

Project Data

Project Name: Hancock Road - Pond 3 - Big Sky Subdivision
Simulation Description:
Project Number:
Engineer : Jim Myers, PE
Supervising Engineer:
Date: 05-11-2011

Aquifer Data

Base Of Aquifer Elevation, [B] (ft datum): 90.00
Water Table Elevation, [WT] (ft datum): 91.00
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 20.00
Fillable Porosity, [n] (%): 25.00
Unsaturated Vertical Infiltration Rate, [Iv] (ft/day): 13.0
Maximum Area For Unsaturated Infiltration, [Av] (ft²): 15638.0

Geometry Data

Equivalent Pond Length, [L] (ft): 750.0
Equivalent Pond Width, [W] (ft): 150.0
Ground water mound is expected to intersect the pond bottom

Stage vs Area Data

Stage (ft datum)	Area (ft ²)
124.00	3179.0
126.00	7230.0
128.00	12066.0
130.00	22433.0
131.00	28096.0

50126-4

RECEIVED
MAY 31 2011
ALTAMONTE

PONDS Version 3.2.0217
Retention Pond Recovery - Refined Method
Copyright 2003
Devo Seereeram, Ph.D., P.E.

Detailed Results :: Scenario 1 :: slug load to Pond 3

Elapsed Time (hours)	Inflow Rate (ft ³ /s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft ³ /s)	Overflow Discharge (ft ³ /s)	Cumulative Inflow Volume (ft ³)	Cumulative Infiltration Volume (ft ³)	Cumulative Discharge Volume (ft ³)	Flow Type
0.000	12705.0000	0.0000	91.000	0.00000	0.00000	0.0	0.0	0.0	N.A.
0.002	12705.0000	0.0000	130.504	2.35294	0.00000	76230.0	14.1	0.0	U/P
2.400	0.0000	0.0000	129.613	2.29481	0.00000	76230.0	20329.4	0.0	U/P
6.000	0.0000	0.0000	127.796	1.82018	0.00000	76230.0	48939.4	0.0	U/P
12.000	0.0000	0.0000	124.518	0.78303	0.00000	76230.0	74309.6	0.0	U/P
24.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
36.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
48.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
60.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
72.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
84.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
96.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
120.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
144.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
168.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
192.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
216.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
240.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
264.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
288.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
312.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry
336.000	0.0000	0.0000	----	----	----	76230.0	76230.0	0.0	dry

PONDS Version 3.2.0217
Retention Pond Recovery - Refined Method
Copyright 2003
Devo Seereeram, Ph.D., P.E.

Summary of Results :: Scenario 1 :: slug load to Pond 3

	Time (hours)	Stage (ft datum)	Rate (ft ³ /s)	Volume (ft ³)
Stage				
Minimum	0.000	91.00		
Maximum	0.002	130.50		
Inflow				
Rate - Maximum - Positive	0.002		12705.0000	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	0.002			76230.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	336.000			76230.0
Infiltration				
Rate - Maximum - Positive	0.002		2.3529	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	12.000			74309.6
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	336.000			76230.0
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	336.000			0.0
Discharge Structure 1 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	36.000		Dry	76230.0
72 Hour Stage and Infiltration Volume	72.000		Dry	76230.0

RECEIVED IN
ALTAMONTE SPRINGS

MAY 8 1 2011

REGULATORY
INFORMATION MGT.

50126-4

Project Data

Project Name: Hancock Road - Pond 2
 Simulation Description:
 Project Number:
 Engineer : Jim Myers, PE
 Supervising Engineer:
 Date: 05-11-2011

Aquifer Data

Base Of Aquifer Elevation, [B] (ft datum): 56.00
 Water Table Elevation, [WT] (ft datum): 80.00
 Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 16.00
 Fillable Porosity, [n] (%): 25.00
 Unsaturated Vertical Infiltration Rate, [Iv] (ft/day): 10.5
 Maximum Area For Unsaturated Infiltration, [Av] (ft²): 45302.0

Geometry Data

Equivalent Pond Length, [L] (ft): 500.0
 Equivalent Pond Width, [W] (ft): 190.0
 Ground water mound is expected to intersect the pond bottom

Stage vs Area Data

Stage (ft datum)	Area (ft ²)
90.00	23522.0
99.50	67082.0
101.00	87555.0

50186-4

RECEIVED
 MAY 31 2011
 ALTAMONTE



PONDS Version 3.2.0217
Retention Pond Recovery - Refined Method
Copyright 2003
Devo Seereeram, Ph.D., P.E.

Detailed Results :: Scenario 1 :: slug load to Pond 2

Elapsed Time (hours)	Inflow Rate (ft ³ /s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft ³ /s)	Overflow Discharge (ft ³ /s)	Cumulative Inflow Volume (ft ³)	Cumulative Infiltration Volume (ft ³)	Cumulative Discharge Volume (ft ³)	Flow Type
0.000	71075.3400	0.0000	80.000	0.00000	0.00000	0.0	0.0	0.0	N.A.
0.002	71075.3400	0.0000	99.441	5.50545	0.00000	426452.0	33.0	0.0	U/P
2.400	0.0000	0.0000	98.711	5.50545	0.00000	426452.0	47567.1	0.0	U/P
6.000	0.0000	0.0000	97.537	5.73553	0.00000	426452.0	118917.8	0.0	U/P
12.000	0.0000	0.0000	95.009	4.71361	0.00000	426452.0	251087.7	0.0	U/S
24.000	0.0000	0.0000	93.052	1.50195	0.00000	426452.0	333291.5	0.0	S
36.000	0.0000	0.0000	91.667	0.91854	0.00000	426452.0	380855.8	0.0	S
48.000	0.0000	0.0000	90.556	0.52773	0.00000	426452.0	412653.3	0.0	S
60.000	0.0000	0.0000	89.626	0.15971	0.00000	426452.0	426452.0	0.0	S
72.000	0.0000	0.0000	88.891	0.00000	0.00000	426452.0	426452.0	0.0	S
84.000	0.0000	0.0000	88.296	0.00000	0.00000	426452.0	426452.0	0.0	S
96.000	0.0000	0.0000	87.800	0.00000	0.00000	426452.0	426452.0	0.0	S
120.000	0.0000	0.0000	87.046	0.00000	0.00000	426452.0	426452.0	0.0	S
144.000	0.0000	0.0000	86.451	0.00000	0.00000	426452.0	426452.0	0.0	S
168.000	0.0000	0.0000	85.964	0.00000	0.00000	426452.0	426452.0	0.0	S
192.000	0.0000	0.0000	85.558	0.00000	0.00000	426452.0	426452.0	0.0	S
216.000	0.0000	0.0000	85.212	0.00000	0.00000	426452.0	426452.0	0.0	S
240.000	0.0000	0.0000	84.912	0.00000	0.00000	426452.0	426452.0	0.0	S
264.000	0.0000	0.0000	84.650	0.00000	0.00000	426452.0	426452.0	0.0	S
288.000	0.0000	0.0000	84.419	0.00000	0.00000	426452.0	426452.0	0.0	S
312.000	0.0000	0.0000	84.212	0.00000	0.00000	426452.0	426452.0	0.0	S
336.000	0.0000	0.0000	84.026	----	----	426452.0	426452.0	0.0	N.A.

PONDS Version 3.2.0217
Retention Pond Recovery - Refined Method
Copyright 2003
Devo Seereeram, Ph.D., P.E.

Summary of Results :: Scenario 1 :: slug load to Pond 2

	Time (hours)	Stage (ft datum)	Rate (ft ³ /s)	Volume (ft ³)
Stage				
Minimum	0.000	80.00		
Maximum	0.002	99.44		
Inflow				
Rate - Maximum - Positive	0.002		71075.3400	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	0.002			426452.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	336.000			426452.0
Infiltration				
Rate - Maximum - Positive	6.000		5.7355	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	60.000			426452.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	336.000			426452.0
Combined Discharge				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	336.000			0.0
Discharge Structure 1 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 2 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Discharge Structure 3 - inactive				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
Pollution Abatement:				
36 Hour Stage and Infiltration Volume	36.000	91.67		380855.8
72 Hour Stage and Infiltration Volume	72.000	88.89		426452.0

50126 = 4

RECEIVED IN
ALTAMONTE SPRINGS
MAY 31 2011
REGULATORY
INFORMATION MGT.