APPENDIX H: SUPPLEMENTAL FAR-FIELD MODELING RESULTS

Percentile	Ammonia (mg/L as N)				Total Nitrogen (mg/L)			
	Summer operations		*Winter operations*		*Summer operations*		*Winter operations*	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
Sacramento River at Emmaton								
5%	0.00	0.00	0.01	0.02	0.00	0.00	0.02	0.01
25%	0.00	0.00	0.04	0.05	0.00	0.00	0.03	0.06
50%	0.00	0.00	0.06	0.08	0.00	0.00	0.06	0.08
75%	0.00	0.00	0.06	0.10	0.00	0.00	0.06	0.11
95%	0.00	0.00	0.08	0.13	0.00	0.00	0.09	0.13
99.91%	0.00	0.00	0.12	0.18	0.00	0.00	0.13	0.18
mean	0.00	0.00	0.05	0.07	0.00	0.00	0.06	0.07
San Joaquin River at Stockton								
5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75%	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
95%	0.00	0.00	0.02	0.03	0.00	0.00	0.03	0.03
99.91%	0.00	0.00	0.05	0.06	0.00	0.00	0.06	0.06
mean	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00
Delta Mendota Canal Headworks								
5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01
50%	0.00	0.00	0.03	0.04	0.00	0.00	0.02	0.04
75%	0.00	0.00	0.04	0.06	0.00	0.00	0.04	0.06
95%	0.00	0.00	0.06	0.08	0.00	0.00	0.06	0.08
99.91%	0.00	0.00	0.07	0.11	0.00	0.00	0.08	0.10
mean	0.00	0.00	0.03	0.03	0.00	0.00	0.03	0.04

APPENDIX H: SUPPLEMENTAL FAR-FIELD MODELING RESULTS

Percentile	Nitrate + Nitrite (mg/L as N)		TKN (mg/L as N)			
			Summer operations		*Winter operations*	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
Sacramento River at Emmaton						
5%	0.00	0.00	0.00	0.00	0.01	0.02
25%	0.00	0.00	0.00	0.00	0.03	0.07
50%	0.00	0.00	0.00	0.00	0.06	0.09
75%	0.00	0.00	0.00	0.00	0.07	0.11
95%	0.00	0.00	0.00	0.01	0.10	0.14
99.91%	0.01	0.00	0.00	0.00	0.14	0.20
mean	0.00	0.00	0.00	0.01	0.05	0.09
San Joaquin River at Stockton						
5%	0.00	0.00	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.00	0.00	0.00	0.00
50%	0.00	0.00	0.00	0.00	0.00	0.00
75%	0.00	0.00	0.00	0.00	0.00	0.01
95%	0.00	0.00	0.00	0.00	0.03	0.03
99.91%	0.00	0.00	0.00	0.00	0.06	0.07
mean	0.00	0.00	0.00	0.00	0.00	0.01
Delta Mendota Canal Headworks						
5%	0.00	0.00	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.00	0.01	0.00	0.01
50%	0.00	0.00	0.00	0.01	0.03	0.04
75%	0.00	0.00	0.00	0.00	0.05	0.06
95%	0.00	0.00	0.00	0.00	0.07	0.08
99.91%	0.00	0.00	0.00	0.00	0.08	0.11
mean	0.00	0.00	0.00	0.00	0.03	0.04

APPENDIX H: SUPPLEMENTAL FAR-FIELD MODELING RESULTS

Percentile	Total Phosphorus (mg/L as P)		Chloride (mg/L)		Total Organic Carbon (mg/L)	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
Sacramento River at Emmaton						
5%	0.00	0.00	0.1	0.1	0.01	0.01
25%	0.01	0.00	0.1	0.2	0.03	0.04
50%	0.01	0.01	0.2	0.3	0.04	0.06
75%	0.01	0.01	0.3	0.4	0.05	0.07
95%	0.01	0.01	0.3	0.5	0.06	0.10
99.91%	0.01	0.02	0.5	0.7	0.10	0.13
mean	0.01	0.01	0.2	0.3	0.04	0.05
San Joaquin River at Stockton						
5%	0.00	0.00	0.0	0.0	0.00	0.00
25%	0.00	0.00	0.0	0.0	0.00	0.00
50%	0.00	0.00	0.0	0.0	0.00	0.00
75%	0.00	0.00	0.0	0.0	0.00	0.01
95%	0.01	0.00	0.1	0.1	0.01	0.02
99.91%	0.00	0.01	0.2	0.2	0.04	0.04
mean	0.00	0.00	0.0	0.0	0.00	0.00
Delta Mendota Canal Headworks						
5%	0.00	0.00	0.0	0.0	0.00	0.00
25%	0.00	0.00	0.0	0.1	0.00	0.01
50%	0.00	0.00	0.1	0.1	0.02	0.03
75%	0.01	0.00	0.2	0.2	0.03	0.04
95%	0.01	0.01	0.2	0.3	0.04	0.06
99.91%	0.00	0.01	0.3	0.4	0.06	0.07
mean	0.00	0.00	0.1	0.1	0.02	0.02

APPENDIX H: SUPPLEMENTAL FAR-FIELD MODELING RESULTS

Percentile	Electrical Conductivity (μmhos/cm)	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
San Joaquin River at Stockton		
5%	0.0	0.0
25%	0.0	0.0
50%	0.0	0.0
75%	0.2	0.2
95%	0.8	0.9
99.91%	1.7	2.0
mean	0.1	0.2
Delta Mendota Canal Headworks		
5%	0.0	0.0
25%	0.2	0.4
50%	0.8	1.2
75%	1.4	1.8
95%	1.8	2.6
99.91%	2.3	3.4
mean	0.8	1.2

Percentile	Total Dissolved Solids (mg/L)		Total Mercury (ng/L)	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
Sac River at Greene's Landing/Hood				
5%	0.2	0.4	0.00	0.01
25%	0.7	1.0	0.00	0.01
50%	1.0	1.5	0.01	0.02
75%	1.4	2.1	0.02	0.02
95%	2.0	2.9	0.02	0.03
99.91%	3.1	4.1	0.03	0.04
mean	1.0	1.6	0.01	0.01
Sacramento River at Emmaton				
5%	0.2	0.3	0.01	0.00
25%	0.6	1.0	0.01	0.01
50%	1.0	1.4	0.01	0.01
75%	1.1	1.7	0.01	0.01
95%	1.5	2.3	0.02	0.02
99.91%	2.2	3.1	0.03	0.03
mean	0.9	1.3	0.01	0.01
San Joaquin River at Stockton				
5%	0.0	0.0	0.00	0.00
25%	0.0	0.0	0.00	0.00
50%	0.0	0.0	0.00	0.00
75%	0.1	0.1	0.00	0.00
95%	0.4	0.5	0.01	0.00
99.91%	0.9	1.1	0.01	0.01
mean	0.1	0.1	0.01	0.00

APPENDIX H: SUPPLEMENTAL FAR-FIELD MODELING RESULTS

Percentile	Total Dissolved Solids (mg/L)		Total Mercury (ng/L)	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
Contra Costa Water District Pumping Plant #1 Intake				
5%	0.1	0.1	0.00	0.00
25%	0.4	0.8	0.01	0.01
50%	0.8	1.2	0.01	0.01
75%	1.0	1.5	0.01	0.01
95%	1.5	2.1	0.02	0.02
99.91%	2.2	2.8	0.03	0.02
mean	0.8	1.1	0.01	0.01
Contra Costa Water District Los Vaqueros Intake				
5%	0.0	0.0	0.00	0.00
25%	0.3	0.6	0.00	0.00
50%	0.8	1.1	0.01	0.01
75%	1.1	1.5	0.02	0.01
95%	1.4	2.1	0.01	0.02
99.91%	2.0	2.7	0.02	0.02
mean	0.7	1.1	0.00	0.01
Harvey O. Banks Delta Pumping Plant / Clifton Court Forebay				
5%	0.0	0.0	0.00	0.00
25%	0.3	0.5	0.00	0.01
50%	0.8	1.0	0.00	0.01
75%	1.1	1.4	0.01	0.02
95%	1.5	2.1	0.02	0.02
99.91%	2.0	2.8	0.02	0.03
mean	0.7	1.0	0.01	0.01

APPENDIX H: SUPPLEMENTAL FAR-FIELD MODELING RESULTS

Percentile	Total Dissolved Solids (mg/L)		Total Mercury (ng/L)	
	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)	Increment between Permitted Flow and Current Flow (181 - 154 mgd)	Antideg Increment above Permitted Flow (218 - 181 mgd)
	Delta Mendota Canal Headworks			
5%	0.0	0.0	0.00	0.00
25%	0.1	0.2	0.00	0.00
50%	0.5	0.7	0.00	0.01
75%	0.7	0.9	0.01	0.01
95%	1.0	1.4	0.01	0.01
99.91%	1.2	1.8	0.01	0.02
mean	0.5	0.6	0.00	0.01