

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-636L\_RHT\_KGS.aqt  
 Title: OW-636 L RISING HEAD TEST 5-20-08  
 Date: 06/08/16  
 Time: 10:22:17

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PROJECT INFORMATION

Company: Turkey Point  
 Client: BECHTEL  
 Project: 6468-07-1950  
 Location: Turkey Point  
 Test Date: 5-21-08  
 Test Well: OW-636 L

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AQUIFER DATA

Saturated Thickness: 88. ft  
 Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-636 L

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

Initial Displacement: 8.321 ft  
 Static Water Column Height: 111.7 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.25 ft  
 Well Skin Radius: 0.25 ft  
 Screen Length: 17.5 ft  
 Total Well Penetration Depth: 111. ft

No. of Observations: 29

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	8.321	9.062	2.509
0.508	8.012	10.02	2.154
0.731	7.808	10.98	1.832
1.094	7.474	12.06	1.507
1.654	6.963	13.2	1.213
2.102	6.581	14.4	0.937
2.807	6.016	15.66	0.696
3.183	5.733	16.98	0.48
3.783	5.313	18.42	0.286
4.383	4.911	19.92	0.123
5.042	4.496	21.48	-0.017
5.762	4.076	23.16	-0.139
6.542	3.652	24.96	-0.237
7.322	3.269	26.82	-0.302
8.163	2.886		

SOLUTION

Slug Test  
 Aquifer Model: Confined  
 Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	10.58	ft/day
Ss	1.13E-12	ft <sup>-1</sup>
Kz/Kr	1.	

K = 0.003732 cm/sec  
 T = K\*b = 931.1 ft<sup>2</sup>/day (10.01 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	10.58	12.56	+/- 25.77	0.8425	ft/day
Ss	1.13E-12	7.091E-11	+/- 1.455E-10	0.01593	ft <sup>-1</sup>
Kz/Kr	1.	not estimated			

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

K = 0.003732 cm/sec  
 T = K\*b = 931.1 ft<sup>2</sup>/day (10.01 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	-1.00
Ss	-1.00	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 3.891 ft<sup>2</sup>  
 Variance ..... 0.1441 ft<sup>2</sup>  
 Std. Deviation ..... 0.3796 ft  
 Mean ..... -0.03982 ft  
 No. of Residuals .. 29  
 No. of Estimates .. 2