

Data Set: Z:\GW Data Steward Working Area\Caloosahatchee River Seepage\Caloosahatchee Well Drawdown Re

Title: Caloosahatchee River Seepage Project

Date: 06/15/16

Time: 14:50:16

### PROJECT INFORMATION

Company: SFWMD

Client: SFWMD

Test Date: 8/12/1999

Test Well: CRS01NS

### AQUIFER DATA

Saturated Thickness: 23. ft

Anisotropy Ratio (Kz/Kr): 0.25

### SLUG TEST WELL DATA

Test Well: CRS01NS

X Location: 0. ft

Y Location: 0. ft

Initial Displacement: 5.623 ft

Static Water Column Height: 20.55 ft

Casing Radius: 0.0833 ft

Well Radius: 0.25 ft

Well Skin Radius: 0.25 ft

Screen Length: 5. ft

Total Well Penetration Depth: 20.55 ft

Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft

Gravel Pack Porosity: 0.

No. of Observations: 99

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.0165	5.623	1.724	0.164
0.033	5.584	1.824	0.158
0.0495	5.28	1.929	0.153
0.066	4.359	2.041	0.147
0.0825	3.614	2.159	0.141
0.099	2.919	2.284	0.135
0.1155	2.617	2.416	0.128
0.132	2.231	2.557	0.124
0.1485	1.97	2.706	0.118
0.165	1.816	2.863	0.114
0.1815	1.605	3.03	0.111
0.198	1.299	3.207	0.106
0.2145	1.067	3.394	0.102
0.231	0.878	3.592	0.096
0.2475	0.735	3.803	0.092
0.264	0.632	4.025	0.088

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2805	0.562	4.261	0.085
0.297	0.515	4.511	0.082
0.3135	0.483	4.776	0.078
0.33	0.451	5.056	0.075
0.3467	0.418	5.353	0.072
0.3643	0.406	5.667	0.069
0.383	0.392	6.	0.066
0.4028	0.382	6.353	0.062
0.4238	0.372	6.727	0.06
0.446	0.362	7.123	0.057
0.4695	0.353	7.543	0.054
0.4943	0.344	7.987	0.052
0.5207	0.334	8.457	0.05
0.5487	0.324	8.956	0.047
0.5783	0.318	9.484	0.044
0.6097	0.308	10.04	0.043
0.6428	0.303	10.64	0.044
0.678	0.287	11.26	0.047
0.7153	0.278	11.93	0.037
0.7548	0.271	12.63	0.04
0.7967	0.261	13.38	0.039
0.841	0.254	14.17	0.031
0.888	0.245	15.01	0.03
0.9378	0.238	15.89	0.031
0.9905	0.229	16.83	0.029
1.046	0.222	17.83	0.034
1.105	0.216	18.83	0.031
1.168	0.209	19.83	0.034
1.234	0.202	20.83	0.033
1.305	0.194	21.83	0.03
1.379	0.19	22.83	0.029
1.458	0.184	23.83	0.029
1.542	0.177	24.83	0.026
1.631	0.171		

SOLUTION

Slug Test  
 Aquifer Model: Unconfined  
 Solution Method: Hvorslev  
 Log Factor: 0.271

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	30.56	ft/day
y0	7.067	ft

K = 0.01078 cm/sec  
 T = K\*b = 702.8 ft<sup>2</sup>/day (7.557 sq. cm/sec)

NOTES

Estimated thickness of Water Table Aquifer - 30 feet

Estimated thickness of Lower Tamiami Aquifer - 50 feet (leaky confined)