

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-721L_RHT_BUTLER.aqt
 Title: OW-721 L RISING HEAD TEST 5-15-08
 Date: 06/08/16
 Time: 11:50:43

PROJECT INFORMATION

Company: Turkey Point
 Client: BECHTEL
 Project: 6468-07-1950
 Location: Turkey Point
 Test Date: 5-16-08
 Test Well: OW-721 L

AQUIFER DATA

Saturated Thickness: 90. ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-721 L

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

Initial Displacement: 5.904 ft
 Static Water Column Height: 110. ft
 Casing Radius: 0.083 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 17. ft
 Total Well Penetration Depth: 109. ft

No. of Observations: 40

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	5.904	86.52	0.098
2.4	2.562	94.32	0.09
4.919	2.146	102.1	0.082
7.56	1.82	110.5	0.071
10.38	1.534	119.5	0.068
13.38	1.285	129.1	0.058
16.56	1.074	138.7	0.053
19.92	0.897	149.5	0.041
23.52	0.743	160.9	0.038
27.12	0.617	172.9	0.034
31.32	0.502	185.5	0.025
35.52	0.414	198.7	0.025
39.72	0.352	213.1	0.022
44.52	0.293	228.1	0.01
49.92	0.242	243.7	0.01
54.72	0.206	260.5	0.013

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
60.72	0.177	278.5	0.005
66.72	0.152	297.1	0.006
72.72	0.131	317.5	0.004
79.32	0.114	338.5	0.

SOLUTION

Slug Test
 Aquifer Model: Confined
 Solution Method: Butler
 Log Factor: 0.2036

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	11.59	ft/day
Le	0.1	ft

K = 0.004087 cm/sec
 T = K*b = 1042.7 ft²/day (11.21 sq. cm/sec)
 Le = 0.1 ft
 Solution is critically damped when C(D) = 2.

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	11.59	0.9789	+/- 1.981	11.84	ft/day
Le	0.1	164.5	+/- 333.	0.0006079	ft

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

K = 0.004087 cm/sec
 T = K*b = 1042.7 ft²/day (11.21 sq. cm/sec)
 Le = 0.1 ft
 Solution is critically damped when C(D) = 2.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.03
Le	0.03	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 5.26 ft²

Variance 0.1384 ft²
Std. Deviation 0.372 ft
Mean 0.107 ft
No. of Residuals .. 40
No. of Estimates .. 2