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Turkey Point Plant

Annual Post-Uprate Monitoring Report

Units 3 & 4 Uprate Project

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2010 and June 2012. Currently, the modeled period extends through May 2014 and encompasses a Post-Uprate period.

The conceptual model and associated calculations are predominantly unchanged since last presented in the Comprehensive Pre-Uprate Report. As such, only a brief summary of the model is provided below. In addition, model results and corresponding conclusions regarding the operation of the CCS, based on the current calibrated water and salt balance model, are provided herein. The Excel spreadsheet that comprises the model is provided in a separate data file.

5.3.1 Model Summary

As Figure 5.3-1 depicts, the water balance for the proposed control volume is comprised of seepage (lateral through the sides and vertical through the bottom), blowdown (additional water pumped from other units to the CCS), precipitation (including runoff from earth berms between canals), and evaporation. Aside from evaporation and precipitation, these are the same mechanisms by which salt flows into and out of the CCS. The means by which water and/or salt is transferred (e.g., seepage, evaporation) are calculated using various equations provided in the Comprehensive Pre-Uprate Report (FPL 2012). Calculations were performed for a 45-month period from September 2010 through May 2014. Average flows of water and salt into and out of the control volume were calculated for each day of this period using hydrologic, water quality, and meteorological data measured within, beneath, and adjacent to the CCS. The average daily flows were summed to estimate the amount of water and salt that enters or exits the control volume (i.e., the CCS) during each month and the entire 45-month period. These calculations demonstrate and validate the conceptual model of the CCS and, in so doing, illustrate the hydrologic mechanisms by which the CCS functions.

Calculated water flows are reported in 10^6 gallons per day (millions of gallons per day [MGD]). The mass flux into or out of the control volume is calculated by multiplying the volumetric flow by the salinity of the body of water from which the water is flowing. Salinity was monitored at all groundwater and surface water stations employed in the ensuing calculations and was reported in the practical salinity scale (PSS-78), which is equivalent to grams per liter (g/L). Calculated mass fluxes are reported in thousands of pounds per day (lb x 1000/day).

The gain/loss of water and salt mass within the control volume during some period of time results in a change in the control volume's water and salt mass storage. Increased water storage, for instance, occurs when more water enters the control volume than exits. Storage, then, can be estimated by summing all of the components of the water (and salt) balance. When the net flow is positive (into the control volume) during a specified period of time, the storage of control volume increases. Conversely, a net negative (out of the control volume) flow implies a decrease in storage during a specified time period.

Another manner in which a change in storage can be estimated relies on direct measurements of water elevations and salinities within the control volume. A change in water elevation within the control volume can be calculated as a difference between water elevations at the beginning and end of a specified time period. The product of this change in water elevations and the

surface area of the control volume provide an estimate of the change in the volume of water contained in the control volume during that period of time. Estimates of daily storage changes derived from this method are used to further calibrate the water and salt balance model to ensure an accurate simulation of temporal trends CCS water elevation and salinity.

5.3.2 Results and Discussion

The individual components of the water and salt balance were simulated daily and summed for each month from September 2010 through May 2014, as well as for the collective 45-month period. The individual components of flow are summed in order to calculate a simulated change in volume for each month and for the 45-month period. These simulated changes in storage were compared to observed changes in CCS water and salt storage for each month and the entire calibration period. Errors between the simulated and observed storage changes were minimized by adjusting key variables associated with the flow balance model; this process is called calibration. The calibration process ensures that the model can accurately reflect the average changes in CCS storage over the 45-month time frame, while also effectively capturing day-to-day changes in CCS water and mass storage. Calibration of the water and salt balance model was achieved by adjusting hydraulic conductivities of the aquifer materials adjacent to and beneath the CCS that factor into the calculation of seepage to/from groundwater and Biscayne Bay. Additional adjustable parameters include the coefficients in the wind function (FPL 2012), the amount of runoff that enters the control volume as percentage of precipitation, the amount of Unit 5 cooling tower water that is lost to evaporation before entering the CCS, and the salinity of the Unit 5 blowdown as a percentage of seawater. The calibrated model parameter values are provided in Table 5.3-1.

The horizontal hydraulic conductivities laterally adjacent to the control volume were calibrated to range between 500 ft/d and 950 ft/d. The calibrated vertical conductivities beneath the control volume ranged from 0.1 ft/day to 4 ft/d. The northern portion of the discharge canals and return canals, where it is assumed deeper canals intersect highly permeable material underlying the muck and Miami limestone, were calibrated to have higher vertical hydraulic conductivities (3.8 ft/d and 4 ft/d, respectively). Lower vertical conductivities were calibrated for the mid- and southern portions of the discharge canals, as well as the southern portion of the return canals (0.1 ft/d).

Results of the simulated 45-month water and salt balance model are provided in Tables 5.3-2 and 5.3-3, respectively. Monthly balance results follow in Table 5.3-4 through Table 5.3-5. The modeled net flow of water, as calculated by the summing the components of the water balance for the 45-month calibration period, is denoted as the "Modeled Change in CCS Storage" and was calculated to be an average inflow of 0.05 MGD over the 45-month calibration period. The observed change in storage, which is the difference in the volume of water in the CCS between the final and first days of the calibration period, divided by the number of days in the period, was observed to be 0.31 MGD (inflow). Though the model underestimated the net inflow of water from the CCS, the residual error between the simulated and observed flow is only 0.26 MGD. This error is small (0.26%) relative to the monthly net observed flows, which for the entire 45-month period range from a net outflow of 46.6 MGD (October 2010) and a net inflow of 52.1

MGD (September 2010). During the Post-Uprate period (June 2013 – May 2014), the monthly net observed flows range from a net outflow of 31.1 MGD (June 2013) to a net inflow of 19.6 MGD (July 2013). The model simulates a net outflow of 3.26 MGD of water from the CCS during the Post-Uprate period, which matches the observed net outflow of water during Post-Uprate (3.42 MGD) reasonably well. The net outflow of water during this timeframe is predominantly attributable to a relative lack of precipitation (which accounts for 30% of the simulated inflow during this timeframe) and relatively high evaporation (which accounts for 85% of the simulated outflow). During the simulated Pre-Uprate and Interim Operating period (September 2010 through May 2013), precipitation accounted for 39.4% of inflowing water to the CCS and evaporation accounted for 63.7% of the outflowing water from the CCS.

The model simulated a net influx of salt over the 45-month period at rate of 1,938 (lb x 1,000)/day. The corresponding observed rate of salt inflow was calculated by multiplying the average observed salinity in the CCS on the final and first day of the calibration period by the corresponding CCS volumes on those days. The difference between these two products, divided by the number of days in the calibration period, provides the net inflow of salt, 497 (lb x 1,000)/day. The error associated with the mass flux is an overestimation by approximately 697 (lb x 1,000)/day. As in the case of water balance simulation, the magnitude of this overestimation is small (3.1%) relative to the range in monthly average flows for the entire 45- month period; the monthly net mass fluxes range from an outflow of 13,790 (lb x 1,000)/day (October 2010) to an inflow of 8,659 (lb x 1,000)/day (June 2011). During the Post-Uprate period (June 2013 – May 2014), the monthly observed net salt mass fluxes range from a net outflow of 6,529 (lb x 1,000)/day (December 2013) to a net inflow of 5,847 (lb x 1,000)/day (April 2014). There was a net gain of salt within the CCS during the Post-Uprate period of 2,216 (lb x 1,000)/day. This gain in salt is likely to be attributable to two factors. First, the relative paucity in freshwater precipitation resulted in reduced CCS water levels. As such, groundwater and associated salt mass account for much of the inflow to the CCS during the Post-Uprate period. Second, the low water levels and relatively high evaporation (which removes freshwater from the CCS and leaves salt behind) resulted in seepage to groundwater being a relatively small component of the water and mass outflow from the CCS. Thus, CCS salt mass outflow was not a pronounced element of the salt balance during the Post-Uprate period and salt mass from evaporation was generally retained. As a result, the CCS gained salt between June 2013 and May 2014.

Figures 5.3-2 and 5.3-3 illustrate the model's ability to match the magnitude and direction of net monthly flows of water and salt, respectively. Figure 5.3-2 compares observed and modeled net monthly flows of water into and out of the CCS. There is a seasonal trend in observed flows to/from the CCS, where inflows are generally associated with the wet season and outflows are generally associated with the dry season. The model is able to replicate this trend reasonably well. However, there are isolated months where the model does not accurately simulate the net flow (e.g., April and September 2011). Figure 5.3-3 compares observed and modeled net monthly flows of salt into and out of the CCS. Like the modeled water flows, estimated salt mass fluxes generally match observed fluxes well, though there are individual months where the estimated mass flux is less accurate.

Implicit in the model's ability to simulate monthly net water and salt mass flows is the accurate simulation of daily flows to and from the CCS. Because the model is able to characterize the daily flows of water and salt, the model estimates the daily changes in CCS water and salt storage. As previously mentioned, these changes in storage are associated with daily changes in CCS water levels and salinity. Figure 5.3-4 shows the model-calculated water level in the CCS, which varies over the period of record. These modeled water levels range between approximately -1.5 ft NAVD 88 and 1 ft NAVD 88, and reflects an average water level throughout the entire CCS. Also shown in this figure are the observed CCS water levels over time; the observed values reflect the mean of daily-averaged water elevations across the seven sensors in the CCS. Simulated water elevations are calculated by dividing the simulated daily change in CCS storage by the average daily CCS surface area and adding the resulting value (which reflects a change in water level) to the previous day's simulated water elevation. It is evident from this figure that the model effectively captures the general trend in CCS water elevations over the 45-month period, and accurately simulates average CCS water elevations throughout much of the calibration period.

Similarly, changes in salt mass storage within the CCS can be used to calculate average CCS salinity changes over time. The simulated daily net flow of salt is divided by the simulated volume of water in the CCS, which results in a change in salinity. This change in salinity is added to the simulated salinity calculated for the previous day to produce a simulated salinity for the current day. Like the simulated CCS water level, the model salinity reflects a representative daily salinity throughout the CCS. Figure 5.3-5 compares the simulated salinities to those observed in the CCS over the period of record. Observed salinities are the mean of daily averaged salinities measured in the CCS monitoring stations. The modeled CCS salinity changes over time match changes in the average observed CCS salinity throughout the 45-month period of record. This timeframe includes the recent rise in salinity from approximately 60 g/L to approximately 90 g/L. That the model can match this notable increase in CCS salinity reinforces the conceptual model, which suggests that changes in CCS salinity are predicated solely on changes in the flow of water into and out of the CCS.

The accurate simulation of changing CCS inflows, outflows, water elevations and salinities is complex due to the different components of the balance model and their varying impacts upon CCS water and salt storage. For instance, vertical flows into and out of the control volume are generally larger than horizontal flows, and have a greater impact upon CCS water elevation. The salinity of inflowing water, however, can vary depending upon the source of the water. For example, horizontal flow from the west (L-31E) is non-saline and has a pronounced mitigating impact upon CCS salinities; vertical flow from groundwater beneath portions of the discharge canals is saline to hyper-saline and generally increases the salinity of the CCS. The correct balance of both water and salt mass flow is difficult to estimate in the model. In addition, the simulated timeframe encompasses both Pre- and Post-Uprate periods, during which CCS water temperatures slightly increase. The model addresses associated impacts to the CCS by explicitly simulating the effects of water/air temperature gradients on evaporation. Whereas myriad sources and sinks of water, varying salinities, and changes in water temperature do increase model complexity, the need to accurately simulate these different components of CCS operation constrains the number of possible solutions.

Though the model is able to simulate the complex dynamics associated with the CCS over a 45-month timeframe with reasonable accuracy, there are periods of time where the simulated flows of water and salt do not accurately reflect observed conditions. Consequently, the simulated water level and salinities in the CCS deviate from those that have been observed at various times in the simulation period. However, the overall performance of the model reinforces its utility as a tool for understanding how the CCS has and will operate under varying meteorological, hydrological, and operational conditions. This is best demonstrated by the fact that the same conceptual model employed to characterize changes in CCS storage of water and salt during the Pre-Uprate period is used to explain changes in storage during the Post-Uprate period. This is a period of time during which water levels have generally decreased, salinities have dramatically increased and water temperatures have risen within the CCS. Nevertheless, the exchanges of flows between the CCS and surrounding environment during Post-Uprate are governed by the same hydrologic principles as during the Pre-Uprate period. This robustness and accuracy in the model underpins FPL's firm understanding of processes that control the CCS and the manner in which the CCS interacts with the adjacent aquifer and water bodies. This accuracy in simulating the historical changes within the CCS bolsters confidence in the model's utility as a tool to evaluate the sensitivity of CCS operations to certain factors such as changes in operation, drought conditions, storm events, and other potential environmental stresses. Additionally, the model accuracy validates the fact that the most appropriate data are being collected to effectively capture CCS operations, identify interactions between the CCS and the surrounding environment, and support FPL's comprehension of historical and future operations of the CCS.

TABLES

Table 5.3-1. Calibration Parameters

Parameter Name	Calibrated Value	Units
Vertical Hydraulic Conductivity (Zone A)	3.8	ft/day
Vertical Hydraulic Conductivity (Zone B)	0.1	ft/day
Vertical Hydraulic Conductivity (Zone C)	0.1	ft/day
Vertical Hydraulic Conductivity (Zone D)	4	ft/day
West Face Hydraulic Conductivity	950	ft/day
East Face Hydraulic Conductivity	1000	ft/day
North Face Hydraulic Conductivity	500	ft/day
South Face Hydraulic Conductivity	500	ft/day
Evaporation Modifier (Factor Multiplier)	0.69	
Runoff Modifier (as % of Precipitation)	34%	
Blowdown Evaporation Factor	20%	
Blowdown Concentration (as % of Seawater)	0.4	

Table 5.3-2. Calculated Fluid Flows from Water Budget Components

September 2010 to May 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.92	1256.71
	E. Seepage	15.37	21044.68
	N. Seepage	0.01	13.96
	S. Seepage	2.39	3274.42
	Bottom Seepage	11.47	15708.95
	Precipitation and Runoff	20.44	27984.72
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.47	648.79
	Unit 5 Blowdown	0.92	1256.99
	ID Pumping	3.31	4529.48
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**55.31**	**75718.69**
Out of CCS	W. Seepage	0.00	-3.91
	E. Seepage	-4.12	-5642.91
	N. Seepage	-0.01	-8.68
	S. Seepage	-0.12	-162.98
	Bottom Seepage	-12.48	-17091.43
	Precipitation and Runoff	0.00	0.00
	Evaporation	-38.53	-52744.39
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-55.26**	**-75654.30**
Modeled Change in CCS Storage:		**0.05**	**64.39**
Observed Change		**0.31**	**417.57**

Key:
CCS = Cooling Canal System.
gal = Gallon.
ID = Interceptor Ditch.
MGD = Million gallons per day.

Table 5.3-3. Calculated Mass Flows from Salt Budget Components

September 2010 to May 2014			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	6.55	8965.03
	E. Seepage	4324.59	5920366.26
	N. Seepage	2.30	3150.21
	S. Seepage	466.15	638163.40
	Bottom Seepage	3350.12	4586312.27
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	107.28	146861.12
	ID Pumped Water	363.67	497869.29
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**8620.66**	**11801687.58**
Out of CCS	W. Seepage	-42.58	-58287.90
	E. Seepage	-1632.46	-2234836.51
	N. Seepage	-3.05	-4179.04
	S. Seepage	-63.49	-86913.97
	Bottom Seepage	-5685.41	-7783332.80
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-7426.99**	**-10167550.22**
Modeled Change in CCS Storage:		**1193.67**	**1634137.36**
Observed Change		**497.04**	**680445.13**

Key:
CCS = Cooling Canal System.
ID = Interceptor Ditch.
lb = Pound(s).

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

September 2010			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.73	21.80
	E. Seepage	10.82	324.68
	N. Seepage	0.02	0.45
	S. Seepage	2.54	76.13
	Bottom Seepage	8.29	248.59
	Precipitation and Runoff	78.65	2359.64
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.64
	Unit 5 Blowdown	0.98	29.36
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**102.31**	**3069.29**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-6.06	-181.83
	N. Seepage	0.00	-0.08
	S. Seepage	0.00	0.00
	Bottom Seepage	-7.18	-215.33
	Precipitation and Runoff	0.00	0.00
	Evaporation	-38.11	-1143.43
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-51.36**	**-1540.66**
Modeled Change in CCS Storage:		**50.95**	**1528.63**
Observed Change		**52.14**	**1564.08**

Key:
CCS = Cooling Canal System.
gal = Gallon.
ID = Interceptor Ditch.
MGD = Million gallons per day.

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

October 2010			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.25	7.86
	E. Seepage	0.74	22.98
	N. Seepage	0.00	0.15
	S. Seepage	2.04	63.20
	Bottom Seepage	6.04	187.28
	Precipitation and Runoff	13.60	421.63
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.93
	Blowdown	0.75	23.11
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**23.71**	**735.14**
Out of CCS	W. Seepage	-0.01	-0.33
	E. Seepage	-24.43	-757.44
	N. Seepage	-0.01	-0.19
	S. Seepage	-0.04	-1.13
	Bottom Seepage	-23.74	-735.81
	Precipitation and Runoff	0.00	0.00
	Evaporation	-29.88	-926.14
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-78.10**	**-2421.04**
Modeled Change in CCS Storage:		**-54.38**	**-1685.91**
Observed Change		**-46.60**	**-1444.52**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

November 2010			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.30	9.12
	E. Seepage	4.85	145.62
	N. Seepage	0.00	0.14
	S. Seepage	1.77	53.17
	Bottom Seepage	1.67	50.15
	Precipitation and Runoff	26.93	807.85
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.64
	Blowdown	0.50	14.98
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**36.32**	**1089.69**
Out of CCS	W. Seepage	-0.07	-1.99
	E. Seepage	-7.91	-237.30
	N. Seepage	0.00	-0.11
	S. Seepage	-0.02	-0.66
	Bottom Seepage	-14.98	-449.29
	Precipitation and Runoff	0.00	0.00
	Evaporation	-29.16	-874.94
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-52.14**	**-1564.29**
Modeled Change in CCS Storage:		**-15.82**	**-474.60**
Observed Change		**-5.02**	**-150.50**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

December 2010			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.85	26.31
	E. Seepage	18.20	564.28
	N. Seepage	0.00	0.00
	S. Seepage	1.60	49.75
	Bottom Seepage	2.36	73.31
	Precipitation and Runoff	3.79	117.56
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.93
	Blowdown	0.72	22.33
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**27.82**	**862.46**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.49	-15.24
	N. Seepage	-0.01	-0.41
	S. Seepage	0.00	-0.13
	Bottom Seepage	-15.08	-467.61
	Precipitation and Runoff	0.00	0.00
	Evaporation	-27.76	-860.43
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-43.35**	**-1343.82**
Modeled Change in CCS Storage:		**-15.53**	**-481.36**
Observed Change		**-12.72**	**-394.29**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

January 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.76	54.46
	E. Seepage	9.94	308.08
	N. Seepage	0.00	0.00
	S. Seepage	1.38	42.83
	Bottom Seepage	2.80	86.95
	Precipitation and Runoff	19.42	602.16
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.93
	Blowdown	0.82	25.40
	ID Pumping	4.91	152.24
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**41.32**	**1281.04**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-4.19	-129.74
	N. Seepage	-0.01	-0.45
	S. Seepage	0.00	0.00
	Bottom Seepage	-18.38	-569.72
	Precipitation and Runoff	0.00	0.00
	Evaporation	-26.80	-830.84
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-49.38**	**-1530.75**
Modeled Change in CCS Storage:		**-8.06**	**-249.71**
Observed Change		**-2.54**	**-78.88**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

February 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.26	35.15
	E. Seepage	25.22	706.19
	N. Seepage	0.00	0.00
	S. Seepage	2.80	78.37
	Bottom Seepage	10.00	279.99
	Precipitation and Runoff	0.70	19.51
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.06
	Blowdown	0.70	19.46
	ID Pumping	2.25	63.03
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**43.21**	**1209.76**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.38	-10.77
	N. Seepage	-0.02	-0.56
	S. Seepage	0.00	0.00
	Bottom Seepage	-19.59	-548.63
	Precipitation and Runoff	0.00	0.00
	Evaporation	-32.26	-903.41
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-52.26**	**-1463.38**
Modeled Change in CCS Storage:		**-9.06**	**-253.62**
Observed Change		**-14.26**	**-399.40**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

March 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.41	43.73
	E. Seepage	20.83	645.80
	N. Seepage	0.00	0.08
	S. Seepage	3.06	94.99
	Bottom Seepage	11.11	344.53
	Precipitation and Runoff	7.12	220.82
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.93
	Blowdown	0.66	20.55
	ID Pumping	9.37	290.40
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**53.87**	**1669.85**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.31	-9.51
	N. Seepage	0.00	-0.14
	S. Seepage	0.00	0.00
	Bottom Seepage	-17.95	-556.34
	Precipitation and Runoff	0.00	0.00
	Evaporation	-33.91	-1051.21
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-52.17**	**-1617.21**
Modeled Change in CCS Storage:		**1.70**	**52.64**
Observed Change		**3.19**	**99.02**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

April 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.11	33.40
	E. Seepage	29.39	881.74
	N. Seepage	0.00	0.13
	S. Seepage	3.75	112.65
	Bottom Seepage	16.92	507.68
	Precipitation and Runoff	10.36	310.85
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.64
	Blowdown	1.13	33.95
	ID Pumping	7.46	223.80
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**70.43**	**2112.84**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	0.00	-0.06
	S. Seepage	0.00	0.00
	Bottom Seepage	-18.57	-557.09
	Precipitation and Runoff	0.00	0.00
	Evaporation	-35.31	-1059.27
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-53.88**	**-1616.42**
Modeled Change in CCS Storage:		**16.55**	**496.41**
Observed Change		**-7.85**	**-235.45**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

May 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.44	44.50
	E. Seepage	47.76	1480.44
	N. Seepage	0.00	0.00
	S. Seepage	4.38	135.75
	Bottom Seepage	28.64	887.78
	Precipitation and Runoff	6.92	214.50
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.93
	Blowdown	1.16	35.93
	ID Pumping	14.81	459.13
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**105.39**	**3266.96**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	-0.04	-1.19
	S. Seepage	0.00	0.00
	Bottom Seepage	-51.71	-1603.15
	Precipitation and Runoff	0.00	0.00
	Evaporation	-42.03	-1302.87
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-93.78**	**-2907.21**
Modeled Change in CCS Storage:		**11.60**	**359.75**
Observed Change		**11.51**	**356.77**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

June 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.59	47.67
	E. Seepage	38.31	1149.35
	N. Seepage	0.00	0.00
	S. Seepage	4.26	127.95
	Bottom Seepage	28.84	865.18
	Precipitation and Runoff	8.02	240.68
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.53	15.99
	Blowdown	1.02	30.60
	ID Pumping	16.13	483.83
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**98.71**	**2961.25**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.01	-0.27
	N. Seepage	-0.03	-1.02
	S. Seepage	0.00	0.00
	Bottom Seepage	-43.32	-1299.71
	Precipitation and Runoff	0.00	0.00
	Evaporation	-46.24	-1387.09
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-89.60**	**-2688.10**
Modeled Change in CCS Storage:		**9.11**	**273.16**
Observed Change		**10.30**	**309.07**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

July 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.95	60.52
	E. Seepage	4.81	149.10
	N. Seepage	0.00	0.00
	S. Seepage	1.56	48.21
	Bottom Seepage	5.91	183.20
	Precipitation and Runoff	45.19	1400.79
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.54	16.59
	Blowdown	1.13	35.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**61.08**	**1893.42**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-12.01	-372.46
	N. Seepage	-0.01	-0.43
	S. Seepage	-0.05	-1.58
	Bottom Seepage	-14.48	-449.03
	Precipitation and Runoff	0.00	0.00
	Evaporation	-46.43	-1439.30
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-72.99**	**-2262.80**
Modeled Change in CCS Storage:		**-11.92**	**-369.38**
Observed Change		**9.24**	**286.59**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

August 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.16	36.08
	E. Seepage	14.19	439.99
	N. Seepage	0.00	0.13
	S. Seepage	2.56	79.39
	Bottom Seepage	7.27	225.36
	Precipitation and Runoff	37.76	1170.55
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.53	16.36
	Blowdown	1.04	32.25
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**64.52**	**2000.11**
Out of CCS	W. Seepage	0.00	-0.05
	E. Seepage	-2.37	-73.46
	N. Seepage	0.00	-0.03
	S. Seepage	0.00	0.00
	Bottom Seepage	-3.97	-123.00
	Precipitation and Runoff	0.00	0.00
	Evaporation	-44.75	-1387.17
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-51.09**	**-1583.72**
Modeled Change in CCS Storage:		**13.43**	**416.39**
Observed Change		**20.17**	**625.23**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

September 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.83	24.75
	E. Seepage	10.10	302.92
	N. Seepage	0.00	0.02
	S. Seepage	2.10	62.99
	Bottom Seepage	3.65	109.50
	Precipitation and Runoff	37.53	1125.82
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.55	16.55
	Blowdown	0.98	29.36
	ID Pumping	5.74	172.08
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**61.47**	**1843.99**
Out of CCS	W. Seepage	-0.02	-0.70
	E. Seepage	-2.05	-61.38
	N. Seepage	-0.01	-0.21
	S. Seepage	0.00	0.00
	Bottom Seepage	-8.12	-243.67
	Precipitation and Runoff	0.00	0.00
	Evaporation	-44.87	-1346.23
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-55.07**	**-1652.19**
Modeled Change in CCS Storage:		**6.39**	**191.81**
Observed Change		**-5.14**	**-154.17**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

October 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.75	23.15
	E. Seepage	6.22	192.95
	N. Seepage	0.00	0.11
	S. Seepage	2.48	76.86
	Bottom Seepage	6.96	215.70
	Precipitation and Runoff	52.98	1642.32
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.52	16.21
	Blowdown	0.75	23.11
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**70.66**	**2190.41**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-9.88	-306.26
	N. Seepage	-0.01	-0.24
	S. Seepage	0.00	0.00
	Bottom Seepage	-12.38	-383.88
	Precipitation and Runoff	0.00	0.00
	Evaporation	-32.60	-1010.53
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-54.87**	**-1700.91**
Modeled Change in CCS Storage:		**15.79**	**489.50**
Observed Change		**8.79**	**272.51**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

November 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.47	14.01
	E. Seepage	14.55	436.40
	N. Seepage	0.01	0.22
	S. Seepage	2.26	67.69
	Bottom Seepage	6.76	202.89
	Precipitation and Runoff	1.24	37.18
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.47	14.14
	Blowdown	0.50	14.98
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**26.25**	**787.53**
Out of CCS	W. Seepage	0.00	-0.01
	E. Seepage	-1.08	-32.32
	N. Seepage	0.00	-0.07
	S. Seepage	0.00	0.00
	Bottom Seepage	-4.06	-121.76
	Precipitation and Runoff	0.00	0.00
	Evaporation	-34.24	-1027.32
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-39.38**	**-393.94**
Modeled Change in CCS Storage:		**-13.13**	**393.58**
Observed Change		**-25.56**	**-766.91**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

December 2011			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.03	31.82
	E. Seepage	21.14	655.36
	N. Seepage	0.01	0.16
	S. Seepage	2.52	78.16
	Bottom Seepage	7.44	230.79
	Precipitation and Runoff	1.77	55.02
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.61	18.76
	Blowdown	0.72	22.33
	ID Pumping	9.14	283.37
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**44.38**	**1375.75**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.22	-6.77
	N. Seepage	0.00	-0.13
	S. Seepage	0.00	0.00
	Bottom Seepage	-13.23	-410.20
	Precipitation and Runoff	0.00	0.00
	Evaporation	-30.89	-957.49
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-44.34**	**-1374.58**
Modeled Change in CCS Storage:		**0.04**	**1.16**
Observed Change		**-11.66**	**-361.51**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

January 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.66	51.39
	E. Seepage	25.43	788.46
	N. Seepage	0.00	0.02
	S. Seepage	2.79	86.45
	Bottom Seepage	10.43	323.45
	Precipitation and Runoff	2.83	87.58
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.59	18.37
	Blowdown	0.89	27.50
	ID Pumping	15.39	476.96
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**60.01**	**1860.18**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.03	-0.97
	N. Seepage	-0.02	-0.54
	S. Seepage	0.00	0.00
	Bottom Seepage	-29.36	-910.08
	Precipitation and Runoff	0.00	0.00
	Evaporation	-32.79	-1016.63
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-62.20**	**-1928.22**
Modeled Change in CCS Storage:		**-2.19**	**-68.04**
Observed Change		**-9.98**	**-309.33**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

February 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.24	36.07
	E. Seepage	12.17	353.03
	N. Seepage	0.01	0.23
	S. Seepage	2.04	59.02
	Bottom Seepage	6.98	202.37
	Precipitation and Runoff	35.50	1029.63
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.52	15.17
	Blowdown	0.78	22.68
	ID Pumping	1.50	43.56
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**60.75**	**1761.77**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1.65	-47.80
	N. Seepage	0.00	-0.03
	S. Seepage	0.00	0.00
	Bottom Seepage	-9.41	-272.99
	Precipitation and Runoff	0.00	0.00
	Evaporation	-31.84	-923.30
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-42.90**	**-1244.12**
Modeled Change in CCS Storage:		**17.85**	**517.65**
Observed Change		**12.36**	**358.44**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

March 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.91	28.18
	E. Seepage	18.19	563.76
	N. Seepage	0.02	0.67
	S. Seepage	2.86	88.75
	Bottom Seepage	12.57	389.53
	Precipitation and Runoff	2.42	74.90
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.35	10.99
	Blowdown	0.99	30.56
	ID Pumping	4.10	126.99
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**42.40**	**1314.32**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.54	-16.60
	N. Seepage	0.00	-0.01
	S. Seepage	0.00	0.00
	Bottom Seepage	-7.89	-244.56
	Precipitation and Runoff	0.00	0.00
	Evaporation	-33.18	-1028.59
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-41.61**	**-1289.77**
Modeled Change in CCS Storage:		**0.79**	**24.56**
Observed Change		**-11.24**	**-348.30**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

April 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.45	43.59
	E. Seepage	17.94	538.28
	N. Seepage	0.01	0.25
	S. Seepage	2.80	84.04
	Bottom Seepage	14.20	426.09
	Precipitation and Runoff	50.85	1525.64
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.39	11.73
	Blowdown	0.98	29.41
	ID Pumping	9.76	292.86
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**98.40**	**2951.89**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.28	-8.41
	N. Seepage	0.00	-0.05
	S. Seepage	0.00	0.00
	Bottom Seepage	-13.20	-395.99
	Precipitation and Runoff	0.00	0.00
	Evaporation	-35.04	-1051.09
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-48.52**	**-1455.54**
Modeled Change in CCS Storage:		**49.88**	**1496.35**
Observed Change		**33.69**	**1010.73**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

May 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.23	38.01
	E. Seepage	0.55	17.06
	N. Seepage	0.02	0.74
	S. Seepage	0.93	28.94
	Bottom Seepage	11.40	353.36
	Precipitation and Runoff	41.18	1276.57
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.41	12.61
	Blowdown	0.97	30.04
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**56.69**	**1757.33**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-14.73	-456.50
	N. Seepage	0.00	-0.02
	S. Seepage	0.00	-0.04
	Bottom Seepage	-12.23	-379.01
	Precipitation and Runoff	0.00	0.00
	Evaporation	-33.39	-1035.06
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-60.34**	**-1870.64**
Modeled Change in CCS Storage:		**-3.66**	**-113.31**
Observed Change		**-2.89**	**-89.62**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

June 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.66	19.79
	E. Seepage	3.72	111.63
	N. Seepage	0.02	0.48
	S. Seepage	1.65	49.57
	Bottom Seepage	7.95	238.37
	Precipitation and Runoff	30.82	924.74
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.29	8.66
	Blowdown	1.03	30.98
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**46.14**	**1384.22**
Out of CCS	W. Seepage	0.00	-0.06
	E. Seepage	-10.75	-322.64
	N. Seepage	0.00	-0.02
	S. Seepage	0.00	0.00
	Bottom Seepage	-13.23	-397.04
	Precipitation and Runoff	0.00	0.00
	Evaporation	-33.57	-1007.10
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-57.56**	**-1726.87**
Modeled Change in CCS Storage:		**-11.42**	**-342.65**
Observed Change		**-3.50**	**-105.04**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

July 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.06	32.85
	E. Seepage	0.02	0.63
	N. Seepage	0.02	0.73
	S. Seepage	1.05	32.46
	Bottom Seepage	14.22	440.68
	Precipitation and Runoff	29.66	919.46
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.34	10.51
	Blowdown	1.07	33.07
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**47.43**	**1470.39**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-12.89	-399.63
	N. Seepage	0.00	0.00
	S. Seepage	-0.05	-1.46
	Bottom Seepage	-13.30	-412.33
	Precipitation and Runoff	0.00	0.00
	Evaporation	-39.84	-1235.10
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-66.08**	**-2048.51**
Modeled Change in CCS Storage:		**-18.65**	**-578.12**
Observed Change		**-7.97**	**-247.19**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

August 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.09	33.71
	E. Seepage	6.43	199.31
	N. Seepage	0.02	0.64
	S. Seepage	1.86	57.76
	Bottom Seepage	12.81	396.99
	Precipitation and Runoff	40.10	1243.25
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.27	8.51
	Blowdown	1.10	34.11
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**63.69**	**1974.28**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-6.81	-211.21
	N. Seepage	0.00	0.00
	S. Seepage	-0.02	-0.67
	Bottom Seepage	-8.84	-273.91
	Precipitation and Runoff	0.00	0.00
	Evaporation	-39.04	-1210.28
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-54.71**	**-1696.07**
Modeled Change in CCS Storage:		**8.97**	**278.21**
Observed Change		**21.72**	**673.22**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

September 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.74	22.06
	E. Seepage	2.79	83.61
	N. Seepage	0.01	0.37
	S. Seepage	1.69	50.83
	Bottom Seepage	7.98	239.35
	Precipitation and Runoff	30.04	901.31
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.73	22.00
	Blowdown	0.96	28.93
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**44.95**	**1348.46**
Out of CCS	W. Seepage	-0.01	-0.20
	E. Seepage	-11.11	-333.35
	N. Seepage	0.00	0.00
	S. Seepage	-0.03	-0.77
	Bottom Seepage	-15.01	-450.33
	Precipitation and Runoff	0.00	0.00
	Evaporation	-38.60	-1157.98
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-64.75**	**-1942.63**
Modeled Change in CCS Storage:		**-19.81**	**-594.17**
Observed Change		**-5.35**	**-160.61**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

October 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.31	9.61
	E. Seepage	21.31	660.75
	N. Seepage	0.02	0.63
	S. Seepage	2.62	81.26
	Bottom Seepage	15.41	477.83
	Precipitation and Runoff	14.29	442.88
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.89	27.69
	Blowdown	0.94	29.23
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**55.80**	**1729.88**
Out of CCS	W. Seepage	-0.02	-0.55
	E. Seepage	-4.96	-153.62
	N. Seepage	0.00	-0.06
	S. Seepage	-0.01	-0.40
	Bottom Seepage	-7.18	-222.59
	Precipitation and Runoff	0.00	0.00
	Evaporation	-38.34	-1188.48
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-50.51**	**-1565.69**
Modeled Change in CCS Storage:		**5.30**	**164.19**
Observed Change		**7.58**	**235.01**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

November 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.43	12.93
	E. Seepage	8.63	259.02
	N. Seepage	0.02	0.71
	S. Seepage	2.20	66.04
	Bottom Seepage	14.44	433.31
	Precipitation and Runoff	1.73	51.85
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.79	23.74
	Blowdown	0.66	19.70
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**28.91**	**867.29**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-2.76	-82.85
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-3.44	-103.32
	Precipitation and Runoff	0.00	0.00
	Evaporation	-28.02	-840.52
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-34.22**	**-1026.70**
Modeled Change in CCS Storage:		**-5.31**	**-159.41**
Observed Change		**-3.88**	**-116.28**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

December 2012			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.84	26.02
	E. Seepage	0.48	14.75
	N. Seepage	0.02	0.57
	S. Seepage	1.07	33.05
	Bottom Seepage	8.05	249.53
	Precipitation and Runoff	1.87	57.85
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.50	15.62
	Blowdown	0.75	23.17
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**13.57**	**420.55**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-8.92	-276.63
	N. Seepage	0.00	0.00
	S. Seepage	0.00	-0.01
	Bottom Seepage	-7.14	-221.42
	Precipitation and Runoff	0.00	0.00
	Evaporation	-22.81	-707.02
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-38.87**	**-1205.08**
Modeled Change in CCS Storage:		**-25.31**	**-784.53**
Observed Change		**-28.66**	**-888.55**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

January 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.95	29.50
	E. Seepage	7.94	246.29
	N. Seepage	0.02	0.57
	S. Seepage	2.38	73.65
	Bottom Seepage	9.83	304.76
	Precipitation and Runoff	1.06	32.80
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.52	16.25
	Blowdown	0.87	26.94
	ID Pumping	2.40	74.25
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**25.97**	**805.01**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-2.66	-82.60
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-2.09	-64.77
	Precipitation and Runoff	0.00	0.00
	Evaporation	-23.85	-739.42
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-28.61**	**-886.79**
Modeled Change in CCS Storage:		**-2.64**	**-81.78**
Observed Change		**-10.70**	**-331.69**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

February 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.07	30.08
	E. Seepage	10.79	302.00
	N. Seepage	0.01	0.35
	S. Seepage	2.55	71.41
	Bottom Seepage	9.59	268.52
	Precipitation and Runoff	5.45	152.71
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.34	9.50
	Blowdown	0.82	22.83
	ID Pumping	8.45	236.52
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**39.07**	**1093.92**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-3.25	-91.04
	N. Seepage	0.00	-0.01
	S. Seepage	0.00	0.00
	Bottom Seepage	-7.21	-201.87
	Precipitation and Runoff	0.00	0.00
	Evaporation	-22.90	-641.16
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-33.36**	**-934.09**
Modeled Change in CCS Storage:		**5.71**	**159.83**
Observed Change		**1.10**	**30.86**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

March 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.88	27.34
	E. Seepage	21.89	678.71
	N. Seepage	0.01	0.18
	S. Seepage	3.17	98.25
	Bottom Seepage	16.08	498.39
	Precipitation and Runoff	5.20	161.33
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.52	16.05
	Blowdown	0.96	29.83
	ID Pumping	7.41	229.77
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**56.12**	**1739.86**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	0.00	-0.13
	S. Seepage	0.00	0.00
	Bottom Seepage	-11.23	-348.23
	Precipitation and Runoff	0.00	0.00
	Evaporation	-27.15	-841.74
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-38.39**	**-1190.10**
Modeled Change in CCS Storage:		**17.73**	**549.76**
Observed Change		**3.84**	**119.01**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

April 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.09	32.79
	E. Seepage	25.76	772.76
	N. Seepage	0.00	0.00
	S. Seepage	2.60	78.12
	Bottom Seepage	10.33	309.85
	Precipitation and Runoff	23.05	691.63
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.71	21.24
	Blowdown	0.96	28.69
	ID Pumping	9.24	277.20
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**73.74**	**2212.27**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.14	-4.26
	N. Seepage	-0.02	-0.66
	S. Seepage	0.00	0.00
	Bottom Seepage	-25.36	-760.88
	Precipitation and Runoff	0.00	0.00
	Evaporation	-37.37	-1121.21
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-62.90**	**-1887.02**
Modeled Change in CCS Storage:		**10.84**	**325.25**
Observed Change		**12.76**	**382.66**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

May 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.02	31.48
	E. Seepage	14.39	446.22
	N. Seepage	0.00	0.00
	S. Seepage	1.87	57.86
	Bottom Seepage	4.02	124.74
	Precipitation and Runoff	49.66	1539.39
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.93	28.68
	Blowdown	1.08	33.35
	ID Pumping	6.15	190.71
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**79.11**	**2452.43**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1.90	-59.04
	N. Seepage	-0.01	-0.41
	S. Seepage	-0.02	-0.69
	Bottom Seepage	-16.77	-519.88
	Precipitation and Runoff	0.00	0.00
	Evaporation	-42.31	-1311.46
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-61.02**	**-1891.48**
Modeled Change in CCS Storage:		**18.10**	**560.95**
Observed Change		**22.68**	**703.18**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

June 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	1.07	32.22
	E. Seepage	7.03	210.99
	N. Seepage	0.00	0.00
	S. Seepage	1.06	31.66
	Bottom Seepage	2.24	67.19
	Precipitation and Runoff	18.55	556.60
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.56	16.94
	Blowdown	0.99	29.80
	ID Pumping	0.68	20.52
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**32.20**	**965.92**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-15.80	-474.03
	N. Seepage	-0.02	-0.66
	S. Seepage	-0.63	-18.87
	Bottom Seepage	-23.48	-704.44
	Precipitation and Runoff	0.00	0.00
	Evaporation	-45.17	-1355.04
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-85.10**	**-2553.03**
Modeled Change in CCS Storage:		**-52.90**	**-1587.12**
Observed Change		**-31.07**	**-931.98**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

July 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.92	28.55
	E. Seepage	15.42	478.03
	N. Seepage	0.00	0.02
	S. Seepage	2.04	63.12
	Bottom Seepage	7.38	228.73
	Precipitation and Runoff	48.46	1502.27
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.55	16.95
	Blowdown	1.02	31.72
	ID Pumping	0.70	21.78
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**76.49**	**2371.18**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-3.03	-94.08
	N. Seepage	-0.01	-0.33
	S. Seepage	0.00	0.00
	Bottom Seepage	-10.00	-310.06
	Precipitation and Runoff	0.00	0.00
	Evaporation	-51.16	-1585.93
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-64.21**	**-1990.40**
Modeled Change in CCS Storage:		**12.28**	**380.77**
Observed Change		**19.61**	**607.86**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

August 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.78	24.32
	E. Seepage	22.08	684.41
	N. Seepage	0.01	0.16
	S. Seepage	2.50	77.35
	Bottom Seepage	8.36	259.08
	Precipitation and Runoff	32.70	1013.62
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.70	21.73
	Blowdown	1.28	39.82
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**68.40**	**2120.49**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-3.02	-93.58
	N. Seepage	-0.01	-0.29
	S. Seepage	-0.03	-0.78
	Bottom Seepage	-7.51	-232.82
	Precipitation and Runoff	0.00	0.00
	Evaporation	-73.27	-2271.47
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-83.84**	**-2598.94**
Modeled Change in CCS Storage:		**-15.43**	**-478.45**
Observed Change		**-6.11**	**-189.45**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

September 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.27	7.98
	E. Seepage	16.35	490.64
	N. Seepage	0.01	0.43
	S. Seepage	1.85	55.50
	Bottom Seepage	12.61	378.33
	Precipitation and Runoff	21.01	630.35
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.36	10.89
	Blowdown	0.73	21.80
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**53.20**	**1595.93**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.28	-8.28
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-0.63	-19.03
	Precipitation and Runoff	0.00	0.00
	Evaporation	-34.46	-1033.67
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-35.37**	**-1060.98**
Modeled Change in CCS Storage:		**17.83**	**534.95**
Observed Change		**10.23**	**307.04**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

October 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.32	10.00
	E. Seepage	20.94	649.25
	N. Seepage	0.03	1.02
	S. Seepage	3.47	107.62
	Bottom Seepage	27.04	838.34
	Precipitation and Runoff	7.44	230.56
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.55	16.96
	Blowdown	1.13	34.94
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**60.93**	**1888.70**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.70	-21.55
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-0.25	-7.81
	Precipitation and Runoff	0.00	0.00
	Evaporation	-53.02	-1643.73
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-53.97**	**-1673.08**
Modeled Change in CCS Storage:		**6.96**	**215.62**
Observed Change		**-5.40**	**-167.52**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

November 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.30	8.93
	E. Seepage	17.55	526.60
	N. Seepage	0.03	0.82
	S. Seepage	3.34	100.05
	Bottom Seepage	22.26	667.85
	Precipitation and Runoff	32.66	979.94
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.49	14.56
	Blowdown	0.90	26.92
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**77.52**	**2325.68**
Out of CCS	W. Seepage	0.00	-0.03
	E. Seepage	-0.97	-29.03
	N. Seepage	0.00	0.00
	S. Seepage	-0.52	-15.71
	Bottom Seepage	-1.31	-39.43
	Precipitation and Runoff	0.00	0.00
	Evaporation	-42.96	-1288.94
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-45.77**	**-1373.13**
Modeled Change in CCS Storage:		**31.75**	**952.55**
Observed Change		**13.98**	**419.29**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

December 2013			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.38	11.64
	E. Seepage	5.56	172.29
	N. Seepage	0.01	0.21
	S. Seepage	0.00	0.00
	Bottom Seepage	4.28	132.60
	Precipitation and Runoff	4.49	139.14
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.50	15.50
	Blowdown	0.90	27.77
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**16.10**	**499.14**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-4.05	-125.64
	N. Seepage	0.00	-0.03
	S. Seepage	-3.28	-101.80
	Bottom Seepage	-6.13	-190.01
	Precipitation and Runoff	0.00	0.00
	Evaporation	-40.62	-1259.22
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-54.09**	**-1676.69**
Modeled Change in CCS Storage:		**-37.99**	**-1177.56**
Observed Change		**-21.47**	**-665.45**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

January 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.66	20.51
	E. Seepage	11.24	348.43
	N. Seepage	0.02	0.48
	S. Seepage	1.55	48.07
	Bottom Seepage	9.95	308.55
	Precipitation and Runoff	8.57	265.64
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.47	14.68
	Blowdown	0.84	25.90
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**33.30**	**1032.26**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1.39	-43.04
	N. Seepage	0.00	0.00
	S. Seepage	-0.59	-18.28
	Bottom Seepage	-2.37	-73.59
	Precipitation and Runoff	0.00	0.00
	Evaporation	-37.88	-1174.16
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-42.23**	**-1309.07**
Modeled Change in CCS Storage:		**-8.93**	**-276.81**
Observed Change		**-6.40**	**-198.28**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

January 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.66	20.51
	E. Seepage	11.24	348.43
	N. Seepage	0.02	0.48
	S. Seepage	1.55	48.07
	Bottom Seepage	9.95	308.55
	Precipitation and Runoff	8.57	265.64
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.47	14.68
	Blowdown	0.84	25.90
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**33.30**	**1032.26**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1.39	-43.04
	N. Seepage	0.00	0.00
	S. Seepage	-0.59	-18.28
	Bottom Seepage	-2.37	-73.59
	Precipitation and Runoff	0.00	0.00
	Evaporation	-37.88	-1174.16
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-42.23**	**-1309.07**
Modeled Change in CCS Storage:		**-8.93**	**-276.81**
Observed Change		**-6.40**	**-198.28**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

February 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.79	22.17
	E. Seepage	15.37	430.48
	N. Seepage	0.02	0.57
	S. Seepage	3.49	97.74
	Bottom Seepage	14.67	410.76
	Precipitation and Runoff	10.41	291.45
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.48	13.58
	Blowdown	0.81	22.76
	ID Pumping	1.35	37.89
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**47.41**	**1327.40**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.41	-11.39
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-0.94	-26.25
	Precipitation and Runoff	0.00	0.00
	Evaporation	-51.37	-1438.25
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-52.71**	**-1475.89**
Modeled Change in CCS Storage:		**-5.30**	**-148.49**
Observed Change		**-7.95**	**-222.68**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

March 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.79	24.35
	E. Seepage	16.02	496.70
	N. Seepage	0.02	0.71
	S. Seepage	3.19	98.98
	Bottom Seepage	14.92	462.52
	Precipitation and Runoff	6.87	212.90
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.39	12.07
	Blowdown	1.01	31.25
	ID Pumping	1.93	59.76
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**45.14**	**1399.24**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-0.01	-0.37
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-1.40	-43.38
	Precipitation and Runoff	0.00	0.00
	Evaporation	-49.14	-1523.26
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-50.55**	**-1567.01**
Modeled Change in CCS Storage:		**-5.41**	**-167.78**
Observed Change		**-7.86**	**-243.70**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

April 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.75	22.64
	E. Seepage	27.81	834.36
	N. Seepage	0.02	0.67
	S. Seepage	3.92	117.48
	Bottom Seepage	22.82	684.73
	Precipitation and Runoff	2.40	71.92
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.33	10.01
	Blowdown	1.21	36.35
	ID Pumping	3.19	95.76
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**62.46**	**1873.92**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-5.24	-157.10
	Precipitation and Runoff	0.00	0.00
	Evaporation	-50.28	-1508.52
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-55.52**	**-1665.62**
Modeled Change in CCS Storage:		**6.94**	**208.31**
Observed Change		**1.08**	**32.37**

Table 5.3-4. Calculated Fluid Flows from Water Budget Components

May 2014			
Water Budget Component		**Flow (MGD)**	**Volume (gal x 10^6)**
Into CCS	W. Seepage	0.76	23.63
	E. Seepage	41.30	1280.37
	N. Seepage	0.01	0.18
	S. Seepage	4.24	131.29
	Bottom Seepage	28.85	894.27
	Precipitation and Runoff	7.42	229.90
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.46	14.40
	Blowdown	1.10	34.21
	ID Pumping	7.00	217.08
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**91.14**	**2825.32**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	0.00	-0.06
	S. Seepage	0.00	0.00
	Bottom Seepage	-12.07	-374.12
	Precipitation and Runoff	0.00	0.00
	Evaporation	-67.69	-2098.40
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-79.76**	**-2472.58**
Modeled Change in CCS Storage:		**11.38**	**352.75**
Observed Change		**3.55**	**110.04**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

September 2010			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.53	45.92
	E. Seepage	2500.92	75027.64
	N. Seepage	3.26	97.90
	S. Seepage	104.83	3144.88
	Bottom Seepage	1942.12	58263.66
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	114.36	3430.81
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**4667.03**	**140010.82**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-2444.34	-73330.24
	N. Seepage	-1.00	-30.03
	S. Seepage	0.00	0.00
	Bottom Seepage	-3732.66	-111979.85
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-6178.00**	**-185340.12**
Modeled Change in CCS Storage:		**-1510.98**	**-45329.30**
Observed Change		**1464.29**	**43928.58**

Key:
CCS = Cooling Canal System.
ID = Interceptor Ditch.
lb = Pound.

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

October 2010			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	0.49	15.06
	E. Seepage	149.53	4635.38
	N. Seepage	1.03	32.01
	S. Seepage	7.25	224.80
	Bottom Seepage	1882.00	58341.96
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	87.08	2699.59
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**2127.38**	**65948.81**
Out of CCS	W. Seepage	-103.73	-3215.68
	E. Seepage	-9444.01	-292764.18
	N. Seepage	-2.35	-72.84
	S. Seepage	-14.68	-455.19
	Bottom Seepage	-9054.26	-280682.01
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-18619.03**	**-577189.91**
Modeled Change in CCS Storage:		**-16491.65**	**-511241.10**
Observed Change		**-13790.42**	**-427502.87**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

November 2010			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	0.72	21.47
	E. Seepage	1143.70	34310.91
	N. Seepage	1.02	30.47
	S. Seepage	63.96	1918.87
	Bottom Seepage	538.98	16169.37
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	58.36	1750.73
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**1806.73**	**54201.83**
Out of CCS	W. Seepage	-646.37	-19391.23
	E. Seepage	-2969.21	-89076.29
	N. Seepage	-1.36	-40.70
	S. Seepage	-8.71	-261.42
	Bottom Seepage	-5590.81	-167724.26
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-9216.46**	**-276493.90**
Modeled Change in CCS Storage:		**-7409.74**	**-222292.08**
Observed Change		**-2876.16**	**-86284.89**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

December 2010			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	3.04	94.39
	E. Seepage	4725.01	146475.21
	N. Seepage	0.00	0.00
	S. Seepage	302.77	9385.88
	Bottom Seepage	674.69	20915.51
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	84.15	2608.67
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**5789.67**	**179479.65**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-180.61	-5598.89
	N. Seepage	-4.76	-147.53
	S. Seepage	-1.76	-54.64
	Bottom Seepage	-5505.29	-170663.91
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-5692.42**	**-176464.98**
Modeled Change in CCS Storage:		**97.25**	**3014.68**
Observed Change		**-1555.92**	**-48233.42**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

January 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	6.71	207.92
	E. Seepage	2694.88	83541.26
	N. Seepage	0.02	0.72
	S. Seepage	260.16	8065.07
	Bottom Seepage	805.49	24970.29
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	95.74	2967.93
	ID Pumped Water	185.05	5736.69
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**4048.06**	**125489.88**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1635.00	-50684.88
	N. Seepage	-5.83	-180.58
	S. Seepage	0.00	0.00
	Bottom Seepage	-7338.77	-227501.97
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-8979.59**	**-278367.43**
Modeled Change in CCS Storage:		**-4931.53**	**-152877.56**
Observed Change		**-910.35**	**-28220.95**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

February 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	4.28	119.79
	E. Seepage	6730.29	188448.01
	N. Seepage	0.00	0.00
	S. Seepage	469.04	13133.08
	Bottom Seepage	2790.13	78123.66
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	81.20	2273.71
	ID Pumped Water	73.70	2063.56
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**10148.64**	**284161.82**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-169.22	-4738.19
	N. Seepage	-9.05	-253.36
	S. Seepage	0.00	0.00
	Bottom Seepage	-8852.81	-247878.63
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-9031.08**	**-252870.18**
Modeled Change in CCS Storage:		**1117.56**	**31291.64**
Observed Change		**1264.60**	**35408.76**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

March 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	7.25	224.79
	E. Seepage	6208.79	192472.59
	N. Seepage	0.57	17.59
	S. Seepage	624.64	19363.87
	Bottom Seepage	3113.68	96524.02
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	77.46	2401.17
	ID Pumped Water	774.24	24001.46
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**10806.63**	**335005.48**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-148.18	-4593.68
	N. Seepage	-2.15	-66.72
	S. Seepage	0.00	0.00
	Bottom Seepage	-8266.32	-256256.01
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-8416.66**	**-260916.41**
Modeled Change in CCS Storage:		**2389.97**	**74089.06**
Observed Change		**2504.94**	**77653.08**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

April 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	7.97	239.04
	E. Seepage	9397.48	281924.52
	N. Seepage	0.96	28.87
	S. Seepage	981.96	29458.82
	Bottom Seepage	4763.76	142912.67
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	132.20	3966.02
	ID Pumped Water	751.05	22531.49
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**16035.38**	**481061.43**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	-0.90	-27.12
	S. Seepage	0.00	0.00
	Bottom Seepage	-7890.82	-236724.70
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-7891.73**	**-236751.82**
Modeled Change in CCS Storage:		**8143.65**	**244309.61**
Observed Change		**-4057.292603**	**-121718.78**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

May 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	26.21	812.61
	E. Seepage	15905.29	493063.91
	N. Seepage	0.00	0.00
	S. Seepage	1444.80	44788.85
	Bottom Seepage	8038.52	249194.22
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	135.40	4197.49
	ID Pumped Water	3405.55	105571.94
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**28955.78**	**897629.03**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	-18.40	-570.36
	S. Seepage	0.00	0.00
	Bottom Seepage	-24742.36	-767013.22
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-24760.76**	**-767583.58**
Modeled Change in CCS Storage:		**4195.01**	**130045.45**
Observed Change		**6228.37**	**193079.32**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

June 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	39.65	1189.35
	E. Seepage	13544.39	406331.65
	N. Seepage	0.00	0.00
	S. Seepage	1490.22	44706.45
	Bottom Seepage	8163.91	244917.21
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	119.17	3575.20
	ID Pumped Water	4597.36	137920.85
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**27954.69**	**838640.72**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-4.59	-137.70
	N. Seepage	-16.95	-508.48
	S. Seepage	0.00	0.00
	Bottom Seepage	-21348.75	-640462.48
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-21370.29**	**-641108.66**
Modeled Change in CCS Storage:		**6584.40**	**197532.06**
Observed Change		**8658.55**	**259756.64**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

July 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	22.97	712.22
	E. Seepage	1630.60	50548.47
	N. Seepage	0.00	0.00
	S. Seepage	475.00	14724.90
	Bottom Seepage	1945.63	60314.59
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	131.92	4089.50
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**4206.12**	**130389.67**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-5721.60	-177369.67
	N. Seepage	-6.85	-212.23
	S. Seepage	-23.87	-739.95
	Bottom Seepage	-8531.61	-264479.96
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-14283.93**	**-442801.82**
Modeled Change in CCS Storage:		**-10077.81**	**-312412.15**
Observed Change		**3237.34**	**100357.40**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

August 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	7.40	229.41
	E. Seepage	5237.66	162367.43
	N. Seepage	0.98	30.43
	S. Seepage	370.58	11488.05
	Bottom Seepage	3135.13	97189.15
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	121.55	3768.14
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**8873.31**	**275072.61**
Out of CCS	W. Seepage	-65.81	-2040.12
	E. Seepage	-56.73	-1758.59
	N. Seepage	-0.60	-18.59
	S. Seepage	0.00	0.00
	Bottom Seepage	-1578.95	-48947.51
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-1702.09**	**-52764.81**
Modeled Change in CCS Storage:		**7171.22**	**222307.79**
Observed Change		**4028.64**	**124887.94**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

September 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.83	84.91
	E. Seepage	2797.96	83938.71
	N. Seepage	0.12	3.49
	S. Seepage	270.92	8127.56
	Bottom Seepage	1137.21	34116.32
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	114.36	3430.81
	ID Pumped Water	406.90	12207.06
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**4730.30**	**141908.85**
Out of CCS	W. Seepage	-785.14	-23554.07
	E. Seepage	-805.76	-24172.71
	N. Seepage	-3.46	-103.68
	S. Seepage	0.00	0.00
	Bottom Seepage	-3949.78	-118493.44
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-5544.13**	**-166323.91**
Modeled Change in CCS Storage:		**-813.84**	**-24415.05**
Observed Change		**-3663.57**	**-109906.97**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

October 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.49	46.05
	E. Seepage	3112.09	96474.66
	N. Seepage	0.39	12.19
	S. Seepage	162.49	5037.32
	Bottom Seepage	5213.92	161631.44
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	87.08	2699.59
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**8577.46**	**265901.26**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1100.79	-34124.58
	N. Seepage	-3.96	-122.70
	S. Seepage	0.00	0.00
	Bottom Seepage	-52.38	-1623.93
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-1157.14**	**-35871.22**
Modeled Change in CCS Storage:		**7420.32**	**230030.04**
Observed Change		**-3871.33**	**-120011.08**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

November 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.52	45.49
	E. Seepage	2565.58	76967.38
	N. Seepage	1.24	37.31
	S. Seepage	307.94	9238.14
	Bottom Seepage	2510.60	75318.05
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	58.36	1750.73
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**5445.24**	**163357.10**
Out of CCS	W. Seepage	-2.99	-89.68
	E. Seepage	-439.02	-13170.52
	N. Seepage	-1.38	-41.50
	S. Seepage	0.00	0.00
	Bottom Seepage	-1521.48	-45644.54
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-1964.87**	**-58946.24**
Modeled Change in CCS Storage:		**3480.36**	**104410.86**
Observed Change		**-3673.05**	**-110191.36**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

December 2011			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.94	91.04
	E. Seepage	3995.18	123850.50
	N. Seepage	1.01	31.46
	S. Seepage	519.26	16096.99
	Bottom Seepage	2237.19	69352.75
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	84.15	2608.67
	ID Pumped Water	431.13	13365.08
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**7270.85**	**225396.49**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-110.41	-3422.62
	N. Seepage	-2.01	-62.16
	S. Seepage	0.00	0.00
	Bottom Seepage	-6366.94	-197375.12
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-6479.35**	**-200859.90**
Modeled Change in CCS Storage:		**791.50**	**24536.58**
Observed Change		**-3828.22**	**-118674.85**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

January 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	6.81	211.17
	E. Seepage	6137.16	190252.10
	N. Seepage	0.16	4.83
	S. Seepage	611.10	18944.11
	Bottom Seepage	3217.71	99748.94
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	103.64	3212.87
	ID Pumped Water	2219.37	68800.40
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**12295.95**	**381174.41**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-15.97	-495.22
	N. Seepage	-8.30	-257.31
	S. Seepage	0.00	0.00
	Bottom Seepage	-14015.44	-434478.71
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-14039.72**	**-435231.24**
Modeled Change in CCS Storage:		**-1743.77**	**-54056.83**
Observed Change		**-2625.35**	**-81385.79**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

February 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	5.52	160.15
	E. Seepage	3019.88	87576.55
	N. Seepage	1.78	51.48
	S. Seepage	465.01	13485.18
	Bottom Seepage	3938.11	114205.18
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	91.37	2649.68
	ID Pumped Water	189.46	5494.29
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**7711.12**	**223622.50**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-792.88	-22993.52
	N. Seepage	-0.50	-14.61
	S. Seepage	0.00	0.00
	Bottom Seepage	-5050.78	-146472.57
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-5844.16**	**-169480.70**
Modeled Change in CCS Storage:		**1866.96**	**54141.81**
Observed Change		**3362.46**	**97511.42**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

March 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	4.03	124.88
	E. Seepage	5251.01	162781.35
	N. Seepage	4.94	153.03
	S. Seepage	666.34	20656.69
	Bottom Seepage	4261.43	132104.46
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	115.17	3570.40
	ID Pumped Water	187.62	5816.11
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**10490.55**	**325206.92**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-271.03	-8402.01
	N. Seepage	-0.21	-6.62
	S. Seepage	0.00	0.00
	Bottom Seepage	-3822.04	-118483.22
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-4093.29**	**-126891.84**
Modeled Change in CCS Storage:		**6397.26**	**198315.08**
Observed Change		**-500.48**	**-15514.87**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

April 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	14.59	437.77
	E. Seepage	5648.88	169466.31
	N. Seepage	1.97	59.07
	S. Seepage	760.81	22824.26
	Bottom Seepage	4206.65	126199.62
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	114.52	3435.57
	ID Pumped Water	1035.51	31065.19
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**11782.93**	**353487.78**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-135.08	-4052.44
	N. Seepage	-0.98	-29.32
	S. Seepage	0.00	0.00
	Bottom Seepage	-7211.96	-216358.94
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-7348.02**	**-220440.70**
Modeled Change in CCS Storage:		**4434.90**	**133047.07**
Observed Change		**4132.59**	**123977.58**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

May 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	8.43	261.37
	E. Seepage	167.09	5179.69
	N. Seepage	5.55	172.14
	S. Seepage	120.42	3732.88
	Bottom Seepage	3176.41	98468.64
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	113.23	3510.03
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**3591.12**	**111324.74**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-6338.52	-196494.19
	N. Seepage	-0.30	-9.32
	S. Seepage	-0.62	-19.08
	Bottom Seepage	-5139.67	-159329.63
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-11479.10**	**-355852.21**
Modeled Change in CCS Storage:		**-7887.98**	**-244527.47**
Observed Change		**-4664.11**	**-144587.53**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

June 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.04	61.29
	E. Seepage	816.37	24491.01
	N. Seepage	3.75	112.60
	S. Seepage	233.05	6991.63
	Bottom Seepage	2430.80	72924.06
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	120.64	3619.20
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**3606.66**	**108199.80**
Out of CCS	W. Seepage	-37.06	-1111.94
	E. Seepage	-4366.87	-131006.04
	N. Seepage	-0.27	-8.24
	S. Seepage	0.00	0.00
	Bottom Seepage	-5327.02	-159810.66
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-9731.23**	**-291936.88**
Modeled Change in CCS Storage:		**-6124.57**	**-183737.08**
Observed Change		**-2740.38**	**-82211.41**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

July 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.64	81.86
	E. Seepage	5.03	155.99
	N. Seepage	5.49	170.22
	S. Seepage	67.33	2087.08
	Bottom Seepage	3725.02	115475.55
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	124.64	3863.85
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**3930.15**	**121834.54**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-5218.31	-161767.61
	N. Seepage	0.00	0.00
	S. Seepage	-19.14	-593.20
	Bottom Seepage	-5299.15	-164273.54
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-10536.59**	**-326634.36**
Modeled Change in CCS Storage:		**-6606.45**	**-204799.82**
Observed Change		**-2497.19**	**-77412.85**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

August 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.56	79.25
	E. Seepage	1461.90	45319.00
	N. Seepage	4.79	148.53
	S. Seepage	121.94	3779.99
	Bottom Seepage	3312.48	102686.78
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	128.56	3985.44
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**5032.23**	**155998.99**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-2580.57	-79997.52
	N. Seepage	0.00	0.00
	S. Seepage	-8.82	-273.56
	Bottom Seepage	-3380.97	-104809.92
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-5970.36**	**-185081.01**
Modeled Change in CCS Storage:		**-938.13**	**-29082.02**
Observed Change		**1642.83**	**50927.78**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

September 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.47	44.10
	E. Seepage	623.77	18713.19
	N. Seepage	2.87	85.98
	S. Seepage	27.07	812.14
	Bottom Seepage	1848.79	55463.79
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	112.67	3380.18
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**2616.65**	**78499.38**
Out of CCS	W. Seepage	-77.47	-2324.18
	E. Seepage	-4199.05	-125971.36
	N. Seepage	-0.02	-0.64
	S. Seepage	-9.90	-297.00
	Bottom Seepage	-5567.11	-167013.34
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-9853.55**	**-295606.52**
Modeled Change in CCS Storage:		**-7236.90**	**-217107.14**
Observed Change		**-2600.46**	**-78013.94**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

October 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	0.86	26.69
	E. Seepage	3782.89	117269.47
	N. Seepage	3.25	100.85
	S. Seepage	453.51	14058.84
	Bottom Seepage	3995.58	123863.13
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	110.18	3415.60
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**8346.28**	**258734.58**
Out of CCS	W. Seepage	-187.80	-5821.75
	E. Seepage	-1844.55	-57181.05
	N. Seepage	-1.16	-35.89
	S. Seepage	-4.83	-149.83
	Bottom Seepage	-2616.30	-81105.23
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-4654.64**	**-144293.77**
Modeled Change in CCS Storage:		**3691.64**	**114440.81**
Observed Change		**6379.02**	**197749.67**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

November 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	3.11	93.25
	E. Seepage	1982.22	59466.75
	N. Seepage	4.16	124.84
	S. Seepage	507.20	15215.92
	Bottom Seepage	3748.30	112448.92
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	76.71	2301.26
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**6321.70**	**189650.93**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1089.28	-32678.52
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-1345.04	-40351.31
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-2434.33**	**-73029.83**
Modeled Change in CCS Storage:		**3887.37**	**116621.10**
Observed Change		**2368.82**	**71064.75**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

December 2012			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	7.16	222.04
	E. Seepage	120.97	3750.04
	N. Seepage	4.21	130.51
	S. Seepage	213.94	6632.26
	Bottom Seepage	2162.13	67026.11
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	87.33	2707.18
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**2595.75**	**80468.14**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-3727.61	-115556.04
	N. Seepage	0.00	0.00
	S. Seepage	-0.17	-5.27
	Bottom Seepage	-2787.01	-86397.17
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-6514.79**	**-201958.48**
Modeled Change in CCS Storage:		**-3919.04**	**-121490.34**
Observed Change		**-7753.08**	**-240345.33**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

January 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	7.13	221.15
	E. Seepage	2137.92	66275.51
	N. Seepage	4.36	135.08
	S. Seepage	509.08	15781.57
	Bottom Seepage	2831.19	87766.98
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	101.55	3148.06
	ID Pumped Water	60.40	1872.54
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**5651.64**	**175200.90**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1194.63	-37033.67
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-886.76	-27489.51
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-2081.39**	**-64523.18**
Modeled Change in CCS Storage:		**3570.25**	**110677.72**
Observed Change		**525.54**	**16291.69**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

February 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	9.73	272.46
	E. Seepage	2944.36	82442.07
	N. Seepage	2.94	82.31
	S. Seepage	662.71	18555.81
	Bottom Seepage	2727.16	76360.57
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	95.25	2667.00
	ID Pumped Water	324.14	9075.87
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**6766.29**	**189456.09**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1539.91	-43117.37
	N. Seepage	-0.14	-3.95
	S. Seepage	0.00	0.00
	Bottom Seepage	-3737.34	-104645.54
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-5277.39**	**-147766.86**
Modeled Change in CCS Storage:		**1488.90**	**41689.23**
Observed Change		**1710.98**	**47907.57**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

March 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	10.92	338.65
	E. Seepage	6720.90	208347.99
	N. Seepage	1.42	44.00
	S. Seepage	907.96	28146.66
	Bottom Seepage	2775.04	86026.14
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	112.44	3485.58
	ID Pumped Water	347.21	10763.51
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**10875.89**	**337152.53**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	-2.06	-63.94
	S. Seepage	0.00	0.00
	Bottom Seepage	-4630.17	-143535.30
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-4632.23**	**-143599.24**
Modeled Change in CCS Storage:		**6243.65**	**193553.29**
Observed Change		**4065.17**	**126020.42**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

April 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	13.29	398.66
	E. Seepage	7583.24	227497.21
	N. Seepage	0.00	0.00
	S. Seepage	621.43	18642.97
	Bottom Seepage	3016.09	90482.64
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	111.74	3352.32
	ID Pumped Water	478.94	14368.08
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**11824.73**	**354741.89**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-67.89	-2036.72
	N. Seepage	-10.84	-325.20
	S. Seepage	0.00	0.00
	Bottom Seepage	-12414.68	-372440.38
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-12493.41**	**-374802.29**
Modeled Change in CCS Storage:		**-668.68**	**-20060.41**
Observed Change		**4774.59**	**143237.63**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

May 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	6.46	200.39
	E. Seepage	4085.21	126641.42
	N. Seepage	0.00	0.00
	S. Seepage	458.41	14210.60
	Bottom Seepage	1178.02	36518.75
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	125.70	3896.83
	ID Pumped Water	287.40	8909.54
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**6141.21**	**190377.53**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-829.74	-25721.93
	N. Seepage	-6.57	-203.76
	S. Seepage	-9.41	-291.63
	Bottom Seepage	-8045.67	-249415.76
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-8891.39**	**-275633.07**
Modeled Change in CCS Storage:		**-2750.18**	**-85255.55**
Observed Change		**1237.57**	**38364.62**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

June 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	4.14	124.17
	E. Seepage	2150.78	64523.46
	N. Seepage	0.00	0.00
	S. Seepage	192.72	5781.63
	Bottom Seepage	659.63	19788.97
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	116.04	3481.32
	ID Pumped Water	15.15	454.46
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**3138.47**	**94154.00**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-6840.75	-205222.53
	N. Seepage	-10.10	-303.10
	S. Seepage	-272.05	-8161.40
	Bottom Seepage	-10583.21	-317496.26
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-17706.11**	**-531183.29**
Modeled Change in CCS Storage:		**-14567.64**	**-437029.29**
Observed Change		**-4607.17**	**-138215.25**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

July 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.99	92.71
	E. Seepage	4378.23	135725.17
	N. Seepage	0.00	0.00
	S. Seepage	385.67	11955.68
	Bottom Seepage	2207.77	68440.94
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	119.57	3706.56
	ID Pumped Water	16.53	512.41
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**7110.76**	**220433.48**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1372.52	-42548.06
	N. Seepage	-6.19	-191.85
	S. Seepage	0.00	0.00
	Bottom Seepage	-4865.49	-150830.09
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-6244.19**	**-193570.00**
Modeled Change in CCS Storage:		**866.56**	**26863.49**
Observed Change		**4833.38**	**149834.84**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

August 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.89	58.46
	E. Seepage	4344.14	134668.40
	N. Seepage	0.40	12.37
	S. Seepage	323.17	10018.35
	Bottom Seepage	1637.07	50749.12
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	108.99	3378.64
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**6415.66**	**198885.33**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-1329.80	-41223.88
	N. Seepage	-6.00	-186.11
	S. Seepage	-11.98	-371.29
	Bottom Seepage	-3824.23	-118551.19
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-5172.02**	**-160332.47**
Modeled Change in CCS Storage:		**1243.64**	**38552.86**
Observed Change		**3101.52**	**96147.08**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

September 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.44	43.23
	E. Seepage	5544.96	166348.73
	N. Seepage	3.92	117.62
	S. Seepage	550.99	16529.68
	Bottom Seepage	4740.46	142213.90
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	127.36	3820.73
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**10969.13**	**329073.89**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-149.50	-4484.98
	N. Seepage	-0.19	-5.75
	S. Seepage	0.00	0.00
	Bottom Seepage	-375.37	-11261.16
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-525.06**	**-15751.89**
Modeled Change in CCS Storage:		**10444.07**	**313321.99**
Observed Change		**5122.20**	**153666.00**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

October 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.11	34.27
	E. Seepage	4338.18	134483.49
	N. Seepage	7.80	241.71
	S. Seepage	638.39	19790.19
	Bottom Seepage	7719.11	239292.29
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	131.68	4082.17
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**12836.26**	**397924.13**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-351.11	-10884.34
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-127.96	-3966.81
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-479.07**	**-14851.15**
Modeled Change in CCS Storage:		**12357.19**	**383072.99**
Observed Change		**5172.10**	**160335.08**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

November 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.54	46.14
	E. Seepage	3784.29	113528.78
	N. Seepage	6.40	192.02
	S. Seepage	788.22	23646.53
	Bottom Seepage	4634.87	139046.00
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	104.86	3145.67
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**9320.17**	**279605.14**
Out of CCS	W. Seepage	-24.64	-739.25
	E. Seepage	-522.89	-15686.55
	N. Seepage	0.00	0.00
	S. Seepage	-280.41	-8412.37
	Bottom Seepage	-1054.80	-31643.98
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-1882.74**	**-56482.15**
Modeled Change in CCS Storage:		**7437.43**	**223122.99**
Observed Change		**3117.41**	**93522.19**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

December 2013			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	1.72	53.40
	E. Seepage	1116.93	34624.86
	N. Seepage	1.41	43.82
	S. Seepage	0.00	0.00
	Bottom Seepage	1208.70	37469.70
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	104.66	3244.56
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**2433.43**	**75436.35**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-2138.71	-66299.91
	N. Seepage	-0.72	-22.30
	S. Seepage	-1832.93	-56820.81
	Bottom Seepage	-3278.69	-101639.42
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-7251.05**	**-224782.44**
Modeled Change in CCS Storage:		**-4817.62**	**-149346.09**
Observed Change		**-6529.12**	**-202402.80**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

January 2014			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	2.72	84.28
	E. Seepage	2474.28	76702.81
	N. Seepage	3.76	116.46
	S. Seepage	197.48	6121.95
	Bottom Seepage	2808.39	87059.94
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	97.62	3026.14
	ID Pumped Water	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**5584.24**	**173111.57**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-733.83	-22748.81
	N. Seepage	-0.11	-3.52
	S. Seepage	-322.82	-10007.33
	Bottom Seepage	-1256.16	-38940.86
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-2312.92**	**-71700.52**
Modeled Change in CCS Storage:		**3271.32**	**101411.05**
Observed Change		**-445.87**	**-13822.03**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

February 2014			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	3.45	96.51
	E. Seepage	4009.26	112259.16
	N. Seepage	4.91	137.49
	S. Seepage	305.60	8556.90
	Bottom Seepage	4137.32	115844.97
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	94.98	2659.47
	ID Pumped Water	26.82	750.88
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**8582.34**	**240305.39**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-216.72	-6068.14
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-527.63	-14773.52
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-744.34**	**-20841.66**
Modeled Change in CCS Storage:		**7837.99**	**219463.73**
Observed Change		**625.60**	**17516.93**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

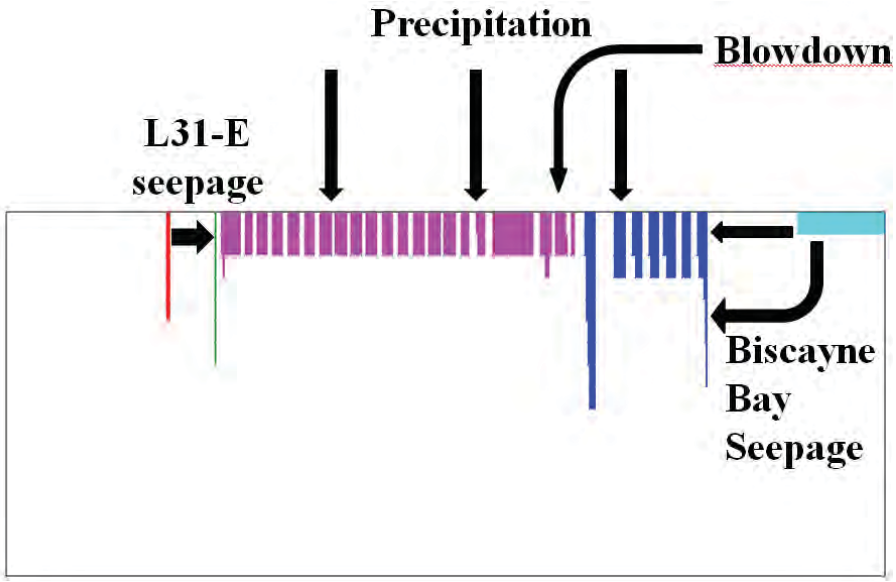
March 2014			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	3.87	120.12
	E. Seepage	4519.76	140112.41
	N. Seepage	5.56	172.22
	S. Seepage	282.87	8768.83
	Bottom Seepage	4212.27	130580.33
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	117.78	3651.18
	ID Pumped Water	44.90	1391.85
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**9187.00**	**284796.94**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	-7.14	-221.35
	N. Seepage	-0.08	-2.45
	S. Seepage	0.00	0.00
	Bottom Seepage	-949.86	-29445.56
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-957.08**	**-29669.35**
Modeled Change in CCS Storage:		**8229.92**	**255127.58**
Observed Change		**3657.01**	**113367.46**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

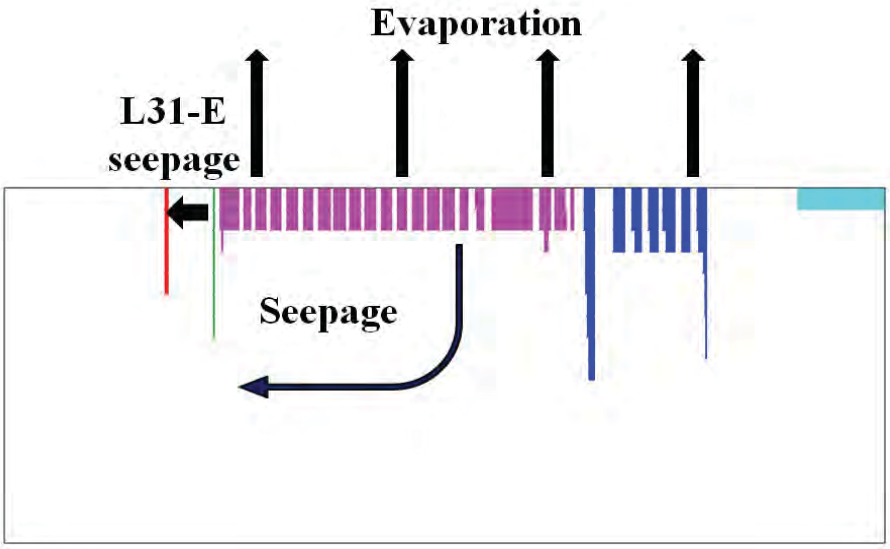
April 2014			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	6.46	193.90
	E. Seepage	9135.31	274059.17
	N. Seepage	5.79	173.62
	S. Seepage	674.16	20224.71
	Bottom Seepage	6679.44	200383.16
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	141.58	4247.38
	ID Pumped Water	100.96	3028.93
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**16743.70**	**502310.88**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	0.00	0.00
	S. Seepage	0.00	0.00
	Bottom Seepage	-3970.68	-119120.46
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-3970.68**	**-119120.46**
Modeled Change in CCS Storage:		**12773.01**	**383190.43**
Observed Change		**5846.87**	**175406.11**

Table 5.3-5. Calculated Mass Flows from Salt Budget Components

May 2014			
Mass Budget Component		**lb/day (x1000)**	**Mass (lb x 1000)**
Into CCS	W. Seepage	19.46	603.27
	E. Seepage	14107.29	437325.92
	N. Seepage	1.45	44.98
	S. Seepage	1396.99	43306.83
	Bottom Seepage	8690.90	269417.84
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	128.95	3997.50
	ID Pumped Water	392.49	12167.09
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total In:	**24737.53**	**766863.42**
Out of CCS	W. Seepage	0.00	0.00
	E. Seepage	0.00	0.00
	N. Seepage	-1.50	-46.56
	S. Seepage	0.00	0.00
	Bottom Seepage	-9219.39	-285801.22
	Precipitation and Runoff	0.00	0.00
	Evaporation	0.00	0.00
	Unit 3, 4 Added Water	0.00	0.00
	Unit 5 Blowdown	0.00	0.00
	ID Pumping	0.00	0.00
	Plant Outflow	Equal to Intake	
	Plant Intake	Equal to Outflow	
	Total Out:	**-9220.90**	**-285847.79**
Modeled Change in CCS Storage:		**15516.63**	**481015.64**
Observed Change		**5312.43**	**164685.21**



(A)



(B)

Figure 5.3-1. Flow (A) into and (B) out of the CCS, Shown in Cross-Section.

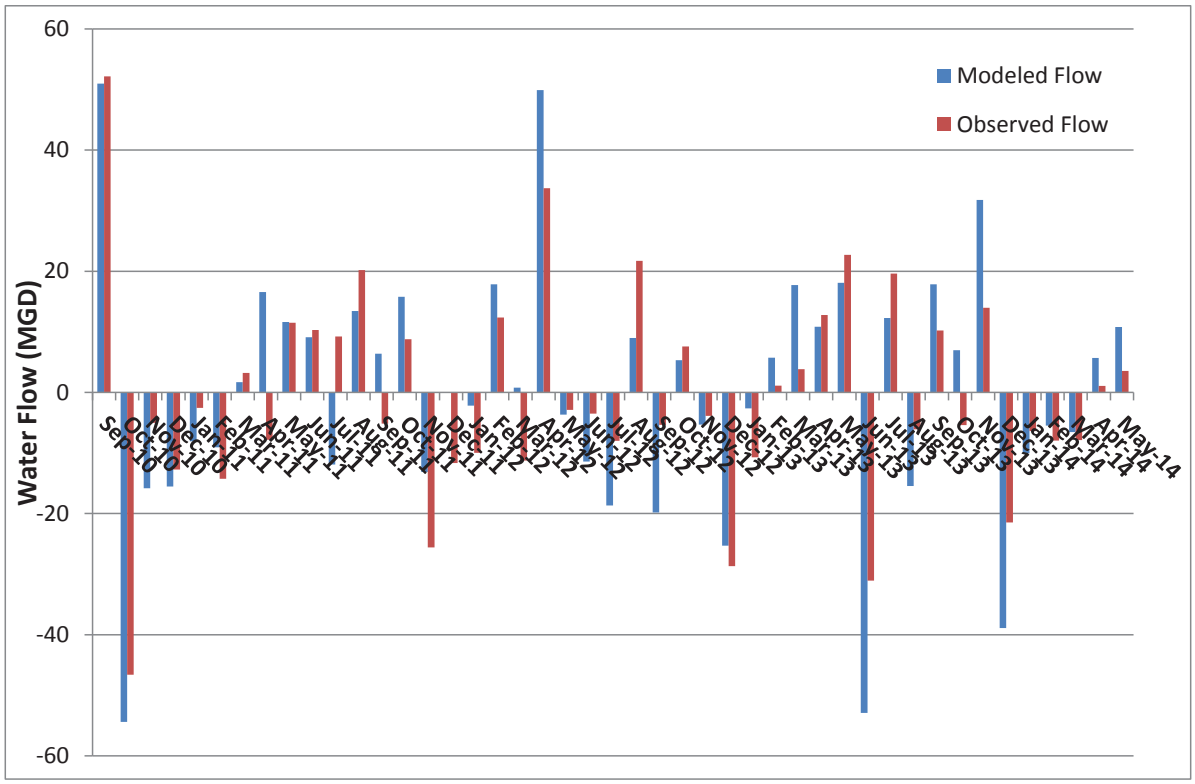


Figure 5.3-2. Modeled versus Measured Net Monthly Flows of Water for the CCS over the 45-Month Period.

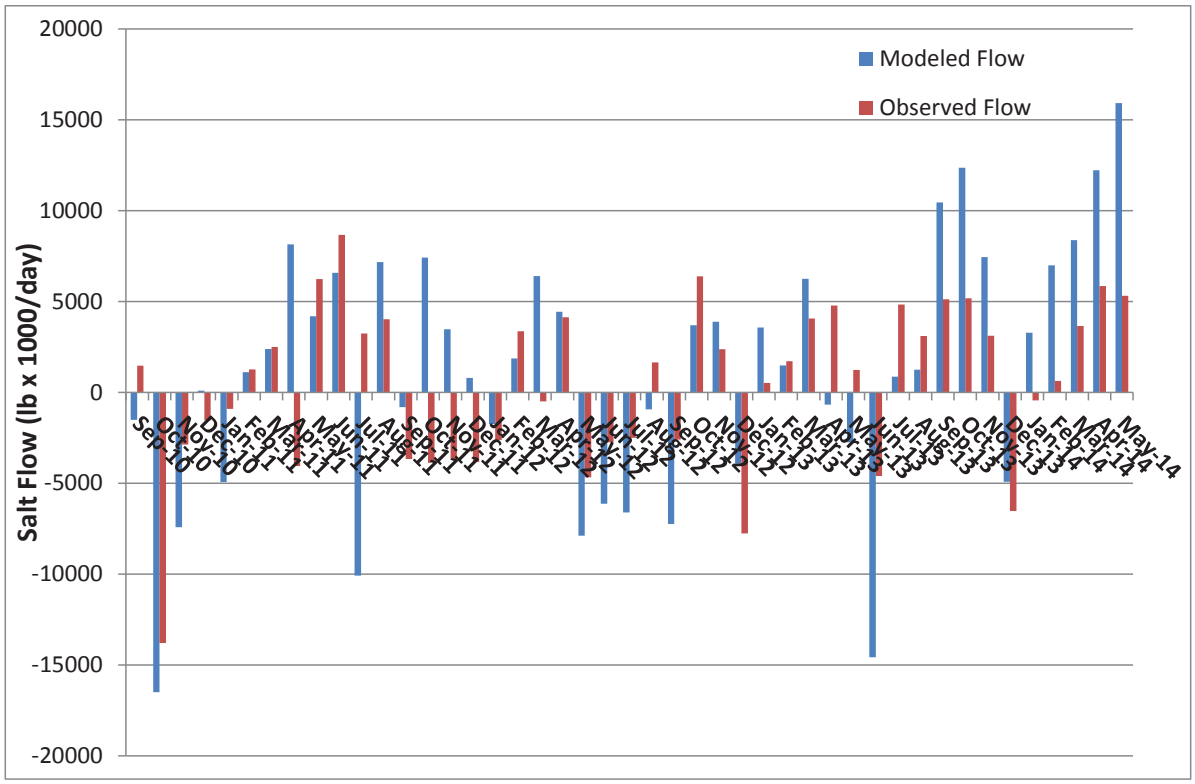


Figure 5.3-3. Modeled versus Measured Net Monthly Flows of Salt Mass for the CCS over the 45-Month Period

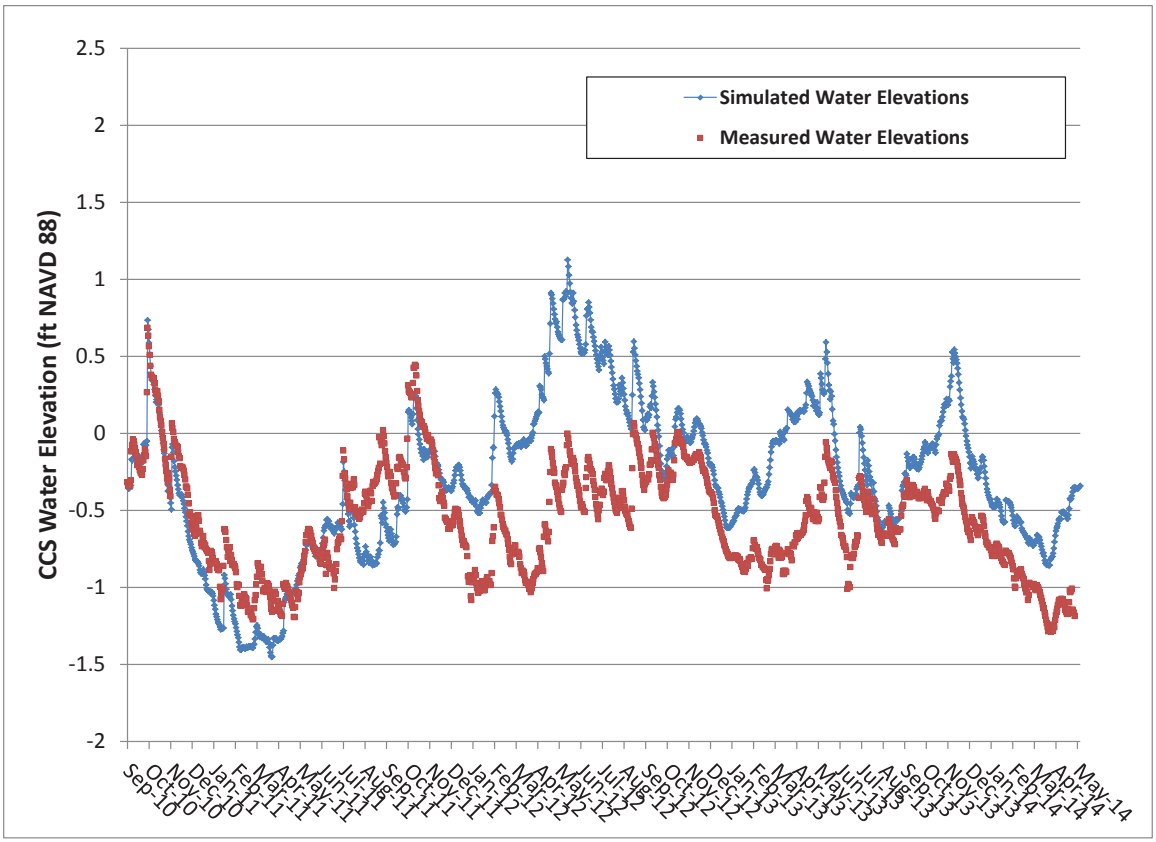


Figure 5.3-4. Modeled versus Measured Water Elevations (NAVD 88) in the CCS over the 45-Month Period; Used to Validate the Conceptual Model and Calibrate the Water Balance Model to Temporal Trends in Water Elevation.

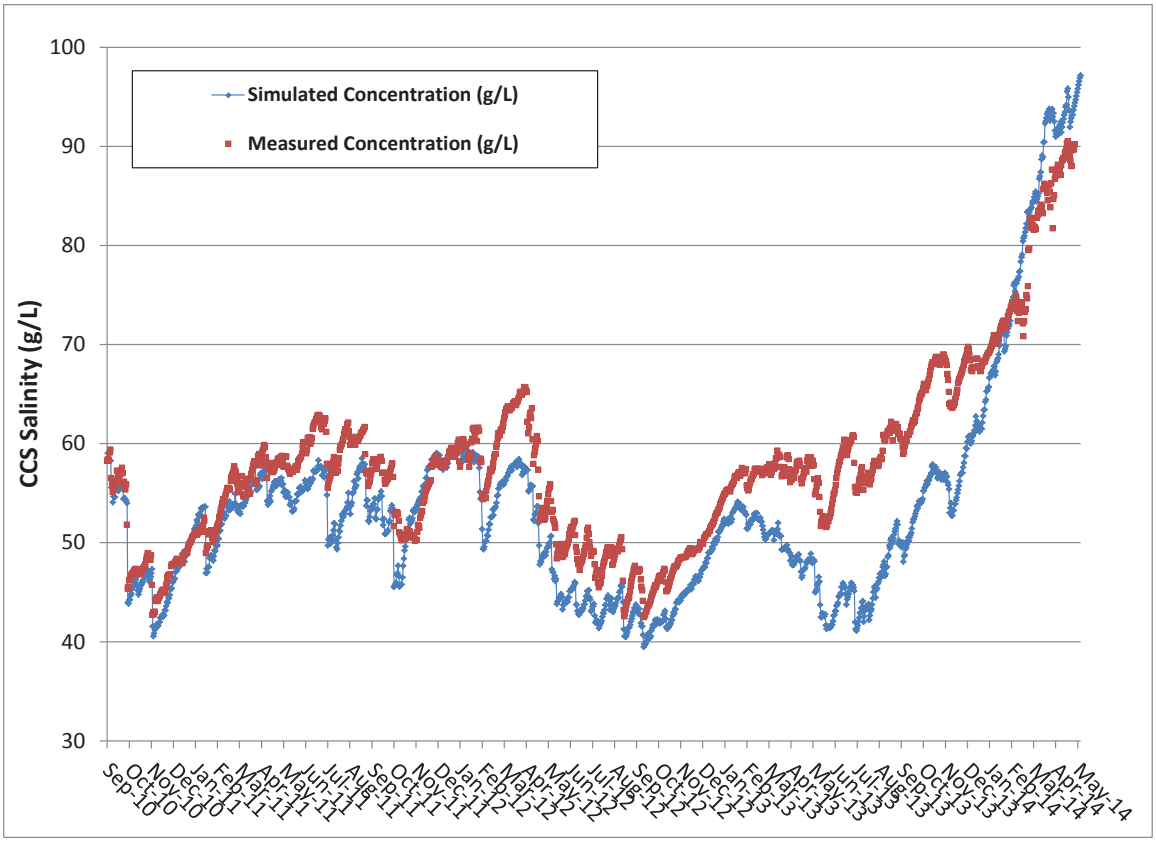


Figure 5.3-5. Modeled versus Measured Salinity in the CCS over the 45-Month Period; Used to Validate the Conceptual Model and Calibrate the Water Balance Model to Temporal Trends in Salinity.