

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
Date: 06/02/16
Time: 12:38:33

PROJECT INFORMATION

Company: SFWMD
Client: SFWMD
Test Date: 1/13/1997
Test Well: KRCNNM

AQUIFER DATA

Saturated Thickness: 61.83 ft
Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRCNNM

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

Initial Displacement: 4.19 ft
Static Water Column Height: 33.33 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4. ft
Total Well Penetration Depth: 33.33 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
Gravel Pack Porosity: 0.

No. of Observations: 54

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.1166	1.	1.5	0.03103
0.1333	0.7613	1.583	0.02625
0.15	0.6301	1.667	0.02387
0.1666	0.6516	1.75	0.02148
0.1833	0.5465	1.833	0.01909
0.2	0.5513	1.917	0.01909
0.2166	0.5418	2.	0.01671
0.2333	0.5131	2.5	0.01193
0.25	0.4845	3.	0.009547
0.2666	0.4558	3.5	0.009547
0.2833	0.432	4.	0.004773
0.3	0.4081	4.5	0.004773
0.3166	0.3866	5.	0.004773
0.3333	0.3675	5.5	0.002387
0.4167	0.284	6.	0.002387
0.5	0.222	6.5	0.002387
0.5833	0.1766	7.	0.002387

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.6667	0.1408	7.5	0.002387
0.75	0.1146	8.	0.002387
0.8333	0.09547	8.5	0.002387
0.9167	0.08115	9.	0.002387
1.	0.06683	9.5	0.002387
1.083	0.05728	10.	0.002387
1.167	0.05012	11.	0.
1.25	0.04296	12.	0.
1.333	0.03819	13.	0.
1.417	0.03341	14.	0.

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.903

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	12.88	ft/day
y0	1.21	ft

K = 0.004545 cm/sec
 T = K*b = 796.5 ft²/day (8.565 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	12.88	0.6845	+/- 1.374	18.82	ft/day
y0	1.21	0.05101	+/- 0.1024	23.71	ft

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

K = 0.004545 cm/sec
 T = K*b = 796.5 ft²/day (8.565 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.92
y0	0.92	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.07043 ft²
Variance 0.001355 ft²
Std. Deviation 0.0368 ft
Mean 0.008444 ft
No. of Residuals .. 54
No. of Estimates .. 2