

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-606L\_RHT\_McZ.aqt  
 Title: OW-606 L RISING HEAD TEST 5-20-08  
 Date: 06/08/16  
 Time: 09:37:07

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PROJECT INFORMATION

Company: Turkey Point  
 Client: BECHTEL  
 Project: 6468-07-1950  
 Location: Turkey Point  
 Test Date: 5-18-08  
 Test Well: OW-606 L

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AQUIFER DATA

Saturated Thickness: 92. ft  
 Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-606 L

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

Initial Displacement: 4.388 ft  
 Static Water Column Height: 108.7 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.29 ft  
 Well Skin Radius: 0.29 ft  
 Screen Length: 16.2 ft  
 Total Well Penetration Depth: 109. ft

No. of Observations: 34

| Time (sec) | Observation Data  |            | Displacement (ft) |
|------------|-------------------|------------|-------------------|
|            | Displacement (ft) | Time (sec) |                   |
| 0.         | 4.388             | 9.499      | 0.178             |
| 0.222      | 4.081             | 10.46      | 0.447             |
| 0.444      | 3.869             | 11.42      | 0.55              |
| 0.679      | 3.658             | 12.5       | 0.475             |
| 1.099      | 3.234             | 13.64      | 0.262             |
| 1.519      | 2.64              | 14.84      | 0.009             |
| 1.999      | 1.915             | 16.1       | -0.177            |
| 2.539      | 1.102             | 17.42      | -0.242            |
| 3.019      | 0.446             | 18.86      | -0.169            |
| 3.619      | -0.237            | 20.37      | -0.021            |
| 4.22       | -0.736            | 21.92      | 0.101             |
| 4.82       | -1.058            | 23.6       | 0.123             |
| 5.479      | -1.208            | 25.4       | 0.06              |
| 6.199      | -1.173            | 27.26      | -0.019            |
| 6.979      | -0.959            | 29.3       | -0.051            |
| 7.759      | -0.624            | 31.45      | -0.019            |

| <u>Time (sec)</u> | <u>Displacement (ft)</u> | <u>Time (sec)</u> | <u>Displacement (ft)</u> |
|-------------------|--------------------------|-------------------|--------------------------|
| 8.6               | -0.213                   | 33.72             | 0.026                    |

SOLUTION

Slug Test

Aquifer Model: Confined

Solution Method: McElwee-Zenner

Log Factor: 0.212

VISUAL ESTIMATION RESULTSEstimated Parameters

| <u>Parameter</u> | <u>Estimate</u> |        |
|------------------|-----------------|--------|
| K                | 66.13           | ft/day |
| $\beta$          | 2.736E-317      | ft     |
| A                | 0.              |        |
| v(0)             | 0.              | ft/day |

K = 0.02333 cm/sec

T = K\*b = 6084. ft<sup>2</sup>/day (65.42 sq. cm/sec)

Le = 2.736E-317 ft