

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: 15:24:12

PROJECT INFORMATION

Company: SFWMD
 Client: SFWMD
 Test Date: 8/11/1999
 Test Well: CRS04NS

AQUIFER DATA

Saturated Thickness: 24.89 ft
 Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: CRS04NS

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

Initial Displacement: 3.544 ft
 Static Water Column Height: 7.09 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: 7.09 ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
 Gravel Pack Porosity: 0.

No. of Observations: 120

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.0163	3.544	3.027	0.401
0.0327	2.802	3.204	0.398
0.049	2.131	3.391	0.397
0.0653	1.638	3.589	0.398
0.0817	1.381	3.799	0.398
0.098	1.184	4.022	0.397
0.1143	1.024	4.258	0.395
0.1307	0.956	4.508	0.394
0.147	0.864	4.772	0.392
0.1633	0.829	5.053	0.394
0.1797	0.792	5.349	0.392
0.196	0.756	5.664	0.392
0.2123	0.721	5.997	0.391
0.2287	0.685	6.35	0.391
0.245	0.684	6.724	0.39
0.2613	0.649	7.12	0.355

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2777	0.649	7.539	0.355
0.294	0.646	7.984	0.354
0.3103	0.614	8.454	0.354
0.3267	0.613	8.953	0.351
0.3433	0.612	9.481	0.348
0.361	0.61	10.04	0.343
0.3797	0.578	10.63	0.343
0.3995	0.577	11.26	0.343
0.4205	0.576	11.92	0.341
0.4427	0.576	12.63	0.341
0.4662	0.574	13.37	0.341
0.491	0.542	14.16	0.339
0.5173	0.541	15.	0.341
0.5453	0.539	15.89	0.343
0.575	0.539	16.83	0.352
0.6063	0.539	17.82	0.352
0.6395	0.508	18.82	0.349
0.6747	0.508	19.82	0.345
0.712	0.508	20.82	0.338
0.7515	0.506	21.82	0.341
0.7933	0.506	22.82	0.341
0.8377	0.505	23.82	0.335
0.8847	0.506	24.82	0.33
0.9345	0.473	25.82	0.333
0.9872	0.473	26.82	0.32
1.043	0.473	27.82	0.318
1.102	0.472	28.82	0.318
1.165	0.47	29.82	0.32
1.231	0.47	30.82	0.303
1.302	0.467	31.82	0.302
1.376	0.467	32.82	0.3
1.455	0.466	33.82	0.299
1.539	0.434	34.82	0.302
1.627	0.434	35.82	0.299
1.721	0.434	36.82	0.299
1.82	0.434	37.82	0.299
1.926	0.434	38.82	0.297
2.037	0.434	39.82	0.297
2.155	0.434	40.82	0.296
2.281	0.434	41.82	0.294
2.413	0.433	42.82	0.293
2.554	0.433	43.82	0.294
2.702	0.433	44.82	0.294
2.86	0.433	45.82	0.294

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	7.359	ft/day
y0	3.518	ft

K = 0.002596 cm/sec
 T = K*b = 183.2 ft²/day (1.97 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	7.359	4.018	+/- 7.956	1.831	ft/day
y0	3.518	0.4886	+/- 0.9674	7.199	ft

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

K = 0.002596 cm/sec
 T = K*b = 183.2 ft²/day (1.97 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... 61.29 ft²
 Variance 0.5194 ft²
 Std. Deviation 0.7207 ft
 Mean -0.1155 ft
 No. of Residuals .. 120
 No. of Estimates .. 2

NOTES

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