STA & Reservoir Hydraulic Data **BMP Performance: 25% (ECP Design)** **WY 1979-1988** **ALT-D13R**

STA or Reservoir	Area Acres	Mean Depth feet	Resid. Time days	Water Load in/day	Inflow Conc ppb	Outflow Conc ppb	Depth Frequencies---> <.1 ft	<.5 ft	< 1ft	> 4ft
STA_1E	5350	1.4	21.9	0.73	185	43	0.0%	0.0%	1.6%	0.0%
STA_1W	6670	1.8	25.1	0.84	209	57	0.0%	2.3%	12.6%	1.2%
STA_2	6430	1.4	18.5	0.95	163	53	0.0%	0.0%	6.4%	0.0%
STA_3+4	16480	2.3	21.9	1.32	84	38	0.0%	0.0%	0.0%	0.1%
STA_5	4118	1.5	17.5	1.07	215	80	0.0%	0.4%	9.6%	0.0%
STA_6	870	0.8	11.9	0.85	180	51	5.5%	30.3%	58.0%	0.0%
TALISMAN	20000	3.6	157.1	0.30	159	98	13.2%	15.5%	17.3%	50.7%
AA_RES_N	20000	2.6	52.2	0.60	66	56	19.4%	26.6%	38.5%	36.5%
AA_RES_S	20000	0.9	100.1	0.10	58	81	33.1%	46.6%	61.7%	3.7%

STA or Reservoir	Precip in/yr	Seepage Rates ET in/yr	Inflow in/yr	Outflow in/yr	Net Inflows - Outflows in/yr
STA_1E	59.5	45.4	2.0	5.3	10.8
STA_1W	57.4	57.4	7.6	5.8	1.8
STA_2	46.7	59.7	1.3	4.8	-16.4
STA_3+4	46.9	60.7	0.1	4.9	-18.6
STA_5	42.6	56.9	0.0	0.0	-14.3
STA_6	47.9	51.7	4.6	33.9	-33.2
TALISMAN	47.7	60.1	0.0	0.5	-12.9
AA_RES_N	48.9	54.1	0.0	0.8	-6.0
AA_RES_S	50.1	48.9	0.3	0.2	1.4
STA Design	48.5	45.3	0.0	0.0	3.2

ECP Design Assumptions (WY 1979-1988)

Seepage inflow & outflow rates calculated from groundwater inflow & outflow terms of SFWMM monthly water budgets
Net = Precip + Inflow Seepage - Evapotranspiration - Outflow Seepage = Net Flow Increase per Unit Area

07/16/98