

TABLE 1 Base Model Results																
XPSWMM Pond Output Summary													AHYMO_97			
Pond	Design Storage At Emergency Spillway	100 Yr-24 Hr Peak Storage	100 Yr-24 Hr Peak Storage	Elevation of Pond Bottom (NAVD 1929)	Elevation of Emergency Spillway (NAVD 1929)	Elevation of Top of Pond (NAVD 1929)	100 Yr-24Hr Peak Water Surface Elevation	Pond Depth	Depth of Water From Pond Bottom	100 Yr-24Hr Freeboard to Emergency Spillway	Peak Outflow	Outflow Restricted by Downstream Orifice	100 Yr-24 Hr Peak Storage [a]	Peak Water Surface Elevation [a]	Peak Outflow [a]	
	ac-ft	ft^3	ac-ft	ft	ft	ft	ft	ft	ft	ft	cfs		ac-ft	ft	cfs	
Pond D	6.24	122165	2.80	5430.00	5436.85	5438.00	5433.90	8.00	3.9	2.9	15.7	Y	4.04	5435.03	19.7	
POND F	11.76	344445	7.91	5415.08	5424.33	5425.00	5422.14	9.92	7.1	2.2	14.8	Y	10.4	5423.56	23.8	
POND F5	1.40	22189	0.51	5421.00	5426.00	5427.00	5423.75	6.00	2.7	2.3	21.8	Y	1.38	5425.97	19.8	
POND G	7.21	81108	1.86	5415.67	5422.50	5424.00	5419.05	8.33	3.4	3.4	17.6	Y	2.96	5419.84	24.6	
POND H	3.02	134124	3.08	5418.65	5422.00	5423.00	5422.00	4.35	3.4	0.0	23.4	Y	2.87	5421.89	26.8	
POND J	7.94	172482	3.960	5414.00	5417.00	5418.00	5416.08	4.00	2.1	0.9	26.7	Y	3.77	5415.66	32.4	
POND K	14.84	357301	8.20	5404.85	5409.00	5410.00	5407.78	5.15	2.9	1.2	60.1	Y	8.39	5407.79	60.7	
[a] Values based on the Ammendment to the Trails Drainage Master Plan																
TABLE 2 Proposed Scenario 1 Results																
Scenario S1 XPSWMM Pond Output Summary													AHYMO_97			Future Improvements
Pond	Design Capacity At Emergency Spillway	100 Yr-24 Hr Peak Storage	100 Yr-24 Hr Peak Storage	Elevation of Pond Bottom (NAVD 1929)	Elevation of Emergency Spillway (NAVD 1929)	Elevation of Top of Pond (NAVD 1929)	100 Yr-24Hr Peak Water Surface Elevation	Pond Depth	Depth of Water From Pond Bottom	100 Yr-24Hr Freeboard to Emergency Spillway	Peak Outflow	Outflow Restricted by Downstream Orifice	100 Yr-24 Hr Peak Storage [a]	Peak Water Surface Elevation [a]	Peak Outflow [a]	
	ac-ft	ft^3	ac-ft	ft	ft	ft	ft	ft	ft	ft	cfs		ac-ft	ft	cfs	
Pond D	2.7	86472	1.99	5427.50	5433.50	5433.50	5432.24	6	4.7	1.3	28.9	N	4.04	5435.03	19.7	Pond size reduced from 6.26 ac-ft to 2.75 ac-ft, orifice plate removed
POND F	11.76	396013	9.09	5415.08	5424.33	5425.00	5422.83	9.92	7.8	1.5	12.9	Y	10.4	5423.56	23.8	Orifice Area Increased from 1.63 to 2 ft^2
POND F5	1.83	32949	0.76	5421	5427	5427	5424.46	6	3.5	2.5	58.5	N	1.38	5425.97	19.8	Pond Spillway assumed at 5427
POND G	7.21	176891	4.06	5415.67	5422.50	5424.00	5420.62	8.33	4.9	1.9	12.0	Y	2.96	5419.84	24.6	Orifice Area reduced from 1.75 to 1 ft^2
POND H	3.02	130000	2.98	5418.65	5422.00	5423.00	5422.00	4.35	3.4	0.0	21.6	Y	2.87	5421.89	26.8	Orifice area = 1.14 ft^2 Per Bohannan Huston's plans
POND J	7.94	163081	3.74	5414.00	5417.00	5418.00	5416.00	4	2.0	1.0	30.1	Y	3.77	5415.66	32.39	Orifice area increased from 3.05 to 3.5 ft^2
POND K	14.84	280338	6.44	5404.85	5409.00	5410.00	5407.39	5.15	2.5	1.6	60.7	Y	8.39	5407.79	60.7	Orifice area 4.96ft^2 (No Change)
* The first tract developed will be responsible for improvements to the pond																
[a] Values based on the Ammendment to the Trails Drainage Master Plan																