Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
Date: 06/02/16
Time: 12:09:13

PROJECT INFORMATION

Company: SFWMD
Client: SFWMD
Test Date: 1/14/1997
Test Well: KRANNM

AQUIFER DATA

Saturated Thickness: 65.94 ft
Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRANNM

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

Initial Displacement: 2.57 ft
Static Water Column Height: 39.44 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: 39.44 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
Gravel Pack Porosity: 0.

No. of Observations: 86

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0833	1.	6.	0.716
0.1	0.9961	6.5	0.6965
0.1166	0.9883	7.	0.6809
0.1333	0.9844	7.5	0.6693
0.15	0.9922	8.	0.6537
0.1666	0.965	8.5	0.6381
0.1833	0.9728	9.	0.6187
0.2	0.9728	9.5	0.6031
0.2166	0.9689	10.	0.5953
0.2333	0.9689	11.	0.5642
0.25	0.9689	12.	0.537
0.2666	0.965	13.	0.5097
0.2833	0.9611	14.	0.4825
0.3	0.9611	15.	0.463
0.3166	0.9611	16.	0.4358
0.3333	0.9572	17.	0.4125
0.4167	0.9533	18.	0.393

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.9455	19.	0.3696
0.5833	0.9416	20.	0.3502
0.6667	0.9377	21.	0.3268
0.75	0.93	22.	0.3074
0.8333	0.9261	23.	0.2918
0.9167	0.9222	24.	0.2724
1.	0.9183	25.	0.2568
1.083	0.9144	26.	0.2412
1.167	0.9066	27.	0.2218
1.25	0.9027	28.	0.2062
1.333	0.8988	29.	0.1907
1.417	0.8949	30.	0.1751
1.5	0.8911	31.	0.1595
1.583	0.8872	32.	0.144
1.667	0.8833	33.	0.1284
1.75	0.8755	34.	0.1206
1.833	0.8755	35.	0.1051
1.917	0.8755	36.	0.09339
2.	0.8677	37.	0.07782
2.5	0.8482	38.	0.06615
3.	0.8249	39.	0.05447
3.5	0.8054	40.	0.04669
4.	0.7899	41.	0.03113
4.5	0.7665	42.	0.01946
5.	0.751	43.	0.007782
5.5	0.7354	44.	0.

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.96

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.2051	ft/day
y0	0.9828	ft

K = 7.236E-5 cm/sec
T = K*b = 13.53 ft²/day (0.1454 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	0.2051	0.003097	+/- 0.006159	66.24	ft/day
y0	0.9828	0.004683	+/- 0.009314	209.9	ft

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

K = 7.236E-5 cm/sec
T = K*b = 13.53 ft²/day (0.1454 sq. cm/sec)

Parameter Correlations

	K	y0
K	1.00	0.48
y0	0.48	1.00

Residual Statistics

for weighted residuals

Sum of Squares. . . 0.06222 ft^2
Variance . . . . . 0.0007407 ft^2
Std. Deviation . . . . . 0.02722 ft
Mean . . . . . -0.00407 ft
No. of Residuals . . 86
No. of Estimates . . 2