5085
23741	2052	3000	0	1965	121	5086
24472	2054	3000	0	1965	121	5086
25202	2056	3000	0	1965	121	5087
25933	2058	3001	0	1965	121	5087
26663	2060	3001	0	1966	121	5088
27394	2062	3001	0	1966	122	5088
28124	2064	3001	0	1966	122	5089
28855	2066	3001	0	1966	122	5089
29585	2068	3002	0	1966	122	5090
30316	2070	3002	0	1966	122	5090
31046	2072	3002	0	1967	122	5090
31777	2074	3002	0	1967	122	5091
32507	2076	3002	0	1967	122	5091
33238	2078	3002	0	1967	122	5092
33968	2080	3003	0	1967	123	5092
34699	2082	3003	0	1967	123	5092
35429	2084	3003	0	1967	123	5093
36160	2086	3003	0	1967	123	5093
36890	2088	3003	0	1968	123	5094
37621	2090	3003	0	1968	123	5094
38351	2092	3003	0	1968	123	5094
39082	2094	3004	0	1968	123	5095
39812	2096	3004	0	1968	123	5095
40543	2098	3004	0	1968	123	5095
41273	2100	3004	0	1968	124	5096
42004	2102	3004	0	1968	124	5096
42734	2104	3004	0	1968	124	5096
43465	2106	3004	0	1969	124	5096

Appendix B-2-(S3A-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-3A (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	13.3	0.0	3.1	0.4	16.9
1460	1884	22.7	0.0	4.0	0.3	27.0
10950	1910	40.7	0.0	7.2	1.4	49.3
12776	1915	41.2	0.0	7.3	1.5	50.0
14603	1920	41.7	0.0	7.4	1.5	50.7
15333	1922	48.7	0.0	7.4	1.6	57.7
16429	1925	54.4	0.0	7.5	1.6	63.4
18255	1930	57.3	0.0	7.5	1.6	66.5
20081	1935	58.4	0.0	7.5	1.7	67.6
21908	1940	59.0	0.0	7.5	1.7	68.2
23734	1945	47.0	0.0	6.9	1.7	55.6
25560	1950	47.5	0.0	6.6	1.5	55.6
27386	1955	48.8	0.0	6.5	1.4	56.8
28117	1957	49.2	0.0	6.5	1.4	57.1
28847	1959	49.5	0.0	6.5	1.4	57.3
29578	1961	52.5	0.0	6.5	1.4	60.3
30308	1963	53.3	0.0	6.5	1.4	61.2
31039	1965	53.8	0.0	6.5	1.4	61.6
31769	1967	54.0	0.0	6.5	1.4	61.8
32500	1969	54.2	0.0	6.5	1.4	62.0
33230	1971	54.3	0.0	6.5	1.4	62.2
33961	1973	54.4	0.0	6.5	1.4	62.3
34691	1975	54.5	0.0	6.5	1.4	62.3
35422	1977	54.6	0.0	6.5	1.4	62.4
36152	1979	55.1	0.0	6.5	1.4	62.9
36883	1981	55.5	0.0	6.5	1.4	63.4
37613	1983	54.2	0.0	6.5	1.4	62.1
38344	1985	53.4	0.0	6.5	1.4	61.3
39074	1987	55.1	0.0	10.5	1.4	67.0
365	1988	55.2	0.0	11.4	1.4	68.1
731	1989	55.0	0.0	11.5	1.5	67.9
1461	1991	54.8	0.0	11.5	1.5	67.8
2192	1993	54.8	0.0	11.6	1.5	67.9
2922	1995	54.9	0.0	11.6	1.5	68.0
3653	1997	54.9	0.0	11.6	1.5	68.0
4383	1999	54.9	0.0	11.6	1.6	68.1
4749	2000	54.9	0.0	11.6	1.6	68.1
5479	2002	54.9	0.0	11.6	1.6	68.1
6209	2004	54.9	0.0	11.6	1.6	68.1
6939	2006	54.9	0.0	11.6	1.6	68.1
7670	2008	55.0	0.0	11.6	1.6	68.2
8401	2010	55.0	0.0	11.6	1.6	68.2
9131	2012	55.0	0.0	11.6	1.6	68.2
9862	2014	55.0	0.0	11.6	1.6	68.2
10592	2016	55.0	0.0	11.6	1.6	68.2
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	55.0	0.0	11.6	1.6	68.2
12053	2020	55.0	0.0	11.6	1.6	68.3
12784	2022	55.0	0.0	11.6	1.6	68.3
13514	2024	55.0	0.0	11.6	1.6	68.3
14245	2026	55.0	0.0	11.6	1.6	68.3
14975	2028	55.0	0.0	11.6	1.6	68.3
15706	2030	55.0	0.0	11.6	1.6	68.3
16436	2032	55.0	0.0	11.6	1.6	68.3
17167	2034	55.1	0.0	11.6	1.6	68.3
17897	2036	55.1	0.0	11.6	1.6	68.3
18628	2038	55.1	0.0	11.6	1.6	68.3
19358	2040	55.1	0.0	11.6	1.6	68.3
20089	2042	55.1	0.0	11.6	1.6	68.4
20819	2044	55.1	0.0	11.6	1.6	68.4
21550	2046	55.1	0.0	11.7	1.6	68.4
22280	2048	55.1	0.0	11.7	1.6	68.4
23011	2050	55.1	0.0	11.7	1.6	68.4
23741	2052	55.1	0.0	11.7	1.6	68.4
24472	2054	55.1	0.0	11.7	1.6	68.4
25202	2056	55.1	0.0	11.7	1.7	68.4
25933	2058	55.1	0.0	11.7	1.7	68.4
26663	2060	55.1	0.0	11.7	1.7	68.4
27394	2062	55.1	0.0	11.7	1.7	68.4
28124	2064	55.1	0.0	11.7	1.7	68.4
28855	2066	55.1	0.0	11.7	1.7	68.4
29585	2068	55.1	0.0	11.7	1.7	68.4
30316	2070	55.1	0.0	11.7	1.7	68.4
31046	2072	55.1	0.0	11.7	1.7	68.5
31777	2074	55.1	0.0	11.7	1.7	68.5
32507	2076	55.1	0.0	11.7	1.7	68.5
33238	2078	55.1	0.0	11.7	1.7	68.5
33968	2080	55.1	0.0	11.7	1.7	68.5
34699	2082	55.1	0.0	11.7	1.7	68.5
35429	2084	55.1	0.0	11.7	1.7	68.5
36160	2086	55.1	0.0	11.7	1.7	68.5
36890	2088	55.1	0.0	11.7	1.7	68.5
37621	2090	55.2	0.0	11.7	1.7	68.5
38351	2092	55.2	0.0	11.7	1.7	68.5
39082	2094	55.2	0.0	11.7	1.7	68.5
39812	2096	55.2	0.0	11.7	1.7	68.5
40543	2098	55.2	0.0	11.7	1.7	68.5
41273	2100	55.2	0.0	11.7	1.7	68.5
42004	2102	55.2	0.0	11.7	1.7	68.5
42734	2104	55.2	0.0	11.7	1.7	68.5
43465	2106	55.2	0.0	11.7	1.7	68.5
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Appendix B-2-(S3A-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-3A (Renmark Area)



Appendix B-2-(S3A-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-3A (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	727	0	525	31	1283
1460	1884	1234	0	676	24	1934
10950	1910	2216	0	1216	100	3532
12776	1915	2244	0	1236	108	3588
14603	1920	2272	0	1249	113	3634
15333	1922	2654	0	1252	115	4021
16429	1925	2960	0	1256	117	4333
18255	1930	3123	0	1262	120	4505
20081	1935	3183	0	1267	122	4572
21908	1940	3212	0	1271	125	4608
23734	1945	2560	0	1161	121	3842
25560	1950	2584	0	1116	112	3812
27386	1955	2657	0	1100	105	3863
28117	1957	2678	0	1096	104	3878
28847	1959	2693	0	1094	103	3889
29578	1961	2857	0	1092	102	4050
30308	1963	2904	0	1091	101	4095
31039	1965	2927	0	1090	101	4117
31769	1967	2942	0	1089	101	4131
32500	1969	2951	0	1088	101	4140
33230	1971	2959	0	1088	101	4147
33961	1973	2964	0	1088	101	4152
34691	1975	2969	0	1088	101	4157
35422	1977	2972	0	1088	101	4161
36152	1979	2998	0	1092	102	4191
36883	1981	3021	0	1101	102	4223
37613	1983	2951	0	1094	103	4148
38344	1985	2909	0	1088	103	4100
39074	1987	2999	0	1767	104	4869
365	1988	2993	0	1862	104	4958
731	1989	2985	0	1900	105	4990
1461	1991	2980	0	1886	106	4972
2192	1993	3026	0	2026	109	5160
2922	1995	3014	0	1985	111	5110
3653	1997	2960	0	2023	112	5095
4376	1999	2440	0	1571	114	4125
4749	2000	2153	0	1348	113	3615
5479	2002	1744	0	1053	111	2908
6209	2004	1468	0	973	107	2547
6939	2006	1290	0	925	101	2316
7670	2008	1174	0	891	95	2159
8401	2010	1096	0	865	89	2050
9131	2012	1044	0	846	84	1973
9862	2014	1008	0	830	80	1918
10592	2016	982	0	818	76	1877

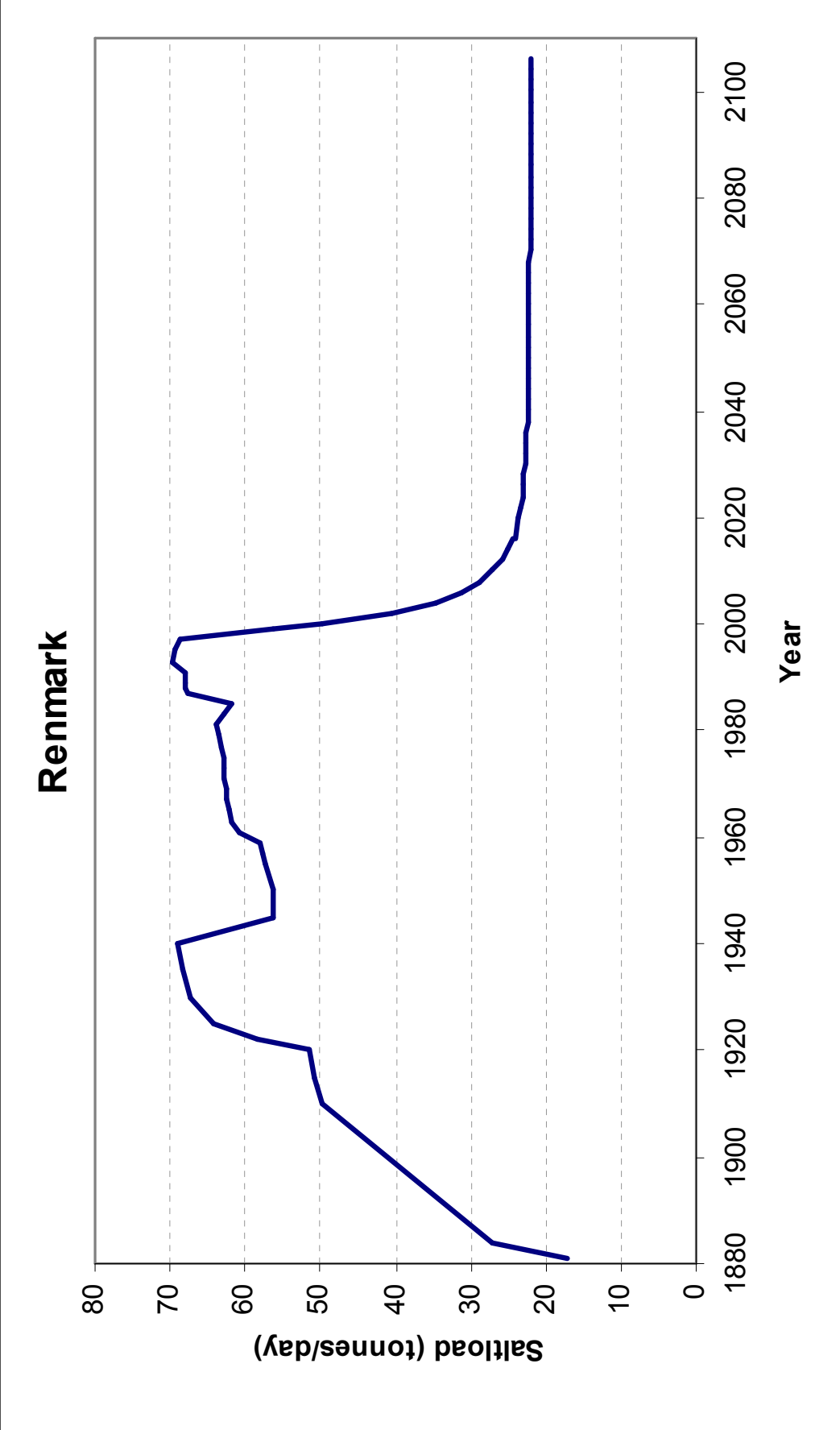
Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	964	0	809	73	1846
12053	2020	951	0	801	70	1822
12784	2022	941	0	795	68	1804
13514	2024	933	0	790	67	1790
14245	2026	927	0	786	65	1778
14975	2028	923	0	782	64	1769
15706	2030	919	0	779	63	1761
16436	2032	916	0	777	62	1755
17167	2034	914	0	775	61	1750
17897	2036	912	0	773	60	1745
18628	2038	910	0	771	60	1741
19358	2040	909	0	770	59	1738
20089	2042	907	0	769	59	1735
20819	2044	906	0	768	59	1733
21550	2046	905	0	767	58	1730
22280	2048	904	0	766	58	1729
23011	2050	904	0	765	58	1727
23741	2052	903	0	765	57	1725
24472	2054	902	0	764	57	1724
25202	2056	902	0	764	57	1723
25933	2058	901	0	763	57	1722
26663	2060	901	0	763	57	1721
27394	2062	901	0	763	57	1720
28124	2064	900	0	762	56	1719
28855	2066	900	0	762	56	1719
29585	2068	900	0	762	56	1718
30316	2070	899	0	762	56	1717
31046	2072	899	0	761	56	1717
31777	2074	899	0	761	56	1716
32507	2076	899	0	761	56	1716
33238	2078	899	0	761	56	1716
33968	2080	898	0	761	56	1715
34699	2082	898	0	761	56	1715
35429	2084	898	0	761	56	1715
36160	2086	898	0	761	56	1715
36890	2088	898	0	761	56	1715
37621	2090	898	0	761	56	1714
38351	2092	898	0	761	56	1714
39082	2094	898	0	760	56	1714
39812	2096	898	0	760	56	1714
40543	2098	898	0	760	56	1714
41273	2100	898	0	760	56	1714
42004	2102	897	0	760	56	1714
42734	2104	897	0	760	56	1714
43465	2106	897	0	760	56	1714

Appendix B-2-(S3B-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-3B (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	13.3	0.0	3.1	0.4	16.9
1460	1884	22.7	0.0	4.0	0.3	27.0
10950	1910	40.7	0.0	7.2	1.4	49.3
12776	1915	41.2	0.0	7.3	1.5	50.0
14603	1920	41.7	0.0	7.4	1.5	50.7
15333	1922	48.7	0.0	7.4	1.6	57.7
16429	1925	54.4	0.0	7.5	1.6	63.4
18255	1930	57.3	0.0	7.5	1.6	66.5
20081	1935	58.4	0.0	7.5	1.7	67.6
21908	1940	59.0	0.0	7.5	1.7	68.2
23734	1945	47.0	0.0	6.9	1.7	55.6
25560	1950	47.5	0.0	6.6	1.5	55.6
27386	1955	48.8	0.0	6.5	1.4	56.8
28117	1957	49.2	0.0	6.5	1.4	57.1
28847	1959	49.5	0.0	6.5	1.4	57.3
29578	1961	52.5	0.0	6.5	1.4	60.3
30308	1963	53.3	0.0	6.5	1.4	61.2
31039	1965	53.8	0.0	6.5	1.4	61.6
31769	1967	54.0	0.0	6.5	1.4	61.8
32500	1969	54.2	0.0	6.5	1.4	62.0
33230	1971	54.3	0.0	6.5	1.4	62.2
33961	1973	54.4	0.0	6.5	1.4	62.3
34691	1975	54.5	0.0	6.5	1.4	62.3
35422	1977	54.6	0.0	6.5	1.4	62.4
36152	1979	55.1	0.0	6.5	1.4	62.9
36883	1981	55.5	0.0	6.5	1.4	63.4
37613	1983	54.2	0.0	6.5	1.4	62.1
38344	1985	53.4	0.0	6.5	1.4	61.3
39074	1987	55.1	0.0	10.5	1.4	67.0
365	1988	55.0	0.0	11.0	1.4	67.4
731	1989	54.8	0.0	11.3	1.4	67.5
1461	1991	54.7	0.0	11.2	1.5	67.4
2192	1993	55.6	0.0	12.0	1.5	69.1
2922	1995	55.4	0.0	11.8	1.5	68.6
3653	1997	54.4	0.0	12.0	1.5	67.9
4376	1999	44.8	0.0	9.3	1.5	55.7
4749	2000	39.5	0.0	8.0	1.5	49.1
5479	2002	32.0	0.0	6.2	1.5	39.8
6209	2004	27.0	0.0	5.8	1.5	34.2
6939	2006	23.7	0.0	5.5	1.4	30.5
7670	2008	21.6	0.0	5.3	1.3	28.1
8401	2010	20.1	0.0	5.1	1.2	26.5
9131	2012	19.2	0.0	5.0	1.1	25.3
9862	2014	18.5	0.0	4.9	1.1	24.5
10592	2016	18.0	0.0	4.9	1.0	23.9
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	17.7	0.0	4.8	1.0	23.5
12053	2020	17.5	0.0	4.8	1.0	23.2
12784	2022	17.3	0.0	4.7	0.9	22.9
13514	2024	17.1	0.0	4.7	0.9	22.7
14245	2026	17.0	0.0	4.7	0.9	22.6
14975	2028	16.9	0.0	4.6	0.9	22.5
15706	2030	16.9	0.0	4.6	0.9	22.4
16436	2032	16.8	0.0	4.6	0.8	22.3
17167	2034	16.8	0.0	4.6	0.8	22.2
17897	2036	16.7	0.0	4.6	0.8	22.2
18628	2038	16.7	0.0	4.6	0.8	22.1
19358	2040	16.7	0.0	4.6	0.8	22.1
20089	2042	16.7	0.0	4.6	0.8	22.0
20819	2044	16.6	0.0	4.6	0.8	22.0
21550	2046	16.6	0.0	4.5	0.8	22.0
22280	2048	16.6	0.0	4.5	0.8	21.9
23011	2050	16.6	0.0	4.5	0.8	21.9
23741	2052	16.6	0.0	4.5	0.8	21.9
24472	2054	16.6	0.0	4.5	0.8	21.9
25202	2056	16.6	0.0	4.5	0.8	21.9
25933	2058	16.6	0.0	4.5	0.8	21.9
26663	2060	16.5	0.0	4.5	0.8	21.8
27394	2062	16.5	0.0	4.5	0.8	21.8
28124	2064	16.5	0.0	4.5	0.8	21.8
28855	2066	16.5	0.0	4.5	0.8	21.8
29585	2068	16.5	0.0	4.5	0.8	21.8
30316	2070	16.5	0.0	4.5	0.8	21.8
31046	2072	16.5	0.0	4.5	0.8	21.8
31777	2074	16.5	0.0	4.5	0.8	21.8
32507	2076	16.5	0.0	4.5	0.8	21.8
33238	2078	16.5	0.0	4.5	0.8	21.8
33968	2080	16.5	0.0	4.5	0.8	21.8
34699	2082	16.5	0.0	4.5	0.8	21.8
35429	2084	16.5	0.0	4.5	0.8	21.8
36160	2086	16.5	0.0	4.5	0.8	21.8
36890	2088	16.5	0.0	4.5	0.8	21.8
37621	2090	16.5	0.0	4.5	0.8	21.8
38351	2092	16.5	0.0	4.5	0.8	21.8
39082	2094	16.5	0.0	4.5	0.8	21.8
39812	2096	16.5	0.0	4.5	0.8	21.8
40543	2098	16.5	0.0	4.5	0.8	21.8
41273	2100	16.5	0.0	4.5	0.8	21.8
42004	2102	16.5	0.0	4.5	0.8	21.8
42734	2104	16.5	0.0	4.5	0.8	21.8
43465	2106	16.5	0.0	4.5	0.8	21.8
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Appendix B-2-(S3B-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-3B (Renmark Area)



Appendix B-2-(S3B-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-3B (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	727	0	525	31	1283
1460	1884	1234	0	676	24	1934
10950	1910	2216	0	1216	100	3532
12776	1915	2244	0	1236	108	3588
14603	1920	2272	0	1249	113	3634
15333	1922	2654	0	1252	115	4021
16429	1925	2960	0	1256	117	4333
18255	1930	3123	0	1262	120	4505
20081	1935	3183	0	1267	122	4572
21908	1940	3212	0	1271	125	4608
23734	1945	2560	0	1161	121	3842
25560	1950	2584	0	1116	112	3812
27386	1955	2657	0	1100	105	3863
28117	1957	2678	0	1096	104	3878
28847	1959	2693	0	1094	103	3889
29578	1961	2857	0	1092	102	4050
30308	1963	2904	0	1091	101	4095
31039	1965	2927	0	1090	101	4117
31769	1967	2942	0	1089	101	4131
32500	1969	2951	0	1088	101	4140
33230	1971	2959	0	1088	101	4147
33961	1973	2964	0	1088	101	4152
34691	1975	2969	0	1088	101	4157
35422	1977	2972	0	1088	101	4161
36152	1979	2998	0	1092	102	4191
36883	1981	3021	0	1101	102	4223
37613	1983	2951	0	1094	103	4148
38344	1985	2909	0	1088	103	4100
39074	1987	2999	0	1767	104	4869
365	1988	2993	0	1862	104	4958
731	1989	2985	0	1900	105	4990
1461	1991	2980	0	1886	106	4972
2192	1993	3026	0	2026	109	5160
2922	1995	3014	0	1985	111	5110
3653	1997	2960	0	2023	112	5095
4376	1999	2440	0	1571	114	4125
4749	2000	2153	0	1348	113	3615
5479	2002	1744	0	1053	111	2908
6209	2004	1468	0	973	107	2547
6939	2006	1290	0	925	101	2316
7670	2008	1174	0	891	94	2159
8401	2010	1096	0	865	89	2050
9131	2012	1044	0	846	84	1973
9862	2014	1008	0	830	79	1917
10592	2016	982	0	818	76	1877

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	964	0	809	73	1846
12053	2020	951	0	801	70	1822
12784	2022	941	0	795	68	1804
13514	2024	933	0	790	67	1790
14245	2026	927	0	786	65	1778
14975	2028	923	0	782	64	1769
15706	2030	919	0	779	63	1761
16436	2032	916	0	777	62	1755
17167	2034	914	0	775	61	1749
17897	2036	912	0	773	60	1745
18628	2038	910	0	771	60	1741
19358	2040	909	0	770	59	1738
20089	2042	907	0	769	59	1735
20819	2044	906	0	768	58	1732
21550	2046	905	0	767	58	1730
22280	2048	904	0	766	58	1728
23011	2050	904	0	765	57	1726
23741	2052	903	0	765	57	1725
24472	2054	902	0	764	57	1724
25202	2056	902	0	764	57	1722
25933	2058	901	0	763	57	1721
26663	2060	901	0	763	56	1720
27394	2062	901	0	762	56	1719
28124	2064	900	0	762	56	1719
28855	2066	900	0	762	56	1718
29585	2068	900	0	762	56	1717
30316	2070	899	0	761	56	1717
31046	2072	899	0	761	56	1716
31777	2074	899	0	761	56	1716
32507	2076	899	0	761	56	1716
33238	2078	899	0	761	56	1715
33968	2080	898	0	761	56	1715
34699	2082	898	0	761	56	1715
35429	2084	898	0	760	56	1714
36160	2086	898	0	760	56	1714
36890	2088	898	0	760	56	1714
37621	2090	898	0	760	56	1714
38351	2092	898	0	760	56	1714
39082	2094	898	0	760	56	1713
39812	2096	898	0	760	56	1713
40543	2098	898	0	760	56	1713
41273	2100	898	0	760	56	1713
42004	2102	897	0	760	56	1713
42734	2104	897	0	760	56	1713
43465	2106	897	0	760	56	1713

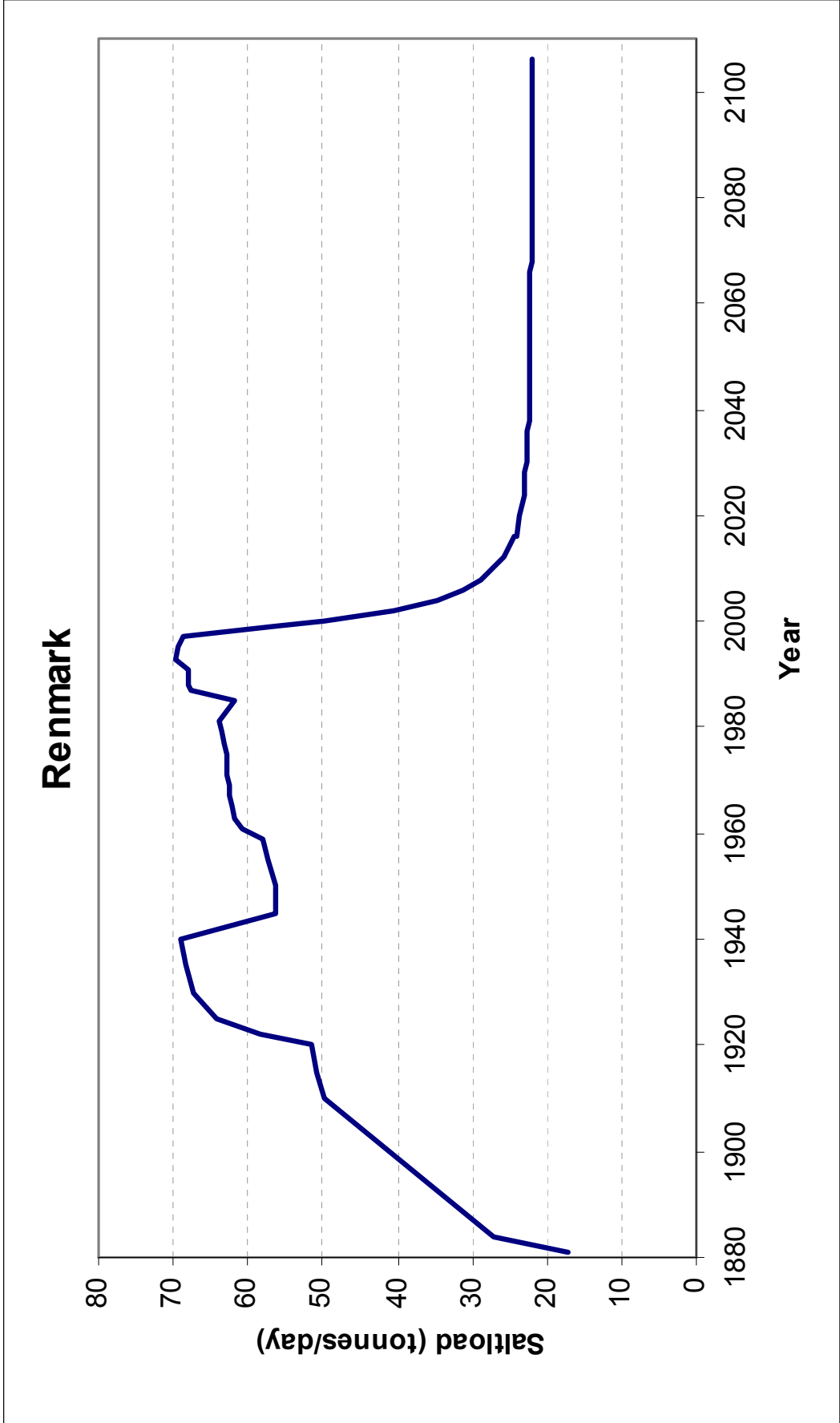
Appendix B-2-(S3C-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-3C (Renmark Area)



Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	13.3	0.0	3.1	0.4	16.9
1460	1884	22.7	0.0	4.0	0.3	27.0
10950	1910	40.7	0.0	7.2	1.4	49.3
12776	1915	41.2	0.0	7.3	1.5	50.0
14603	1920	41.7	0.0	7.4	1.5	50.7
15333	1922	48.7	0.0	7.4	1.6	57.7
16429	1925	54.4	0.0	7.5	1.6	63.4
18255	1930	57.3	0.0	7.5	1.6	66.5
20081	1935	58.4	0.0	7.5	1.7	67.6
21908	1940	59.0	0.0	7.5	1.7	68.2
23734	1945	47.0	0.0	6.9	1.7	55.6
25560	1950	47.5	0.0	6.6	1.5	55.6
27386	1955	48.8	0.0	6.5	1.4	56.8
28117	1957	49.2	0.0	6.5	1.4	57.1
28847	1959	49.5	0.0	6.5	1.4	57.3
29578	1961	52.5	0.0	6.5	1.4	60.3
30308	1963	53.3	0.0	6.5	1.4	61.2
31039	1965	53.8	0.0	6.5	1.4	61.6
31769	1967	54.0	0.0	6.5	1.4	61.8
32500	1969	54.2	0.0	6.5	1.4	62.0
33230	1971	54.3	0.0	6.5	1.4	62.2
33961	1973	54.4	0.0	6.5	1.4	62.3
34691	1975	54.5	0.0	6.5	1.4	62.3
35422	1977	54.6	0.0	6.5	1.4	62.4
36152	1979	55.1	0.0	6.5	1.4	62.9
36883	1981	55.5	0.0	6.5	1.4	63.4
37613	1983	54.2	0.0	6.5	1.4	62.1
38344	1985	53.4	0.0	6.5	1.4	61.3
39074	1987	55.1	0.0	10.5	1.4	67.0
365	1988	55.0	0.0	11.0	1.4	67.4
731	1989	54.8	0.0	11.3	1.4	67.5
1461	1991	54.7	0.0	11.2	1.5	67.4
2192	1993	55.6	0.0	12.0	1.5	69.1
2922	1995	55.4	0.0	11.8	1.5	68.6
3653	1997	54.4	0.0	12.0	1.5	67.9
4376	1999	44.8	0.0	9.3	1.5	55.7
4749	2000	39.5	0.0	8.0	1.5	49.1
5479	2002	32.0	0.0	6.2	1.5	39.8
6209	2004	27.0	0.0	5.8	1.5	34.2
6939	2006	23.7	0.0	5.5	1.4	30.5
7670	2008	21.6	0.0	5.3	1.3	28.1
8401	2010	20.1	0.0	5.1	1.2	26.5
9131	2012	19.2	0.0	5.0	1.1	25.3
9862	2014	18.5	0.0	4.9	1.1	24.5
10592	2016	18.0	0.0	4.9	1.0	23.9
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	17.7	0.0	4.8	1.0	23.5
12053	2020	17.5	0.0	4.8	1.0	23.2
12784	2022	17.3	0.0	4.7	0.9	22.9
13514	2024	17.1	0.0	4.7	0.9	22.7
14245	2026	17.0	0.0	4.7	0.9	22.6
14975	2028	16.9	0.0	4.6	0.9	22.5
15706	2030	16.9	0.0	4.6	0.9	22.4
16436	2032	16.8	0.0	4.6	0.8	22.3
17167	2034	16.8	0.0	4.6	0.8	22.2
17897	2036	16.7	0.0	4.6	0.8	22.1
18628	2038	16.7	0.0	4.6	0.8	22.1
19358	2040	16.7	0.0	4.6	0.8	22.1
20089	2042	16.7	0.0	4.6	0.8	22.0
20819	2044	16.6	0.0	4.6	0.8	22.0
21550	2046	16.6	0.0	4.5	0.8	22.0
22280	2048	16.6	0.0	4.5	0.8	21.9
23011	2050	16.6	0.0	4.5	0.8	21.9
23741	2052	16.6	0.0	4.5	0.8	21.9
24472	2054	16.6	0.0	4.5	0.8	21.9
25202	2056	16.6	0.0	4.5	0.8	21.9
25933	2058	16.6	0.0	4.5	0.8	21.9
26663	2060	16.5	0.0	4.5	0.8	21.8
27394	2062	16.5	0.0	4.5	0.8	21.8
28124	2064	16.5	0.0	4.5	0.8	21.8
28855	2066	16.5	0.0	4.5	0.8	21.8
29585	2068	16.5	0.0	4.5	0.8	21.8
30316	2070	16.5	0.0	4.5	0.8	21.8
31046	2072	16.5	0.0	4.5	0.8	21.8
31777	2074	16.5	0.0	4.5	0.8	21.8
32507	2076	16.5	0.0	4.5	0.8	21.8
33238	2078	16.5	0.0	4.5	0.8	21.8
33968	2080	16.5	0.0	4.5	0.8	21.8
34699	2082	16.5	0.0	4.5	0.8	21.8
35429	2084	16.5	0.0	4.5	0.8	21.8
36160	2086	16.5	0.0	4.5	0.8	21.8
36890	2088	16.5	0.0	4.5	0.8	21.8
37621	2090	16.5	0.0	4.5	0.8	21.8
38351	2092	16.5	0.0	4.5	0.8	21.8
39082	2094	16.5	0.0	4.5	0.8	21.8
39812	2096	16.5	0.0	4.5	0.8	21.7
40543	2098	16.5	0.0	4.5	0.8	21.7
41273	2100	16.5	0.0	4.5	0.8	21.7
42004	2102	16.5	0.0	4.5	0.8	21.7
42734	2104	16.5	0.0	4.5	0.8	21.7
43465	2106	16.5	0.0	4.5	0.8	21.7
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Appendix B-2-(S3C-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-3C (Renmark Area)



Appendix B-2-(S3C-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-3C (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	727	0	525	31	1283
1460	1884	1234	0	676	24	1934
10950	1910	2216	0	1216	100	3532
12776	1915	2244	0	1236	108	3588
14603	1920	2272	0	1249	113	3634
15333	1922	2654	0	1252	115	4021
16429	1925	2960	0	1256	117	4333
18255	1930	3123	0	1262	120	4505
20081	1935	3183	0	1267	122	4572
21908	1940	3212	0	1271	125	4608
23734	1945	2560	0	1161	121	3842
25560	1950	2584	0	1116	112	3812
27386	1955	2657	0	1100	105	3863
28117	1957	2678	0	1096	104	3878
28847	1959	2693	0	1094	103	3889
29578	1961	2857	0	1092	102	4050
30308	1963	2904	0	1091	101	4095
31039	1965	2927	0	1090	101	4117
31769	1967	2942	0	1089	101	4131
32500	1969	2951	0	1088	101	4140
33230	1971	2959	0	1088	101	4147
33961	1973	2964	0	1088	101	4152
34691	1975	2969	0	1088	101	4157
35422	1977	2972	0	1088	101	4161
36152	1979	2998	0	1092	102	4191
36883	1981	3021	0	1101	102	4223
37613	1983	2951	0	1094	103	4148
38344	1985	2909	0	1088	103	4100
39074	1987	2999	0	1767	104	4869
365	1988	2993	0	1864	104	4960
731	1989	2985	0	1904	105	4994
1461	1991	2980	0	1891	106	4977
2192	1993	3026	0	2031	109	5166
2922	1995	3015	0	2055	111	5180
3653	1997	3050	0	2117	113	5281
4376	1999	2519	0	1664	115	4298
4749	2000	2210	0	1428	116	3754
5479	2002	1793	0	1112	115	3020
6209	2004	1517	0	1027	111	2655
6939	2006	1340	0	984	105	2428
7670	2008	1224	0	951	99	2274
8401	2010	1147	0	926	93	2166
9131	2012	1095	0	907	88	2090
9862	2014	1059	0	892	84	2035
10592	2016	1034	0	880	81	1994

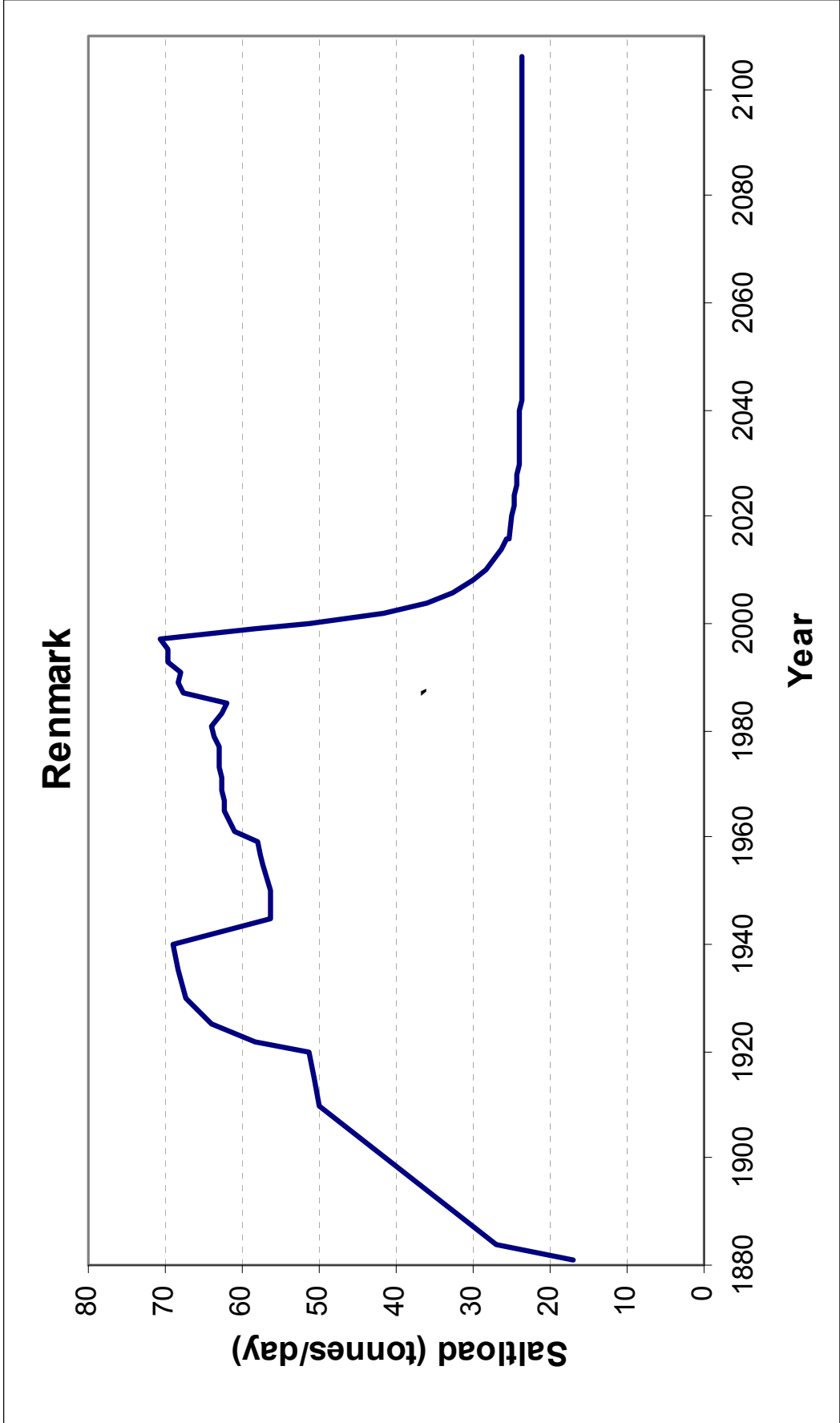
Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	1016	0	870	78	1964
12053	2020	1002	0	863	75	1941
12784	2022	992	0	857	73	1922
13514	2024	985	0	852	71	1908
14245	2026	979	0	848	70	1897
14975	2028	975	0	844	69	1888
15706	2030	971	0	841	68	1880
16436	2032	968	0	839	67	1874
17167	2034	966	0	837	66	1869
17897	2036	964	0	835	65	1864
18628	2038	962	0	834	65	1860
19358	2040	961	0	832	64	1857
20089	2042	960	0	831	64	1855
20819	2044	959	0	830	63	1853
21550	2046	958	0	829	63	1851
22280	2048	958	0	829	63	1850
23011	2050	958	0	828	63	1849
23741	2052	958	0	828	62	1848
24472	2054	958	0	827	62	1847
25202	2056	958	0	827	62	1847
25933	2058	958	0	826	62	1846
26663	2060	958	0	826	62	1846
27394	2062	958	0	826	62	1846
28124	2064	958	0	826	62	1845
28855	2066	958	0	826	62	1845
29585	2068	958	0	825	62	1845
30316	2070	958	0	825	62	1845
31046	2072	958	0	825	62	1845
31777	2074	958	0	825	62	1845
32507	2076	958	0	825	62	1845
33238	2078	958	0	825	62	1845
33968	2080	958	0	825	62	1845
34699	2082	959	0	825	62	1846
35429	2084	959	0	825	62	1846
36160	2086	959	0	825	62	1846
36890	2088	959	0	825	62	1846
37621	2090	959	0	825	62	1846
38351	2092	959	0	826	62	1846
39082	2094	959	0	826	62	1847
39812	2096	959	0	826	62	1847
40543	2098	959	0	826	62	1847
41273	2100	959	0	826	62	1847
42004	2102	959	0	826	62	1847
42734	2104	959	0	826	62	1848
43465	2106	959	0	826	62	1848

Appendix B-2-(S4-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-4 (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	13.3	0.0	3.1	0.4	16.9
1460	1884	22.7	0.0	4.0	0.3	27.0
10950	1910	40.7	0.0	7.2	1.4	49.3
12776	1915	41.2	0.0	7.3	1.5	50.0
14603	1920	41.7	0.0	7.4	1.5	50.7
15333	1922	48.7	0.0	7.4	1.6	57.7
16429	1925	54.4	0.0	7.5	1.6	63.4
18255	1930	57.3	0.0	7.5	1.6	66.5
20081	1935	58.4	0.0	7.5	1.7	67.6
21908	1940	59.0	0.0	7.5	1.7	68.2
23734	1945	47.0	0.0	6.9	1.7	55.6
25560	1950	47.5	0.0	6.6	1.5	55.6
27386	1955	48.8	0.0	6.5	1.4	56.8
28117	1957	49.2	0.0	6.5	1.4	57.1
28847	1959	49.5	0.0	6.5	1.4	57.3
29578	1961	52.5	0.0	6.5	1.4	60.3
30308	1963	53.3	0.0	6.5	1.4	61.2
31039	1965	53.8	0.0	6.5	1.4	61.6
31769	1967	54.0	0.0	6.5	1.4	61.8
32500	1969	54.2	0.0	6.5	1.4	62.0
33230	1971	54.3	0.0	6.5	1.4	62.2
33961	1973	54.4	0.0	6.5	1.4	62.3
34691	1975	54.5	0.0	6.5	1.4	62.3
35422	1977	54.6	0.0	6.5	1.4	62.4
36152	1979	55.1	0.0	6.5	1.4	62.9
36883	1981	55.5	0.0	6.5	1.4	63.4
37613	1983	54.2	0.0	6.5	1.4	62.1
38344	1985	53.4	0.0	6.5	1.4	61.3
39074	1987	55.1	0.0	10.5	1.4	67.0
365	1988	55.0	0.0	11.1	1.4	67.4
731	1989	54.8	0.0	11.3	1.4	67.5
1461	1991	54.7	0.0	11.2	1.5	67.4
2192	1993	55.6	0.0	12.0	1.5	69.1
2922	1995	55.4	0.0	12.2	1.5	69.1
3653	1997	56.0	0.0	12.6	1.5	70.1
4376	1999	46.3	0.0	9.9	1.6	57.7
4749	2000	40.6	0.0	8.5	1.6	50.6
5479	2002	32.9	0.0	6.6	1.6	41.1
6209	2004	27.8	0.0	6.1	1.5	35.5
6939	2006	24.6	0.0	5.8	1.4	31.9
7670	2008	22.5	0.0	5.6	1.4	29.5
8401	2010	21.1	0.0	5.5	1.3	27.8
9131	2012	20.1	0.0	5.4	1.2	26.7
9862	2014	19.4	0.0	5.3	1.1	25.9
10592	2016	19.0	0.0	5.2	1.1	25.3
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	18.7	0.0	5.2	1.1	24.9
12053	2020	18.4	0.0	5.1	1.0	24.6
12784	2022	18.2	0.0	5.1	1.0	24.3
13514	2024	18.1	0.0	5.1	1.0	24.1
14245	2026	18.0	0.0	5.0	1.0	24.0
14975	2028	17.9	0.0	5.0	0.9	23.8
15706	2030	17.8	0.0	5.0	0.9	23.7
16436	2032	17.8	0.0	5.0	0.9	23.7
17167	2034	17.7	0.0	5.0	0.9	23.6
17897	2036	17.7	0.0	5.0	0.9	23.6
18628	2038	17.7	0.0	4.9	0.9	23.5
19358	2040	17.6	0.0	4.9	0.9	23.5
20089	2042	17.6	0.0	4.9	0.9	23.4
20819	2044	17.6	0.0	4.9	0.9	23.4
21550	2046	17.6	0.0	4.9	0.9	23.4
22280	2048	17.6	0.0	4.9	0.9	23.4
23011	2050	17.6	0.0	4.9	0.9	23.4
23741	2052	17.6	0.0	4.9	0.9	23.4
24472	2054	17.6	0.0	4.9	0.8	23.3
25202	2056	17.6	0.0	4.9	0.8	23.3
25933	2058	17.6	0.0	4.9	0.8	23.3
26663	2060	17.6	0.0	4.9	0.8	23.3
27394	2062	17.6	0.0	4.9	0.8	23.3
28124	2064	17.6	0.0	4.9	0.8	23.3
28855	2066	17.6	0.0	4.9	0.8	23.3
29585	2068	17.6	0.0	4.9	0.8	23.3
30316	2070	17.6	0.0	4.9	0.8	23.3
31046	2072	17.6	0.0	4.9	0.8	23.3
31777	2074	17.6	0.0	4.9	0.8	23.3
32507	2076	17.6	0.0	4.9	0.8	23.3
33238	2078	17.6	0.0	4.9	0.8	23.3
33968	2080	17.6	0.0	4.9	0.8	23.3
34699	2082	17.6	0.0	4.9	0.8	23.3
35429	2084	17.6	0.0	4.9	0.8	23.3
36160	2086	17.6	0.0	4.9	0.8	23.3
36890	2088	17.6	0.0	4.9	0.8	23.3
37621	2090	17.6	0.0	4.9	0.8	23.3
38351	2092	17.6	0.0	4.9	0.8	23.4
39082	2094	17.6	0.0	4.9	0.8	23.4
39812	2096	17.6	0.0	4.9	0.8	23.4
40543	2098	17.6	0.0	4.9	0.8	23.4
41273	2100	17.6	0.0	4.9	0.8	23.4
42004	2102	17.6	0.0	4.9	0.8	23.4
42734	2104	17.6	0.0	4.9	0.8	23.4
43465	2106	17.6	0.0	4.9	0.9	23.4
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Appendix B-2-(S4-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-4 (Renmark Area)



Appendix B-2-(S4-3): Graph of total modelled saltload (tonnes/day) entering the River Murray in Scenario-4 (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	727	0	525	31	1283
1460	1884	1234	0	676	24	1934
10950	1910	2216	0	1216	100	3532
12776	1915	2244	0	1236	108	3588
14603	1920	2272	0	1249	113	3634
15333	1922	2654	0	1252	115	4021
16429	1925	2960	0	1256	117	4333
18255	1930	3123	0	1262	120	4505
20081	1935	3183	0	1267	122	4572
21908	1940	3212	0	1271	125	4608
23734	1945	2560	0	1161	121	3842
25560	1950	2584	0	1116	112	3812
27386	1955	2657	0	1100	105	3863
28117	1957	2678	0	1096	104	3878
28847	1959	2693	0	1094	103	3889
29578	1961	2857	0	1092	102	4050
30308	1963	2904	0	1091	101	4095
31039	1965	2927	0	1090	101	4117
31769	1967	2942	0	1089	101	4131
32500	1969	2951	0	1088	101	4140
33230	1971	2959	0	1088	101	4147
33961	1973	2964	0	1088	101	4152
34691	1975	2969	0	1088	101	4157
35422	1977	2972	0	1088	101	4161
36152	1979	2998	0	1092	102	4191
36883	1981	3021	0	1101	102	4223
37613	1983	2951	0	1094	103	4148
38344	1985	2909	0	1088	103	4100
39074	1987	2999	0	1767	104	4869
365	1988	2993	0	1864	104	4960
731	1989	2985	0	1904	105	4994
1461	1991	2980	0	1891	106	4977
2192	1993	3026	0	2031	109	5166
2922	1995	3015	0	2055	111	5180
3653	1997	3050	0	2117	113	5281
4376	1999	2519	0	1664	115	4298
4749	2000	2210	0	1428	116	3754
5479	2002	1793	0	1112	115	3020
6209	2004	1517	0	1027	111	2655
6939	2006	1340	0	984	105	2428
7670	2008	1224	0	951	99	2274
8401	2010	1147	0	926	93	2166
9131	2012	1095	0	907	88	2090
9862	2014	1059	0	892	84	2035
10592	2016	1353	0	1196	81	2630

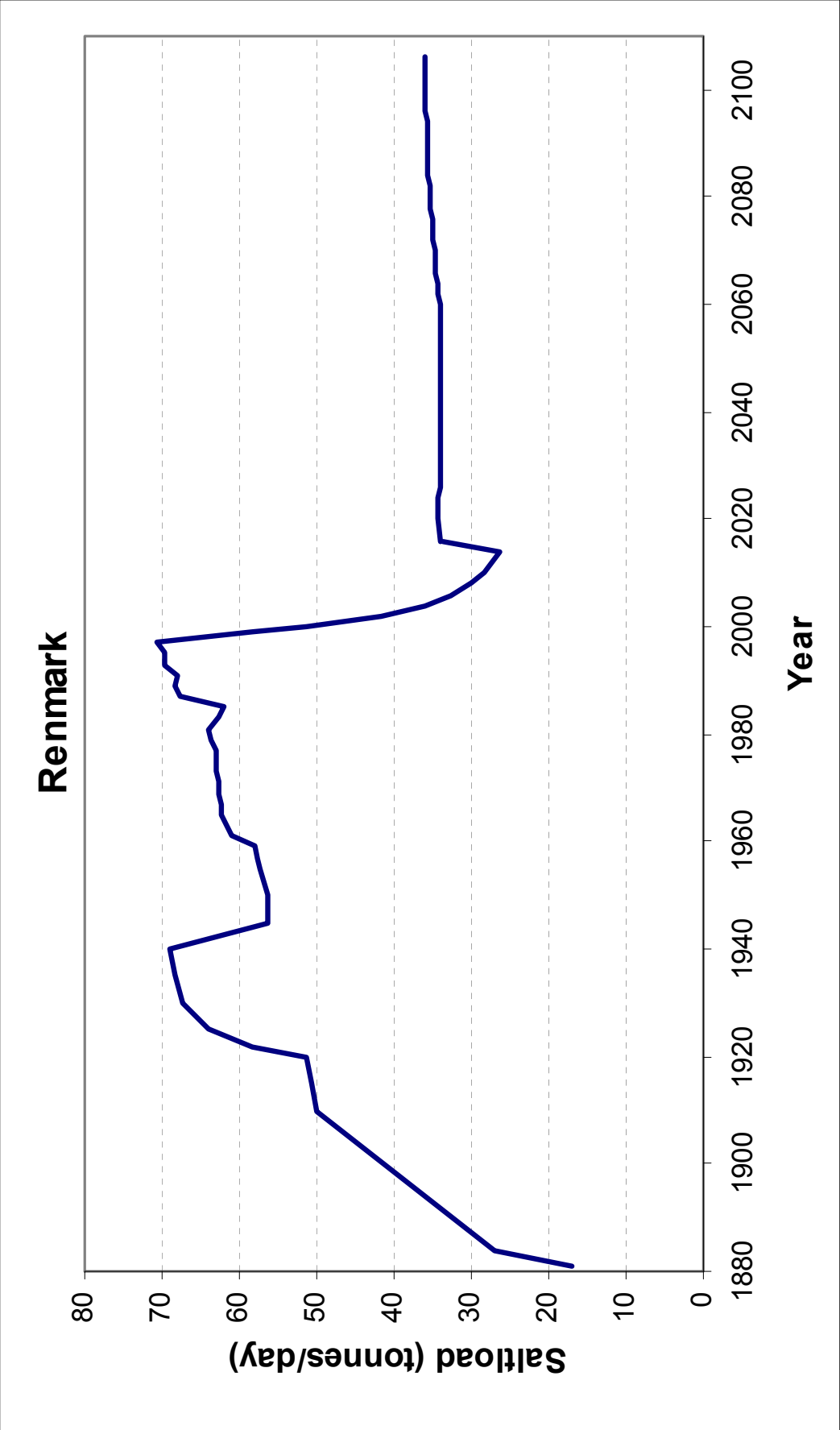
Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	1381	0	1205	78	2664
12053	2020	1390	0	1205	76	2671
12784	2022	1393	0	1205	75	2672
13514	2024	1393	0	1204	74	2671
14245	2026	1392	0	1203	73	2668
14975	2028	1390	0	1203	73	2666
15706	2030	1388	0	1202	73	2663
16436	2032	1386	0	1202	72	2661
17167	2034	1385	0	1202	72	2658
17897	2036	1383	0	1201	72	2656
18628	2038	1382	0	1201	72	2655
19358	2040	1381	0	1201	72	2653
20089	2042	1380	0	1201	72	2652
20819	2044	1380	0	1200	72	2652
21550	2046	1379	0	1200	72	2651
22280	2048	1379	0	1200	72	2651
23011	2050	1380	0	1201	72	2653
23741	2052	1381	0	1201	72	2654
24472	2054	1382	0	1202	72	2656
25202	2056	1384	0	1202	72	2658
25933	2058	1386	0	1203	73	2662
26663	2060	1391	0	1204	73	2667
27394	2062	1397	0	1205	73	2674
28124	2064	1404	0	1206	74	2683
28855	2066	1411	0	1207	74	2691
29585	2068	1418	0	1208	74	2700
30316	2070	1425	0	1209	75	2708
31046	2072	1431	0	1210	75	2716
31777	2074	1437	0	1211	76	2723
32507	2076	1442	0	1212	76	2730
33238	2078	1446	0	1213	77	2736
33968	2080	1450	0	1214	77	2742
34699	2082	1454	0	1215	78	2747
35429	2084	1457	0	1216	78	2751
36160	2086	1459	0	1217	79	2756
36890	2088	1462	0	1218	79	2760
37621	2090	1464	0	1219	80	2763
38351	2092	1466	0	1220	80	2767
39082	2094	1468	0	1221	81	2770
39812	2096	1470	0	1222	81	2773
40543	2098	1472	0	1223	82	2776
41273	2100	1473	0	1224	82	2779
42004	2102	1475	0	1224	82	2781
42734	2104	1476	0	1225	83	2784
43465	2106	1477	0	1226	83	2786

Appendix B-2-(S5-1): Modelled groundwater flux (m<sup>3</sup>/day) from flow budget zones in Scenario-5 (Renmark Area)

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
365	1881	13.3	0.0	3.1	0.4	16.9
1460	1884	22.7	0.0	4.0	0.3	27.0
10950	1910	40.7	0.0	7.2	1.4	49.3
12776	1915	41.2	0.0	7.3	1.5	50.0
14603	1920	41.7	0.0	7.4	1.5	50.7
15333	1922	48.7	0.0	7.4	1.6	57.7
16429	1925	54.4	0.0	7.5	1.6	63.4
18255	1930	57.3	0.0	7.5	1.6	66.5
20081	1935	58.4	0.0	7.5	1.7	67.6
21908	1940	59.0	0.0	7.5	1.7	68.2
23734	1945	47.0	0.0	6.9	1.7	55.6
25560	1950	47.5	0.0	6.6	1.5	55.6
27386	1955	48.8	0.0	6.5	1.4	56.8
28117	1957	49.2	0.0	6.5	1.4	57.1
28847	1959	49.5	0.0	6.5	1.4	57.3
29578	1961	52.5	0.0	6.5	1.4	60.3
30308	1963	53.3	0.0	6.5	1.4	61.2
31039	1965	53.8	0.0	6.5	1.4	61.6
31769	1967	54.0	0.0	6.5	1.4	61.8
32500	1969	54.2	0.0	6.5	1.4	62.0
33230	1971	54.3	0.0	6.5	1.4	62.2
33961	1973	54.4	0.0	6.5	1.4	62.3
34691	1975	54.5	0.0	6.5	1.4	62.3
35422	1977	54.6	0.0	6.5	1.4	62.4
36152	1979	55.1	0.0	6.5	1.4	62.9
36883	1981	55.5	0.0	6.5	1.4	63.4
37613	1983	54.2	0.0	6.5	1.4	62.1
38344	1985	53.4	0.0	6.5	1.4	61.3
39074	1987	55.1	0.0	10.5	1.4	67.0
365	1988	55.0	0.0	11.1	1.4	67.4
731	1989	54.8	0.0	11.3	1.4	67.5
1461	1991	54.7	0.0	11.2	1.5	67.4
2192	1993	55.6	0.0	12.0	1.5	69.1
2922	1995	55.4	0.0	12.2	1.5	69.1
3653	1997	56.0	0.0	12.6	1.5	70.1
4376	1999	46.3	0.0	9.9	1.6	57.7
4749	2000	40.6	0.0	8.5	1.6	50.6
5479	2002	32.9	0.0	6.6	1.6	41.1
6209	2004	27.8	0.0	6.1	1.5	35.5
6939	2006	24.6	0.0	5.8	1.4	31.9
7670	2008	22.5	0.0	5.6	1.4	29.5
8401	2010	21.1	0.0	5.5	1.3	27.8
9131	2012	20.1	0.0	5.4	1.2	26.7
9862	2014	19.4	0.0	5.3	1.1	25.9
10592	2016	24.9	0.0	7.1	1.1	33.0
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Day	Year	Z2 to Z6	Z2 to Z8	Z2 to Z9	Z2 to Z10	Total
11323	2018	25.4	0.0	7.1	1.1	33.6
12053	2020	25.5	0.0	7.1	1.0	33.7
12784	2022	25.6	0.0	7.1	1.0	33.7
13514	2024	25.6	0.0	7.1	1.0	33.7
14245	2026	25.6	0.0	7.1	1.0	33.7
14975	2028	25.5	0.0	7.1	1.0	33.7
15706	2030	25.5	0.0	7.1	1.0	33.6
16436	2032	25.5	0.0	7.1	1.0	33.6
17167	2034	25.4	0.0	7.1	1.0	33.5
17897	2036	25.4	0.0	7.1	1.0	33.5
18628	2038	25.4	0.0	7.1	1.0	33.5
19358	2040	25.4	0.0	7.1	1.0	33.5
20089	2042	25.3	0.0	7.1	1.0	33.4
20819	2044	25.3	0.0	7.1	1.0	33.4
21550	2046	25.3	0.0	7.1	1.0	33.4
22280	2048	25.3	0.0	7.1	1.0	33.4
23011	2050	25.3	0.0	7.1	1.0	33.4
23741	2052	25.4	0.0	7.1	1.0	33.5
24472	2054	25.4	0.0	7.1	1.0	33.5
25202	2056	25.4	0.0	7.1	1.0	33.5
25933	2058	25.5	0.0	7.1	1.0	33.6
26663	2060	25.5	0.0	7.1	1.0	33.7
27394	2062	25.6	0.0	7.1	1.0	33.8
28124	2064	25.8	0.0	7.1	1.0	33.9
28855	2066	25.9	0.0	7.2	1.0	34.1
29585	2068	26.0	0.0	7.2	1.0	34.2
30316	2070	26.2	0.0	7.2	1.0	34.4
31046	2072	26.3	0.0	7.2	1.0	34.5
31777	2074	26.4	0.0	7.2	1.0	34.6
32507	2076	26.5	0.0	7.2	1.0	34.7
33238	2078	26.6	0.0	7.2	1.0	34.8
33968	2080	26.6	0.0	7.2	1.1	34.9
34699	2082	26.7	0.0	7.2	1.1	35.0
35429	2084	26.7	0.0	7.2	1.1	35.0
36160	2086	26.8	0.0	7.2	1.1	35.1
36890	2088	26.8	0.0	7.2	1.1	35.2
37621	2090	26.9	0.0	7.2	1.1	35.2
38351	2092	26.9	0.0	7.2	1.1	35.3
39082	2094	27.0	0.0	7.2	1.1	35.3
39812	2096	27.0	0.0	7.2	1.1	35.4
40543	2098	27.0	0.0	7.3	1.1	35.4
41273	2100	27.1	0.0	7.3	1.1	35.4
42004	2102	27.1	0.0	7.3	1.1	35.5
42734	2104	27.1	0.0	7.3	1.1	35.5
43465	2106	27.1	0.0	7.3	1.1	35.5
<b>Salinity (mg/L)</b>		<b>18,364</b>	<b>20,000</b>	<b>5,931</b>	<b>13,638</b>	

Appendix B-2-(S5-2): Modelled salt load (tonnes/day) entering the River Murray in Scenario-5 (Renmark Area)



Appendix B-2-(S5-3): Graph of total modelled salt load (tonnes/day) entering the River Murray in Scenario-5 (Renmark Area)



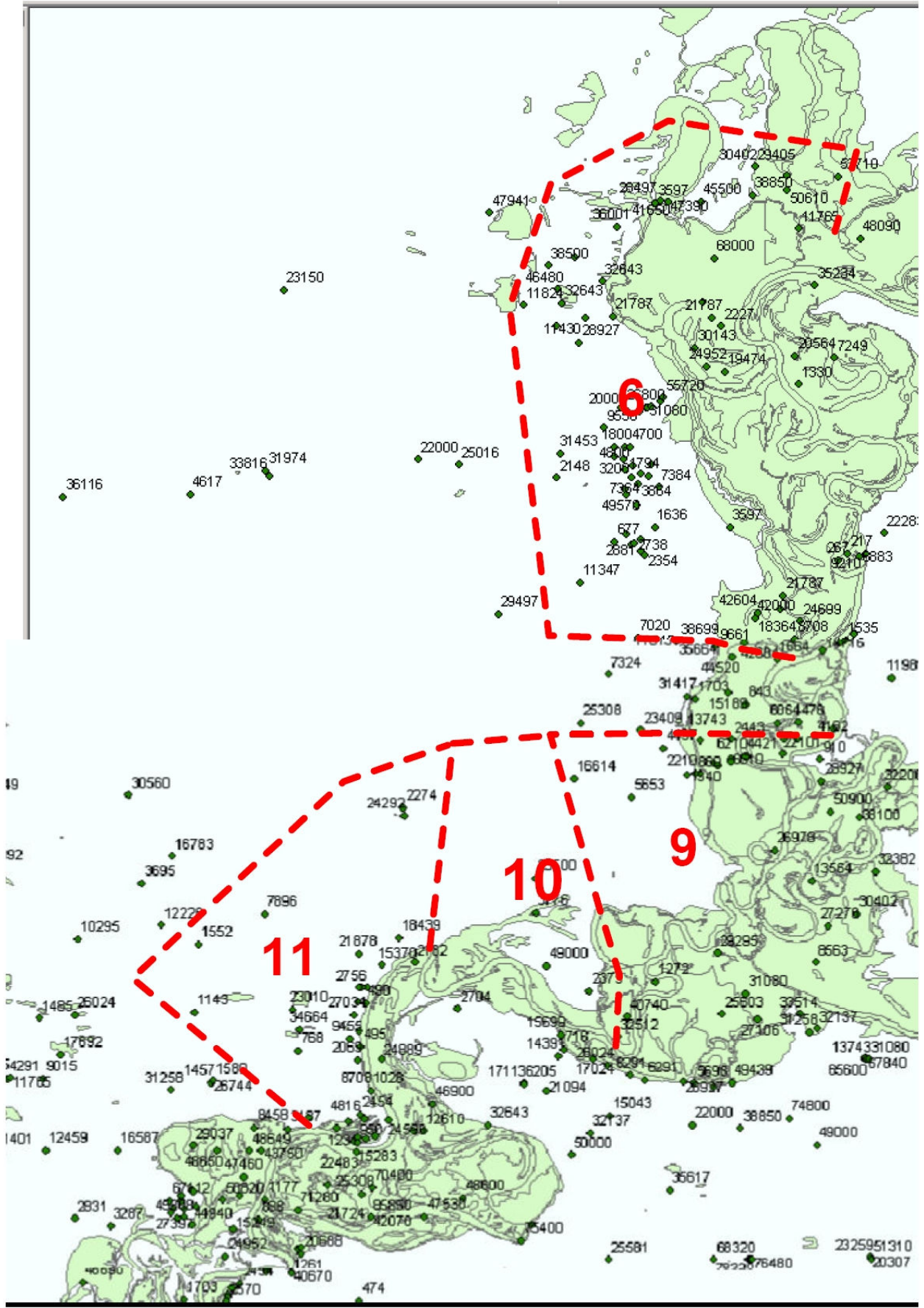
# Appendix C

## Hydrogeology Data

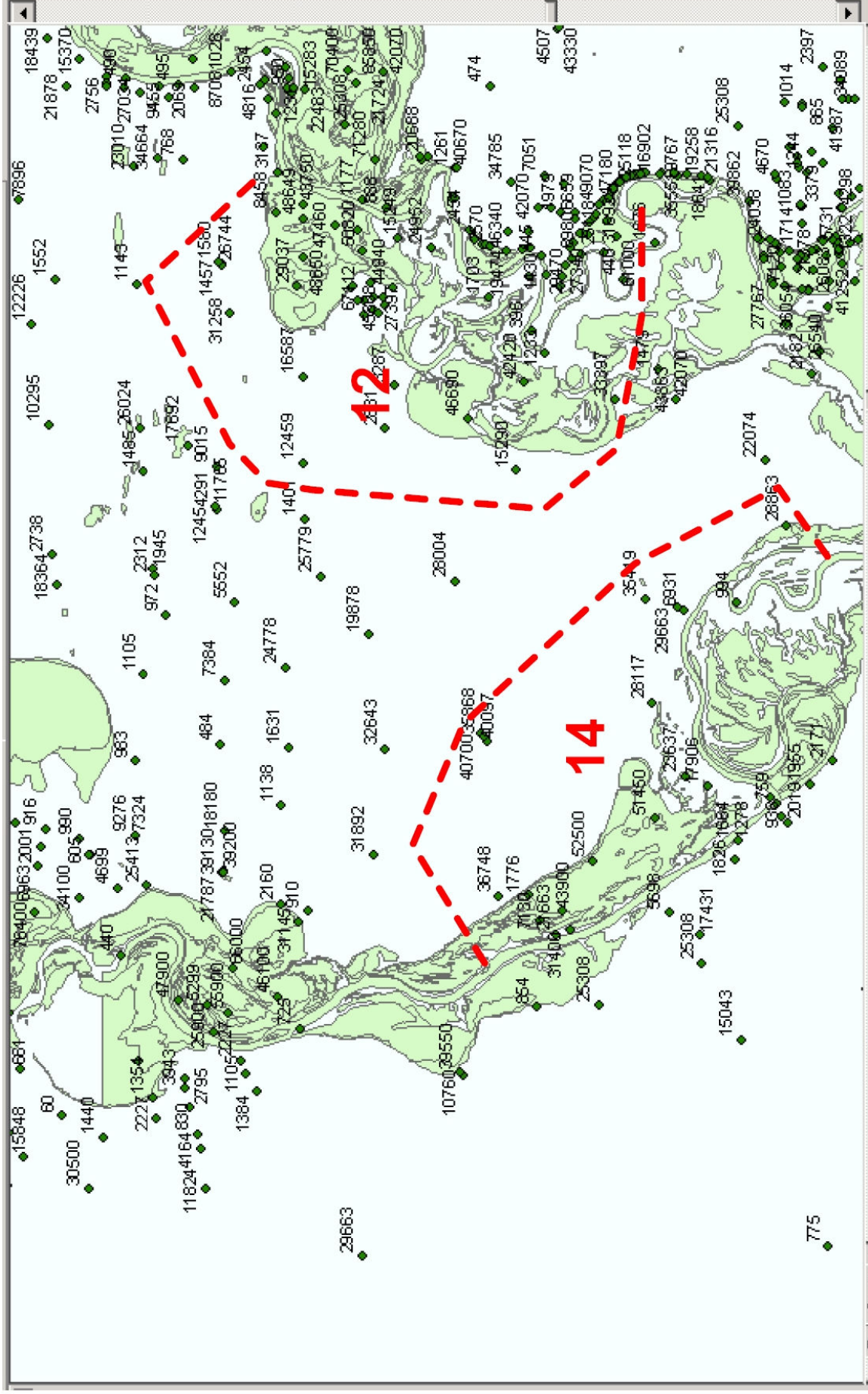
- Hydrostratigraphic units in the Berri-Renmark Region
- Location of field salinity values
- Statistical analysis of salinity zones

Age	Stratigraphic unit	Hydrostratigraphic unit	Lithology
Quaternary	Woorinen Formation	Perched aquifer where Blanchetown Clay inhibits vertical recharge.	Brown and reddish coloured aeolian silts and fine to medium ferruginous sands. Regularly containing moderate to hard calcrete horizons.
Quaternary	Coonambidgal Clay	Aquitard	Light greyish coloured moderately dense clay. Generally quite rollable with moderate plasticity.
Quaternary	Monoman Formation	Aquifer, semi-unconfined along the river valley.	Yellowish brown to greyish coloured fine to coarse sands and gravels. Clay lenses. Can be micaceous.
Quaternary	Blanchetown Clay	Aquitard.	Reddish brown silty gritty clays to light green, moderate to very dense clay with high plasticity.
Pliocene	Loxton Parilla Sands – Upper <sup>1</sup>	Aquifer, unconfined to semi confined in highland areas.	Yellowish orange coloured ferruginous fine to coarse sands and fine gravels.
	Loxton Parilla Sands – Lower <sup>1</sup>	Aquifer (as above)	Greyish coloured medium to coarse sands and fine to medium gravels. Quite micaceous, often carbonaceous and pyritic.
Pliocene	Lower Loxton Shells <sup>1</sup>	Aquitard. Transition from leaky zone to clay proper.	Medium greyish coloured silts and clays with interbedded shell fragments. Micaceous. Generally increasing in density and plasticity with depth.
	Lower Loxton Clays <sup>1</sup>		
Mio-Pliocene	Bookpurnong Beds	Aquitard. Main confining unit between Pliocene / Monoman sands and Murray Group.	Olive greyish to green coloured moderate dense, fossiliferous clay. Can be quite silty, but generally quite rollable, with high plasticity.
Miocene	Murray Group Limestone	Confined aquifer, multilayered.	Grey to off-white coloured fossiliferous, sandy limestone. Many different stratigraphic units within.

**Appendix C-1: Hydrostratigraphic units in the Pike Murtho Region (Stadter, 2005)**



Appendix C-2: Location of the field salinity values in the Renmark area



- 14** Model flux budget zone
- 28004 Field salinity observation

Appendix C-3: Location of the field salinity values in the Berri area

## Field Salinity Samples

Zone 6	Zone 9	Zone 10
52710	3864	23500
29405	7364	3776
30402	4957	49000
38850	1636	2375
50610	3597	
45500	677	
26497	2738	
3597	2881	
47390	2354	
41650	11347	
36001	7020	
32643	11015	
38500	38699	
46480	9661	
11824	42604	
32643	42000	
21787	21787	
11430	24699	
28927	6708	
55720	18364	
26800	1664	
20000		
9550		
31080		
1800		
4700		
4800		
31453		
2148		
3200		
4794		
7384		

## Salinity Statistics

Entire Remark Reach	
Mean	18630.89
Standard Error	1900.549
Median	11430
Mode	3597
Standard Deviation	16459.23
Sample Variance	2.71E+08
Kurtosis	-0.979017
Skewness	0.613468
Range	55043
Minimum	677
Maximum	55720
Sum	1397317
Count	75

Zone 9	
Mean	12375.28
Standard Error	3032.819
Median	5931.5
Mode	#N/A
Standard Deviation	12867.16
Sample Variance	1.66E+08
Kurtosis	-0.280496
Skewness	1.025564
Range	39880
Minimum	860
Maximum	40740
Sum	222755
Count	18

Zone 6	
Mean	20677.57
Standard Error	2323.226
Median	18364
Mode	3597
Standard Deviation	16913.34
Sample Variance	2.86E+08
Kurtosis	-1.186701
Skewness	0.449804
Range	55043
Minimum	677
Maximum	55720
Sum	1095911
Count	53

Zone 10	
Mean	19662.75
Standard Error	10903.57
Median	13638
Mode	#N/A
Standard Deviation	21807.14
Sample Variance	4.76E+08
Kurtosis	-0.322876
Skewness	1.036921
Range	46625
Minimum	2375
Maximum	49000
Sum	78651
Count	4

Appendix C-4: Field salinity values and statistical analysis of salinity zones in the Remark area

## Field Salinity Samples

Zone 11	Zone 12	Zone 14
768	1457	1776
1743	1580	15938
2245	12202	19258
2693	26604	21316
21878	26744	23472
23010	29037	28117
34664	33397	28863
1552	39277	35419
7896	44331	36748
24292	44940	51450
2274	45808	52500
1143	46690	40700
21878	48650	35868
18439	50789	40097
15370	64444	29663
2182	64622	6931
2756	67112	994
490	12459	23637
2703	16587	17906
9455	31258	43900
495	8458	21663
23010	48649	7130
34664	43750	31400
768	47460	
2069	56820	
8708	15248	
1028	24952	
2454	1703	
4816	9474	
24598	396	
950	1233	
3187	42420	

## Salinity Statistics

Entire Berri Reach	
Mean	21654.26
Standard Error	1958.623
Median	20287
Mode	768
Standard Deviation	18581.13
Sample Variance	3.45E+08
Kurtosis	-0.719011
Skewness	0.564465
Range	66716
Minimum	396
Maximum	67112
Sum	1948883
Count	90

Zone 12	
Mean	29427.4
Standard Error	3556.68
Median	29037
Mode	#N/A
Standard Deviation	21041.6
Sample Variance	4.43E+08
Kurtosis	-1.261559
Skewness	0.099533
Range	66716
Minimum	396
Maximum	67112
Sum	1029959
Count	35

Zone 11	
Mean	9505.563
Standard Error	1909.796
Median	2729.5
Mode	768
Standard Deviation	10803.44
Sample Variance	1.17E+08
Kurtosis	-0.174623
Skewness	1.07361
Range	34174
Minimum	490
Maximum	34664
Sum	304178
Count	32

Zone 14	
Mean	26728.09
Standard Error	3023.818
Median	28117
Mode	#N/A
Standard Deviation	14501.72
Sample Variance	2.1E+08
Kurtosis	-0.557255
Skewness	-0.091466
Range	51506
Minimum	994
Maximum	52500
Sum	614746
Count	23

Appendix C-5: Field salinity values and statistical analysis of salinity zones in the Berri area