

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
Date: 06/02/16
Time: 12:41:54

PROJECT INFORMATION

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

AQUIFER DATA

Saturated Thickness: 62.76 ft
Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRDDFFM

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

Initial Displacement: 2.59 ft
Static Water Column Height: 40.79 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: 40.79 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
Gravel Pack Porosity: 0.

No. of Observations: 91

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.03	1.	5.5	0.556
0.0333	0.9884	6.	0.529
0.05	0.9807	6.5	0.5058
0.0666	0.9421	7.	0.4865
0.0833	0.973	7.5	0.4633
0.1	0.9575	8.	0.4402
0.1166	0.9614	8.5	0.4247
0.1333	0.9575	9.	0.4054
0.15	0.9537	9.5	0.3861
0.1666	0.9537	10.	0.3668
0.1833	0.9498	11.	0.3359
0.2	0.9459	12.	0.305
0.2166	0.9421	13.	0.2819
0.2333	0.9421	14.	0.2548
0.25	0.9382	15.	0.2317
0.2666	0.9344	16.	0.2162
0.2833	0.9344	17.	0.1969

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.3	0.9305	18.	0.1776
0.3166	0.9266	19.	0.1622
0.3333	0.9266	20.	0.1506
0.4167	0.9151	21.	0.139
0.5	0.9112	22.	0.1236
0.5833	0.8996	23.	0.112
0.6667	0.8919	24.	0.1004
0.75	0.8803	25.	0.09653
0.8333	0.8726	26.	0.08494
0.9167	0.8649	27.	0.07722
1.	0.8571	28.	0.0695
1.083	0.8494	29.	0.06178
1.167	0.8417	30.	0.05405
1.25	0.834	31.	0.04633
1.333	0.8301	32.	0.04247
1.417	0.8224	33.	0.03861
1.5	0.8147	34.	0.03089
1.583	0.8069	35.	0.02703
1.667	0.7992	36.	0.02703
1.75	0.7915	37.	0.02317
1.833	0.7876	38.	0.0193
1.917	0.7799	39.	0.01544
2.	0.7722	40.	0.01158
2.5	0.7375	41.	0.007722
3.	0.7027	42.	0.007722
3.5	0.668	43.	0.003861
4.	0.6409	44.	0.
4.5	0.61	45.	0.
5.	0.5792		

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.155

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.3051	ft/day
y0	0.9569	ft

K = 0.0001076 cm/sec
 T = K*b = 19.15 ft²/day (0.2059 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>
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AQTESOLV for Windows

K	0.3051	0.002264	+/- 0.004499	134.7	ft/day
y0	0.9569	0.002072	+/- 0.004117	461.8	ft

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

K = 0.0001076 cm/sec
T = K*b = 19.15 ft²/day (0.2059 sq. cm/sec)

Parameter Correlations

	<u>K</u>	<u>y0</u>
K	1.00	0.48
y0	0.48	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.01206 ft²
Variance 0.0001356 ft²
Std. Deviation 0.01164 ft
Mean 6.175E-5 ft
No. of Residuals .. 91
No. of Estimates .. 2