

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: 15:41:49

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/11/1999
 Test Well: CRS06NM

AQUIFER DATA

Saturated Thickness: 50. ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS06NM

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

Initial Displacement: 8.599 ft
 Static Water Column Height: 53.24 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: 53.24 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 95

Observation Data			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.0162	8.495	1.535	0.654
0.0323	8.231	1.624	0.592
0.0485	7.912	1.718	0.534
0.0647	7.62	1.817	0.482
0.0808	7.35	1.922	0.435
0.097	7.091	2.034	0.392
0.1132	6.844	2.152	0.354
0.1293	6.608	2.277	0.319
0.1455	6.377	2.41	0.286
0.1617	6.16	2.55	0.257
0.1778	5.953	2.699	0.231
0.194	5.748	2.857	0.207
0.2102	5.556	3.023	0.184
0.2263	5.367	3.2	0.168
0.2425	5.185	3.388	0.15
0.2587	5.014	3.586	0.137

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2748	4.846	3.796	0.124
0.291	4.688	4.019	0.11
0.3072	4.532	4.255	0.1
0.3233	4.383	4.504	0.088
0.34	4.232	4.769	0.077
0.3577	4.091	5.049	0.071
0.3763	3.948	5.346	0.062
0.3962	3.802	5.661	0.052
0.4172	3.655	5.994	0.038
0.4393	3.506	6.347	0.016
0.4628	3.356	6.721	0.005
0.4877	3.206	7.117	0.
0.514	3.057	7.536	0.
0.542	2.904	7.98	0.005
0.5717	2.756	8.451	0.005
0.603	2.668	8.949	0.012
0.6362	2.447	9.477	0.016
0.6713	2.298	10.04	0.018
0.7087	2.153	10.63	0.015
0.7482	2.01	11.26	0.018
0.79	1.871	11.92	0.018
0.8343	1.737	12.63	0.016
0.8813	1.61	13.37	0.016
0.9312	1.489	14.16	0.015
0.9838	1.37	15.	0.015
1.04	1.258	15.88	0.016
1.099	1.152	16.82	0.016
1.162	1.054	17.82	0.015
1.228	0.965	18.82	0.012
1.298	0.877	19.82	0.016
1.373	0.796	20.82	0.018
1.452	0.722		

SOLUTION

Slug Test

Aquifer Model: Confined

Solution Method: Hvorslev

Log Factor: 0.2282

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	8.538	ft/day
y0	8.5	ft

K = 0.003012 cm/sec

T = K*b = 426.9 ft²/day (4.591 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	8.538	0.09294	+/- 0.1846	91.87	ft/day
y0	8.5	0.05054	+/- 0.1004	168.2	ft

C.I. is approximate 95% confidence interval for parameter

t-ratio = estimate/std. error

No estimation window

K = 0.003012 cm/sec

T = K*b = 426.9 ft²/day (4.591 sq. cm/sec)

Parameter Correlations

	<u>K</u>	<u>y0</u>
K	1.00	0.74
y0	0.74	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 1.447 ft²
 Variance 0.01556 ft²
 Std. Deviation 0.1248 ft
 Mean 0.05008 ft
 No. of Residuals .. 95
 No. of Estimates .. 2

NOTES

Estimated thickness of water table aquifer - 30 feet

Estimated thickness of Lower Tamiami Aquifer - 50 feet