

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: 15:25:40

### PROJECT INFORMATION

Company: SFWMD

Client: SFWMD

Test Date: 8/17/1999

Test Well: CRS05FS

### AQUIFER DATA

Saturated Thickness: 25.75 ft

Anisotropy Ratio (Kz/Kr): 0.25

### SLUG TEST WELL DATA

Test Well: CRS05FS

X Location: 0. ft

Y Location: 0. ft

Initial Displacement: 4.873 ft

Static Water Column Height: 9.45 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: 9.45 ft

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

Gravel Pack Porosity: 0.

No. of Observations: 120

Observation Data			
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0163	4.736	3.027	0.438
0.0327	3.99	3.204	0.436
0.049	3.359	3.391	0.434
0.0653	2.823	3.589	0.431
0.0817	2.418	3.799	0.431
0.098	2.079	4.022	0.428
0.1143	1.797	4.258	0.424
0.1307	1.527	4.508	0.423
0.147	1.36	4.772	0.418
0.1633	1.213	5.053	0.417
0.1797	1.043	5.349	0.414
0.196	0.992	5.664	0.413
0.2123	0.887	5.997	0.41
0.2287	0.831	6.35	0.407
0.245	0.777	6.724	0.404
0.2613	0.727	7.12	0.4

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2777	0.676	7.539	0.394
0.294	0.674	7.984	0.387
0.3103	0.623	8.454	0.384
0.3267	0.622	8.953	0.376
0.3433	0.619	9.481	0.369
0.361	0.573	10.04	0.366
0.3797	0.571	10.63	0.366
0.3995	0.57	11.26	0.358
0.4205	0.568	11.92	0.352
0.4427	0.567	12.63	0.351
0.4662	0.519	13.37	0.346
0.491	0.519	14.16	0.338
0.5173	0.518	15.	0.329
0.5453	0.518	15.89	0.32
0.575	0.515	16.83	0.316
0.6063	0.516	17.82	0.317
0.6395	0.513	18.82	0.309
0.6747	0.513	19.82	0.303
0.712	0.512	20.82	0.299
0.7515	0.512	21.82	0.291
0.7933	0.511	22.82	0.287
0.8377	0.467	23.82	0.281
0.8847	0.467	24.82	0.278
0.9345	0.467	25.82	0.278
0.9872	0.467	26.82	0.276
1.043	0.466	27.82	0.264
1.102	0.464	28.82	0.265
1.165	0.464	29.82	0.258
1.231	0.463	30.82	0.257
1.302	0.463	31.82	0.251
1.376	0.46	32.82	0.251
1.455	0.459	33.82	0.248
1.539	0.457	34.82	0.244
1.627	0.456	35.82	0.242
1.721	0.454	36.82	0.235
1.82	0.453	37.82	0.242
1.926	0.451	38.82	0.232
2.037	0.45	39.82	0.234
2.155	0.449	40.82	0.231
2.281	0.447	41.82	0.235
2.413	0.446	42.82	0.235
2.554	0.444	43.82	0.231
2.702	0.444	44.82	0.227
2.86	0.441	45.82	0.234

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	10.69	ft/day
y0	2.943	ft

$K = 0.003772$  cm/sec

$T = K*b = 275.3$  ft<sup>2</sup>/day (2.96 sq. cm/sec)

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NOTES

Estimated thickness of water table aquifer - 30 feet

Estimated thickness of Lower Tamiami Aquifer - 50 feet leaky confined