Data Set: Z:\GW Data Steward Working Area\Caloosahatchee River Seepage\Caloosahatchee Well Drawdown Res
Title: Caloosahatchee River Seepage Project
Date: 06/15/16
Time: 15:33:51

PROJECT INFORMATION

Company: SFWMD
Client: SFWMD
Test Date: 8/11/1999
Test Well: CRS06FM

AQUIFER DATA

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

SLUG TEST WELL DATA

Test Well: CSR06FM

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

Initial Displacement: 8.952 ft
Static Water Column Height: 54.35 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: 54.35 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
Gravel Pack Porosity: 0.

No. of Observations: 90

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0163	8.8	1.302	0.304
0.0327	7.656	1.376	0.28
0.049	6.599	1.455	0.257
0.0653	5.745	1.539	0.235
0.0817	5.068	1.627	0.216
0.098	4.517	1.721	0.192
0.1143	4.063	1.82	0.174
0.1307	3.68	1.926	0.157
0.147	3.359	2.037	0.144
0.1633	3.081	2.155	0.128
0.1797	2.845	2.281	0.115
0.196	2.638	2.413	0.105
0.2123	2.458	2.554	0.098
0.2287	2.302	2.702	0.092
0.245	2.159	2.86	0.086
0.2613	2.032	3.027	0.078

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.2777	1.921	3.204	0.07
0.294	1.819	3.391	0.065
0.3103	1.725	3.589	0.057
0.3267	1.643	3.799	0.053
0.3433	1.559	4.022	0.047
0.361	1.488	4.258	0.044
0.3797	1.416	4.508	0.042
0.3995	1.348	4.772	0.03
0.4205	1.282	5.053	0.029
0.4427	1.218	5.349	0.03
0.4662	1.156	5.664	0.029
0.491	1.094	5.997	0.027
0.5173	1.036	6.35	0.026
0.5453	0.979	6.724	0.023
0.575	0.924	7.12	0.024
0.6063	0.893	7.539	0.021
0.6395	0.814	7.984	0.021
0.6747	0.763	8.454	0.02
0.712	0.714	8.953	0.018
0.7515	0.665	9.481	0.017
0.7933	0.621	10.04	0.017
0.8377	0.579	10.63	0.017
0.8847	0.54	11.26	0.016
0.9345	0.499	11.92	0.011
0.9872	0.463	12.63	0.014
1.043	0.427	13.37	0.01
1.102	0.397	14.16	0.014
1.165	0.369	15.	0.004
1.231	0.335	15.89	0.005

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler-Zhan

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	16.88	ft/day
Ss	0.0005963	ft^{-1}
Kz/Kr	0.25	
Le	348.4	ft

K = 0.005953 cm/sec
T = K*b = 843.8 ft²/day (9.073 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	16.88	0.239	+/- 0.4752	70.61	ft/day
Ss	0.0005963	4.031E-5	+/- 8.013E-5	14.79	ft^{-1}
Kz/Kr	0.25	not estimated			
Le	348.4	9.563	+/- 19.01	36.43	ft

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

K = 0.005953 cm/sec
T = K*b = 843.8 ft²/day (9.073 sq. cm/sec)

Parameter Correlations

	Kr	Ss	Le
Kr	1.00	-0.93	-0.38
Ss	-0.93	1.00	0.35
Le	-0.38	0.35	1.00

Residual Statistics

for weighted residuals

Sum of Squares. . . 0.322 ft^2
Variance . . . . . 0.003701 ft^2
Std. Deviation . . . . . 0.06083 ft
Mean . . . . . 0.01145 ft
No. of Residuals . . 90
No. of Estimates . . 3

NOTES

Estimated thickness of Water Table Aquifer 30 feet
Estimated thickness of Lower Tamiami Aquifer 50 feet (leaky confined)