Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
Date: 06/02/16
Time: 12:20:43

PROJECT INFORMATION

Company: SFWMD
Client: SFWMD
Test Date: 1/15/1997
Test Well: KRBNNS

AQUIFER DATA

Saturated Thickness: 27.24 ft
Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRBNNS

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

Initial Displacement: 4.8 ft
Static Water Column Height: 19.97 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4. ft
Total Well Penetration Depth: 19.97 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.083 ft
Gravel Pack Porosity: 0.

No. of Observations: 63

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0233	1.	1.25	0.3042
0.0266	0.8021	1.333	0.2875
0.03	0.9229	1.417	0.2708
0.0333	0.8187	1.5	0.2562
0.05	0.8125	1.583	0.2417
0.0666	0.8208	1.667	0.2271
0.0833	0.7854	1.75	0.2146
0.1	0.7688	1.833	0.2021
0.1166	0.7521	1.917	0.1896
0.1333	0.7396	2.	0.1792
0.15	0.7292	2.5	0.1292
0.1666	0.7167	3.	0.09375
0.1833	0.7042	3.5	0.06875
0.2	0.6917	4.	0.05
0.2166	0.6833	4.5	0.03542
0.2333	0.6729	5.	0.02708
0.25	0.6625	5.5	0.02083

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.2666	0.6542	6.	0.01667
0.2833	0.6438	6.5	0.0125
0.3	0.6333	7.	0.01042
0.3166	0.625	7.5	0.008333
0.3333	0.6188	8.	0.00625
0.4167	0.5771	8.5	0.004167
0.5	0.5396	9.	0.002083
0.5833	0.5042	9.5	0.002083
0.6667	0.4708	10.	0.002083
0.75	0.4417	11.	0.002083
0.8333	0.4146	12.	0.
0.9167	0.3917	13.	0.
1.	0.3667	14.	0.
1.083	0.3458	15.	0.
1.167	0.325		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.253

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.962	ft/day
y0	0.8439	ft

K = 0.001045 cm/sec
T = K*b = 80.69 ft²/day (0.8676 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	2.962	0.07935	+/- 0.1587	37.33	ft/day
y0	0.8439	0.008293	+/- 0.01659	101.8	ft

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

K = 0.001045 cm/sec
T = K*b = 80.69 ft²/day (0.8676 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.62

y0 0.62 1.00

Residual Statistics

for weighted residuals

Sum of Squares. . . 0.05335 ft^2
Variance . . . . . 0.0008746 ft^2
Std. Deviation . . . . . 0.02957 ft
Mean . . . . . 0.003073 ft
No. of Residuals . . 63
No. of Estimates . . 2