

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: 15:37:23

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/11/1999
 Test Well: CRS06FS

AQUIFER DATA

Saturated Thickness: 25. ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS06FS

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 5.853 ft
 Static Water Column Height: 8.51 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: 8.51 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 130

Observation Data			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.0165	5.699	4.025	0.308
0.033	4.516	4.261	0.311
0.0495	3.601	4.511	0.311
0.066	2.941	4.776	0.309
0.0825	2.347	5.056	0.308
0.099	1.908	5.353	0.308
0.1155	1.545	5.667	0.303
0.132	1.301	6.	0.302
0.1485	1.089	6.353	0.299
0.165	0.93	6.727	0.293
0.1815	0.808	7.123	0.289
0.198	0.698	7.543	0.292
0.2145	0.623	7.987	0.292
0.231	0.582	8.457	0.286
0.2475	0.543	8.956	0.283
0.264	0.505	9.484	0.282

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2805	0.469	10.04	0.277
0.297	0.466	10.64	0.266
0.3135	0.43	11.26	0.257
0.33	0.43	11.93	0.253
0.3467	0.429	12.63	0.261
0.3643	0.393	13.38	0.263
0.383	0.393	14.17	0.249
0.4028	0.391	15.01	0.238
0.4238	0.391	15.89	0.241
0.446	0.39	16.83	0.236
0.4695	0.357	17.83	0.23
0.4943	0.355	18.83	0.224
0.5207	0.355	19.83	0.221
0.5487	0.354	20.83	0.217
0.5783	0.355	21.83	0.214
0.6097	0.354	22.83	0.214
0.6428	0.354	23.83	0.211
0.678	0.354	24.83	0.207
0.7153	0.354	25.83	0.204
0.7548	0.354	26.83	0.212
0.7967	0.354	27.83	0.202
0.841	0.352	28.83	0.208
0.888	0.352	29.83	0.207
0.9378	0.352	30.83	0.202
0.9905	0.352	31.83	0.199
1.046	0.351	32.83	0.198
1.105	0.351	33.83	0.194
1.168	0.351	34.83	0.189
1.234	0.351	35.83	0.187
1.305	0.351	36.83	0.175
1.379	0.349	37.83	0.162
1.458	0.349	38.83	0.165
1.542	0.318	39.83	0.152
1.631	0.316	40.83	0.161
1.724	0.318	41.83	0.155
1.824	0.316	42.83	0.155
1.929	0.315	43.83	0.149
2.041	0.316	44.83	0.149
2.159	0.313	45.83	0.153
2.284	0.313	46.83	0.152
2.416	0.311	47.83	0.152
2.557	0.311	48.83	0.15
2.706	0.311	49.83	0.149
2.863	0.309	50.83	0.137
3.03	0.308	51.83	0.14
3.207	0.306	52.83	0.139
3.394	0.306	53.83	0.142
3.592	0.305	54.83	0.142
3.803	0.305	55.83	0.145

SOLUTION

Slug Test

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

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	9.665	ft/day
y0	2.591	ft

K = 0.00341 cm/sec
 T = K*b = 241.6 ft²/day (2.598 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	9.665	1.463	+/- 2.895	6.608	ft/day
y0	2.591	0.2359	+/- 0.4669	10.98	ft

C.I. is approximate 95% confidence interval for parameter
 t-ratio = estimate/std. error
 No estimation window

K = 0.00341 cm/sec
 T = K*b = 241.6 ft²/day (2.598 sq. cm/sec)

Parameter Correlations

	<u>K</u>	<u>y0</u>
K	1.00	0.75
y0	0.75	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 32.51 ft²
 Variance 0.254 ft²
 Std. Deviation 0.504 ft
 Mean 0.1074 ft
 No. of Residuals .. 130
 No. of Estimates .. 2

NOTES

Estimated thickness of water table aquifer - 30 feet
 Estimated thickness of Lower Tamiami Aquifer - 50 feet leaky confined