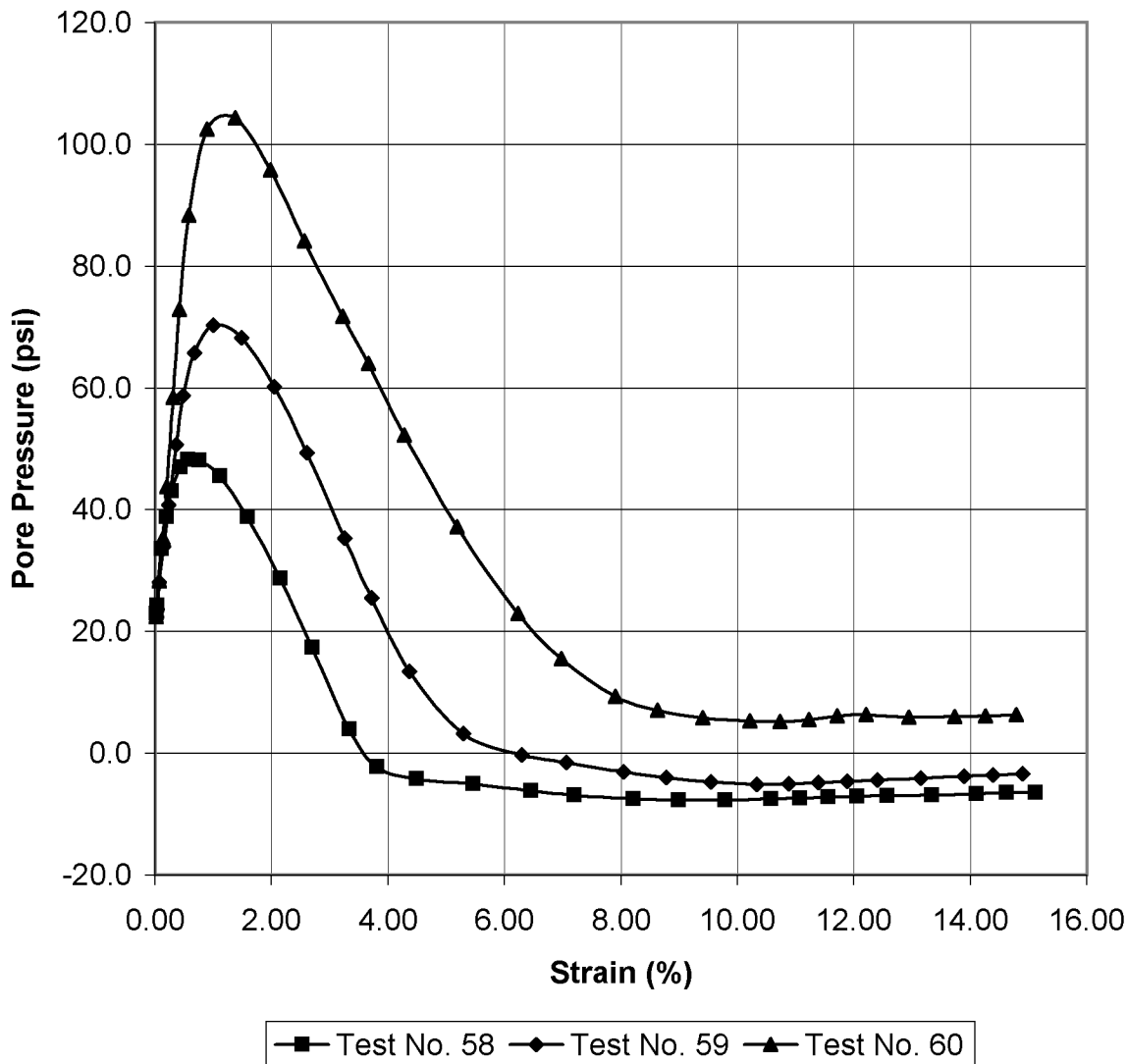


**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 325.9-328.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-55       |
| Lab ID:           | 2013-465-001-035              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-963

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 326.6-326.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-55       |
| Lab ID:           | 2013-465-001-035              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 115.1 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 59 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 4.82  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.53  |
| Initial Sample Volume (in <sup>3</sup> ) | 31.46 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 30.58 |
| Length After Consolidation (in)               | 4.78  |
| Area After Consolidation (in <sup>2</sup> )   | 6.395 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A     | P      | Q      |
|------------|------------------|--------|----------------|----------------|----------------------------------|-------|--------|--------|
| 0.02       | 8.24             | 1.22   | 122.12         | 113.9          | 1.072                            | 0.15  | 118.00 | 4.12   |
| 0.04       | 14.78            | 2.05   | 127.84         | 113.1          | 1.131                            | 0.14  | 120.45 | 7.39   |
| 0.08       | 38.72            | 6.47   | 147.35         | 108.6          | 1.356                            | 0.17  | 127.99 | 19.36  |
| 0.15       | 59.33            | 12.40  | 162.03         | 102.7          | 1.578                            | 0.21  | 132.36 | 29.67  |
| 0.24       | 76.85            | 19.13  | 172.82         | 96.0           | 1.801                            | 0.25  | 134.39 | 38.43  |
| 0.36       | 98.29            | 29.09  | 184.30         | 86.0           | 2.143                            | 0.30  | 135.16 | 49.15  |
| 0.49       | 114.95           | 37.11  | 192.94         | 78.0           | 2.474                            | 0.32  | 135.47 | 57.48  |
| 0.68       | 131.25           | 44.14  | 202.20         | 71.0           | 2.850                            | 0.34  | 136.58 | 65.62  |
| 1.00       | 154.09           | 48.63  | 220.57         | 66.5           | 3.318                            | 0.32  | 143.52 | 77.05  |
| 1.49       | 185.71           | 46.63  | 254.17         | 68.5           | 3.712                            | 0.25  | 161.32 | 92.85  |
| 2.05       | 227.30           | 38.57  | 303.83         | 76.5           | 3.970                            | 0.17  | 190.18 | 113.65 |
| 2.61       | 270.21           | 27.74  | 357.57         | 87.4           | 4.093                            | 0.10  | 222.46 | 135.10 |
| 3.26       | 321.00           | 13.72  | 422.38         | 101.4          | 4.166                            | 0.04  | 261.88 | 160.50 |
| 3.72       | 356.03           | 3.86   | 467.27         | 111.2          | 4.201                            | 0.01  | 289.25 | 178.01 |
| 4.37       | 398.60           | -8.20  | 521.89         | 123.3          | 4.233                            | -0.02 | 322.59 | 199.30 |
| 5.29       | 439.11           | -18.43 | 572.64         | 133.5          | 4.289                            | -0.04 | 353.08 | 219.56 |
| 6.30       | 458.36           | -21.90 | 595.35         | 137.0          | 4.346                            | -0.05 | 366.18 | 229.18 |
| 7.06       | 466.00           | -23.13 | 604.23         | 138.2          | 4.371                            | -0.05 | 371.23 | 233.00 |
| 8.05       | 470.35           | -24.67 | 610.12         | 139.8          | 4.365                            | -0.05 | 374.95 | 235.18 |
| 8.79       | 470.04           | -25.61 | 610.75         | 140.7          | 4.340                            | -0.05 | 375.73 | 235.02 |
| 9.55       | 461.09           | -26.31 | 602.50         | 141.4          | 4.261                            | -0.06 | 371.95 | 230.55 |
| 10.34      | 424.17           | -26.75 | 566.02         | 141.9          | 3.990                            | -0.06 | 353.94 | 212.09 |
| 10.88      | 392.53           | -26.66 | 534.29         | 141.8          | 3.769                            | -0.07 | 338.02 | 196.27 |
| 11.39      | 385.64           | -26.43 | 527.17         | 141.5          | 3.725                            | -0.07 | 334.35 | 192.82 |
| 11.89      | 384.23           | -26.20 | 525.53         | 141.3          | 3.719                            | -0.07 | 333.42 | 192.12 |
| 12.40      | 383.99           | -25.98 | 525.07         | 141.1          | 3.722                            | -0.07 | 333.07 | 191.99 |
| 13.15      | 387.52           | -25.70 | 528.32         | 140.8          | 3.752                            | -0.07 | 334.56 | 193.76 |
| 13.90      | 384.71           | -25.39 | 525.21         | 140.5          | 3.738                            | -0.07 | 332.85 | 192.36 |
| 14.39      | 384.59           | -25.22 | 524.90         | 140.3          | 3.741                            | -0.07 | 332.61 | 192.29 |
| 14.90      | 371.13           | -25.02 | 511.25         | 140.1          | 3.649                            | -0.07 | 325.69 | 185.56 |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 326.6-326.9 |
| Project No.      | 2013-465-001                  | Sample No. | ST-55       |
| Lab ID #         | 2013-465-001-035              | Test No.   | 59          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G336                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1295                | 3/4/14                      |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 326.9-327.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-55       |
| Lab ID:           | 2013-465-001-035              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 60 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.800 | Diameter 1: | 2.879 |
| Length 2:    | 5.811 | Diameter 2: | 2.882 |
| Length 3:    | 5.801 | Diameter 3: | 2.874 |
| Avg. Length: | 5.804 | Avg. Diam.: | 2.878 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 245.0 |
| Back Pressure (psi)        | 21.5  |
| Eff. Conf. Pressure (psi)  | 223.5 |
| Pore Pressure Response (%) | 99    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 24.1 |
| Final Change (ml)            | 23.9 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 444.28 |
| Q         | = | 263.24 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 54  |
| Dial Reading After Saturation (mil)    | 56  |
| Dial Reading After Consolidation (mil) | 100 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 57.4         | 0.000               | 21.5                   |
| 121.4        | 0.001               | 22.4                   |
| 173.9        | 0.002               | 23.4                   |
| 403.5        | 0.004               | 28.3                   |
| 633.6        | 0.008               | 35.3                   |
| 849.9        | 0.012               | 43.8                   |
| 1152.4       | 0.018               | 58.4                   |
| 1411.3       | 0.024               | 72.9                   |
| 1687.8       | 0.034               | 88.3                   |
| 2020.0       | 0.052               | 102.4                  |
| 2370.4       | 0.080               | 104.3                  |
| 2724.7       | 0.115               | 95.7                   |
| 3028.6       | 0.148               | 84.1                   |
| 3327.7       | 0.185               | 71.7                   |
| 3500.1       | 0.211               | 64.0                   |
| 3723.2       | 0.247               | 52.2                   |
| 3997.4       | 0.299               | 37.2                   |
| 4229.1       | 0.359               | 22.9                   |
| 4329.7       | 0.402               | 15.4                   |
| 4411.6       | 0.456               | 9.3                    |
| 4451.3       | 0.497               | 7.1                    |
| 4483.0       | 0.542               | 5.8                    |
| 4510.4       | 0.588               | 5.3                    |
| 4516.4       | 0.618               | 5.1                    |
| 4508.6       | 0.647               | 5.5                    |
| 4502.1       | 0.675               | 6.1                    |
| 4511.7       | 0.703               | 6.3                    |
| 4516.0       | 0.745               | 5.9                    |
| 4503.9       | 0.791               | 6.0                    |
| 4502.2       | 0.821               | 6.1                    |
| 4499.5       | 0.852               | 6.3                    |

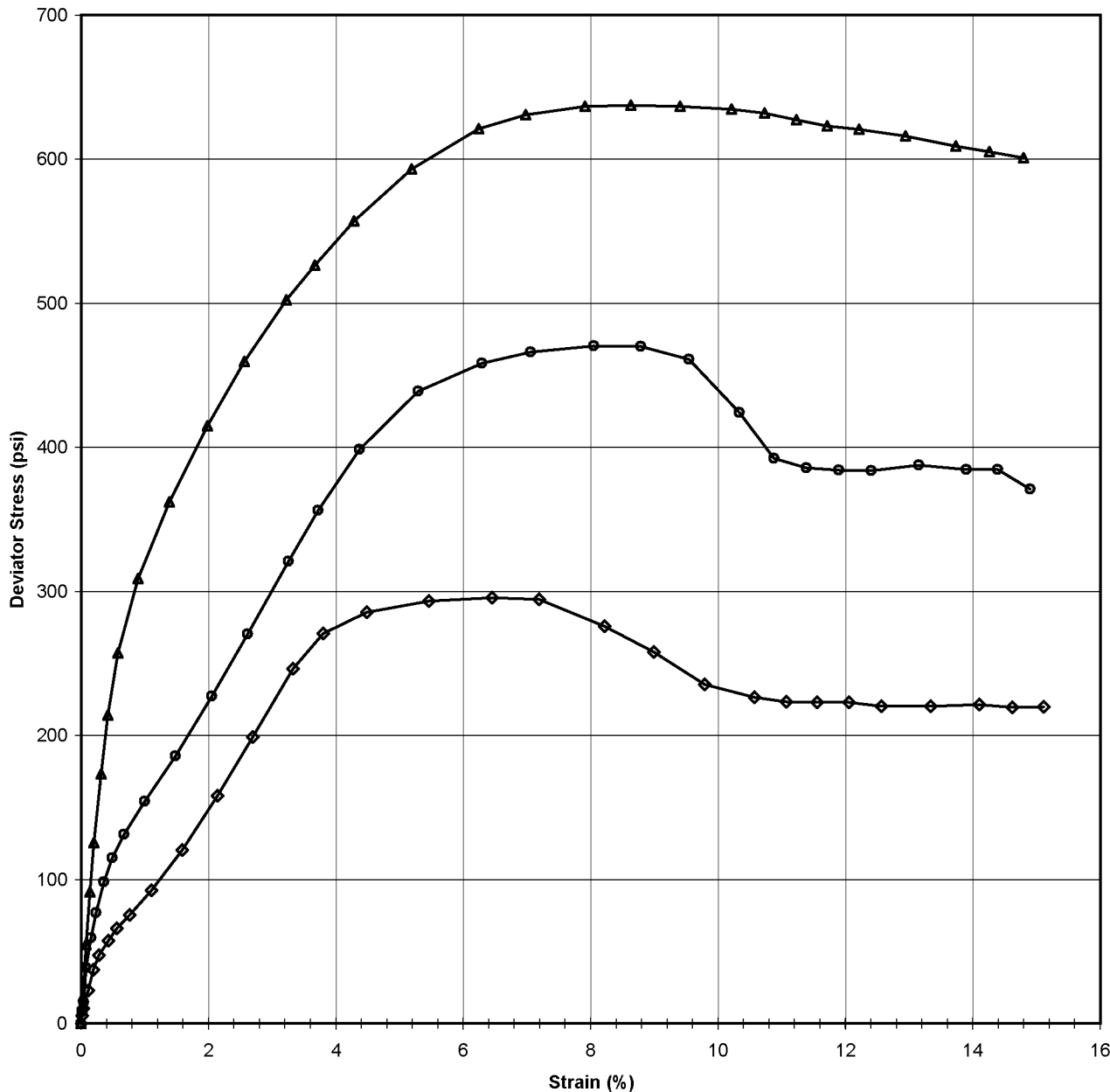
|            |     |       |          |                   |    |       |         |
|------------|-----|-------|----------|-------------------|----|-------|---------|
| Tested By: | JCM | Date: | 11/29/13 | Input Checked By: | KC | Date: | 12/4/13 |
|------------|-----|-------|----------|-------------------|----|-------|---------|

DCN: CI-S28 DATE: 4/12/13 REVISION: 3



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-6-1b      |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 325.9-328.0 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-55       |
| Lab ID:             | 2013-465-001-035                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 58                     
 ● Test No. 59                     
 ▲ Test No. 60

E50 Test No. 58 7430.434

E50 Test No. 59 10950.26

E50 Test No. 60 42572.59

Tested By: JCM                      Date: 11/29/13                      Approved By: DB                      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 326.9-327.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-55       |
| Lab ID:           | 2013-465-001-035              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 223.5 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 60 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.80  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.77 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.27 |
| Length After Consolidation (in)               | 5.76  |
| Area After Consolidation (in <sup>2</sup> )   | 6.299 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 10.16            | 0.94       | 232.71           | 222.6            | 1.046                            | 0.09      | 227.63    | 5.08   |
| 0.03       | 18.49            | 1.85       | 240.14           | 221.6            | 1.083                            | 0.10      | 230.89    | 9.24   |
| 0.08       | 54.91            | 6.82       | 271.59           | 216.7            | 1.253                            | 0.13      | 244.14    | 27.46  |
| 0.14       | 91.35            | 13.77      | 301.08           | 209.7            | 1.436                            | 0.15      | 255.41    | 45.68  |
| 0.20       | 125.55           | 22.28      | 326.77           | 201.2            | 1.624                            | 0.18      | 263.99    | 62.78  |
| 0.31       | 173.30           | 36.92      | 359.87           | 186.6            | 1.929                            | 0.22      | 273.23    | 86.65  |
| 0.42       | 214.05           | 51.39      | 386.16           | 172.1            | 2.244                            | 0.24      | 279.14    | 107.02 |
| 0.58       | 257.33           | 66.84      | 414.00           | 156.7            | 2.643                            | 0.26      | 285.33    | 128.67 |
| 0.90       | 308.78           | 80.93      | 451.35           | 142.6            | 3.166                            | 0.26      | 296.96    | 154.39 |
| 1.39       | 362.13           | 82.77      | 502.85           | 140.7            | 3.573                            | 0.23      | 321.79    | 181.06 |
| 1.99       | 415.03           | 74.21      | 564.33           | 149.3            | 3.780                            | 0.18      | 356.81    | 207.52 |
| 2.57       | 459.61           | 62.57      | 620.55           | 160.9            | 3.856                            | 0.14      | 390.74    | 229.81 |
| 3.22       | 502.47           | 50.24      | 675.73           | 173.3            | 3.900                            | 0.10      | 424.50    | 251.23 |
| 3.67       | 526.49           | 42.46      | 707.52           | 181.0            | 3.908                            | 0.08      | 444.28    | 263.24 |
| 4.29       | 557.04           | 30.74      | 749.80           | 192.8            | 3.890                            | 0.06      | 471.28    | 278.52 |
| 5.19       | 593.05           | 15.68      | 800.87           | 207.8            | 3.854                            | 0.03      | 504.34    | 296.52 |
| 6.24       | 620.97           | 1.44       | 843.03           | 222.1            | 3.796                            | 0.00      | 532.55    | 310.48 |
| 6.98       | 630.91           | -6.05      | 860.47           | 229.6            | 3.748                            | -0.01     | 545.01    | 315.46 |
| 7.91       | 636.59           | -12.16     | 872.25           | 235.7            | 3.701                            | -0.02     | 553.96    | 318.30 |
| 8.63       | 637.35           | -14.45     | 875.30           | 237.9            | 3.679                            | -0.02     | 556.63    | 318.68 |
| 9.41       | 636.53           | -15.69     | 875.72           | 239.2            | 3.661                            | -0.02     | 557.45    | 318.26 |
| 10.22      | 634.74           | -16.23     | 874.48           | 239.7            | 3.648                            | -0.03     | 557.10    | 317.37 |
| 10.73      | 631.92           | -16.35     | 871.77           | 239.9            | 3.635                            | -0.03     | 555.81    | 315.96 |
| 11.23      | 627.29           | -16.00     | 866.79           | 239.5            | 3.619                            | -0.03     | 553.14    | 313.64 |
| 11.72      | 622.97           | -15.41     | 861.89           | 238.9            | 3.608                            | -0.02     | 550.40    | 311.49 |
| 12.21      | 620.81           | -15.16     | 859.47           | 238.7            | 3.601                            | -0.02     | 549.07    | 310.40 |
| 12.94      | 616.22           | -15.59     | 855.31           | 239.1            | 3.577                            | -0.03     | 547.20    | 308.11 |
| 13.74      | 608.97           | -15.51     | 847.98           | 239.0            | 3.548                            | -0.03     | 543.50    | 304.49 |
| 14.26      | 605.05           | -15.40     | 843.95           | 238.9            | 3.533                            | -0.03     | 541.43    | 302.52 |
| 14.80      | 600.89           | -15.24     | 839.63           | 238.7            | 3.517                            | -0.03     | 539.19    | 300.45 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 326.9-327.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-55       |
| Lab ID #         | 2013-465-001-035              | Test No.   | 60          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G330                 | INITIAL ONLY                |
| Load Cell                | G1131                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G041                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1511-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-035                      Specific Gravity (assumed)                      2.62

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-6-1b      | R-6-1b      | R-6-1b      |
| Depth (ft):                    | 327.4-327.9 | 326.6-326.9 | 326.9-327.4 |
| Sample No.:                    | ST-55       | ST-55       | ST-55       |
| Test No.                       | T58         | T59         | T60         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.6        | 21.6        | 21.5        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 23.4        | 23.4        | 23.4        |
| Total Unit Weight (pcf)        | 122.6       | 115.8       | 123.0       |
| Dry Unit Weight (pcf)          | 99.3        | 93.8        | 99.7        |
| Moisture Content (%) (FINAL)   | 25.9        | 25.4        | 26.5        |
| Initial State Void Ratio, e    | 0.647       | 0.744       | 0.641       |
| Void Ratio at Shear, e         | 0.619       | 0.695       | 0.576       |



Tested By: JCM                      Date: 11/29/13                      Input Checked By: KC                      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

## CONSOLIDATED UNDRAINED TRIAXIAL TEST WITH PORE PRESSURE READINGS

ASTM D4767-11

### MOISTURE CONTENT

|                                 | T58     | T59    | T60     |
|---------------------------------|---------|--------|---------|
| Tare Number                     | 576     | 576    | 576     |
| Weight of Tare & Wet Sample (g) | 142.54  | 142.54 | 142.54  |
| Weight of Tare & Dry Sample (g) | 131.51  | 131.51 | 131.51  |
| Weight of Tare (g)              | 84.46   | 84.46  | 84.46   |
| Moisture Content (%) (INITIAL)  | 23.44   | 23.44  | 23.44   |
|                                 |         |        |         |
| Tare Number                     | 14      | 41     | 1614    |
| Weight of Tare & Wet Sample (g) | 1384.4  | 1167.5 | 1257.76 |
| Weight of Tare & Dry Sample (g) | 1141.33 | 972.87 | 1014.4  |
| Weight of Tare (g)              | 203.87  | 206.04 | 94.96   |
| Moisture Content (%) (FINAL)    | 25.93   | 25.38  | 26.47   |

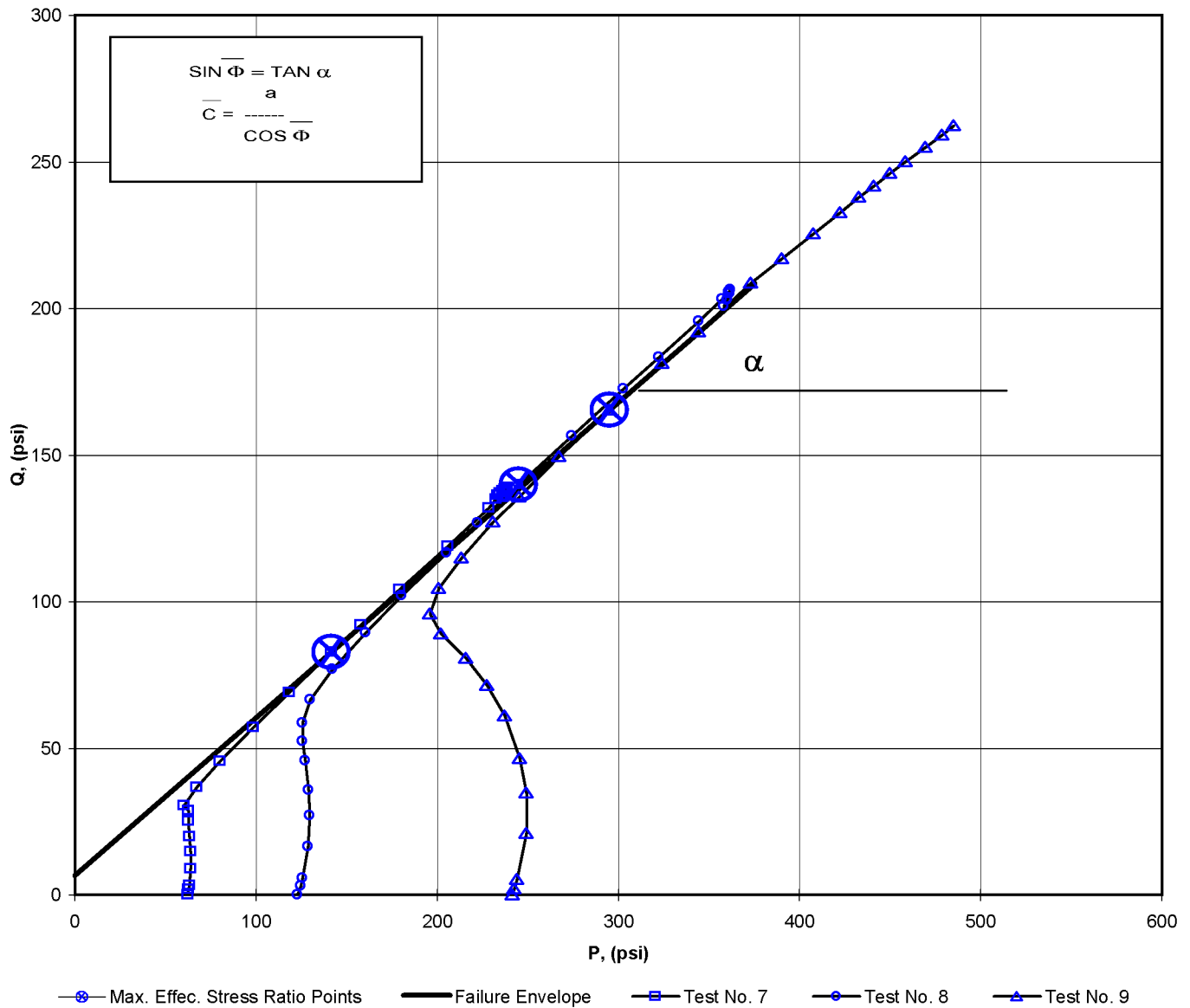
### UNIT WEIGHT

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1641.98             | 1201.53     | 1628.53     |
| Weight of Tube (g)                   | 415.62              | 245.27      | 408.97      |
| Weight of Wet Sample (g)             | 1226.36             | 956.26      | 1219.56     |
| Length 1 (in)                        | 5.829               | 4.853       | 5.8         |
| Length 2 (in)                        | 5.833               | 4.757       | 5.811       |
| Length 3 (in)                        | 5.834               | 4.853       | 5.801       |
| Top Diameter (in)                    | 2.886               | 2.88        | 2.879       |
| Middle Diameter (in)                 | 2.885               | 2.882       | 2.882       |
| Bottom Diameter (in)                 | 2.882               | 2.886       | 2.874       |
| Average Length (in)                  | 5.832               | 4.821       | 5.804       |
| Average Area (in)                    | 6.534               | 6.526       | 6.507       |
| Sample Volume (cm <sup>3</sup> )     | 624.45              | 515.60      | 618.87      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.96                | 1.85        | 1.97        |
| Unit Wet Weight (pcf)                | 122.61              | 115.79      | 123.03      |
| Unit Dry Weight (pcf)                | 99.32               | 93.80       | 99.66       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.59                | 1.50        | 1.60        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>48</b>   |
| Final Burette Reading                | <b>37.4</b>         | <b>36.1</b> | <b>24.1</b> |
| Initial Dial Reading                 | <b>66</b>           | <b>51</b>   | <b>54</b>   |
| Dial Reading After Saturation        | <b>66</b>           | <b>59</b>   | <b>56</b>   |
| Dial Reading After Consolidation     | <b>83</b>           | <b>90</b>   | <b>100</b>  |
| Volume Change during Consolidation   | 10.6                | 11.9        | 23.9        |
| Volume Change during Saturation      | 0.00                | 2.57        | 0.64        |
| Volume at Shear (cm <sup>3</sup> )   | *These 613.85       | 501.14      | 594.33      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 379.18 | 295.67      | 377.08      |
| Volume of Voids (cm <sup>3</sup> )   | are all 234.67      | 205.47      | 217.25      |
| Volume of Water (cm <sup>3</sup> )   | at 257.59           | 196.62      | 261.49      |
| Void Ratio, e                        | shear 0.619         | 0.695       | 0.576       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 355.9-358.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**



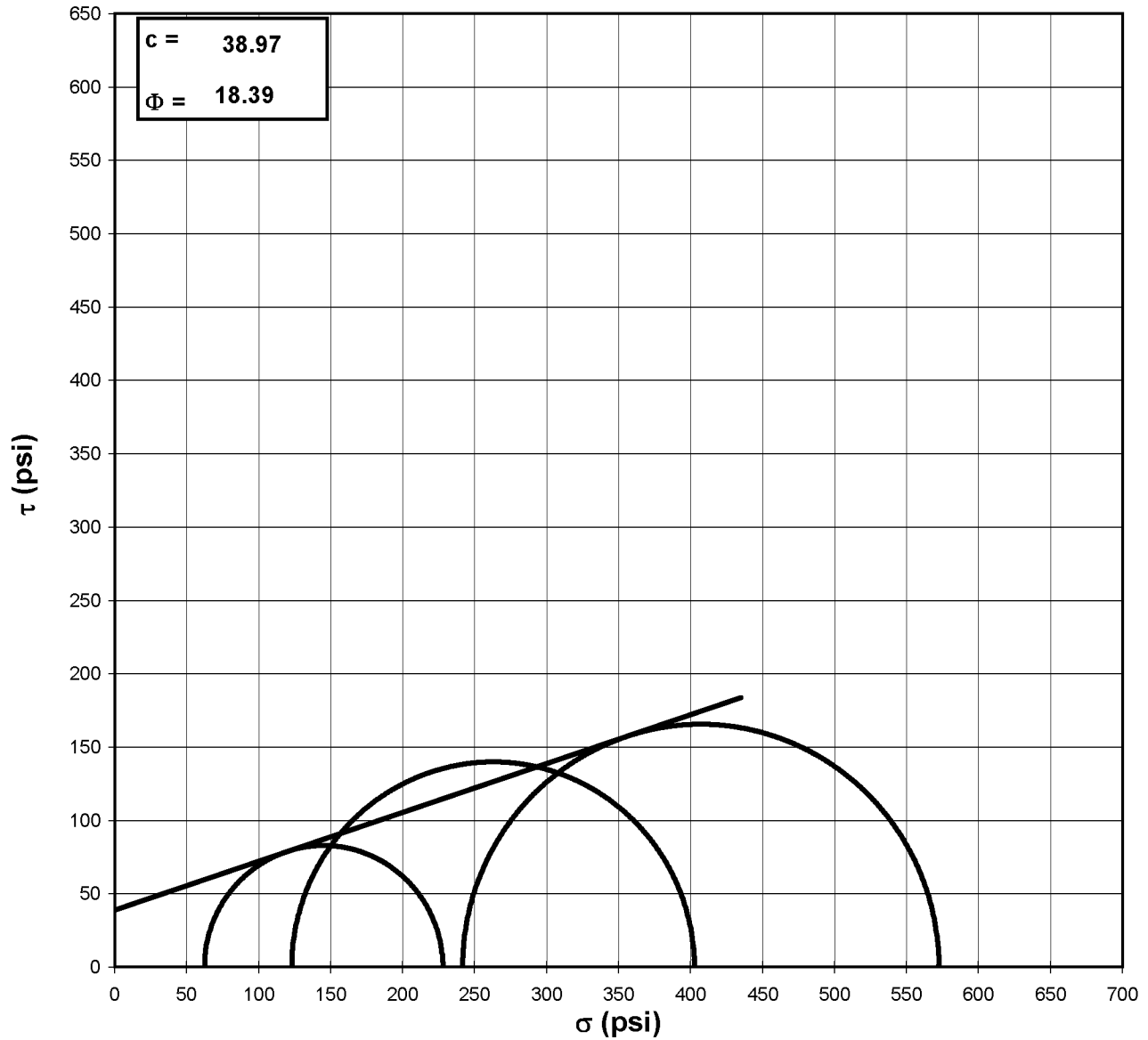
|                            |          |             |                                     |          |              |
|----------------------------|----------|-------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>6.54</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>7.76</b>  |
| <b><math>\alpha</math></b> | <b>=</b> | <b>28.3</b> | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>32.54</b> |

Tested By: JCM      Date: 10/21/13      Approved By: DB      Date: 11/21/13



**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-6-1b      |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 355.9-358.6 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-66       |
| Lab ID:             | 2013-465-001-037                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 10/21/13      Approved By: DB      Date: 11/21/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 358.0-358.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 7 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.983 | Diameter 1: | 2.888 |
| Length 2:    | 5.984 | Diameter 2: | 2.878 |
| Length 3:    | 5.983 | Diameter 3: | 2.876 |
| Avg. Length: | 5.983 | Avg. Diam.: | 2.881 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 93.7 |
| Back Pressure (psi)        | 31.3 |
| Eff. Conf. Pressure (psi)  | 62.4 |
| Pore Pressure Response (%) | 100  |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 24.0 |
| Final Burette Reading (ml)   | 13.7 |
| Final Change (ml)            | 10.3 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 141.75 |
| Q         | = | 82.79  |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 33 |
| Dial Reading After Saturation (mil)    | 46 |
| Dial Reading After Consolidation (mil) | 53 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 15.7         | 0.000               | 31.3                   |
| 39.7         | 0.001               | 32.7                   |
| 56.3         | 0.002               | 33.7                   |
| 130.6        | 0.006               | 38.6                   |
| 203.8        | 0.011               | 44.4                   |
| 269.2        | 0.015               | 50.1                   |
| 339.3        | 0.024               | 56.3                   |
| 385.5        | 0.032               | 59.8                   |
| 408.9        | 0.045               | 64.0                   |
| 489.2        | 0.065               | 63.1                   |
| 608.4        | 0.092               | 59.1                   |
| 762.2        | 0.126               | 52.3                   |
| 922.7        | 0.159               | 44.4                   |
| 1110.5       | 0.199               | 34.7                   |
| 1238.8       | 0.228               | 27.8                   |
| 1409.8       | 0.271               | 18.4                   |
| 1624.8       | 0.327               | 6.7                    |
| 1816.9       | 0.383               | -3.0                   |
| 1873.8       | 0.425               | -3.8                   |
| 1911.9       | 0.486               | -3.5                   |
| 1938.9       | 0.534               | -4.1                   |
| 1967.5       | 0.578               | -4.7                   |
| 1990.9       | 0.621               | -5.3                   |
| 2006.5       | 0.648               | -5.7                   |
| 2018.4       | 0.677               | -6.0                   |
| 2027.2       | 0.708               | -6.3                   |
| 2030.3       | 0.739               | -6.6                   |
| 2037.4       | 0.787               | -6.9                   |
| 2037.7       | 0.831               | -7.2                   |
| 2039.4       | 0.860               | -7.3                   |
| 2040.6       | 0.888               | -7.5                   |

Tested By: JCM Date: 10/21/13 Input Checked By: KC Date: 11/21/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 358.0-358.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |   |
|---|------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 62.4 | <i>Stage No.</i> | 1 |
|   |      | <i>Test No</i>   | 7 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.98  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.52  |
| Initial Sample Volume (in <sup>3</sup> ) | 39.00 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 38.11 |
| Length After Consolidation (in)               | 5.96  |
| Area After Consolidation (in <sup>2</sup> )   | 6.391 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.01       | 3.75             | 1.42       | 64.73            | 61.0             | 1.061                            | 0.38      | 62.86     | 1.87   |
| 0.03       | 6.35             | 2.37       | 66.39            | 60.0             | 1.106                            | 0.37      | 63.21     | 3.18   |
| 0.10       | 17.95            | 7.30       | 73.05            | 55.1             | 1.326                            | 0.41      | 64.08     | 8.98   |
| 0.18       | 29.38            | 13.12      | 78.66            | 49.3             | 1.596                            | 0.45      | 63.97     | 14.69  |
| 0.26       | 39.57            | 18.76      | 83.21            | 43.6             | 1.907                            | 0.47      | 63.43     | 19.78  |
| 0.40       | 50.42            | 24.98      | 87.84            | 37.4             | 2.347                            | 0.50      | 62.63     | 25.21  |
| 0.54       | 57.55            | 28.53      | 91.43            | 33.9             | 2.699                            | 0.50      | 62.65     | 28.78  |
| 0.75       | 61.06            | 32.65      | 90.80            | 29.7             | 3.052                            | 0.53      | 60.28     | 30.53  |
| 1.08       | 73.29            | 31.78      | 103.91           | 30.6             | 3.394                            | 0.43      | 67.26     | 36.64  |
| 1.55       | 91.30            | 27.78      | 125.93           | 34.6             | 3.637                            | 0.30      | 80.28     | 45.65  |
| 2.11       | 114.33           | 20.99      | 155.74           | 41.4             | 3.761                            | 0.18      | 98.58     | 57.16  |
| 2.66       | 138.14           | 13.11      | 187.43           | 49.3             | 3.803                            | 0.09      | 118.36    | 69.07  |
| 3.34       | 165.58           | 3.44       | 224.54           | 59.0             | 3.809                            | 0.02      | 141.75    | 82.79  |
| 3.83       | 184.05           | -3.53      | 249.97           | 65.9             | 3.792                            | -0.02     | 157.95    | 92.02  |
| 4.55       | 208.21           | -12.85     | 283.46           | 75.3             | 3.767                            | -0.06     | 179.35    | 104.10 |
| 5.49       | 237.95           | -24.64     | 324.99           | 87.0             | 3.734                            | -0.10     | 206.02    | 118.97 |
| 6.42       | 263.73           | -34.27     | 360.40           | 96.7             | 3.728                            | -0.13     | 228.54    | 131.86 |
| 7.13       | 270.01           | -35.14     | 367.55           | 97.5             | 3.768                            | -0.13     | 232.54    | 135.00 |
| 8.15       | 272.52           | -34.82     | 369.73           | 97.2             | 3.803                            | -0.13     | 233.48    | 136.26 |
| 8.95       | 273.99           | -35.37     | 371.76           | 97.8             | 3.802                            | -0.13     | 234.76    | 137.00 |
| 9.70       | 275.76           | -36.03     | 374.19           | 98.4             | 3.802                            | -0.13     | 236.31    | 137.88 |
| 10.42      | 276.86           | -36.64     | 375.90           | 99.0             | 3.795                            | -0.13     | 237.47    | 138.43 |
| 10.87      | 277.63           | -37.01     | 377.05           | 99.4             | 3.793                            | -0.13     | 238.23    | 138.82 |
| 11.36      | 277.76           | -37.33     | 377.48           | 99.7             | 3.785                            | -0.13     | 238.61    | 138.88 |
| 11.87      | 277.36           | -37.63     | 377.39           | 100.0            | 3.773                            | -0.14     | 238.71    | 138.68 |
| 12.40      | 276.13           | -37.90     | 376.43           | 100.3            | 3.753                            | -0.14     | 238.37    | 138.06 |
| 13.19      | 274.59           | -38.23     | 375.22           | 100.6            | 3.729                            | -0.14     | 237.92    | 137.29 |
| 13.94      | 272.28           | -38.50     | 373.18           | 100.9            | 3.699                            | -0.14     | 237.04    | 136.14 |
| 14.41      | 270.99           | -38.64     | 372.03           | 101.0            | 3.682                            | -0.14     | 236.53    | 135.50 |
| 14.89      | 269.66           | -38.77     | 370.83           | 101.2            | 3.665                            | -0.14     | 236.00    | 134.83 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 358.0-358.5 |
| Project No.      | 2013-465-001                  | Sample No. | ST-66       |
| Lab ID #         | 2013-465-001-037              | Test No.   | 7           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G314                 | INITIAL ONLY                |
| Load Cell                | G1437                | 1/7/14                      |
| Cell Pressure Transducer | G1438                | 1/7/14                      |
| Pore Pressure Transducer | G1439                | 1/7/14                      |
| Extensometer             | G1440                | 1/7/14                      |
| Load Frame               | G1434                | 1/7/14                      |
| Dial Indicator           | G1294                | 3/4/14                      |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | G550                 | 7/19/14                     |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-976

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 357.5-358.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 8 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.900 | Diameter 1: | 2.888 |
| Length 2:   | 5.910 | Diameter 2: | 2.887 |
| Length 3:   | 5.909 | Diameter 3: | 2.881 |
| Avg. Length | 5.906 | Avg. Diam.: | 2.885 |

**PRESSURES (psi)**

|                           |       |
|---------------------------|-------|
| Cell Pressure (psi)       | 154.7 |
| Back Pressure (psi)       | 31.6  |
| Eff. Conf. Pressure (psi) | 123.1 |
| Pore Pressure             |       |
| Response (%)              | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 30.9 |
| Final Change (ml)            | 17.1 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 245.13 |
| Q         | = | 139.79 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 48  |
| Dial Reading After Saturation (mil)    | 120 |
| Dial Reading After Consolidation (mil) | 150 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 36.4         | 0.000               | 31.6                   |
| 74.5         | 0.001               | 33.0                   |
| 107.1        | 0.002               | 34.5                   |
| 242.7        | 0.006               | 42.5                   |
| 373.8        | 0.011               | 51.9                   |
| 483.1        | 0.016               | 61.2                   |
| 607.9        | 0.023               | 73.1                   |
| 692.8        | 0.031               | 81.3                   |
| 771.4        | 0.042               | 87.5                   |
| 874.1        | 0.062               | 91.1                   |
| 1010.1       | 0.091               | 89.4                   |
| 1176.3       | 0.126               | 83.4                   |
| 1344.4       | 0.161               | 76.2                   |
| 1542.4       | 0.202               | 66.1                   |
| 1682.0       | 0.231               | 59.1                   |
| 1863.8       | 0.271               | 49.4                   |
| 2103.1       | 0.325               | 36.7                   |
| 2338.2       | 0.383               | 24.2                   |
| 2503.6       | 0.427               | 15.7                   |
| 2697.5       | 0.485               | 5.9                    |
| 2822.3       | 0.528               | 0.5                    |
| 2878.4       | 0.571               | -0.8                   |
| 2915.2       | 0.616               | -0.6                   |
| 2928.9       | 0.646               | -0.9                   |
| 2928.5       | 0.676               | -1.2                   |
| 2947.9       | 0.706               | -1.6                   |
| 2963.6       | 0.735               | -1.9                   |
| 2961.9       | 0.779               | -2.3                   |
| 2982.1       | 0.823               | -2.6                   |
| 2968.4       | 0.853               | -2.8                   |
| 2964.6       | 0.882               | -2.9                   |

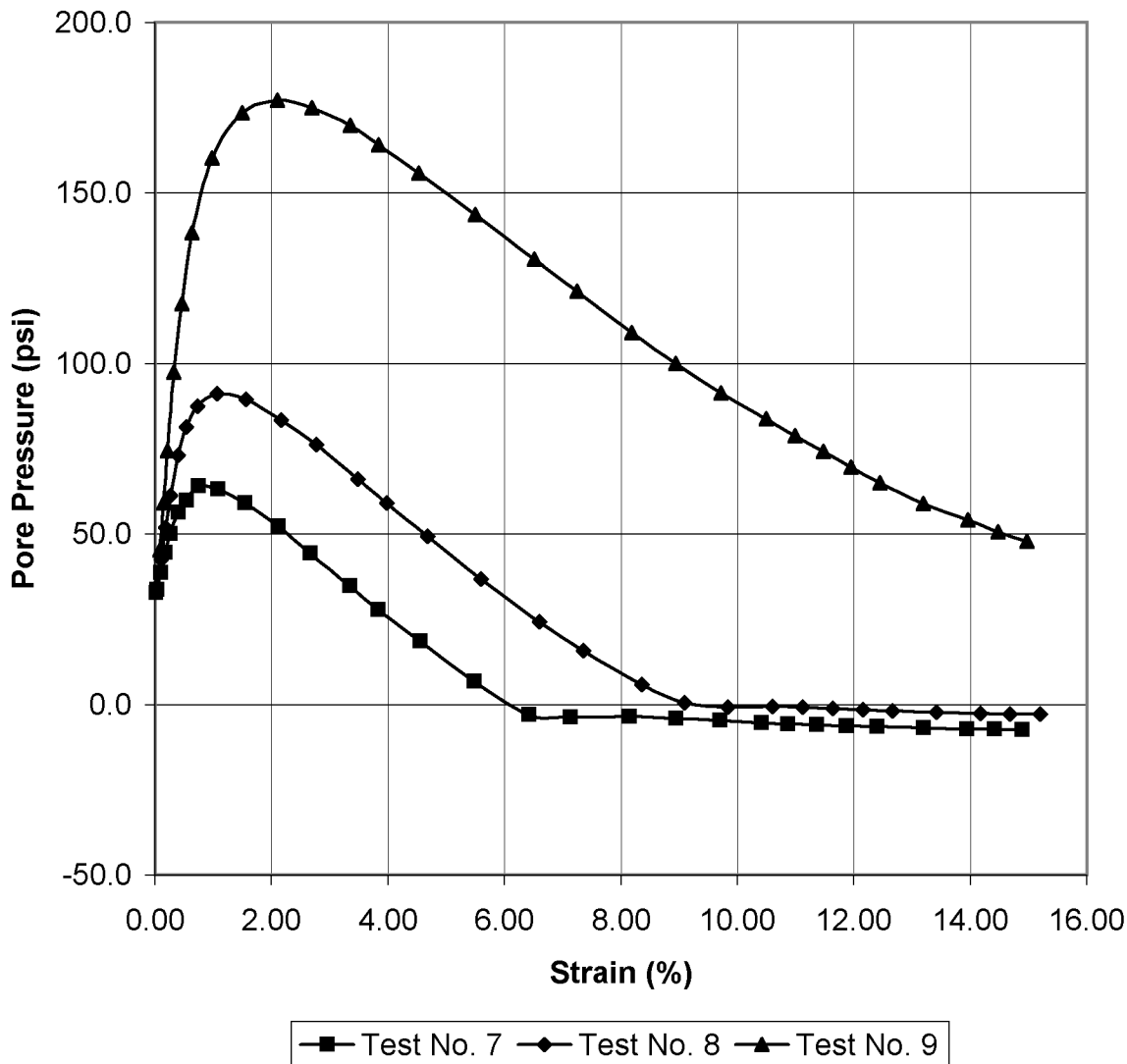
Tested By: JCM      Date: 10/21/13      Input Checked By: KC      Date: 11/21/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 355.9-358.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 357.5-358.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |   |
|---|-------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 123.1 | <i>Stage No.</i> | 1 |
|   |       | <i>Test No</i>   | 8 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.91  |
| Initial Sample Diameter (in)             | 2.89  |
| Initial Sample Area (in <sup>2</sup> )   | 6.54  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.62 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.16 |
| Length After Consolidation (in)               | 5.80  |
| Area After Consolidation (in <sup>2</sup> )   | 6.230 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.01       | 6.12             | 1.45       | 127.77           | 121.7            | 1.050                            | 0.24      | 124.71    | 3.06   |
| 0.03       | 11.35            | 2.94       | 131.51           | 120.2            | 1.094                            | 0.26      | 125.83    | 5.67   |
| 0.11       | 33.08            | 10.86      | 145.32           | 112.2            | 1.295                            | 0.33      | 128.78    | 16.54  |
| 0.18       | 54.05            | 20.32      | 156.83           | 102.8            | 1.526                            | 0.38      | 129.81    | 27.03  |
| 0.27       | 71.51            | 29.61      | 165.00           | 93.5             | 1.765                            | 0.41      | 129.24    | 35.75  |
| 0.40       | 91.36            | 41.46      | 172.99           | 81.6             | 2.119                            | 0.45      | 127.32    | 45.68  |
| 0.54       | 104.79           | 49.69      | 178.20           | 73.4             | 2.427                            | 0.47      | 125.81    | 52.39  |
| 0.73       | 117.12           | 55.93      | 184.29           | 67.2             | 2.743                            | 0.48      | 125.73    | 58.56  |
| 1.07       | 133.03           | 59.49      | 196.63           | 63.6             | 3.091                            | 0.45      | 130.12    | 66.51  |
| 1.56       | 153.85           | 57.78      | 219.17           | 65.3             | 3.355                            | 0.38      | 142.24    | 76.93  |
| 2.16       | 179.00           | 51.83      | 250.28           | 71.3             | 3.511                            | 0.29      | 160.78    | 89.50  |
| 2.77       | 204.12           | 44.57      | 282.65           | 78.5             | 3.599                            | 0.22      | 180.59    | 102.06 |
| 3.49       | 233.29           | 34.45      | 321.94           | 88.6             | 3.632                            | 0.15      | 205.29    | 116.64 |
| 3.98       | 253.60           | 27.51      | 349.19           | 95.6             | 3.653                            | 0.11      | 222.39    | 126.80 |
| 4.68       | 279.59           | 17.76      | 384.92           | 105.3            | 3.654                            | 0.06      | 245.13    | 139.79 |
| 5.60       | 313.16           | 5.09       | 431.17           | 118.0            | 3.654                            | 0.02      | 274.59    | 156.58 |
| 6.60       | 345.07           | -7.35      | 475.52           | 130.5            | 3.645                            | -0.02     | 302.99    | 172.53 |
| 7.36       | 366.85           | -15.91     | 505.86           | 139.0            | 3.639                            | -0.04     | 322.44    | 183.43 |
| 8.36       | 391.41           | -25.70     | 540.21           | 148.8            | 3.630                            | -0.07     | 344.51    | 195.70 |
| 9.10       | 406.48           | -31.14     | 560.72           | 154.2            | 3.635                            | -0.08     | 357.48    | 203.24 |
| 9.84       | 411.24           | -32.38     | 566.73           | 155.5            | 3.645                            | -0.08     | 361.11    | 205.62 |
| 10.61      | 413.03           | -32.24     | 568.37           | 155.3            | 3.659                            | -0.08     | 361.86    | 206.52 |
| 11.12      | 412.63           | -32.46     | 568.19           | 155.6            | 3.653                            | -0.08     | 361.87    | 206.31 |
| 11.64      | 410.16           | -32.83     | 566.09           | 155.9            | 3.630                            | -0.08     | 361.01    | 205.08 |
| 12.16      | 410.51           | -33.16     | 566.77           | 156.3            | 3.627                            | -0.08     | 361.52    | 205.25 |
| 12.67      | 410.32           | -33.52     | 566.94           | 156.6            | 3.620                            | -0.08     | 361.78    | 205.16 |
| 13.42      | 406.53           | -33.92     | 563.55           | 157.0            | 3.589                            | -0.08     | 360.29    | 203.26 |
| 14.18      | 405.77           | -34.24     | 563.12           | 157.3            | 3.579                            | -0.08     | 360.23    | 202.89 |
| 14.69      | 401.47           | -34.42     | 558.99           | 157.5            | 3.549                            | -0.09     | 358.25    | 200.74 |
| 15.20      | 398.54           | -34.52     | 556.16           | 157.6            | 3.528                            | -0.09     | 356.89    | 199.27 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 357.5-358.0 |
| Project No.      | 2013-465-001                  | Sample No. | ST-66       |
| Lab ID #         | 2013-465-001-037              | Test No.   | 8           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G323                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G150                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Oven                     | G1387                | 8/16/14                     |
| Flow Pump                | G1509-1              | 11/7/14                     |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 357.0-357.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 9 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.949 | Diameter 1: | 2.882 |
| Length 2:    | 5.943 | Diameter 2: | 2.881 |
| Length 3:    | 5.957 | Diameter 3: | 2.883 |
| Avg. Length: | 5.950 | Avg. Diam.: | 2.882 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 273.6 |
| Back Pressure (psi)        | 31.9  |
| Eff. Conf. Pressure (psi)  | 241.7 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 21.8 |
| Final Change (ml)            | 26.2 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 295.41 |
| Q         | = | 165.45 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 64  |
| Dial Reading After Saturation (mil)    | 75  |
| Dial Reading After Consolidation (mil) | 224 |

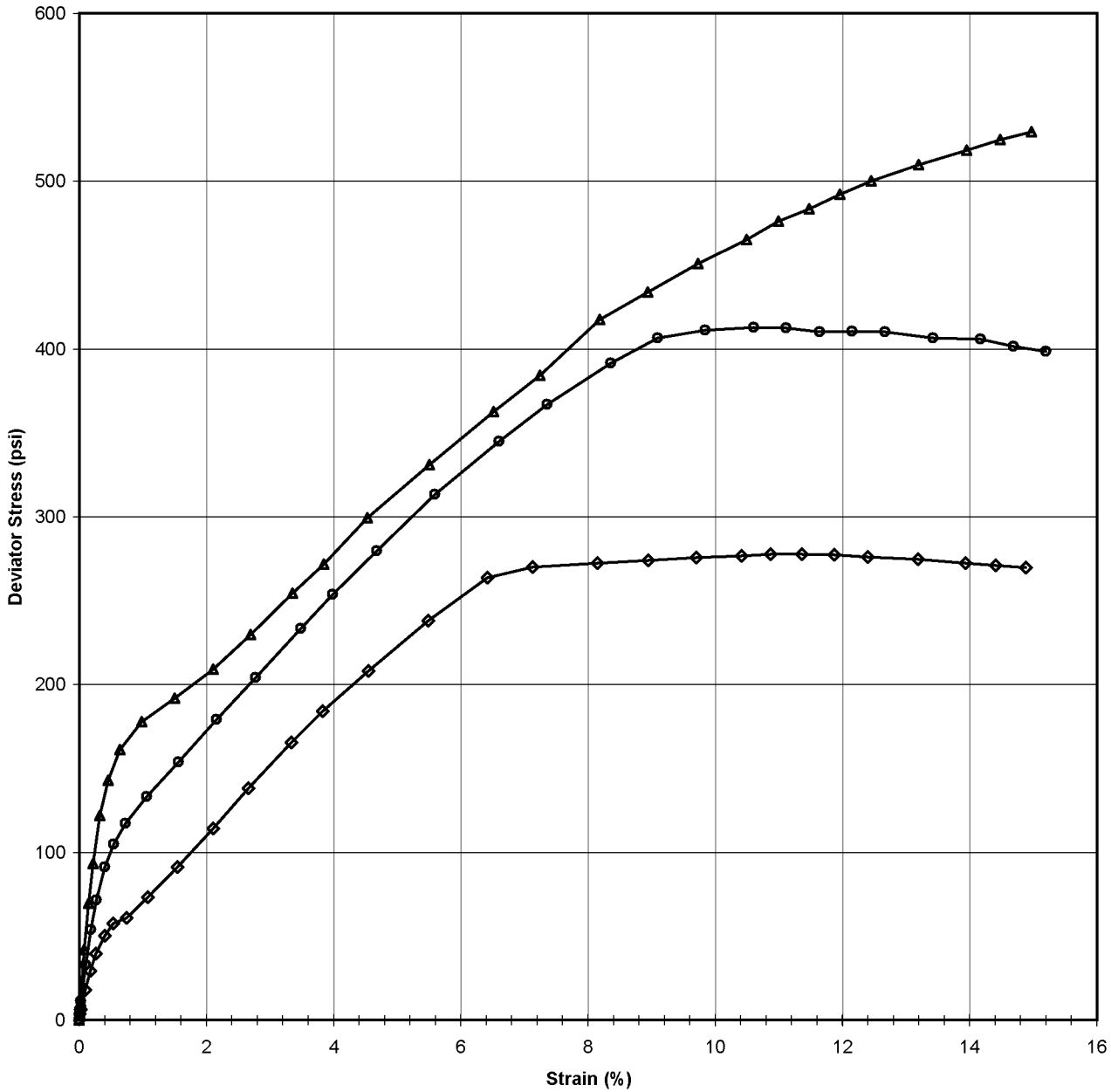
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 48.3         | 0.000               | 31.9                   |
| 74.8         | 0.001               | 33.0                   |
| 117.0        | 0.002               | 34.8                   |
| 317.1        | 0.005               | 45.2                   |
| 493.6        | 0.009               | 59.1                   |
| 644.7        | 0.013               | 74.3                   |
| 830.5        | 0.019               | 97.3                   |
| 966.2        | 0.027               | 117.5                  |
| 1085.6       | 0.037               | 138.2                  |
| 1196.7       | 0.057               | 160.2                  |
| 1292.4       | 0.087               | 173.5                  |
| 1413.4       | 0.122               | 177.2                  |
| 1557.7       | 0.156               | 175.0                  |
| 1730.3       | 0.194               | 169.8                  |
| 1853.6       | 0.223               | 164.1                  |
| 2051.2       | 0.263               | 155.9                  |
| 2286.1       | 0.319               | 143.6                  |
| 2526.8       | 0.377               | 130.5                  |
| 2695.2       | 0.420               | 121.2                  |
| 2953.8       | 0.474               | 109.0                  |
| 3093.1       | 0.518               | 100.0                  |
| 3240.1       | 0.563               | 91.3                   |
| 3370.1       | 0.608               | 83.7                   |
| 3465.8       | 0.636               | 78.8                   |
| 3538.7       | 0.664               | 74.1                   |
| 3621.3       | 0.692               | 69.6                   |
| 3699.5       | 0.721               | 65.0                   |
| 3801.9       | 0.764               | 58.9                   |
| 3899.3       | 0.808               | 54.0                   |
| 3968.2       | 0.838               | 50.7                   |
| 4026.7       | 0.867               | 47.8                   |

Tested By: JCM Date: 10/21/13 Input Checked By: KC Date: 11/21/13



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-6-1b      |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 355.9-358.6 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-66       |
| Lab ID:             | 2013-465-001-037                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 7
● Test No. 8
▲ Test No. 9

E50 Test No. 7 6234.777
E50 Test No. 8 11394.87
E50 Test No. 9 22811.78

Tested By: JCM      Date: 10/21/13      Approved By: DB      Date: 11/21/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 357.0-357.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-66       |
| Lab ID:           | 2013-465-001-037              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |   |
|---|-------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 241.7 | <i>Stage No.</i> | 1 |
|   |       | <i>Test No</i>   | 9 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.95  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.52  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.81 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.00 |
| Length After Consolidation (in)               | 5.79  |
| Area After Consolidation (in <sup>2</sup> )   | 6.390 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.01       | 4.15             | 1.09       | 244.76           | 240.6            | 1.017                            | 0.26      | 242.69    | 2.08   |
| 0.03       | 10.74            | 2.88       | 249.56           | 238.8            | 1.045                            | 0.27      | 244.19    | 5.37   |
| 0.08       | 42.03            | 13.31      | 270.42           | 228.4            | 1.184                            | 0.32      | 249.41    | 21.01  |
| 0.15       | 69.58            | 27.17      | 284.12           | 214.5            | 1.324                            | 0.39      | 249.32    | 34.79  |
| 0.22       | 93.13            | 42.43      | 292.40           | 199.3            | 1.467                            | 0.46      | 245.84    | 46.56  |
| 0.33       | 122.01           | 65.43      | 298.28           | 176.3            | 1.692                            | 0.54      | 237.28    | 61.00  |
| 0.46       | 142.98           | 85.57      | 299.11           | 156.1            | 1.916                            | 0.60      | 227.62    | 71.49  |
| 0.64       | 161.29           | 106.31     | 296.67           | 135.4            | 2.191                            | 0.66      | 216.03    | 80.64  |
| 0.99       | 177.94           | 128.31     | 291.33           | 113.4            | 2.569                            | 0.72      | 202.36    | 88.97  |
| 1.50       | 191.76           | 141.57     | 291.89           | 100.1            | 2.915                            | 0.74      | 196.01    | 95.88  |
| 2.11       | 209.12           | 145.34     | 305.47           | 96.4             | 3.170                            | 0.70      | 200.91    | 104.56 |
| 2.69       | 229.83           | 143.13     | 328.40           | 98.6             | 3.332                            | 0.62      | 213.49    | 114.92 |
| 3.36       | 254.37           | 137.87     | 358.20           | 103.8            | 3.450                            | 0.54      | 231.01    | 127.18 |
| 3.84       | 271.64           | 132.23     | 381.10           | 109.5            | 3.481                            | 0.49      | 245.29    | 135.82 |
| 4.53       | 299.21           | 123.95     | 416.96           | 117.7            | 3.541                            | 0.41      | 267.35    | 149.61 |
| 5.50       | 330.91           | 111.75     | 460.86           | 130.0            | 3.546                            | 0.34      | 295.41    | 165.45 |
| 6.51       | 362.59           | 98.65      | 505.64           | 143.1            | 3.535                            | 0.27      | 324.35    | 181.30 |
| 7.25       | 384.18           | 89.26      | 536.62           | 152.4            | 3.520                            | 0.23      | 344.53    | 192.09 |
| 8.18       | 417.46           | 77.12      | 582.03           | 164.6            | 3.537                            | 0.18      | 373.31    | 208.73 |
| 8.94       | 433.87           | 68.09      | 607.48           | 173.6            | 3.499                            | 0.16      | 390.54    | 216.94 |
| 9.73       | 450.89           | 59.41      | 633.18           | 182.3            | 3.473                            | 0.13      | 407.74    | 225.44 |
| 10.50      | 465.26           | 51.84      | 655.11           | 189.9            | 3.451                            | 0.11      | 422.49    | 232.63 |
| 10.99      | 476.01           | 46.90      | 670.82           | 194.8            | 3.444                            | 0.10      | 432.81    | 238.01 |
| 11.48      | 483.50           | 42.23      | 682.98           | 199.5            | 3.424                            | 0.09      | 441.22    | 241.75 |
| 11.96      | 492.26           | 37.67      | 696.29           | 204.0            | 3.413                            | 0.08      | 450.16    | 246.13 |
| 12.45      | 500.23           | 33.08      | 708.86           | 208.6            | 3.398                            | 0.07      | 458.74    | 250.12 |
| 13.20      | 509.84           | 27.05      | 724.49           | 214.7            | 3.375                            | 0.05      | 469.57    | 254.92 |
| 13.96      | 518.51           | 22.12      | 738.09           | 219.6            | 3.361                            | 0.04      | 478.84    | 259.26 |
| 14.48      | 524.60           | 18.75      | 747.55           | 222.9            | 3.353                            | 0.04      | 485.25    | 262.30 |
| 14.97      | 529.34           | 15.86      | 755.18           | 225.8            | 3.344                            | 0.03      | 490.51    | 264.67 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 357.0-357.5 |
| Project No.      | 2013-465-001                  | Sample No. | ST-66       |
| Lab ID #         | 2013-465-001-037              | Test No.   | 9           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G334                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G721                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Oven                     | G1387                | 8/16/14                     |
| Flow Pump                | G1511-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-037                      Specific Gravity (measured)                      2.62

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-6-1b      | R-6-1b      | R-6-1b      |
| Depth (ft):                    | 358.0-358.5 | 357.5-358.0 | 357.0-357.5 |
| Sample No.:                    | ST-66       | ST-66       | ST-66       |
| Test No.                       | T7          | T8          | T9          |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 31.3        | 31.6        | 31.9        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 26.3        | 26.3        | 26.3        |
| Total Unit Weight (pcf)        | 121.5       | 121.3       | 119.4       |
| Dry Unit Weight (pcf)          | 96.1        | 96.0        | 94.5        |
| Moisture Content (%) (FINAL)   | 26.9        | 25.9        | 26.5        |
| Initial State Void Ratio, e    | 0.701       | 0.704       | 0.730       |
| Void Ratio at Shear, e         | 0.663       | 0.596       | 0.650       |



Tested By: JCM                      Date: 10/21/13                      Input Checked By: KC                      Date: 11/21/13

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DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T7     | T8      | T9     |
|---------------------------------|--------|---------|--------|
| Tare Number                     | 1122   | 1122    | 1122   |
| Weight of Tare & Wet Sample (g) | 163.46 | 163.46  | 163.46 |
| Weight of Tare & Dry Sample (g) | 146.93 | 146.93  | 146.93 |
| Weight of Tare (g)              | 84.17  | 84.17   | 84.17  |
| Moisture Content (%) (INITIAL)  | 26.34  | 26.34   | 26.34  |
| Tare Number                     | 1438   | 1444    | 46     |
| Weight of Tare & Wet Sample (g) | 1371.7 | 1338.89 | 793.61 |
| Weight of Tare & Dry Sample (g) | 1111.4 | 1093.48 | 670.36 |
| Weight of Tare (g)              | 144.62 | 145.83  | 204.89 |
| Moisture Content (%) (FINAL)    | 26.92  | 25.90   | 26.48  |

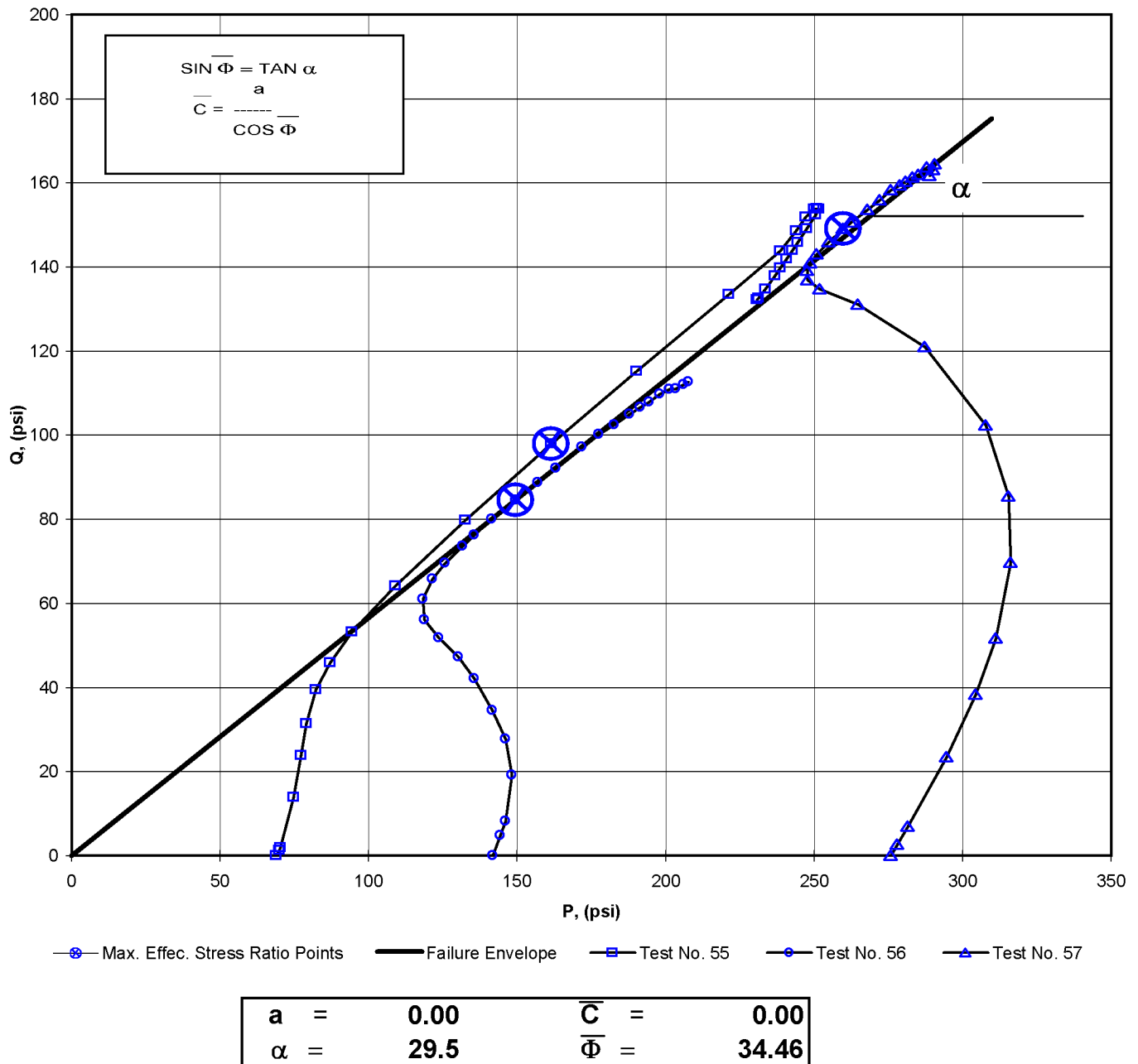
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1665.81             | 1646.82     | 1637.49     |
| Weight of Tube (g)                   | 422.56              | 417.51      | 420.9       |
| Weight of Wet Sample (g)             | 1243.25             | 1229.31     | 1216.59     |
| Length 1 (in)                        | 5.983               | 5.9         | 5.949       |
| Length 2 (in)                        | 5.984               | 5.91        | 5.943       |
| Length 3 (in)                        | 5.983               | 5.909       | 5.957       |
| Top Diameter (in)                    | 2.888               | 2.888       | 2.882       |
| Middle Diameter (in)                 | 2.878               | 2.887       | 2.881       |
| Bottom Diameter (in)                 | 2.876               | 2.881       | 2.883       |
| Average Length (in)                  | 5.983333            | 5.906333    | 5.949667    |
| Average Area (in)                    | 6.517               | 6.539       | 6.523       |
| Sample Volume (cm <sup>3</sup> )     | 639.03              | 632.85      | 636.02      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.95                | 1.94        | 1.91        |
| Unit Wet Weight (pcf)                | 121.46              | 121.27      | 119.42      |
| Unit Dry Weight (pcf)                | 96.14               | 95.99       | 94.52       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.54                | 1.54        | 1.51        |
| Initial Burette Reading              | <b>24</b>           | <b>48</b>   | <b>48</b>   |
| Final Burette Reading                | <b>13.7</b>         | <b>30.9</b> | <b>21.8</b> |
| Initial Dial Reading                 | <b>33</b>           | <b>48</b>   | <b>64</b>   |
| Dial Reading After Saturation        | <b>46</b>           | <b>120</b>  | <b>75</b>   |
| Dial Reading After Consolidation     | <b>53</b>           | <b>150</b>  | <b>224</b>  |
| Volume Change during Consolidation   | 10.3                | 17.1        | 26.2        |
| Volume Change during Saturation      | 4.17                | 23.14       | 3.53        |
| Volume at Shear (cm <sup>3</sup> )   | *These 624.56       | 592.61      | 606.29      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 375.60 | 371.39      | 367.54      |
| Volume of Voids (cm <sup>3</sup> )   | are all 248.97      | 221.22      | 238.75      |
| Volume of Water (cm <sup>3</sup> )   | at 264.95           | 251.98      | 254.98      |
| Void Ratio, e                        | shear 0.663         | 0.596       | 0.650       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 401.0-404.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

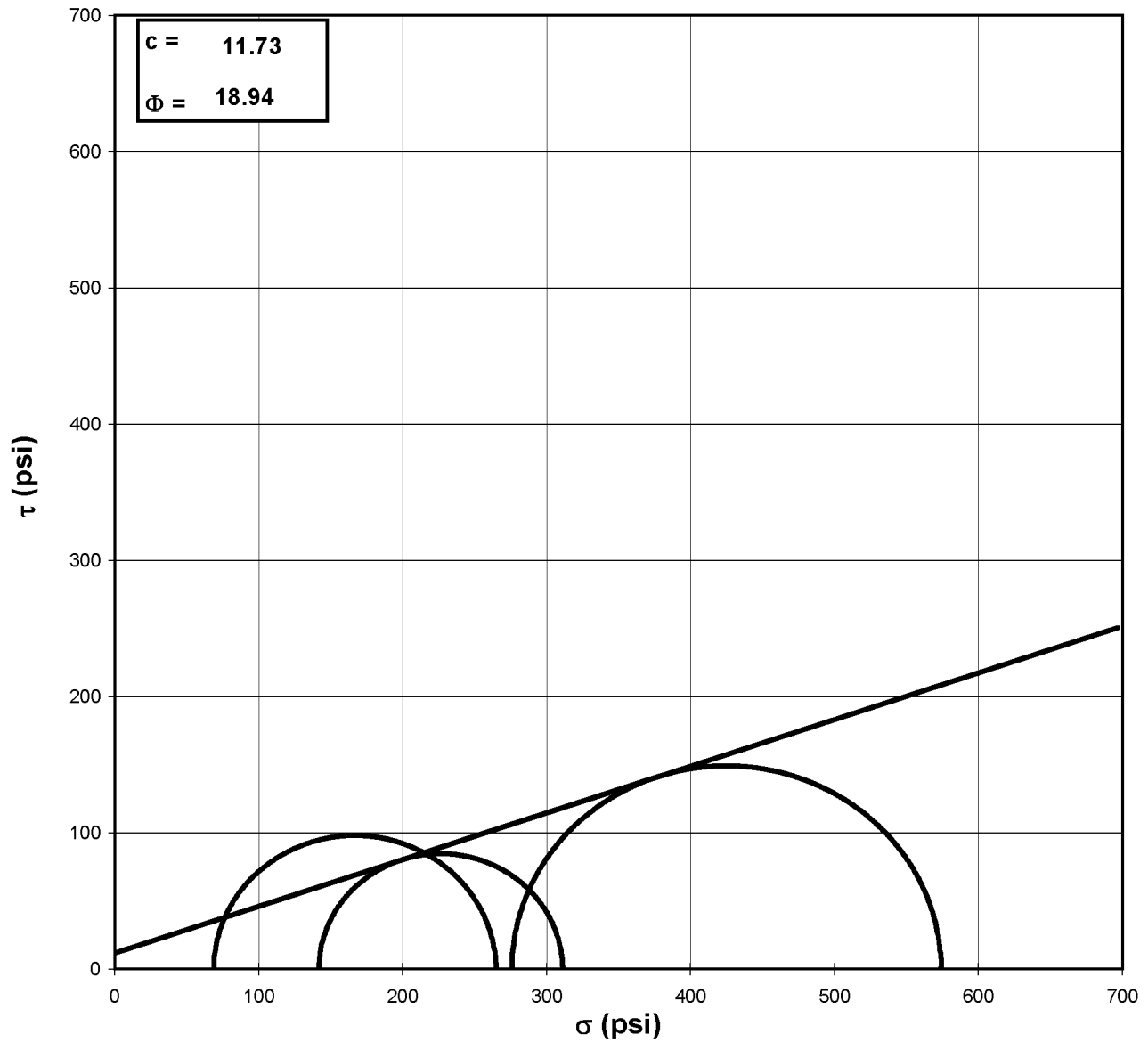
**Consolidated Undrained Triaxial Test with Pore Pressure**



Tested By: JCM      Date: 11/26/13      Approved By: DB      Date: 12/5/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-6-1b      |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 401.0-404.6 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-82       |
| Lab ID:             | 2013-465-001-040                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/26/13      Approved By: DB      Date: 12/5/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 403.5-404.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 55 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.947 | Diameter 1: | 2.880 |
| Length 2:    | 5.948 | Diameter 2: | 2.892 |
| Length 3:    | 5.933 | Diameter 3: | 2.882 |
| Avg. Length: | 5.943 | Avg. Diam.: | 2.885 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 90.5 |
| Back Pressure (psi)        | 21.6 |
| Eff. Conf. Pressure (psi)  | 68.9 |
| Pore Pressure Response (%) | 100  |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 36.0 |
| Final Change (ml)            | 12.0 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 161.53 |
| Q         | = | 97.95  |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 64 |
| Dial Reading After Saturation (mil)    | 67 |
| Dial Reading After Consolidation (mil) | 81 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 17.2         | 0.000               | 21.6                   |
| 33.7         | 0.001               | 21.9                   |
| 42.2         | 0.003               | 22.2                   |
| 194.7        | 0.006               | 29.5                   |
| 323.9        | 0.010               | 37.1                   |
| 420.6        | 0.015               | 42.8                   |
| 525.1        | 0.023               | 47.6                   |
| 609.4        | 0.031               | 49.4                   |
| 704.4        | 0.043               | 49.2                   |
| 850.5        | 0.063               | 45.7                   |
| 1058.3       | 0.092               | 37.8                   |
| 1302.2       | 0.125               | 26.9                   |
| 1536.9       | 0.158               | 15.5                   |
| 1789.8       | 0.197               | 2.7                    |
| 1936.6       | 0.226               | -4.4                   |
| 2015.4       | 0.268               | -5.0                   |
| 2080.0       | 0.324               | -4.9                   |
| 2128.2       | 0.384               | -5.9                   |
| 2147.3       | 0.428               | -6.6                   |
| 2168.7       | 0.487               | -7.3                   |
| 2167.6       | 0.533               | -7.8                   |
| 2138.7       | 0.578               | -8.0                   |
| 2109.9       | 0.622               | -8.2                   |
| 2093.9       | 0.653               | -8.3                   |
| 2076.8       | 0.683               | -8.4                   |
| 2057.2       | 0.713               | -8.4                   |
| 2042.6       | 0.744               | -8.4                   |
| 2013.6       | 0.790               | -8.3                   |
| 1999.5       | 0.836               | -8.2                   |
| 2005.8       | 0.866               | -8.1                   |
| 2013.9       | 0.895               | -8.0                   |

|            |     |       |          |                   |    |       |         |
|------------|-----|-------|----------|-------------------|----|-------|---------|
| Tested By: | JCM | Date: | 11/26/13 | Input Checked By: | KC | Date: | 12/5/13 |
|------------|-----|-------|----------|-------------------|----|-------|---------|

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 403.5-404.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 68.9 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 55 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.94  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.54  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.84 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 38.05 |
| Length After Consolidation (in)               | 5.93  |
| Area After Consolidation (in <sup>2</sup> )   | 6.421 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 2.58             | 0.26       | 71.21            | 68.6             | 1.038                            | 0.10      | 69.92     | 1.29   |
| 0.04       | 3.89             | 0.57       | 72.22            | 68.3             | 1.057                            | 0.15      | 70.27     | 1.95   |
| 0.10       | 27.62            | 7.93       | 88.59            | 61.0             | 1.453                            | 0.29      | 74.78     | 13.81  |
| 0.17       | 47.68            | 15.46      | 101.12           | 53.4             | 1.892                            | 0.32      | 77.28     | 23.84  |
| 0.25       | 62.66            | 21.15      | 110.41           | 47.7             | 2.312                            | 0.34      | 79.08     | 31.33  |
| 0.39       | 78.79            | 25.96      | 121.73           | 42.9             | 2.835                            | 0.33      | 82.33     | 39.40  |
| 0.53       | 91.75            | 27.75      | 132.90           | 41.1             | 3.230                            | 0.30      | 87.02     | 45.87  |
| 0.72       | 106.25           | 27.65      | 147.51           | 41.3             | 3.576                            | 0.26      | 94.38     | 53.13  |
| 1.06       | 128.39           | 24.13      | 173.17           | 44.8             | 3.868                            | 0.19      | 108.97    | 64.20  |
| 1.55       | 159.64           | 16.20      | 212.35           | 52.7             | 4.029                            | 0.10      | 132.53    | 79.82  |
| 2.11       | 195.90           | 5.32       | 259.48           | 63.6             | 4.081                            | 0.03      | 161.53    | 97.95  |
| 2.66       | 230.38           | -6.15      | 305.42           | 75.0             | 4.070                            | -0.03     | 190.23    | 115.19 |
| 3.32       | 266.90           | -18.92     | 354.72           | 87.8             | 4.039                            | -0.07     | 221.27    | 133.45 |
| 3.82       | 287.52           | -26.02     | 382.44           | 94.9             | 4.029                            | -0.09     | 238.68    | 143.76 |
| 4.52       | 297.12           | -26.60     | 392.62           | 95.5             | 4.111                            | -0.09     | 244.06    | 148.56 |
| 5.47       | 303.69           | -26.54     | 399.13           | 95.4             | 4.182                            | -0.09     | 247.28    | 151.85 |
| 6.48       | 307.47           | -27.47     | 403.84           | 96.4             | 4.191                            | -0.09     | 250.10    | 153.73 |
| 7.22       | 307.82           | -28.19     | 404.90           | 97.1             | 4.171                            | -0.09     | 251.00    | 153.91 |
| 8.22       | 307.54           | -28.93     | 405.37           | 97.8             | 4.144                            | -0.09     | 251.60    | 153.77 |
| 8.99       | 304.81           | -29.36     | 403.07           | 98.3             | 4.102                            | -0.10     | 250.66    | 152.41 |
| 9.76       | 298.17           | -29.64     | 396.71           | 98.5             | 4.026                            | -0.10     | 247.63    | 149.08 |
| 10.50      | 291.69           | -29.84     | 390.43           | 98.7             | 3.954                            | -0.10     | 244.58    | 145.84 |
| 11.01      | 287.81           | -29.94     | 386.65           | 98.8             | 3.912                            | -0.10     | 242.74    | 143.90 |
| 11.52      | 283.80           | -29.98     | 382.68           | 98.9             | 3.870                            | -0.11     | 240.78    | 141.90 |
| 12.03      | 279.50           | -30.02     | 378.42           | 98.9             | 3.826                            | -0.11     | 238.67    | 139.75 |
| 12.55      | 275.86           | -29.99     | 374.75           | 98.9             | 3.790                            | -0.11     | 236.82    | 137.93 |
| 13.33      | 269.49           | -29.92     | 368.30           | 98.8             | 3.727                            | -0.11     | 233.56    | 134.74 |
| 14.10      | 265.19           | -29.80     | 363.89           | 98.7             | 3.687                            | -0.11     | 231.29    | 132.59 |
| 14.61      | 264.47           | -29.73     | 363.09           | 98.6             | 3.681                            | -0.11     | 230.86    | 132.23 |
| 15.10      | 264.02           | -29.65     | 362.57           | 98.5             | 3.679                            | -0.11     | 230.56    | 132.01 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 403.5-404.0 |
| Project No.      | 2013-465-001                  | Sample No. | ST-82       |
| Lab ID #         | 2013-465-001-040              | Test No.   | 55          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G334                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G546                 | 2/13/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-991

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 404.0-404.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 56 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.929 | Diameter 1: | 2.872 |
| Length 2:   | 5.904 | Diameter 2: | 2.881 |
| Length 3:   | 5.928 | Diameter 3: | 2.886 |
| Avg. Length | 5.920 | Avg. Diam.: | 2.880 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 163.4 |
| Back Pressure (psi)        | 21.5  |
| Eff. Conf. Pressure (psi)  | 141.9 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 23.5 |
| Final Change (ml)            | 24.5 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 149.53 |
| Q         | = | 84.61  |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 31 |
| Dial Reading After Saturation (mil)    | 37 |
| Dial Reading After Consolidation (mil) | 84 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 33.8         | 0.000               | 21.5                   |
| 93.9         | 0.001               | 23.7                   |
| 137.0        | 0.002               | 25.4                   |
| 276.0        | 0.005               | 34.3                   |
| 384.2        | 0.010               | 45.1                   |
| 469.0        | 0.014               | 56.2                   |
| 565.7        | 0.022               | 69.8                   |
| 632.1        | 0.030               | 80.4                   |
| 690.7        | 0.042               | 91.4                   |
| 747.8        | 0.062               | 100.6                  |
| 814.3        | 0.091               | 106.1                  |
| 879.7        | 0.125               | 107.5                  |
| 934.5        | 0.160               | 107.1                  |
| 993.4        | 0.201               | 105.3                  |
| 1033.2       | 0.231               | 104.0                  |
| 1090.1       | 0.273               | 101.8                  |
| 1162.4       | 0.328               | 98.5                   |
| 1230.4       | 0.386               | 95.1                   |
| 1286.5       | 0.430               | 92.4                   |
| 1368.3       | 0.489               | 88.7                   |
| 1421.9       | 0.534               | 86.0                   |
| 1465.4       | 0.577               | 83.1                   |
| 1511.8       | 0.620               | 80.5                   |
| 1543.4       | 0.650               | 78.5                   |
| 1569.9       | 0.680               | 76.7                   |
| 1605.9       | 0.710               | 74.9                   |
| 1632.5       | 0.740               | 73.1                   |
| 1647.4       | 0.783               | 71.0                   |
| 1676.3       | 0.828               | 69.2                   |
| 1696.2       | 0.857               | 68.3                   |
| 1715.7       | 0.886               | 67.5                   |

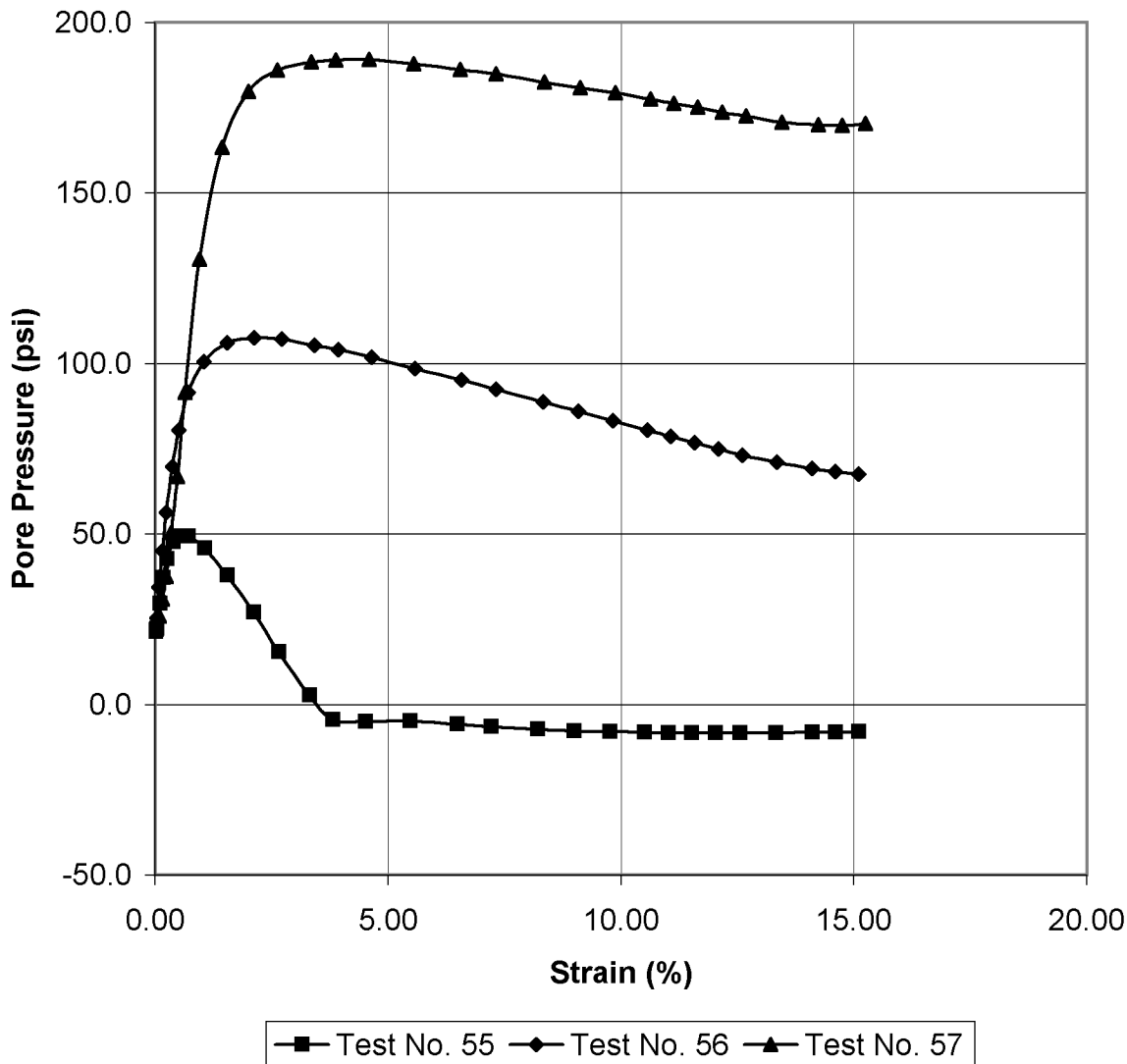
Tested By: JCM      Date: 11/26/13      Input Checked By: KC      Date: 12/5/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 401.0-404.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 404.0-404.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 141.9 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 56 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.92  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.56 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.95 |
| Length After Consolidation (in)               | 5.87  |
| Area After Consolidation (in <sup>2</sup> )   | 6.297 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 9.55             | 2.21       | 149.24           | 139.7            | 1.068                            | 0.23      | 144.47    | 4.78   |
| 0.03       | 16.38            | 3.93       | 154.35           | 138.0            | 1.119                            | 0.24      | 146.16    | 8.19   |
| 0.08       | 38.43            | 12.80      | 167.53           | 129.1            | 1.298                            | 0.33      | 148.32    | 19.22  |
| 0.16       | 55.55            | 23.57      | 173.88           | 118.3            | 1.469                            | 0.42      | 146.11    | 27.78  |
| 0.25       | 68.94            | 34.72      | 176.12           | 107.2            | 1.643                            | 0.50      | 141.65    | 34.47  |
| 0.38       | 84.14            | 48.34      | 177.70           | 93.6             | 1.899                            | 0.57      | 135.63    | 42.07  |
| 0.52       | 94.52            | 58.87      | 177.56           | 83.0             | 2.138                            | 0.62      | 130.29    | 47.26  |
| 0.71       | 103.58           | 69.92      | 175.57           | 72.0             | 2.439                            | 0.67      | 123.77    | 51.79  |
| 1.06       | 112.20           | 79.10      | 175.00           | 62.8             | 2.786                            | 0.70      | 118.90    | 56.10  |
| 1.55       | 122.03           | 84.58      | 179.35           | 57.3             | 3.129                            | 0.69      | 118.34    | 61.01  |
| 2.14       | 131.46           | 86.01      | 187.36           | 55.9             | 3.352                            | 0.65      | 121.63    | 65.73  |
| 2.72       | 139.14           | 85.57      | 195.46           | 56.3             | 3.470                            | 0.62      | 125.90    | 69.57  |
| 3.42       | 147.18           | 83.82      | 205.26           | 58.1             | 3.534                            | 0.57      | 131.67    | 73.59  |
| 3.93       | 152.46           | 82.46      | 211.90           | 59.4             | 3.565                            | 0.54      | 135.67    | 76.23  |
| 4.65       | 159.95           | 80.29      | 221.56           | 61.6             | 3.596                            | 0.50      | 141.58    | 79.97  |
| 5.58       | 169.23           | 76.98      | 234.15           | 64.9             | 3.607                            | 0.45      | 149.53    | 84.61  |
| 6.58       | 177.54           | 73.65      | 245.79           | 68.3             | 3.601                            | 0.41      | 157.02    | 88.77  |
| 7.33       | 184.36           | 70.90      | 255.36           | 71.0             | 3.596                            | 0.38      | 163.18    | 92.18  |
| 8.33       | 194.27           | 67.23      | 268.94           | 74.7             | 3.602                            | 0.35      | 171.80    | 97.13  |
| 9.09       | 200.39           | 64.46      | 277.83           | 77.4             | 3.587                            | 0.32      | 177.64    | 100.19 |
| 9.83       | 204.99           | 61.64      | 285.24           | 80.3             | 3.554                            | 0.30      | 182.75    | 102.49 |
| 10.57      | 209.90           | 58.96      | 292.85           | 82.9             | 3.531                            | 0.28      | 187.89    | 104.95 |
| 11.07      | 213.19           | 57.04      | 298.06           | 84.9             | 3.512                            | 0.27      | 191.46    | 106.60 |
| 11.59      | 215.68           | 55.25      | 302.34           | 86.7             | 3.489                            | 0.26      | 194.50    | 107.84 |
| 12.10      | 219.45           | 53.43      | 307.92           | 88.5             | 3.480                            | 0.24      | 198.20    | 109.72 |
| 12.60      | 221.89           | 51.57      | 312.23           | 90.3             | 3.456                            | 0.23      | 201.28    | 110.95 |
| 13.35      | 222.03           | 49.45      | 314.48           | 92.4             | 3.402                            | 0.22      | 203.46    | 111.02 |
| 14.11      | 224.05           | 47.70      | 318.25           | 94.2             | 3.378                            | 0.21      | 206.23    | 112.03 |
| 14.61      | 225.43           | 46.82      | 320.51           | 95.1             | 3.371                            | 0.21      | 207.80    | 112.71 |
| 15.10      | 226.77           | 46.03      | 322.63           | 95.9             | 3.365                            | 0.20      | 209.25    | 113.38 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 404.0-404.5 |
| Project No.      | 2013-465-001                  | Sample No. | ST-82       |
| Lab ID #         | 2013-465-001-040              | Test No.   | 56          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G331                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1456                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 403.0-403.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 57 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.914 | Diameter 1: | 2.883 |
| Length 2:    | 5.915 | Diameter 2: | 2.888 |
| Length 3:    | 5.912 | Diameter 3: | 2.886 |
| Avg. Length: | 5.914 | Avg. Diam.: | 2.886 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 297.0 |
| Back Pressure (psi)        | 21.0  |
| Eff. Conf. Pressure (psi)  | 276.0 |
| Pore Pressure Response (%) | 99    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 31.3 |
| Final Change (ml)            | 16.7 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 259.83 |
| Q         | = | 149.06 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 63  |
| Dial Reading After Saturation (mil)    | 74  |
| Dial Reading After Consolidation (mil) | 184 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 63.1         | 0.000               | 21.0                   |
| 97.3         | 0.001               | 21.6                   |
| 152.8        | 0.002               | 22.2                   |
| 366.5        | 0.005               | 25.9                   |
| 559.7        | 0.009               | 30.9                   |
| 732.7        | 0.014               | 37.5                   |
| 967.1        | 0.021               | 50.4                   |
| 1172.4       | 0.028               | 66.8                   |
| 1394.4       | 0.038               | 91.5                   |
| 1642.2       | 0.056               | 130.6                  |
| 1782.9       | 0.083               | 163.3                  |
| 1840.9       | 0.117               | 179.8                  |
| 1879.9       | 0.152               | 185.9                  |
| 1924.7       | 0.195               | 188.4                  |
| 1957.2       | 0.225               | 189.0                  |
| 2001.8       | 0.267               | 189.1                  |
| 2060.6       | 0.322               | 187.8                  |
| 2125.1       | 0.380               | 186.2                  |
| 2163.0       | 0.424               | 184.9                  |
| 2230.3       | 0.484               | 182.5                  |
| 2281.3       | 0.529               | 180.8                  |
| 2332.9       | 0.573               | 179.3                  |
| 2368.4       | 0.616               | 177.4                  |
| 2395.5       | 0.645               | 176.3                  |
| 2423.0       | 0.675               | 175.1                  |
| 2447.1       | 0.706               | 173.7                  |
| 2486.9       | 0.735               | 172.6                  |
| 2519.6       | 0.780               | 170.8                  |
| 2521.4       | 0.825               | 169.9                  |
| 2515.1       | 0.854               | 169.8                  |
| 2496.9       | 0.884               | 170.3                  |

|            |     |       |          |                   |    |       |         |
|------------|-----|-------|----------|-------------------|----|-------|---------|
| Tested By: | JCM | Date: | 11/26/13 | Input Checked By: | KC | Date: | 12/5/13 |
|------------|-----|-------|----------|-------------------|----|-------|---------|

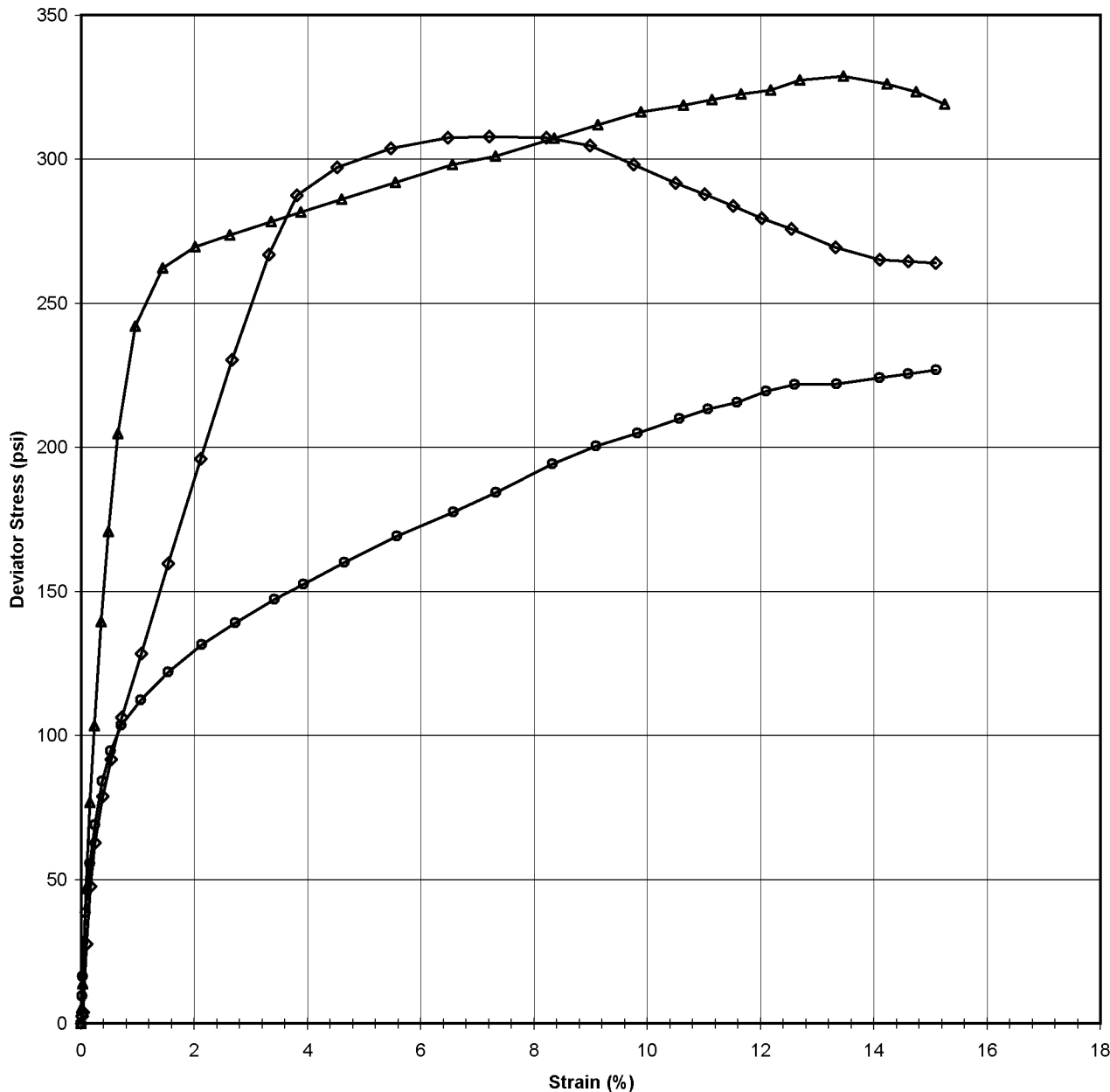
DCN: CI-S28 DATE: 4/12/13 REVISION: 3





**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-6-1b      |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 401.0-404.6 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-82       |
| Lab ID:             | 2013-465-001-040                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 55                     
 ● Test No. 56                     
 ▲ Test No. 57

E50 Test No. 55    16006.4                     
 E50 Test No. 56    22005.41                     
 E50 Test No. 57    37844.07

Tested By: JCM                      Date: 11/26/13                      Approved By: DB                      Date: 12/5/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-6-1b      |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 403.0-403.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-82       |
| Lab ID:           | 2013-465-001-040              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 276.0 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 57 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.91  |
| Initial Sample Diameter (in)             | 2.89  |
| Initial Sample Area (in <sup>2</sup> )   | 6.54  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.68 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.44 |
| Length After Consolidation (in)               | 5.79  |
| Area After Consolidation (in <sup>2</sup> )   | 6.463 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.01       | 5.29             | 0.56       | 280.73           | 275.4            | 1.019                            | 0.11      | 278.08    | 2.65   |
| 0.03       | 13.88            | 1.24       | 288.63           | 274.8            | 1.051                            | 0.09      | 281.69    | 6.94   |
| 0.09       | 46.90            | 4.85       | 318.05           | 271.1            | 1.173                            | 0.10      | 294.60    | 23.45  |
| 0.16       | 76.71            | 9.89       | 342.82           | 266.1            | 1.288                            | 0.13      | 304.46    | 38.35  |
| 0.24       | 103.35           | 16.48      | 362.88           | 259.5            | 1.398                            | 0.16      | 311.20    | 51.68  |
| 0.36       | 139.37           | 29.38      | 385.98           | 246.6            | 1.565                            | 0.21      | 316.30    | 69.68  |
| 0.48       | 170.80           | 45.78      | 401.01           | 230.2            | 1.742                            | 0.27      | 315.61    | 85.40  |
| 0.65       | 204.64           | 70.46      | 410.18           | 205.5            | 1.996                            | 0.35      | 307.86    | 102.32 |
| 0.96       | 241.96           | 109.59     | 408.37           | 166.4            | 2.454                            | 0.46      | 287.39    | 120.98 |
| 1.44       | 262.25           | 142.25     | 395.99           | 133.7            | 2.961                            | 0.55      | 264.87    | 131.12 |
| 2.01       | 269.51           | 158.81     | 386.70           | 117.2            | 3.300                            | 0.60      | 251.94    | 134.76 |
| 2.63       | 273.70           | 164.92     | 384.77           | 111.1            | 3.464                            | 0.61      | 247.92    | 136.85 |
| 3.36       | 278.35           | 167.39     | 386.96           | 108.6            | 3.563                            | 0.61      | 247.79    | 139.17 |
| 3.88       | 281.67           | 168.03     | 389.64           | 108.0            | 3.609                            | 0.60      | 248.81    | 140.84 |
| 4.60       | 286.15           | 168.08     | 394.07           | 107.9            | 3.651                            | 0.59      | 251.00    | 143.07 |
| 5.55       | 291.88           | 166.85     | 401.03           | 109.2            | 3.674                            | 0.58      | 255.09    | 145.94 |
| 6.56       | 298.11           | 165.22     | 408.89           | 110.8            | 3.691                            | 0.56      | 259.83    | 149.06 |
| 7.32       | 301.10           | 163.94     | 413.16           | 112.1            | 3.687                            | 0.55      | 262.61    | 150.55 |
| 8.36       | 307.27           | 161.51     | 421.75           | 114.5            | 3.684                            | 0.53      | 268.12    | 153.63 |
| 9.13       | 311.86           | 159.82     | 428.03           | 116.2            | 3.684                            | 0.52      | 272.10    | 155.93 |
| 9.88       | 316.46           | 158.34     | 434.11           | 117.7            | 3.690                            | 0.51      | 275.89    | 158.23 |
| 10.64      | 318.72           | 156.45     | 438.27           | 119.6            | 3.666                            | 0.50      | 278.91    | 159.36 |
| 11.14      | 320.65           | 155.32     | 441.34           | 120.7            | 3.657                            | 0.49      | 281.01    | 160.33 |
| 11.65      | 322.56           | 154.06     | 444.50           | 121.9            | 3.645                            | 0.48      | 283.22    | 161.28 |
| 12.18      | 323.91           | 152.72     | 447.19           | 123.3            | 3.627                            | 0.48      | 285.24    | 161.96 |
| 12.69      | 327.40           | 151.55     | 451.84           | 124.4            | 3.631                            | 0.47      | 288.14    | 163.70 |
| 13.46      | 328.89           | 149.78     | 455.11           | 126.2            | 3.606                            | 0.46      | 290.67    | 164.45 |
| 14.24      | 326.19           | 148.89     | 453.30           | 127.1            | 3.566                            | 0.46      | 290.21    | 163.10 |
| 14.75      | 323.41           | 148.80     | 450.61           | 127.2            | 3.543                            | 0.46      | 288.90    | 161.71 |
| 15.26      | 319.09           | 149.26     | 445.83           | 126.7            | 3.518                            | 0.47      | 286.29    | 159.55 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-6-1b      |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 403.0-403.5 |
| Project No.      | 2013-465-001                  | Sample No. | ST-82       |
| Lab ID #         | 2013-465-001-040              | Test No.   | 57          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G323                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G456                 | 2/13/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1509-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-040                      Specific Gravity (measured)                      2.6

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-6-1b      | R-6-1b      | R-6-1b      |
| Depth (ft):                    | 403.5-404.0 | 404.0-404.5 | 403.0-403.5 |
| Sample No.:                    | ST-82       | ST-82       | ST-82       |
| Test No.                       | T55         | T56         | T57         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.6        | 21.5        | 21.0        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 28.2        | 28.2        | 28.2        |
| Total Unit Weight (pcf)        | 121.4       | 117.8       | 115.6       |
| Dry Unit Weight (pcf)          | 94.7        | 91.9        | 90.2        |
| Moisture Content (%) (FINAL)   | 26.5        | 27.7        | 29.8        |
| Initial State Void Ratio, e    | 0.714       | 0.767       | 0.800       |
| Void Ratio at Shear, e         | 0.679       | 0.693       | 0.743       |



Tested By: JCM                      Date: 11/26/13                      Input Checked By: KC                      Date: 12/5/13  
 DCN: CT-S28    DATE: 4/12/13    REVISION: 3

## CONSOLIDATED UNDRAINED TRIAXIAL TEST WITH PORE PRESSURE READINGS

ASTM D4767-11

### MOISTURE CONTENT

|                                 | T55     | T56     | T57    |
|---------------------------------|---------|---------|--------|
| Tare Number                     | 914     | 914     | 914    |
| Weight of Tare & Wet Sample (g) | 238.7   | 238.7   | 238.7  |
| Weight of Tare & Dry Sample (g) | 210.46  | 210.46  | 210.46 |
| Weight of Tare (g)              | 110.32  | 110.32  | 110.32 |
| Moisture Content (%) (INITIAL)  | 28.20   | 28.20   | 28.20  |
|                                 |         |         |        |
| Tare Number                     | 2485    | 685     | 607    |
| Weight of Tare & Wet Sample (g) | 1306.34 | 1231.05 | 277.01 |
| Weight of Tare & Dry Sample (g) | 1052.63 | 985.24  | 232.39 |
| Weight of Tare (g)              | 95.68   | 97.36   | 82.77  |
| Moisture Content (%) (FINAL)    | 26.51   | 27.69   | 29.82  |

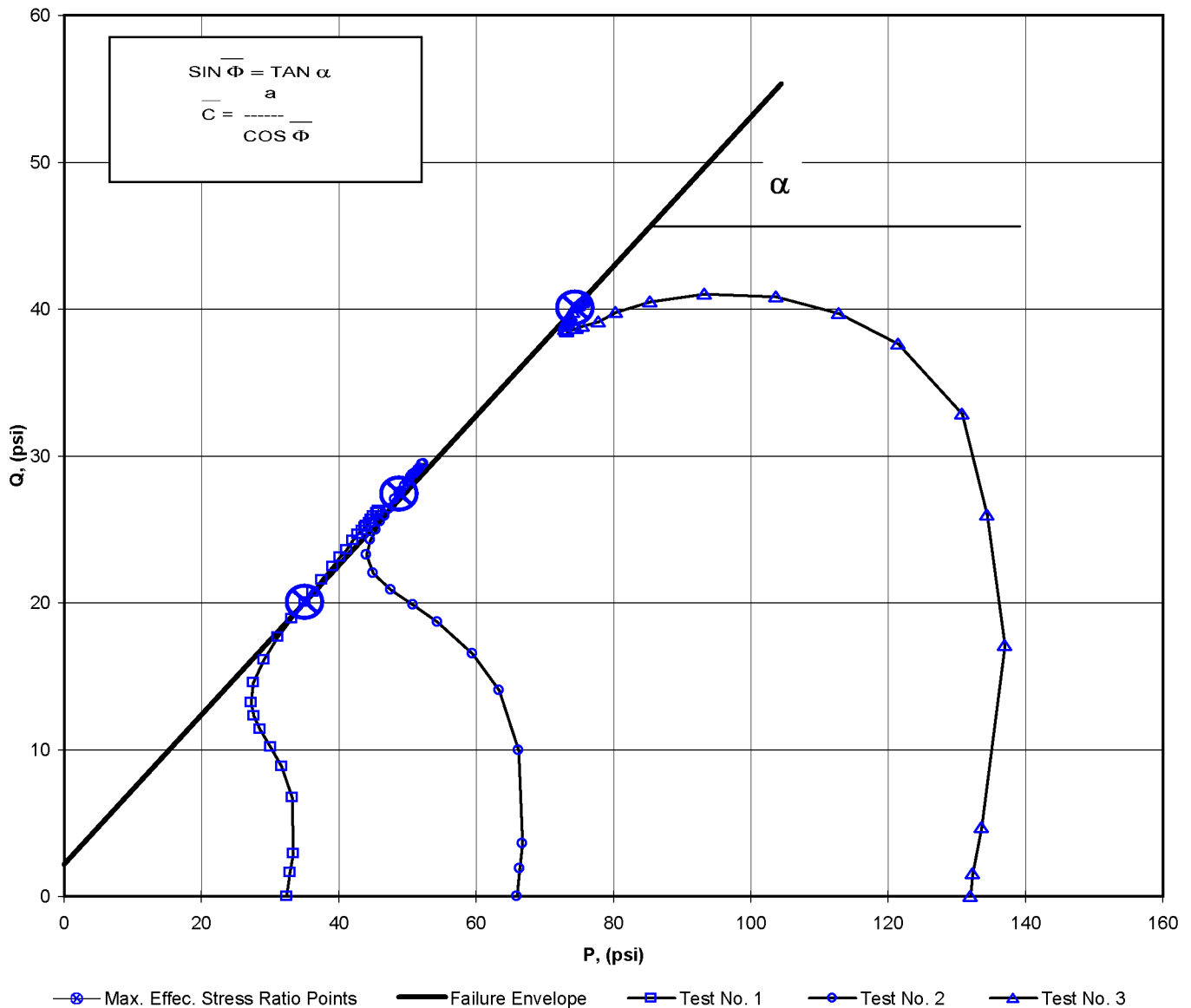
### UNIT WEIGHT

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1657.58             | 1611.78     | 1590.6      |
| Weight of Tube (g)                   | 420.09              | 419.97      | 417.28      |
| Weight of Wet Sample (g)             | 1237.49             | 1191.81     | 1173.32     |
| Length 1 (in)                        | 5.947               | 5.929       | 5.914       |
| Length 2 (in)                        | 5.948               | 5.904       | 5.915       |
| Length 3 (in)                        | 5.933               | 5.928       | 5.912       |
| Top Diameter (in)                    | 2.88                | 2.872       | 2.883       |
| Middle Diameter (in)                 | 2.892               | 2.881       | 2.888       |
| Bottom Diameter (in)                 | 2.882               | 2.886       | 2.886       |
| Average Length (in)                  | 5.942667            | 5.920333    | 5.913667    |
| Average Area (in <sup>2</sup> )      | 6.536               | 6.513       | 6.540       |
| Sample Volume (cm <sup>3</sup> )     | 636.45              | 631.86      | 633.78      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.94                | 1.89        | 1.85        |
| Unit Wet Weight (pcf)                | 121.39              | 117.75      | 115.58      |
| Unit Dry Weight (pcf)                | 94.69               | 91.85       | 90.15       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.52                | 1.47        | 1.44        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>48</b>   |
| Final Burette Reading                | <b>36</b>           | <b>23.5</b> | <b>31.3</b> |
| Initial Dial Reading                 | <b>64</b>           | <b>31</b>   | <b>63</b>   |
| Dial Reading After Saturation        | <b>67</b>           | <b>37</b>   | <b>74</b>   |
| Dial Reading After Consolidation     | <b>81</b>           | <b>84</b>   | <b>184</b>  |
| Volume Change during Consolidation   | 12                  | 24.5        | 16.7        |
| Volume Change during Saturation      | 0.96                | 1.92        | 3.54        |
| Volume at Shear (cm <sup>3</sup> )   | *These 623.49       | 605.44      | 613.55      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 371.26 | 357.56      | 352.01      |
| Volume of Voids (cm <sup>3</sup> )   | are all 252.22      | 247.88      | 261.54      |
| Volume of Water (cm <sup>3</sup> )   | at 255.92           | 257.37      | 272.94      |
| Void Ratio, e                        | shear 0.679         | 0.693       | 0.743       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 190.1-190.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |
|                   | Gray Silty Sand (Undisturbed) |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

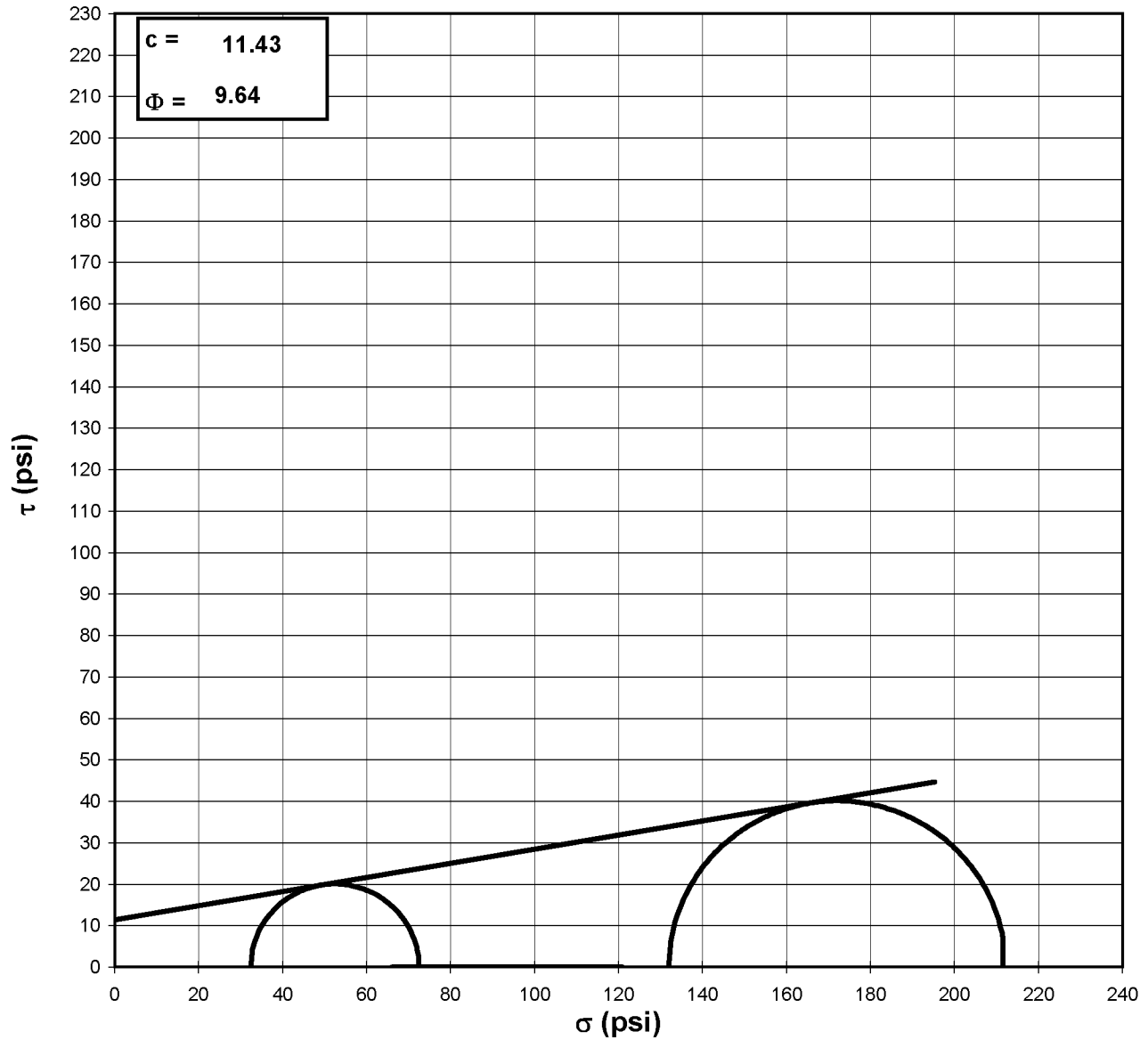


|                            |          |             |                                     |          |              |
|----------------------------|----------|-------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>2.20</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>2.56</b>  |
| <b><math>\alpha</math></b> | <b>=</b> | <b>27.0</b> | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>30.60</b> |

Tested By: JCM      Date: 10/28/13      Approved By: DB      Date: 11/20/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |                               |             |             |
|---------------------|-------------------------------|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site | Depth (ft): | 190.1-190.6 |
| Project No.:        | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:             | 2013-465-001-003              |             |             |
| Visual Description: | Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 10/28/13      Approved By: DB      Date: 11/20/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**  
ASTM D4767-11



A-1003

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 190.1-190.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

Visual Description: Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 1 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.923 | Diameter 1: | 2.872 |
| Length 2:    | 5.923 | Diameter 2: | 2.884 |
| Length 3:    | 5.919 | Diameter 3: | 2.880 |
| Avg. Length: | 5.922 | Avg. Diam.: | 2.879 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 64.1 |
| Back Pressure (psi)        | 31.7 |
| Eff. Conf. Pressure (psi)  | 32.4 |
| Pore Pressure Response (%) | 100  |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 34.1 |
| Final Change (ml)            | 13.9 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |       |
|---|---|-------|
| P | = | 35.07 |
| Q | = | 20.05 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 63  |
| Dial Reading After Saturation (mil)    | 78  |
| Dial Reading After Consolidation (mil) | 112 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 14.6         | 0.000               | 31.7                   |
| 35.3         | 0.001               | 32.8                   |
| 51.6         | 0.002               | 33.6                   |
| 100.2        | 0.007               | 37.6                   |
| 127.6        | 0.012               | 41.3                   |
| 144.5        | 0.018               | 44.2                   |
| 160.3        | 0.027               | 46.9                   |
| 172.1        | 0.035               | 48.7                   |
| 184.1        | 0.047               | 50.1                   |
| 202.1        | 0.068               | 51.1                   |
| 223.2        | 0.098               | 51.1                   |
| 244.5        | 0.133               | 50.6                   |
| 262.6        | 0.168               | 49.9                   |
| 279.4        | 0.210               | 49.1                   |
| 289.8        | 0.239               | 48.6                   |
| 302.6        | 0.280               | 48.1                   |
| 317.9        | 0.337               | 47.4                   |
| 329.8        | 0.396               | 47.0                   |
| 339.3        | 0.441               | 46.6                   |
| 352.0        | 0.499               | 46.3                   |
| 360.5        | 0.544               | 46.0                   |
| 367.3        | 0.589               | 45.6                   |
| 373.7        | 0.634               | 45.4                   |
| 377.3        | 0.663               | 45.4                   |
| 382.2        | 0.692               | 45.1                   |
| 387.4        | 0.721               | 45.1                   |
| 392.7        | 0.751               | 45.0                   |
| 399.6        | 0.796               | 44.7                   |
| 404.7        | 0.840               | 44.6                   |
| 407.6        | 0.870               | 44.6                   |
| 409.8        | 0.900               | 44.3                   |

Tested By: JCM      Date: 10/28/13      Input Checked By: KC      Date: 11/20/13



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1004

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 190.1-190.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

Visual Description: Gray Silty Sand (Undisturbed)

|   |      |                  |   |
|---|------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 32.4 | <i>Stage No.</i> | 1 |
|   |      | <i>Test No</i>   | 1 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.92  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.54 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.40 |
| Length After Consolidation (in)               | 5.87  |
| Area After Consolidation (in <sup>2</sup> )   | 6.368 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.01       | 3.26             | 1.11       | 34.55            | 31.3             | 1.104                            | 0.34      | 32.92     | 1.63  |
| 0.03       | 5.81             | 1.92       | 36.28            | 30.5             | 1.191                            | 0.33      | 33.38     | 2.90  |
| 0.11       | 13.43            | 5.88       | 39.95            | 26.5             | 1.506                            | 0.44      | 33.23     | 6.71  |
| 0.21       | 17.71            | 9.60       | 40.52            | 22.8             | 1.777                            | 0.54      | 31.66     | 8.86  |
| 0.31       | 20.34            | 12.47      | 40.26            | 19.9             | 2.021                            | 0.61      | 30.09     | 10.17 |
| 0.46       | 22.78            | 15.23      | 39.95            | 17.2             | 2.327                            | 0.67      | 28.56     | 11.39 |
| 0.60       | 24.58            | 17.04      | 39.94            | 15.4             | 2.600                            | 0.69      | 27.65     | 12.29 |
| 0.80       | 26.40            | 18.39      | 40.42            | 14.0             | 2.884                            | 0.70      | 27.21     | 13.20 |
| 1.16       | 29.11            | 19.40      | 42.11            | 13.0             | 3.239                            | 0.67      | 27.56     | 14.56 |
| 1.66       | 32.22            | 19.43      | 45.19            | 13.0             | 3.485                            | 0.60      | 29.08     | 16.11 |
| 2.26       | 35.28            | 18.90      | 48.78            | 13.5             | 3.614                            | 0.54      | 31.14     | 17.64 |
| 2.87       | 37.83            | 18.18      | 52.05            | 14.2             | 3.661                            | 0.48      | 33.14     | 18.92 |
| 3.57       | 40.11            | 17.38      | 55.13            | 15.0             | 3.670                            | 0.43      | 35.07     | 20.05 |
| 4.07       | 41.46            | 16.88      | 56.98            | 15.5             | 3.670                            | 0.41      | 36.25     | 20.73 |
| 4.77       | 43.08            | 16.42      | 59.05            | 16.0             | 3.696                            | 0.38      | 37.51     | 21.54 |
| 5.74       | 44.90            | 15.73      | 61.57            | 16.7             | 3.693                            | 0.35      | 39.12     | 22.45 |
| 6.75       | 46.17            | 15.27      | 63.30            | 17.1             | 3.695                            | 0.33      | 40.21     | 23.08 |
| 7.51       | 47.16            | 14.87      | 64.70            | 17.5             | 3.690                            | 0.32      | 41.11     | 23.58 |
| 8.50       | 48.49            | 14.57      | 66.32            | 17.8             | 3.719                            | 0.30      | 42.07     | 24.24 |
| 9.26       | 49.29            | 14.27      | 67.42            | 18.1             | 3.718                            | 0.29      | 42.77     | 24.64 |
| 10.03      | 49.84            | 13.92      | 68.32            | 18.5             | 3.698                            | 0.28      | 43.40     | 24.92 |
| 10.79      | 50.31            | 13.73      | 68.97            | 18.7             | 3.695                            | 0.27      | 43.82     | 25.15 |
| 11.29      | 50.53            | 13.72      | 69.21            | 18.7             | 3.705                            | 0.27      | 43.95     | 25.27 |
| 11.78      | 50.92            | 13.41      | 69.91            | 19.0             | 3.682                            | 0.26      | 44.45     | 25.46 |
| 12.28      | 51.36            | 13.39      | 70.37            | 19.0             | 3.702                            | 0.26      | 44.69     | 25.68 |
| 12.79      | 51.78            | 13.26      | 70.91            | 19.1             | 3.706                            | 0.26      | 45.02     | 25.89 |
| 13.55      | 52.27            | 13.01      | 71.66            | 19.4             | 3.696                            | 0.25      | 45.52     | 26.14 |
| 14.31      | 52.49            | 12.87      | 72.02            | 19.5             | 3.688                            | 0.25      | 45.77     | 26.25 |
| 14.82      | 52.57            | 12.89      | 72.08            | 19.5             | 3.694                            | 0.25      | 45.80     | 26.28 |
| 15.33      | 52.55            | 12.63      | 72.32            | 19.8             | 3.658                            | 0.24      | 46.05     | 26.27 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 190.1-190.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-4        |
| Lab ID #         | 2013-465-001-003              | Test No.   | 1           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G332                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G836B                | 1/8/14                      |
| Pore Pressure Transducer | G836A                | 1/8/14                      |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G041                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | G1395                | 6/4/14                      |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 189.6-190.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

Visual Description: Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 2 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.946 | Diameter 1: | 2.878 |
| Length 2:   | 5.948 | Diameter 2: | 2.875 |
| Length 3:   | 5.944 | Diameter 3: | 2.875 |
| Avg. Length | 5.946 | Avg. Diam.: | 2.876 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 97.6 |
| Back Pressure (psi)        | 31.6 |
| Eff. Conf. Pressure (psi)  | 66.0 |
| Pore Pressure Response (%) | 100  |

**VOLUME CHANGE**

|  |      |
|--|------|
| Initial Burette Reading (ml)           | 48.0 |
| Final Burette Reading (ml)             | 25.8 |
| Final Change (ml)                      | 22.2 |
| Initial Dial Reading (mil)             | 56   |
| Dial Reading After Saturation (mil)    | 63   |
| Dial Reading After Consolidation (mil) | 132  |

**MAXIMUM OBLIQUITY POINTS**

|   |   |       |
|---|---|-------|
| P | = | 48.85 |
| Q | = | 27.42 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 18.7         | 0.000               | 31.6                   |
| 42.4         | 0.001               | 33.1                   |
| 64.3         | 0.002               | 34.4                   |
| 144.4        | 0.006               | 41.3                   |
| 196.3        | 0.011               | 48.2                   |
| 228.4        | 0.017               | 54.6                   |
| 256.0        | 0.025               | 61.9                   |
| 271.4        | 0.033               | 66.6                   |
| 284.6        | 0.045               | 70.8                   |
| 300.4        | 0.065               | 74.6                   |
| 317.5        | 0.095               | 76.7                   |
| 332.7        | 0.133               | 77.2                   |
| 343.8        | 0.168               | 77.1                   |
| 353.6        | 0.210               | 77.0                   |
| 360.5        | 0.239               | 76.8                   |
| 369.2        | 0.280               | 76.6                   |
| 381.3        | 0.336               | 76.4                   |
| 390.9        | 0.397               | 76.2                   |
| 396.0        | 0.443               | 76.1                   |
| 405.0        | 0.501               | 75.9                   |
| 411.9        | 0.544               | 75.7                   |
| 420.1        | 0.589               | 75.6                   |
| 425.9        | 0.635               | 75.5                   |
| 429.1        | 0.666               | 75.3                   |
| 432.0        | 0.696               | 75.3                   |
| 435.6        | 0.726               | 75.2                   |
| 440.2        | 0.755               | 75.0                   |
| 445.5        | 0.798               | 74.9                   |
| 453.0        | 0.842               | 74.9                   |
| 456.4        | 0.873               | 74.7                   |
| 459.5        | 0.904               | 74.6                   |

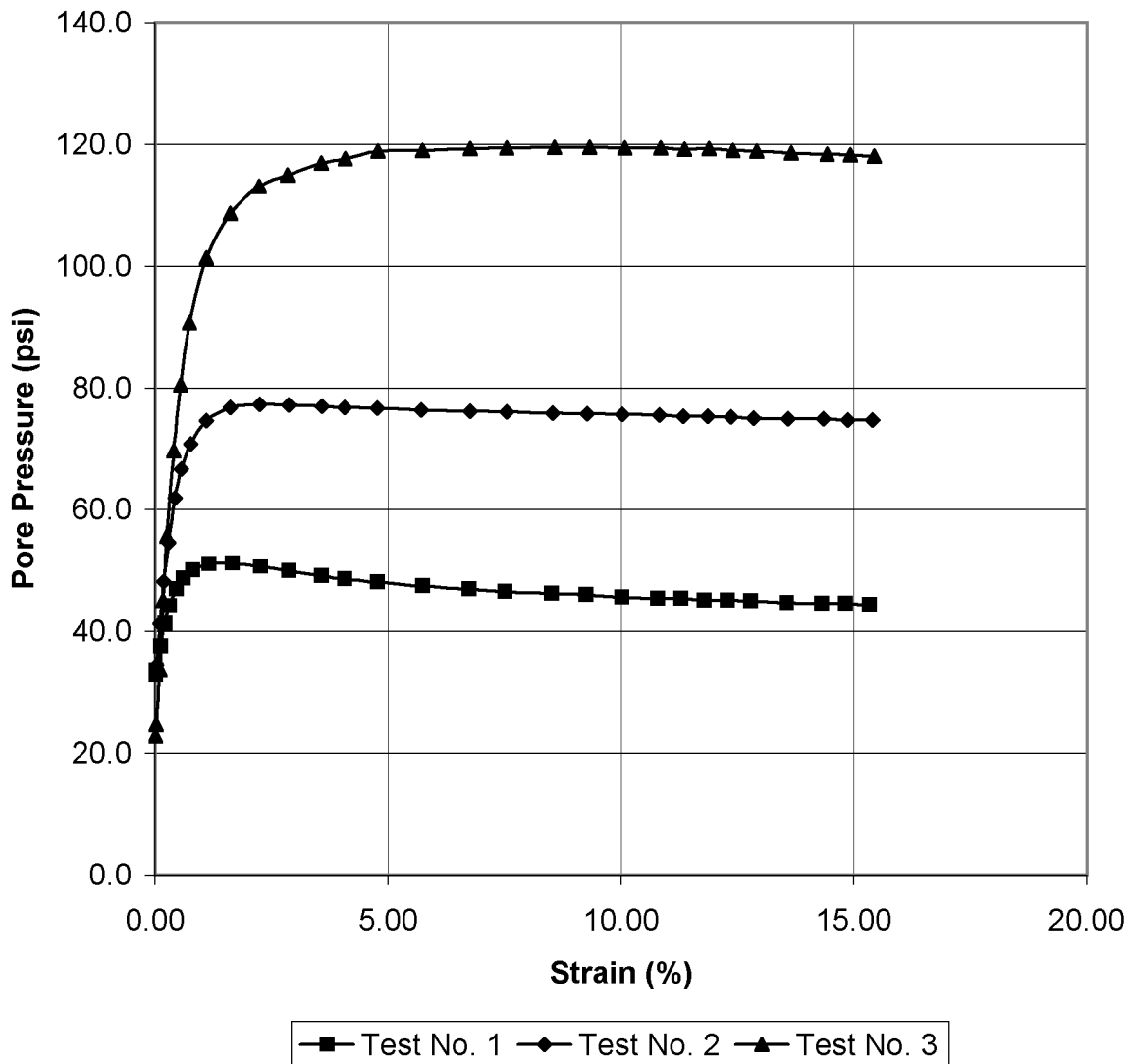
Tested By: JCM      Date: 10/28/13      Input Checked By: KC      Date: 11/20/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 190.1-190.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1008

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 189.6-190.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

Visual Description: Gray Silty Sand (Undisturbed)

|   |      |                  |   |
|---|------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 66.0 | <i>Stage No.</i> | 1 |
|   |      | <i>Test No</i>   | 2 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.95  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.50  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.63 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.14 |
| Length After Consolidation (in)               | 5.87  |
| Area After Consolidation (in <sup>2</sup> )   | 6.326 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.02       | 3.75             | 1.47       | 68.28            | 64.5             | 1.058                            | 0.39      | 66.41     | 1.88  |
| 0.04       | 7.20             | 2.83       | 70.38            | 63.2             | 1.114                            | 0.39      | 66.77     | 3.60  |
| 0.10       | 19.85            | 9.68       | 76.17            | 56.3             | 1.352                            | 0.49      | 66.25     | 9.92  |
| 0.19       | 28.02            | 16.62      | 77.40            | 49.4             | 1.567                            | 0.59      | 63.39     | 14.01 |
| 0.29       | 33.04            | 23.01      | 76.04            | 43.0             | 1.769                            | 0.70      | 59.51     | 16.52 |
| 0.43       | 37.35            | 30.26      | 73.09            | 35.7             | 2.045                            | 0.81      | 54.41     | 18.67 |
| 0.56       | 39.72            | 35.04      | 70.68            | 31.0             | 2.283                            | 0.88      | 50.82     | 19.86 |
| 0.77       | 41.70            | 39.22      | 68.48            | 26.8             | 2.557                            | 0.94      | 47.63     | 20.85 |
| 1.10       | 44.04            | 43.01      | 67.04            | 23.0             | 2.915                            | 0.98      | 45.02     | 22.02 |
| 1.62       | 46.47            | 45.14      | 67.34            | 20.9             | 3.228                            | 0.97      | 44.10     | 23.24 |
| 2.26       | 48.52            | 45.63      | 68.88            | 20.4             | 3.382                            | 0.94      | 44.63     | 24.26 |
| 2.87       | 49.91            | 45.54      | 70.37            | 20.5             | 3.440                            | 0.91      | 45.41     | 24.96 |
| 3.58       | 51.04            | 45.41      | 71.63            | 20.6             | 3.479                            | 0.89      | 46.11     | 25.52 |
| 4.08       | 51.82            | 45.16      | 72.65            | 20.8             | 3.487                            | 0.87      | 46.74     | 25.91 |
| 4.78       | 52.75            | 45.01      | 73.74            | 21.0             | 3.513                            | 0.85      | 47.37     | 26.38 |
| 5.72       | 54.04            | 44.79      | 75.24            | 21.2             | 3.548                            | 0.83      | 48.23     | 27.02 |
| 6.77       | 54.85            | 44.57      | 76.28            | 21.4             | 3.559                            | 0.81      | 48.85     | 27.42 |
| 7.55       | 55.14            | 44.46      | 76.68            | 21.5             | 3.559                            | 0.81      | 49.11     | 27.57 |
| 8.54       | 55.85            | 44.25      | 77.60            | 21.7             | 3.568                            | 0.79      | 49.67     | 27.92 |
| 9.28       | 56.38            | 44.12      | 78.26            | 21.9             | 3.577                            | 0.78      | 50.07     | 28.19 |
| 10.04      | 57.08            | 44.01      | 79.07            | 22.0             | 3.596                            | 0.77      | 50.53     | 28.54 |
| 10.82      | 57.40            | 43.89      | 79.51            | 22.1             | 3.597                            | 0.76      | 50.81     | 28.70 |
| 11.35      | 57.51            | 43.73      | 79.77            | 22.3             | 3.582                            | 0.76      | 51.02     | 28.75 |
| 11.86      | 57.58            | 43.67      | 79.91            | 22.3             | 3.578                            | 0.76      | 51.12     | 28.79 |
| 12.36      | 57.75            | 43.56      | 80.19            | 22.4             | 3.574                            | 0.75      | 51.31     | 28.88 |
| 12.85      | 58.06            | 43.44      | 80.61            | 22.6             | 3.574                            | 0.75      | 51.58     | 29.03 |
| 13.59      | 58.29            | 43.35      | 80.95            | 22.7             | 3.573                            | 0.74      | 51.80     | 29.15 |
| 14.35      | 58.80            | 43.25      | 81.55            | 22.7             | 3.585                            | 0.74      | 52.15     | 29.40 |
| 14.88      | 58.89            | 43.06      | 81.84            | 22.9             | 3.567                            | 0.73      | 52.39     | 29.45 |
| 15.40      | 58.95            | 43.04      | 81.91            | 23.0             | 3.568                            | 0.73      | 52.43     | 29.48 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 189.6-190.1 |
| Project No.      | 2013-465-001                  | Sample No. | ST-4        |
| Lab ID #         | 2013-465-001-003              | Test No.   | 2           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G330                 | INITIAL ONLY                |
| Load Cell                | G1437                | 1/7/14                      |
| Cell Pressure Transducer | G1438                | 1/7/14                      |
| Pore Pressure Transducer | G1439                | 1/7/14                      |
| Extensometer             | G1440                | 1/7/14                      |
| Load Frame               | G1434                | 1/7/14                      |
| Dial Indicator           | G1190                | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | G1395                | 6/4/14                      |
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1394                | 5/15/14                     |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1010

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 188.9-189.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

Visual Description: Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 3 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.921 | Diameter 1: | 2.882 |
| Length 2:    | 5.903 | Diameter 2: | 2.878 |
| Length 3:    | 5.923 | Diameter 3: | 2.879 |
| Avg. Length: | 5.916 | Avg. Diam.: | 2.880 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 153.6 |
| Back Pressure (psi)        | 21.6  |
| Eff. Conf. Pressure (psi)  | 132.0 |
| Pore Pressure Response (%) | 98    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 72.0 |
| Final Burette Reading (ml)   | 43.8 |
| Final Change (ml)            | 28.2 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |       |
|-----------|---|-------|
| $\bar{P}$ | = | 74.44 |
| Q         | = | 40.09 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 51  |
| Dial Reading After Saturation (mil)    | 60  |
| Dial Reading After Consolidation (mil) | 142 |

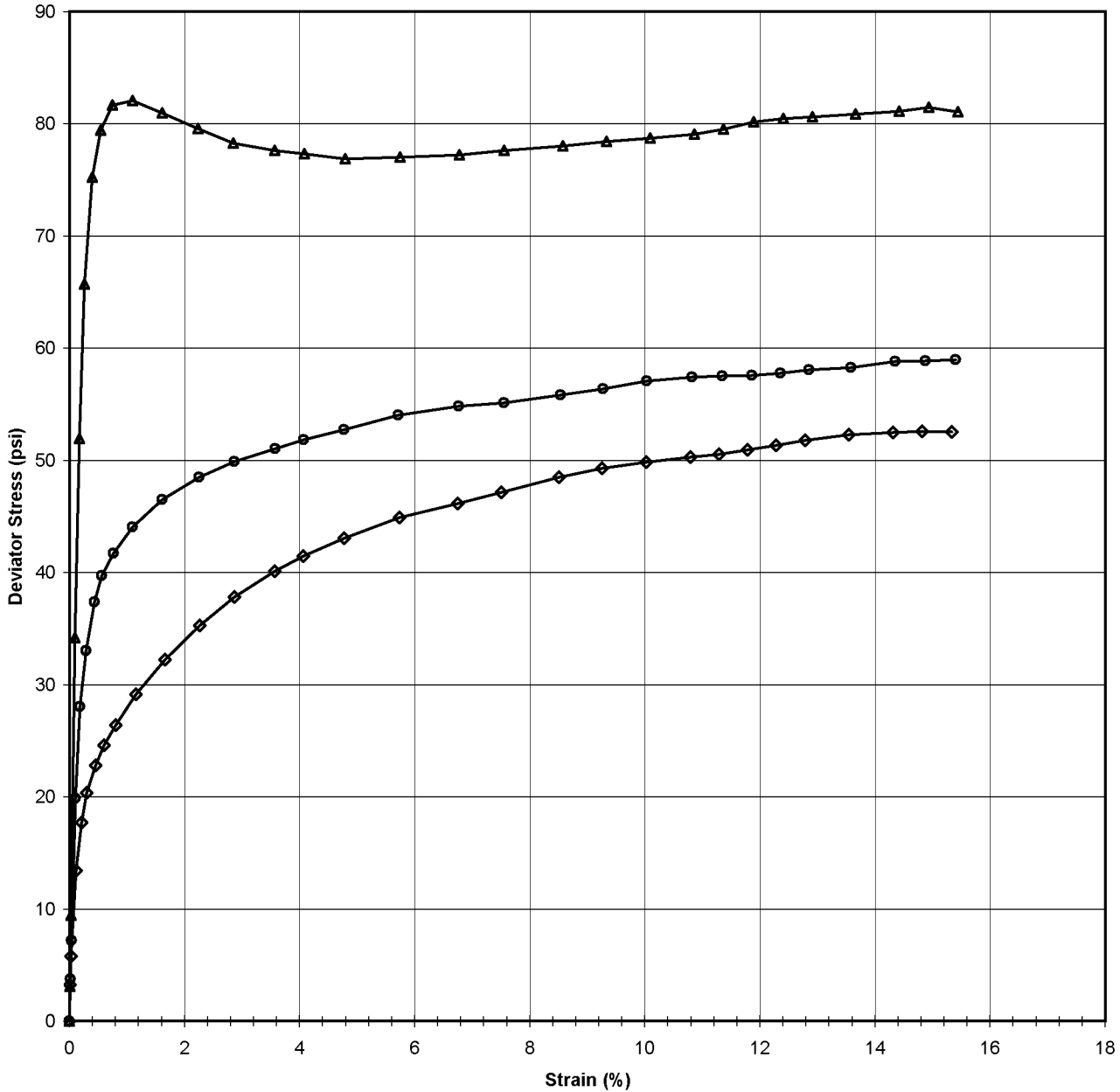
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 27.4         | 0.000               | 21.6                   |
| 47.0         | 0.001               | 22.8                   |
| 86.6         | 0.002               | 24.6                   |
| 242.7        | 0.006               | 33.6                   |
| 354.5        | 0.010               | 45.1                   |
| 441.7        | 0.015               | 55.7                   |
| 502.5        | 0.023               | 69.7                   |
| 529.7        | 0.032               | 80.5                   |
| 544.9        | 0.044               | 90.7                   |
| 549.3        | 0.064               | 101.4                  |
| 544.8        | 0.094               | 108.7                  |
| 539.3        | 0.130               | 113.1                  |
| 534.1        | 0.166               | 114.9                  |
| 533.6        | 0.208               | 116.9                  |
| 534.6        | 0.238               | 117.6                  |
| 535.2        | 0.279               | 118.8                  |
| 541.5        | 0.335               | 118.9                  |
| 548.4        | 0.395               | 119.2                  |
| 555.6        | 0.440               | 119.4                  |
| 564.2        | 0.500               | 119.4                  |
| 571.3        | 0.544               | 119.4                  |
| 578.2        | 0.588               | 119.3                  |
| 585.2        | 0.632               | 119.4                  |
| 591.8        | 0.662               | 119.2                  |
| 599.7        | 0.692               | 119.3                  |
| 605.3        | 0.723               | 118.9                  |
| 609.7        | 0.752               | 118.9                  |
| 616.5        | 0.796               | 118.5                  |
| 623.4        | 0.840               | 118.4                  |
| 629.7        | 0.870               | 118.3                  |
| 630.3        | 0.900               | 118.0                  |

Tested By: JCM      Date: 10/28/13      Input Checked By: KC      Date: 11/20/13

DCN: CI-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |                               |             |             |
|---------------------|-------------------------------|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site | Depth (ft): | 188.0-190.7 |
| Project No.:        | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:             | 2013-465-001-003              |             |             |
| Visual Description: | Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 1                      ● Test No. 2                      ▲ Test No. 3

E50 Test No. 1 6777.783

E50 Test No. 2 15034.48

E50 Test No. 3 31812.57

Tested By: JCM                      Date: 10/28/13                      Approved By: DB                      Date: 11/20/13



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1012

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 188.9-189.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-4        |
| Lab ID:           | 2013-465-001-003              |             |             |

Visual Description: Gray Silty Sand (Undisturbed)

|   |       |                  |   |
|---|-------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 132.0 | <i>Stage No.</i> | 1 |
|   |       | <i>Test No</i>   | 3 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.92  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.53 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.63 |
| Length After Consolidation (in)               | 5.82  |
| Area After Consolidation (in <sup>2</sup> )   | 6.289 |

| Strain (%) | Deviation Stress | Δ U   | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|-------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.01       | 3.11             | 1.22  | 133.89         | 130.8          | 1.024                            | 0.40 | 132.33 | 1.56  |
| 0.03       | 9.40             | 3.04  | 138.37         | 129.0          | 1.073                            | 0.33 | 133.67 | 4.70  |
| 0.10       | 34.19            | 12.03 | 154.17         | 120.0          | 1.285                            | 0.36 | 137.07 | 17.10 |
| 0.17       | 51.92            | 23.48 | 160.44         | 108.5          | 1.478                            | 0.46 | 134.48 | 25.96 |
| 0.26       | 65.70            | 34.05 | 163.65         | 97.9           | 1.671                            | 0.53 | 130.80 | 32.85 |
| 0.40       | 75.25            | 48.07 | 159.18         | 83.9           | 1.897                            | 0.65 | 121.55 | 37.62 |
| 0.55       | 79.43            | 58.86 | 152.56         | 73.1           | 2.086                            | 0.76 | 112.85 | 39.71 |
| 0.75       | 81.67            | 69.08 | 144.59         | 62.9           | 2.298                            | 0.86 | 103.75 | 40.84 |
| 1.10       | 82.08            | 79.76 | 134.31         | 52.2           | 2.571                            | 0.99 | 93.28  | 41.04 |
| 1.62       | 80.95            | 87.08 | 125.87         | 44.9           | 2.802                            | 1.10 | 85.40  | 40.47 |
| 2.23       | 79.58            | 91.46 | 120.11         | 40.5           | 2.963                            | 1.17 | 80.33  | 39.79 |
| 2.85       | 78.27            | 93.31 | 116.97         | 38.7           | 3.023                            | 1.22 | 77.83  | 39.14 |
| 3.57       | 77.62            | 95.29 | 114.33         | 36.7           | 3.115                            | 1.25 | 75.52  | 38.81 |
| 4.09       | 77.34            | 96.03 | 113.31         | 36.0           | 3.150                            | 1.27 | 74.64  | 38.67 |
| 4.79       | 76.87            | 97.22 | 111.65         | 34.8           | 3.210                            | 1.29 | 73.22  | 38.43 |
| 5.75       | 77.04            | 97.31 | 111.73         | 34.7           | 3.221                            | 1.29 | 73.21  | 38.52 |
| 6.77       | 77.23            | 97.62 | 111.61         | 34.4           | 3.247                            | 1.29 | 72.99  | 38.62 |
| 7.55       | 77.64            | 97.77 | 111.86         | 34.2           | 3.268                            | 1.29 | 73.05  | 38.82 |
| 8.58       | 78.04            | 97.82 | 112.22         | 34.2           | 3.283                            | 1.28 | 73.20  | 39.02 |
| 9.34       | 78.41            | 97.84 | 112.57         | 34.2           | 3.295                            | 1.27 | 73.37  | 39.20 |
| 10.09      | 78.75            | 97.73 | 113.02         | 34.3           | 3.298                            | 1.27 | 73.65  | 39.37 |
| 10.86      | 79.06            | 97.78 | 113.28         | 34.2           | 3.310                            | 1.26 | 73.75  | 39.53 |
| 11.37      | 79.54            | 97.61 | 113.93         | 34.4           | 3.313                            | 1.25 | 74.16  | 39.77 |
| 11.89      | 80.18            | 97.65 | 114.53         | 34.3           | 3.335                            | 1.24 | 74.44  | 40.09 |
| 12.40      | 80.49            | 97.34 | 115.14         | 34.7           | 3.322                            | 1.23 | 74.90  | 40.24 |
| 12.92      | 80.63            | 97.27 | 115.37         | 34.7           | 3.321                            | 1.23 | 75.05  | 40.32 |
| 13.67      | 80.87            | 96.92 | 115.95         | 35.1           | 3.306                            | 1.22 | 75.51  | 40.44 |
| 14.42      | 81.10            | 96.76 | 116.34         | 35.2           | 3.301                            | 1.22 | 75.79  | 40.55 |
| 14.93      | 81.47            | 96.66 | 116.81         | 35.3           | 3.306                            | 1.21 | 76.07  | 40.74 |
| 15.44      | 81.06            | 96.43 | 116.63         | 35.6           | 3.279                            | 1.21 | 76.10  | 40.53 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 188.9-189.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-4        |
| Lab ID #         | 2013-465-001-003              | Test No.   | 3           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1396                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G306                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G720                 | 3/18/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1509-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-003                      Specific Gravity (measured)                      2.63

Visual Description: Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 190.1-190.6 | 189.6-190.1 | 188.9-189.4 |
| Sample No.:                    | ST-4        | ST-4        | ST-4        |
| Test No.                       | T1          | T2          | T3          |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 31.7        | 31.6        | 21.6        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 31.5        | 31.5        | 31.5        |
| Total Unit Weight (pcf)        | 117.0       | 115.3       | 115.0       |
| Dry Unit Weight (pcf)          | 89.0        | 87.7        | 87.4        |
| Moisture Content (%) (FINAL)   | 31.8        | 31.2        | 29.9        |
| Initial State Void Ratio, e    | 0.845       | 0.872       | 0.878       |
| Void Ratio at Shear, e         | 0.791       | 0.800       | 0.786       |



Tested By: JCM                      Date: 10/28/13                      Input Checked By: KC                      Date: 11/20/13  
DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T1      | T2     | T3      |
|---------------------------------|---------|--------|---------|
| Tare Number                     | 560     | 560    | 560     |
| Weight of Tare & Wet Sample (g) | 161.29  | 161.29 | 161.29  |
| Weight of Tare & Dry Sample (g) | 142.44  | 142.44 | 142.44  |
| Weight of Tare (g)              | 82.61   | 82.61  | 82.61   |
| Moisture Content (%) (INITIAL)  | 31.51   | 31.51  | 31.51   |
|                                 |         |        |         |
| Tare Number                     | 528     | 610    | 51      |
| Weight of Tare & Wet Sample (g) | 1228.49 | 317.29 | 1299.84 |
| Weight of Tare & Dry Sample (g) | 955.28  | 261.65 | 1047.14 |
| Weight of Tare (g)              | 95.03   | 83.25  | 201.25  |
| Moisture Content (%) (FINAL)    | 31.76   | 31.19  | 29.87   |

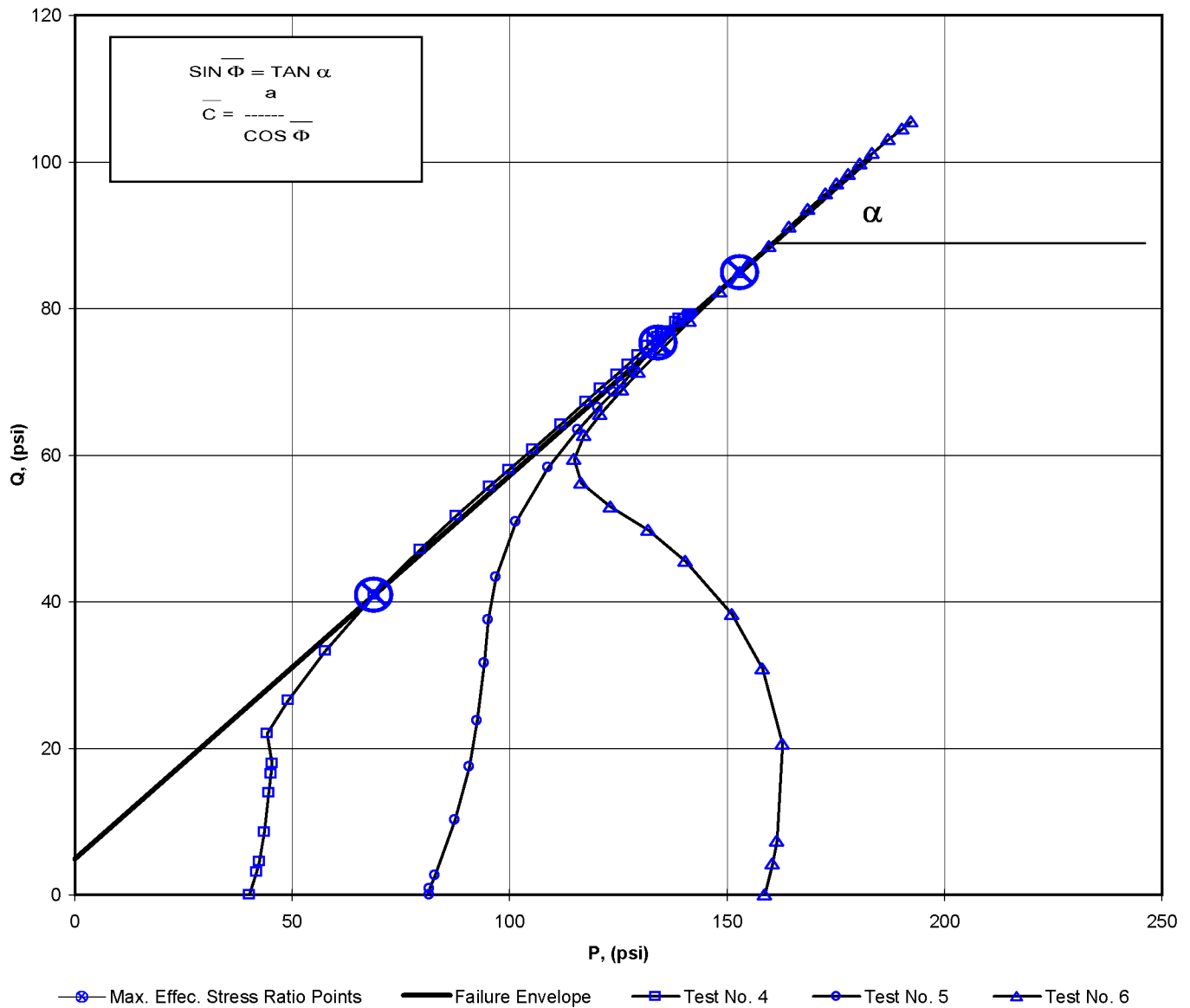
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1596.45             | 1583.7      | 1580.7      |
| Weight of Tube (g)                   | 412.68              | 414.3       | 418.13      |
| Weight of Wet Sample (g)             | 1183.77             | 1169.4      | 1162.57     |
| Length 1 (in)                        | 5.923               | 5.946       | 5.921       |
| Length 2 (in)                        | 5.923               | 5.948       | 5.903       |
| Length 3 (in)                        | 5.919               | 5.944       | 5.923       |
| Top Diameter (in)                    | 2.872               | 2.878       | 2.882       |
| Middle Diameter (in)                 | 2.884               | 2.875       | 2.878       |
| Bottom Diameter (in)                 | 2.88                | 2.875       | 2.879       |
| Average Length (in)                  | 5.921667            | 5.946       | 5.915667    |
| Average Area (in <sup>2</sup> )      | 6.508               | 6.496       | 6.513       |
| Sample Volume (cm <sup>3</sup> )     | 631.56              | 632.99      | 631.36      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.87                | 1.85        | 1.84        |
| Unit Wet Weight (pcf)                | 117.02              | 115.34      | 114.96      |
| Unit Dry Weight (pcf)                | 88.98               | 87.70       | 87.42       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.43                | 1.41        | 1.40        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>72</b>   |
| Final Burette Reading                | <b>34.1</b>         | <b>25.8</b> | <b>43.8</b> |
| Initial Dial Reading                 | <b>63</b>           | <b>56</b>   | <b>51</b>   |
| Dial Reading After Saturation        | <b>78</b>           | <b>63</b>   | <b>60</b>   |
| Dial Reading After Consolidation     | <b>112</b>          | <b>132</b>  | <b>142</b>  |
| Volume Change during Consolidation   | 13.9                | 22.2        | 28.2        |
| Volume Change during Saturation      | 4.80                | 2.24        | 2.88        |
| Volume at Shear (cm <sup>3</sup> )   | *These 612.87       | 608.55      | 600.28      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 342.27 | 338.11      | 336.14      |
| Volume of Voids (cm <sup>3</sup> )   | are all 270.60      | 270.44      | 264.14      |
| Volume of Water (cm <sup>3</sup> )   | at 285.89           | 277.34      | 264.10      |
| Void Ratio, e                        | shear 0.791         | 0.800       | 0.786       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 232.0-234.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

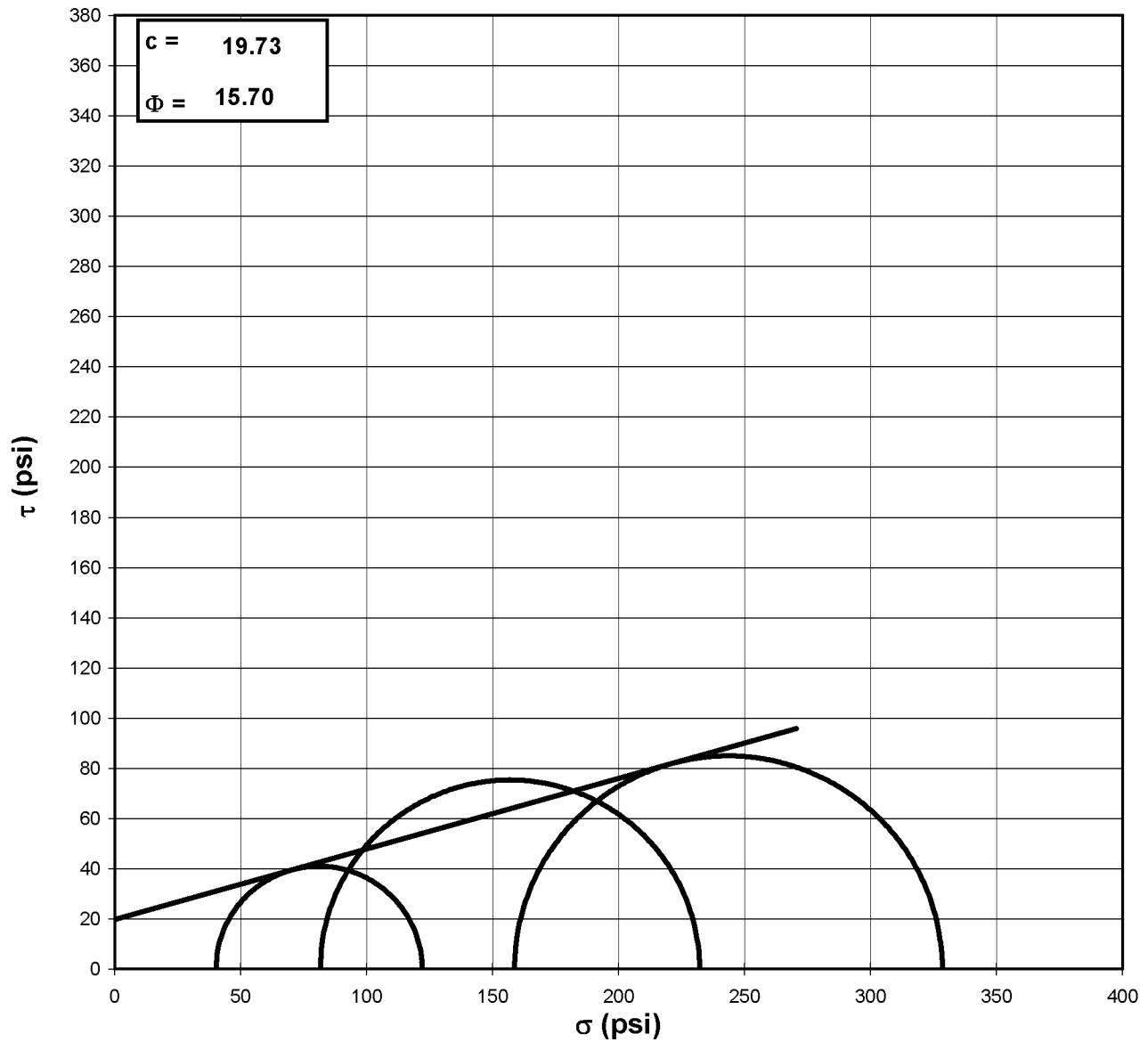


|                            |          |             |                                     |          |              |
|----------------------------|----------|-------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>4.93</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>5.78</b>  |
| <b><math>\alpha</math></b> | <b>=</b> | <b>27.6</b> | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>31.51</b> |

Tested By: JCM      Date: 10/29/13      Approved By: DB      Date: 11/20/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 232.0-234.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-7        |
| Lab ID:             | 2013-465-001-005                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 10/29/13      Approved By: DB      Date: 11/20/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1018

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 233.6-234.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 4 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.887 | Diameter 1: | 2.881 |
| Length 2:    | 5.889 | Diameter 2: | 2.868 |
| Length 3:    | 5.884 | Diameter 3: | 2.877 |
| Avg. Length: | 5.887 | Avg. Diam.: | 2.875 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 62.0 |
| Back Pressure (psi)        | 21.8 |
| Eff. Conf. Pressure (psi)  | 40.2 |
| Pore Pressure Response (%) | 100  |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 37.3 |
| Final Change (ml)            | 10.7 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |       |
|---|---|-------|
| P | = | 68.90 |
| Q | = | 40.95 |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 52 |
| Dial Reading After Saturation (mil)    | 58 |
| Dial Reading After Consolidation (mil) | 82 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 14.3         | 0.000               | 21.8                   |
| 54.0         | 0.001               | 23.2                   |
| 72.2         | 0.003               | 24.1                   |
| 123.8        | 0.006               | 26.9                   |
| 192.8        | 0.013               | 31.4                   |
| 226.0        | 0.017               | 33.4                   |
| 244.5        | 0.019               | 34.5                   |
| 297.5        | 0.034               | 39.8                   |
| 356.7        | 0.046               | 39.4                   |
| 444.4        | 0.065               | 37.7                   |
| 546.5        | 0.094               | 34.0                   |
| 630.3        | 0.129               | 29.7                   |
| 694.6        | 0.164               | 26.0                   |
| 752.9        | 0.204               | 22.4                   |
| 786.5        | 0.233               | 20.2                   |
| 830.3        | 0.274               | 17.5                   |
| 884.1        | 0.330               | 14.4                   |
| 936.4        | 0.389               | 11.8                   |
| 968.8        | 0.432               | 10.2                   |
| 1005.8       | 0.491               | 8.4                    |
| 1033.1       | 0.534               | 7.2                    |
| 1059.4       | 0.579               | 6.1                    |
| 1086.9       | 0.624               | 5.2                    |
| 1103.1       | 0.654               | 4.6                    |
| 1116.8       | 0.683               | 4.1                    |
| 1128.0       | 0.711               | 3.6                    |
| 1135.7       | 0.740               | 3.2                    |
| 1149.8       | 0.785               | 2.6                    |
| 1179.3       | 0.830               | 2.0                    |
| 1193.5       | 0.859               | 1.7                    |
| 1202.9       | 0.889               | 1.4                    |

Tested By: JCM      Date: 10/29/13      Input Checked By: KC      Date: 11/20/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1019

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 233.6-234.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |   |
|---|------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 40.2 | <i>Stage No.</i> | 1 |
|   |      | <i>Test No</i>   | 4 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.89  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.49  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.22 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.45 |
| Length After Consolidation (in)               | 5.86  |
| Area After Consolidation (in <sup>2</sup> )   | 6.395 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A     | P      | Q     |
|------------|------------------|--------|----------------|----------------|----------------------------------|-------|--------|-------|
| 0.02       | 6.21             | 1.43   | 44.98          | 38.8           | 1.160                            | 0.23  | 41.88  | 3.10  |
| 0.05       | 9.06             | 2.27   | 46.98          | 37.9           | 1.239                            | 0.25  | 42.45  | 4.53  |
| 0.11       | 17.10            | 5.12   | 52.18          | 35.1           | 1.487                            | 0.30  | 43.63  | 8.55  |
| 0.22       | 27.86            | 9.56   | 58.50          | 30.6           | 1.909                            | 0.34  | 44.57  | 13.93 |
| 0.28       | 33.01            | 11.64  | 61.57          | 28.6           | 2.156                            | 0.35  | 45.07  | 16.50 |
| 0.33       | 35.88            | 12.75  | 63.34          | 27.5           | 2.307                            | 0.36  | 45.40  | 17.94 |
| 0.57       | 44.03            | 18.03  | 66.19          | 22.2           | 2.986                            | 0.41  | 44.18  | 22.01 |
| 0.78       | 53.13            | 17.64  | 75.69          | 22.6           | 3.355                            | 0.33  | 49.12  | 26.56 |
| 1.11       | 66.51            | 15.85  | 90.86          | 24.3           | 3.732                            | 0.24  | 57.60  | 33.26 |
| 1.60       | 81.89            | 12.25  | 109.84         | 28.0           | 3.930                            | 0.15  | 68.90  | 40.95 |
| 2.20       | 94.21            | 7.94   | 126.47         | 32.3           | 3.920                            | 0.08  | 79.36  | 47.10 |
| 2.80       | 103.40           | 4.22   | 139.39         | 36.0           | 3.874                            | 0.04  | 87.69  | 51.70 |
| 3.48       | 111.47           | 0.59   | 151.08         | 39.6           | 3.814                            | 0.01  | 95.35  | 55.74 |
| 3.98       | 115.94           | -1.63  | 157.77         | 41.8           | 3.771                            | -0.01 | 99.80  | 57.97 |
| 4.68       | 121.62           | -4.33  | 166.16         | 44.5           | 3.731                            | -0.04 | 105.35 | 60.81 |
| 5.64       | 128.33           | -7.38  | 175.92         | 47.6           | 3.697                            | -0.06 | 111.75 | 64.17 |
| 6.64       | 134.62           | -9.99  | 184.81         | 50.2           | 3.682                            | -0.07 | 117.50 | 67.31 |
| 7.38       | 138.24           | -11.59 | 190.02         | 51.8           | 3.669                            | -0.08 | 120.91 | 69.12 |
| 8.38       | 142.04           | -13.40 | 195.64         | 53.6           | 3.650                            | -0.09 | 124.62 | 71.02 |
| 9.13       | 144.77           | -14.61 | 199.58         | 54.8           | 3.641                            | -0.10 | 127.19 | 72.38 |
| 9.88       | 147.28           | -15.68 | 203.16         | 55.9           | 3.636                            | -0.11 | 129.52 | 73.64 |
| 10.65      | 149.85           | -16.61 | 206.67         | 56.8           | 3.638                            | -0.11 | 131.74 | 74.93 |
| 11.16      | 151.25           | -17.17 | 208.63         | 57.4           | 3.636                            | -0.11 | 133.00 | 75.63 |
| 11.65      | 152.30           | -17.71 | 210.21         | 57.9           | 3.630                            | -0.12 | 134.06 | 76.15 |
| 12.14      | 153.00           | -18.21 | 211.41         | 58.4           | 3.619                            | -0.12 | 134.91 | 76.50 |
| 12.64      | 153.19           | -18.59 | 211.98         | 58.8           | 3.606                            | -0.12 | 135.39 | 76.60 |
| 13.41      | 153.75           | -19.22 | 213.17         | 59.4           | 3.588                            | -0.12 | 136.29 | 76.88 |
| 14.17      | 156.36           | -19.77 | 216.32         | 60.0           | 3.607                            | -0.13 | 138.15 | 78.18 |
| 14.67      | 157.33           | -20.09 | 217.62         | 60.3           | 3.610                            | -0.13 | 138.95 | 78.67 |
| 15.18      | 157.64           | -20.38 | 218.22         | 60.6           | 3.602                            | -0.13 | 139.40 | 78.82 |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 233.6-234.1 |
| Project No.      | 2013-465-001                  | Sample No. | ST-7        |
| Lab ID #         | 2013-465-001-005              | Test No.   | 4           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G318                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1.8-14                      |
| Cell Pressure Transducer | G836B                | 1/8/14                      |
| Pore Pressure Transducer | G836A                | 1/8/14                      |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1456                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | G1394                | 5/15/14                     |
| Oven                     | G1387                | 8/16/14                     |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 234.1-234.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 5 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.967 | Diameter 1: | 2.876 |
| Length 2:   | 5.964 | Diameter 2: | 2.870 |
| Length 3:   | 5.969 | Diameter 3: | 2.876 |
| Avg. Length | 5.967 | Avg. Diam.: | 2.874 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 102.9 |
| Back Pressure (psi)        | 21.3  |
| Eff. Conf. Pressure (psi)  | 81.6  |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 31.7 |
| Final Change (ml)            | 16.3 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |        |
|---|---|--------|
| P | = | 134.24 |
| Q | = | 75.30  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 66  |
| Dial Reading After Saturation (mil)    | 70  |
| Dial Reading After Consolidation (mil) | 115 |

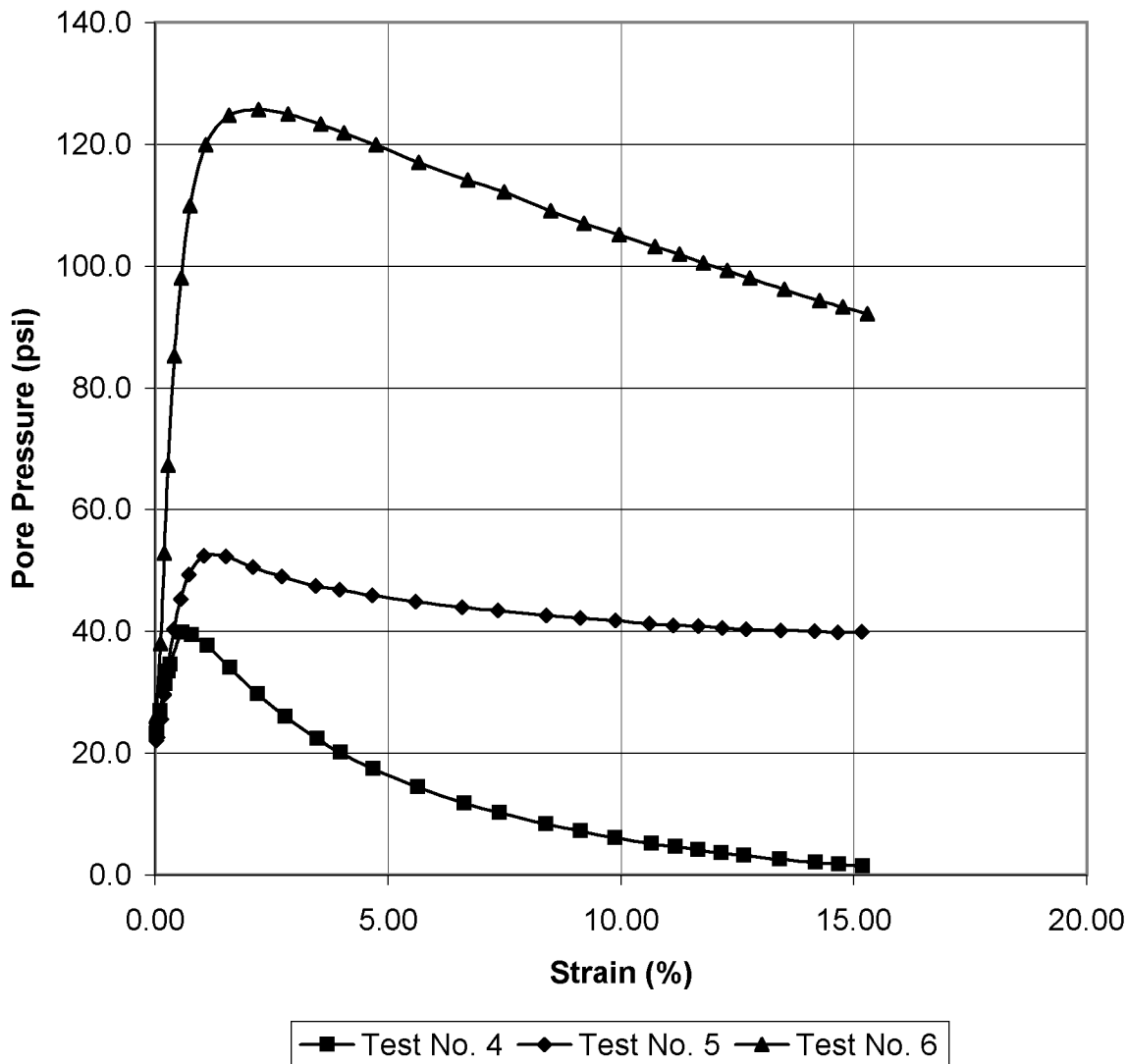
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 23.0         | 0.000               | 21.3                   |
| 33.3         | 0.002               | 22.1                   |
| 56.2         | 0.003               | 22.6                   |
| 153.0        | 0.008               | 25.6                   |
| 245.6        | 0.012               | 29.6                   |
| 326.0        | 0.017               | 34.1                   |
| 426.3        | 0.024               | 40.3                   |
| 502.3        | 0.033               | 45.2                   |
| 578.0        | 0.043               | 49.4                   |
| 677.4        | 0.062               | 52.4                   |
| 776.0        | 0.090               | 52.3                   |
| 847.0        | 0.124               | 50.6                   |
| 891.9        | 0.161               | 49.0                   |
| 926.1        | 0.204               | 47.5                   |
| 946.6        | 0.235               | 46.9                   |
| 976.7        | 0.276               | 45.9                   |
| 1017.9       | 0.331               | 44.9                   |
| 1048.3       | 0.390               | 44.0                   |
| 1062.2       | 0.436               | 43.4                   |
| 1091.7       | 0.497               | 42.6                   |
| 1115.1       | 0.541               | 42.2                   |
| 1132.4       | 0.585               | 41.8                   |
| 1150.3       | 0.628               | 41.3                   |
| 1156.1       | 0.659               | 40.9                   |
| 1159.5       | 0.690               | 40.8                   |
| 1164.8       | 0.720               | 40.5                   |
| 1177.1       | 0.751               | 40.4                   |
| 1187.7       | 0.795               | 40.2                   |
| 1194.9       | 0.838               | 40.0                   |
| 1204.5       | 0.868               | 39.8                   |
| 1210.1       | 0.898               | 39.9                   |

Tested By: JCM      Date: 10/29/13      Input Checked By: KC      Date: 11/20/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 232.0-234.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1023

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 234.1-234.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |   |
|---|------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 81.6 | <i>Stage No.</i> | 1 |
|   |      | <i>Test No</i>   | 5 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.97  |
| Initial Sample Diameter (in)             | 2.87  |
| Initial Sample Area (in <sup>2</sup> )   | 6.49  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.71 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.63 |
| Length After Consolidation (in)               | 5.92  |
| Area After Consolidation (in <sup>2</sup> )   | 6.360 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.03       | 1.62             | 0.78       | 82.44            | 80.8             | 1.020                            | 0.48      | 81.63     | 0.81  |
| 0.05       | 5.22             | 1.32       | 85.50            | 80.3             | 1.065                            | 0.25      | 82.89     | 2.61  |
| 0.13       | 20.41            | 4.29       | 97.72            | 77.3             | 1.264                            | 0.21      | 87.51     | 10.21 |
| 0.20       | 34.93            | 8.29       | 108.24           | 73.3             | 1.476                            | 0.24      | 90.78     | 17.46 |
| 0.28       | 47.51            | 12.82      | 116.29           | 68.8             | 1.691                            | 0.27      | 92.54     | 23.75 |
| 0.41       | 63.16            | 19.01      | 125.75           | 62.6             | 2.009                            | 0.30      | 94.17     | 31.58 |
| 0.55       | 74.94            | 23.94      | 132.60           | 57.7             | 2.300                            | 0.32      | 95.13     | 37.47 |
| 0.73       | 86.62            | 28.07      | 140.15           | 53.5             | 2.618                            | 0.32      | 96.84     | 43.31 |
| 1.05       | 101.81           | 31.08      | 152.33           | 50.5             | 3.015                            | 0.31      | 101.42    | 50.91 |
| 1.52       | 116.60           | 31.04      | 167.16           | 50.6             | 3.306                            | 0.27      | 108.86    | 58.30 |
| 2.10       | 126.84           | 29.29      | 179.15           | 52.3             | 3.425                            | 0.23      | 115.73    | 63.42 |
| 2.72       | 132.91           | 27.67      | 186.84           | 53.9             | 3.464                            | 0.21      | 120.39    | 66.45 |
| 3.45       | 137.10           | 26.20      | 192.50           | 55.4             | 3.475                            | 0.19      | 123.95    | 68.55 |
| 3.97       | 139.46           | 25.56      | 195.50           | 56.0             | 3.489                            | 0.18      | 125.77    | 69.73 |
| 4.66       | 142.96           | 24.57      | 200.00           | 57.0             | 3.507                            | 0.17      | 128.52    | 71.48 |
| 5.60       | 147.68           | 23.59      | 205.70           | 58.0             | 3.546                            | 0.16      | 131.86    | 73.84 |
| 6.59       | 150.60           | 22.66      | 209.54           | 58.9             | 3.555                            | 0.15      | 134.24    | 75.30 |
| 7.37       | 151.36           | 22.13      | 210.83           | 59.5             | 3.545                            | 0.15      | 135.15    | 75.68 |
| 8.40       | 153.93           | 21.33      | 214.20           | 60.3             | 3.554                            | 0.14      | 137.23    | 76.97 |
| 9.13       | 156.04           | 20.94      | 216.69           | 60.7             | 3.573                            | 0.13      | 138.67    | 78.02 |
| 9.88       | 157.19           | 20.45      | 218.34           | 61.1             | 3.571                            | 0.13      | 139.75    | 78.60 |
| 10.62      | 158.43           | 19.99      | 220.04           | 61.6             | 3.572                            | 0.13      | 140.83    | 79.22 |
| 11.13      | 158.34           | 19.64      | 220.30           | 62.0             | 3.556                            | 0.12      | 141.13    | 79.17 |
| 11.66      | 157.87           | 19.52      | 219.94           | 62.1             | 3.543                            | 0.12      | 141.01    | 78.93 |
| 12.17      | 157.68           | 19.24      | 220.04           | 62.4             | 3.528                            | 0.12      | 141.20    | 78.84 |
| 12.69      | 158.45           | 19.09      | 220.96           | 62.5             | 3.535                            | 0.12      | 141.73    | 79.22 |
| 13.44      | 158.53           | 18.86      | 221.26           | 62.7             | 3.527                            | 0.12      | 142.00    | 79.26 |
| 14.17      | 158.17           | 18.72      | 221.05           | 62.9             | 3.516                            | 0.12      | 141.96    | 79.09 |
| 14.66      | 158.54           | 18.55      | 221.59           | 63.1             | 3.514                            | 0.12      | 142.32    | 79.27 |
| 15.17      | 158.33           | 18.63      | 221.30           | 63.0             | 3.515                            | 0.12      | 142.13    | 79.17 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 234.1-234.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-7        |
| Lab ID #         | 2013-465-001-005              | Test No.   | 5           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G256                 | 10/12/14                    |
| Balance                  | G1043                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G317                 | INITIAL ONLY                |
| Load Cell                | G1437                | 1/7/14                      |
| Cell Pressure Transducer | G1438                | 1/7/14                      |
| Pore Pressure Transducer | G1439                | 1/7/14                      |
| Extensometer             | G1440                | 1/7/14                      |
| Load Frame               | G1434                | 1/7/14                      |
| Dial Indicator           | G456                 | 2/13/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | G1395                | 6/4/14                      |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**  
ASTM D4767-11



A-1025

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 233.1-233.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |   |
|-----------|---|
| Stage No. | 1 |
| Test No.  | 6 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.803 | Diameter 1: | 2.891 |
| Length 2:    | 5.795 | Diameter 2: | 2.883 |
| Length 3:    | 5.800 | Diameter 3: | 2.882 |
| Avg. Length: | 5.799 | Avg. Diam.: | 2.885 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 180.2 |
| Back Pressure (psi)        | 21.5  |
| Eff. Conf. Pressure (psi)  | 158.7 |
| Pore Pressure Response (%) | 98    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 72.0 |
| Final Burette Reading (ml)   | 51.6 |
| Final Change (ml)            | 20.4 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 152.98 |
| Q         | = | 84.89  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 52  |
| Dial Reading After Saturation (mil)    | 56  |
| Dial Reading After Consolidation (mil) | 129 |

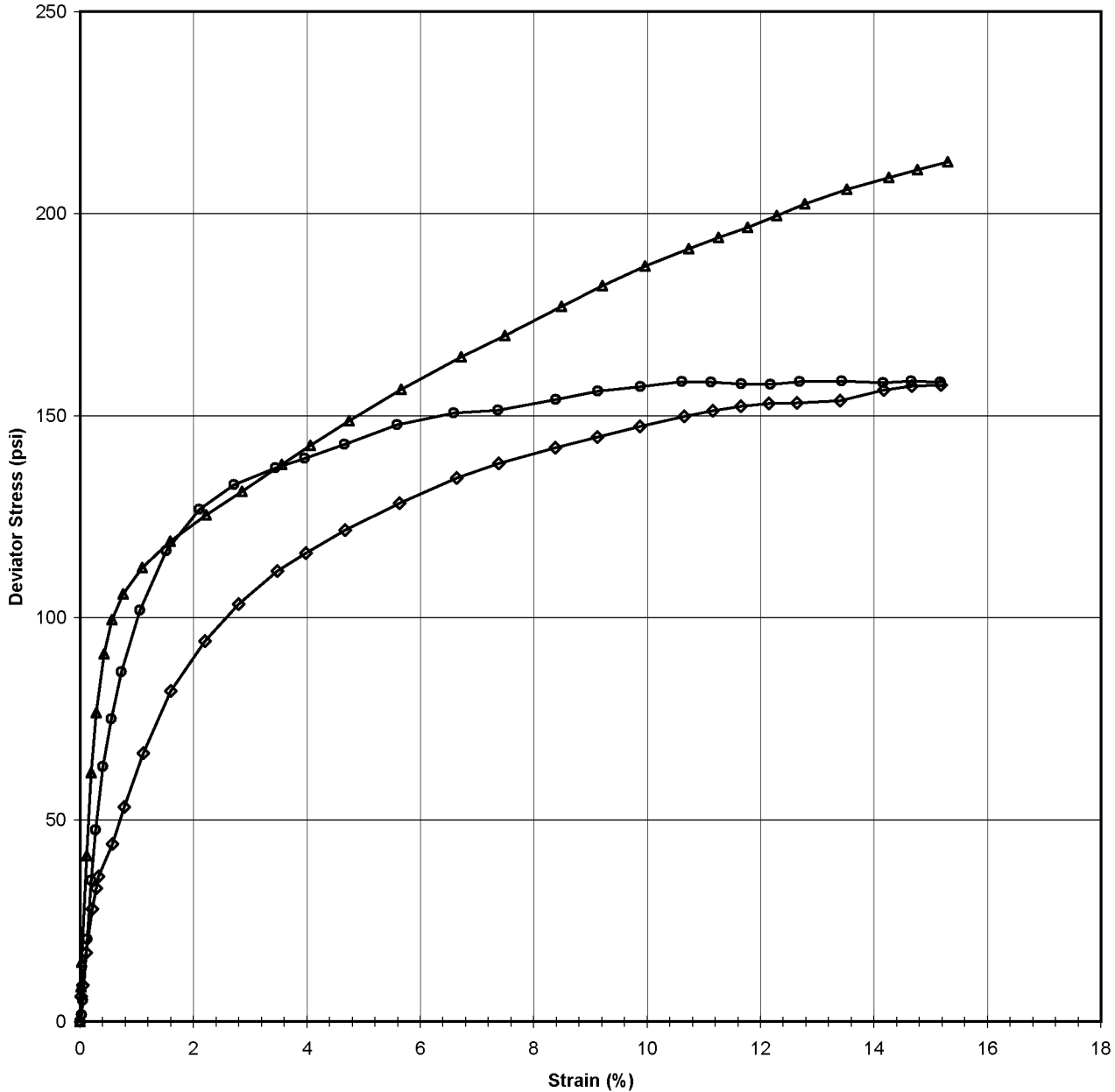
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 34.6         | 0.000               | 21.5                   |
| 89.2         | 0.001               | 23.9                   |
| 128.2        | 0.002               | 26.0                   |
| 297.7        | 0.007               | 37.9                   |
| 429.7        | 0.012               | 52.8                   |
| 525.0        | 0.016               | 67.3                   |
| 619.0        | 0.024               | 85.3                   |
| 674.5        | 0.032               | 98.0                   |
| 716.4        | 0.043               | 109.9                  |
| 761.1        | 0.063               | 119.9                  |
| 806.9        | 0.091               | 124.8                  |
| 854.8        | 0.127               | 125.7                  |
| 898.2        | 0.164               | 124.9                  |
| 948.7        | 0.204               | 123.3                  |
| 985.1        | 0.232               | 121.9                  |
| 1033.0       | 0.272               | 119.8                  |
| 1095.6       | 0.324               | 117.0                  |
| 1162.9       | 0.385               | 114.1                  |
| 1208.4       | 0.429               | 112.1                  |
| 1271.6       | 0.486               | 109.0                  |
| 1318.0       | 0.527               | 106.9                  |
| 1363.0       | 0.570               | 105.1                  |
| 1404.8       | 0.614               | 103.1                  |
| 1433.4       | 0.644               | 101.9                  |
| 1460.0       | 0.674               | 100.5                  |
| 1489.0       | 0.703               | 99.3                   |
| 1518.3       | 0.731               | 98.0                   |
| 1558.5       | 0.774               | 96.1                   |
| 1593.1       | 0.816               | 94.3                   |
| 1617.1       | 0.845               | 93.3                   |
| 1641.4       | 0.875               | 92.1                   |

Tested By: JCM      Date: 10/29/13      Input Checked By: KC      Date: 11/20/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 232.0-234.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-7        |
| Lab ID:             | 2013-465-001-005                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 4                      ● Test No. 5                      ▲ Test No. 6

E50 Test No. 4    8508.856                      E50 Test No. 5    13547.34                      E50 Test No. 6    23276.7

Tested By: JCM                      Date: 10/29/13                      Approved By: DB                      Date: 11/20/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1027

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 233.1-233.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-7        |
| Lab ID:           | 2013-465-001-005              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |   |
|---|-------|------------------|---|
| <i>Effective Confining Pressure (psi)</i> | 158.7 | <i>Stage No.</i> | 1 |
|   |       | <i>Test No</i>   | 6 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.80  |
| Initial Sample Diameter (in)             | 2.89  |
| Initial Sample Area (in <sup>2</sup> )   | 6.54  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.92 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.60 |
| Length After Consolidation (in)               | 5.72  |
| Area After Consolidation (in <sup>2</sup> )   | 6.395 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q      |
|------------|------------------|--------|----------------|----------------|----------------------------------|------|--------|--------|
| 0.02       | 8.54             | 2.42   | 164.82         | 156.3          | 1.055                            | 0.29 | 160.55 | 4.27   |
| 0.03       | 14.64            | 4.49   | 168.85         | 154.2          | 1.095                            | 0.31 | 161.53 | 7.32   |
| 0.12       | 41.09            | 16.44  | 183.35         | 142.3          | 1.289                            | 0.41 | 162.80 | 20.55  |
| 0.20       | 61.65            | 31.30  | 189.05         | 127.4          | 1.484                            | 0.52 | 158.22 | 30.83  |
| 0.29       | 76.46            | 45.77  | 189.39         | 112.9          | 1.677                            | 0.61 | 151.16 | 38.23  |
| 0.42       | 90.99            | 63.76  | 185.93         | 94.9           | 1.958                            | 0.72 | 140.43 | 45.50  |
| 0.57       | 99.49            | 76.51  | 181.67         | 82.2           | 2.211                            | 0.78 | 131.93 | 49.74  |
| 0.76       | 105.80           | 88.37  | 176.12         | 70.3           | 2.504                            | 0.85 | 123.23 | 52.90  |
| 1.10       | 112.36           | 98.38  | 172.68         | 60.3           | 2.863                            | 0.89 | 116.50 | 56.18  |
| 1.59       | 118.84           | 103.28 | 174.26         | 55.4           | 3.144                            | 0.89 | 114.84 | 59.42  |
| 2.23       | 125.39           | 104.21 | 179.88         | 54.5           | 3.301                            | 0.85 | 117.19 | 62.70  |
| 2.86       | 131.18           | 103.43 | 186.44         | 55.3           | 3.374                            | 0.80 | 120.85 | 65.59  |
| 3.56       | 137.84           | 101.77 | 194.78         | 56.9           | 3.421                            | 0.75 | 125.85 | 68.92  |
| 4.06       | 142.60           | 100.39 | 200.91         | 58.3           | 3.445                            | 0.72 | 129.61 | 71.30  |
| 4.74       | 148.71           | 98.35  | 209.07         | 60.4           | 3.464                            | 0.67 | 134.71 | 74.36  |
| 5.67       | 156.50           | 95.52  | 219.69         | 63.2           | 3.477                            | 0.62 | 141.44 | 78.25  |
| 6.72       | 164.57           | 92.63  | 230.64         | 66.1           | 3.491                            | 0.57 | 148.36 | 82.28  |
| 7.49       | 169.79           | 90.62  | 237.87         | 68.1           | 3.494                            | 0.54 | 152.98 | 84.89  |
| 8.49       | 176.99           | 87.51  | 248.18         | 71.2           | 3.486                            | 0.50 | 159.68 | 88.50  |
| 9.21       | 182.19           | 85.44  | 255.45         | 73.3           | 3.487                            | 0.48 | 164.36 | 91.09  |
| 9.96       | 187.02           | 83.58  | 262.14         | 75.1           | 3.490                            | 0.46 | 168.63 | 93.51  |
| 10.74      | 191.25           | 81.64  | 268.32         | 77.1           | 3.482                            | 0.44 | 172.69 | 95.63  |
| 11.26      | 194.10           | 80.41  | 272.38         | 78.3           | 3.479                            | 0.42 | 175.33 | 97.05  |
| 11.78      | 196.64           | 79.03  | 276.31         | 79.7           | 3.468                            | 0.41 | 177.99 | 98.32  |
| 12.29      | 199.48           | 77.80  | 280.38         | 80.9           | 3.466                            | 0.40 | 180.64 | 99.74  |
| 12.78      | 202.36           | 76.48  | 284.58         | 82.2           | 3.461                            | 0.39 | 183.40 | 101.18 |
| 13.52      | 206.08           | 74.63  | 290.15         | 84.1           | 3.451                            | 0.37 | 187.11 | 103.04 |
| 14.27      | 208.92           | 72.77  | 294.86         | 85.9           | 3.431                            | 0.36 | 190.39 | 104.46 |
| 14.77      | 210.89           | 71.79  | 297.80         | 86.9           | 3.427                            | 0.35 | 192.35 | 105.45 |
| 15.30      | 212.81           | 70.60  | 300.91         | 88.1           | 3.415                            | 0.34 | 194.51 | 106.40 |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 233.1-233.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-7        |
| Lab ID #         | 2013-465-001-005              | Test No.   | 6           |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G307                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G150                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1511-1              | 1/7/14                      |

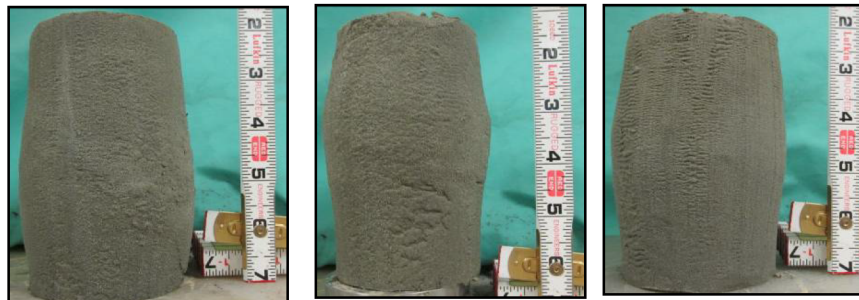
**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-005                      Specific Gravity (measured)                      2.65

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 233.6-234.1 | 234.1-234.6 | 233.1-233.6 |
| Sample No.:                    | ST-7        | ST-7        | ST-7        |
| Test No.                       | T4          | T5          | T6          |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.8        | 21.3        | 21.5        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 19.7        | 19.7        | 19.7        |
| Total Unit Weight (pcf)        | 121.4       | 122.0       | 119.5       |
| Dry Unit Weight (pcf)          | 101.5       | 101.9       | 99.8        |
| Moisture Content (%) (FINAL)   | 27.1        | 25.2        | 27.3        |
| Initial State Void Ratio, e    | 0.631       | 0.623       | 0.657       |
| Void Ratio at Shear, e         | 0.598       | 0.579       | 0.600       |



Tested By: JCM                      Date: 10/29/13                      Input Checked By: KC                      Date: 11/20/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T4     | T5      | T6      |
|---------------------------------|--------|---------|---------|
| Tare Number                     | 538    | 538     | 538     |
| Weight of Tare & Wet Sample (g) | 205.89 | 205.89  | 205.89  |
| Weight of Tare & Dry Sample (g) | 185.49 | 185.49  | 185.49  |
| Weight of Tare (g)              | 81.93  | 81.93   | 81.93   |
| Moisture Content (%) (INITIAL)  | 19.70  | 19.70   | 19.70   |
| Tare Number                     | 592    | 631     | 54      |
| Weight of Tare & Wet Sample (g) | 221.82 | 1296.87 | 1357.85 |
| Weight of Tare & Dry Sample (g) | 191.91 | 1055.55 | 1110.54 |
| Weight of Tare (g)              | 81.39  | 98.34   | 204.81  |
| Moisture Content (%) (FINAL)    | 27.06  | 25.21   | 27.31   |

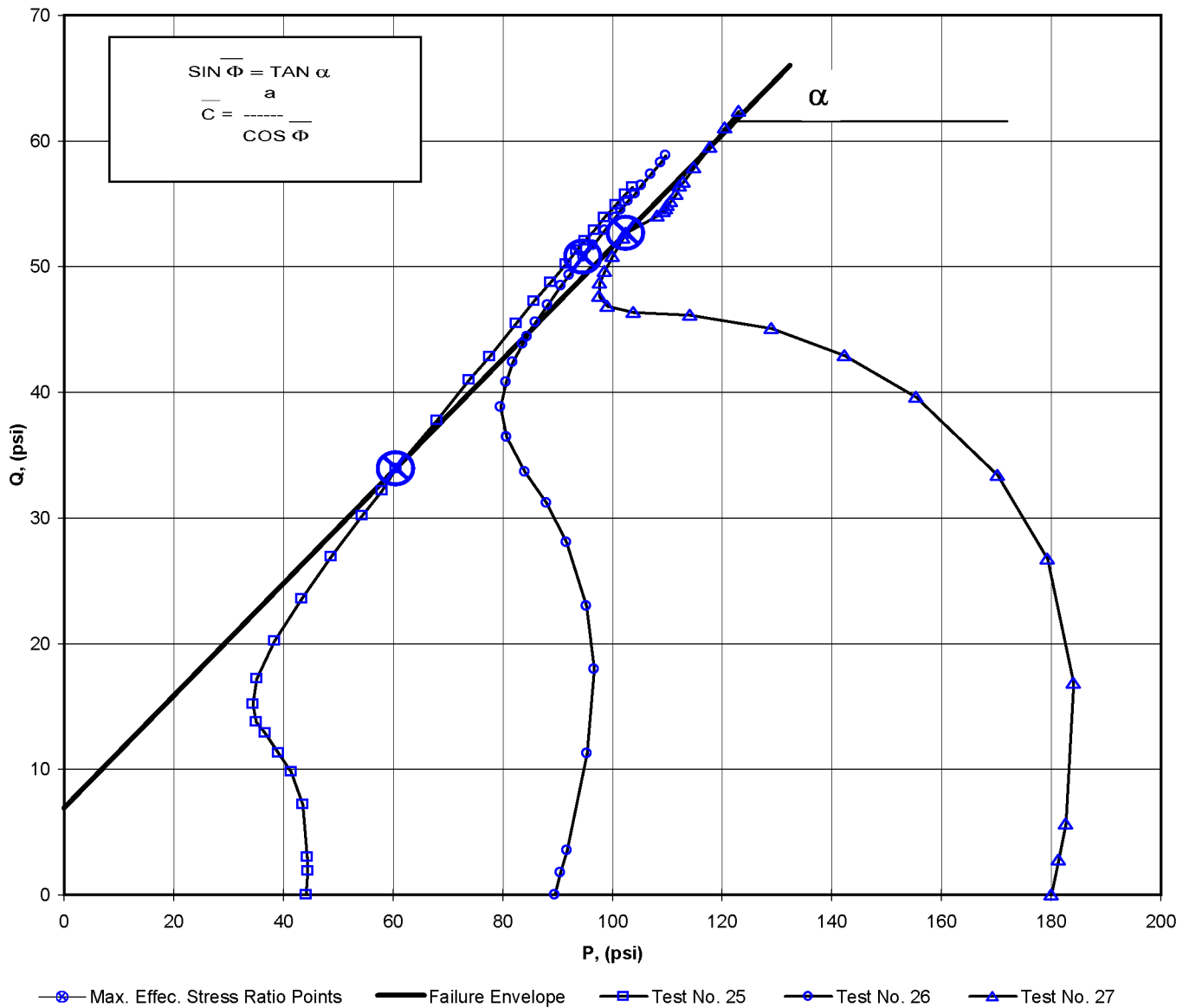
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1628.58             | 1658.93     | 1591.73     |
| Weight of Tube (g)                   | 410.19              | 419.73      | 402.45      |
| Weight of Wet Sample (g)             | 1218.39             | 1239.2      | 1189.28     |
| Length 1 (in)                        | 5.887               | 5.967       | 5.803       |
| Length 2 (in)                        | 5.889               | 5.964       | 5.795       |
| Length 3 (in)                        | 5.884               | 5.969       | 5.8         |
| Top Diameter (in)                    | 2.881               | 2.876       | 2.891       |
| Middle Diameter (in)                 | 2.868               | 2.87        | 2.883       |
| Bottom Diameter (in)                 | 2.877               | 2.876       | 2.882       |
| Average Length (in)                  | 5.886667            | 5.966667    | 5.799333    |
| Average Area (in <sup>2</sup> )      | 6.493               | 6.487       | 6.539       |
| Sample Volume (cm <sup>3</sup> )     | 626.38              | 634.30      | 621.39      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.95                | 1.95        | 1.91        |
| Unit Wet Weight (pcf)                | 121.43              | 121.97      | 119.49      |
| Unit Dry Weight (pcf)                | 101.45              | 101.89      | 99.82       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.63                | 1.63        | 1.60        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>72</b>   |
| Final Burette Reading                | <b>37.3</b>         | <b>31.7</b> | <b>51.6</b> |
| Initial Dial Reading                 | <b>52</b>           | <b>66</b>   | <b>52</b>   |
| Dial Reading After Saturation        | <b>58</b>           | <b>70</b>   | <b>56</b>   |
| Dial Reading After Consolidation     | <b>82</b>           | <b>115</b>  | <b>129</b>  |
| Volume Change during Consolidation   | 10.7                | 16.3        | 20.4        |
| Volume Change during Saturation      | 1.92                | 1.28        | 1.29        |
| Volume at Shear (cm <sup>3</sup> )   | *These 613.76       | 616.73      | 599.70      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 384.11 | 390.67      | 374.93      |
| Volume of Voids (cm <sup>3</sup> )   | are all 229.66      | 226.06      | 224.77      |
| Volume of Water (cm <sup>3</sup> )   | at 275.47           | 261.00      | 271.29      |
| Void Ratio, e                        | shear 0.598         | 0.579       | 0.600       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 255.0-257.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

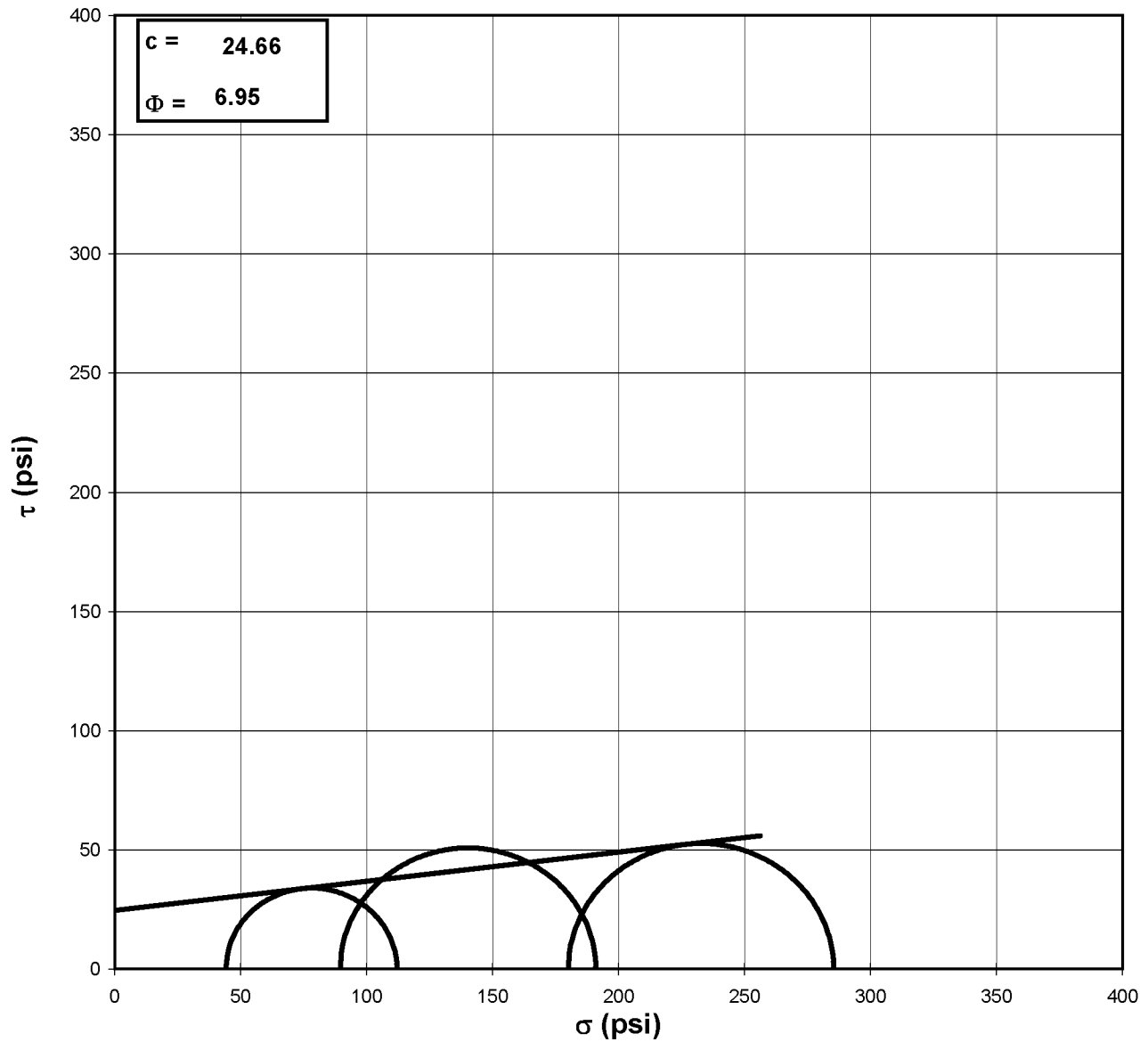


|                            |          |             |                                     |          |              |
|----------------------------|----------|-------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>6.91</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>7.72</b>  |
| <b><math>\alpha</math></b> | <b>=</b> | <b>24.1</b> | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>26.52</b> |

Tested By: JCM      Date: 11/10/13      Approved By: DB      Date: 12/3/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 255.0-257.5 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-9        |
| Lab ID:             | 2013-465-001-007                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/10/13      Approved By: DB      Date: 12/3/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 256.4-256.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 25 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.926 | Diameter 1: | 2.881 |
| Length 2:    | 5.927 | Diameter 2: | 2.878 |
| Length 3:    | 5.928 | Diameter 3: | 2.883 |
| Avg. Length: | 5.927 | Avg. Diam.: | 2.881 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 66.2 |
| Back Pressure (psi)        | 22.0 |
| Eff. Conf. Pressure (psi)  | 44.2 |
| Pore Pressure Response (%) | 99   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 34.1 |
| Final Change (ml)            | 13.9 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |       |
|-----------|---|-------|
| $\bar{P}$ | = | 60.53 |
| Q         | = | 33.93 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 59  |
| Dial Reading After Saturation (mil)    | 74  |
| Dial Reading After Consolidation (mil) | 117 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 11.3         | 0.000               | 22.0                   |
| 35.3         | 0.001               | 23.6                   |
| 49.7         | 0.002               | 24.9                   |
| 103.1        | 0.007               | 29.9                   |
| 136.7        | 0.012               | 34.6                   |
| 155.9        | 0.018               | 38.4                   |
| 176.7        | 0.026               | 42.4                   |
| 188.2        | 0.036               | 44.9                   |
| 206.4        | 0.047               | 46.9                   |
| 233.9        | 0.069               | 48.3                   |
| 274.0        | 0.099               | 48.0                   |
| 319.2        | 0.135               | 46.4                   |
| 365.0        | 0.170               | 44.4                   |
| 410.9        | 0.210               | 41.9                   |
| 439.7        | 0.239               | 40.3                   |
| 466.5        | 0.280               | 39.6                   |
| 523.4        | 0.338               | 35.9                   |
| 572.6        | 0.398               | 33.2                   |
| 602.9        | 0.441               | 31.4                   |
| 646.2        | 0.500               | 29.2                   |
| 676.3        | 0.545               | 27.7                   |
| 703.6        | 0.591               | 26.3                   |
| 730.7        | 0.636               | 24.9                   |
| 750.6        | 0.665               | 24.0                   |
| 765.3        | 0.694               | 23.2                   |
| 782.1        | 0.724               | 22.3                   |
| 801.3        | 0.753               | 21.5                   |
| 823.7        | 0.799               | 20.4                   |
| 843.0        | 0.845               | 19.6                   |
| 856.7        | 0.875               | 18.8                   |
| 871.4        | 0.905               | 18.1                   |

Tested By: JCM      Date: 11/10/13      Input Checked By: KC      Date: 12/3/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1034

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 256.4-256.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 44.2 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 25 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.93  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.52  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.63 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.49 |
| Length After Consolidation (in)               | 5.87  |
| Area After Consolidation (in <sup>2</sup> )   | 6.387 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.02       | 3.76             | 1.65       | 46.31            | 42.6             | 1.088                            | 0.44      | 44.43     | 1.88  |
| 0.04       | 6.01             | 2.85       | 47.36            | 41.3             | 1.145                            | 0.48      | 44.35     | 3.00  |
| 0.12       | 14.35            | 7.87       | 50.69            | 36.3             | 1.395                            | 0.55      | 43.51     | 7.18  |
| 0.20       | 19.59            | 12.58      | 51.20            | 31.6             | 1.619                            | 0.65      | 41.41     | 9.79  |
| 0.30       | 22.57            | 16.37      | 50.40            | 27.8             | 1.811                            | 0.73      | 39.12     | 11.28 |
| 0.45       | 25.77            | 20.38      | 49.60            | 23.8             | 2.082                            | 0.80      | 36.71     | 12.89 |
| 0.61       | 27.52            | 22.93      | 48.79            | 21.3             | 2.294                            | 0.84      | 35.03     | 13.76 |
| 0.80       | 30.31            | 24.87      | 49.64            | 19.3             | 2.568                            | 0.83      | 34.48     | 15.15 |
| 1.18       | 34.44            | 26.26      | 52.38            | 17.9             | 2.920                            | 0.77      | 35.16     | 17.22 |
| 1.69       | 40.43            | 26.03      | 58.60            | 18.2             | 3.226                            | 0.65      | 38.38     | 20.22 |
| 2.29       | 47.11            | 24.43      | 66.88            | 19.8             | 3.382                            | 0.52      | 43.33     | 23.55 |
| 2.89       | 53.78            | 22.36      | 75.61            | 21.8             | 3.463                            | 0.42      | 48.72     | 26.89 |
| 3.58       | 60.31            | 19.94      | 84.57            | 24.3             | 3.486                            | 0.33      | 54.42     | 30.16 |
| 4.07       | 64.35            | 18.33      | 90.21            | 25.9             | 3.488                            | 0.29      | 58.04     | 32.17 |
| 4.77       | 67.87            | 17.60      | 94.47            | 26.6             | 3.551                            | 0.26      | 60.53     | 33.93 |
| 5.76       | 75.56            | 13.94      | 105.82           | 30.3             | 3.497                            | 0.19      | 68.04     | 37.78 |
| 6.77       | 81.92            | 11.25      | 114.88           | 33.0             | 3.486                            | 0.14      | 73.91     | 40.96 |
| 7.52       | 85.65            | 9.43       | 120.42           | 34.8             | 3.464                            | 0.11      | 77.59     | 42.83 |
| 8.52       | 90.93            | 7.23       | 127.91           | 37.0             | 3.459                            | 0.08      | 82.44     | 45.47 |
| 9.28       | 94.46            | 5.68       | 132.98           | 38.5             | 3.452                            | 0.06      | 85.75     | 47.23 |
| 10.06      | 97.48            | 4.25       | 137.43           | 39.9             | 3.440                            | 0.04      | 88.69     | 48.74 |
| 10.84      | 100.42           | 2.89       | 141.73           | 41.3             | 3.431                            | 0.03      | 91.52     | 50.21 |
| 11.34      | 102.63           | 2.03       | 144.80           | 42.2             | 3.433                            | 0.02      | 93.49     | 51.31 |
| 11.83      | 104.07           | 1.19       | 147.08           | 43.0             | 3.420                            | 0.01      | 95.05     | 52.04 |
| 12.33      | 105.80           | 0.35       | 149.65           | 43.9             | 3.413                            | 0.00      | 96.75     | 52.90 |
| 12.83      | 107.81           | -0.45      | 152.47           | 44.7             | 3.415                            | 0.00      | 98.56     | 53.91 |
| 13.61      | 109.87           | -1.57      | 155.64           | 45.8             | 3.401                            | -0.01     | 100.70    | 54.94 |
| 14.39      | 111.47           | -2.44      | 158.10           | 46.6             | 3.390                            | -0.02     | 102.37    | 55.73 |
| 14.90      | 112.63           | -3.18      | 160.00           | 47.4             | 3.377                            | -0.03     | 103.69    | 56.31 |
| 15.41      | 113.91           | -3.86      | 161.96           | 48.1             | 3.370                            | -0.03     | 105.01    | 56.95 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 256.4-256.9 |
| Project No.      | 2013-465-001                  | Sample No. | ST-9        |
| Lab ID #         | 2013-465-001-007              | Test No.   | 25          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G318                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G546                 | 2/13/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 256.9-257.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 26 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.952 | Diameter 1: | 2.876 |
| Length 2:   | 5.945 | Diameter 2: | 2.878 |
| Length 3:   | 5.943 | Diameter 3: | 2.880 |
| Avg. Length | 5.947 | Avg. Diam.: | 2.878 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 111.3 |
| Back Pressure (psi)        | 21.8  |
| Eff. Conf. Pressure (psi)  | 89.5  |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 30.5 |
| Final Change (ml)            | 17.5 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |       |
|---|---|-------|
| P | = | 94.73 |
| Q | = | 50.75 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 52  |
| Dial Reading After Saturation (mil)    | 58  |
| Dial Reading After Consolidation (mil) | 110 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 20.0         | 0.000               | 21.8                   |
| 42.3         | 0.001               | 22.5                   |
| 64.9         | 0.002               | 23.1                   |
| 163.5        | 0.006               | 27.2                   |
| 248.8        | 0.011               | 32.5                   |
| 313.7        | 0.016               | 39.0                   |
| 378.7        | 0.024               | 47.7                   |
| 419.1        | 0.032               | 54.5                   |
| 452.0        | 0.044               | 60.9                   |
| 489.0        | 0.064               | 67.0                   |
| 522.2        | 0.093               | 70.4                   |
| 551.4        | 0.129               | 71.5                   |
| 575.7        | 0.166               | 71.9                   |
| 598.8        | 0.208               | 71.5                   |
| 609.4        | 0.238               | 71.2                   |
| 628.9        | 0.279               | 70.8                   |
| 654.0        | 0.335               | 70.0                   |
| 681.8        | 0.395               | 69.1                   |
| 698.7        | 0.441               | 68.4                   |
| 726.3        | 0.499               | 67.3                   |
| 745.6        | 0.544               | 66.5                   |
| 768.4        | 0.589               | 65.5                   |
| 788.9        | 0.633               | 64.7                   |
| 802.7        | 0.663               | 64.2                   |
| 816.9        | 0.693               | 63.6                   |
| 830.3        | 0.723               | 62.9                   |
| 844.2        | 0.753               | 62.5                   |
| 864.2        | 0.796               | 61.6                   |
| 885.8        | 0.841               | 60.7                   |
| 899.4        | 0.871               | 60.3                   |
| 912.6        | 0.901               | 59.7                   |

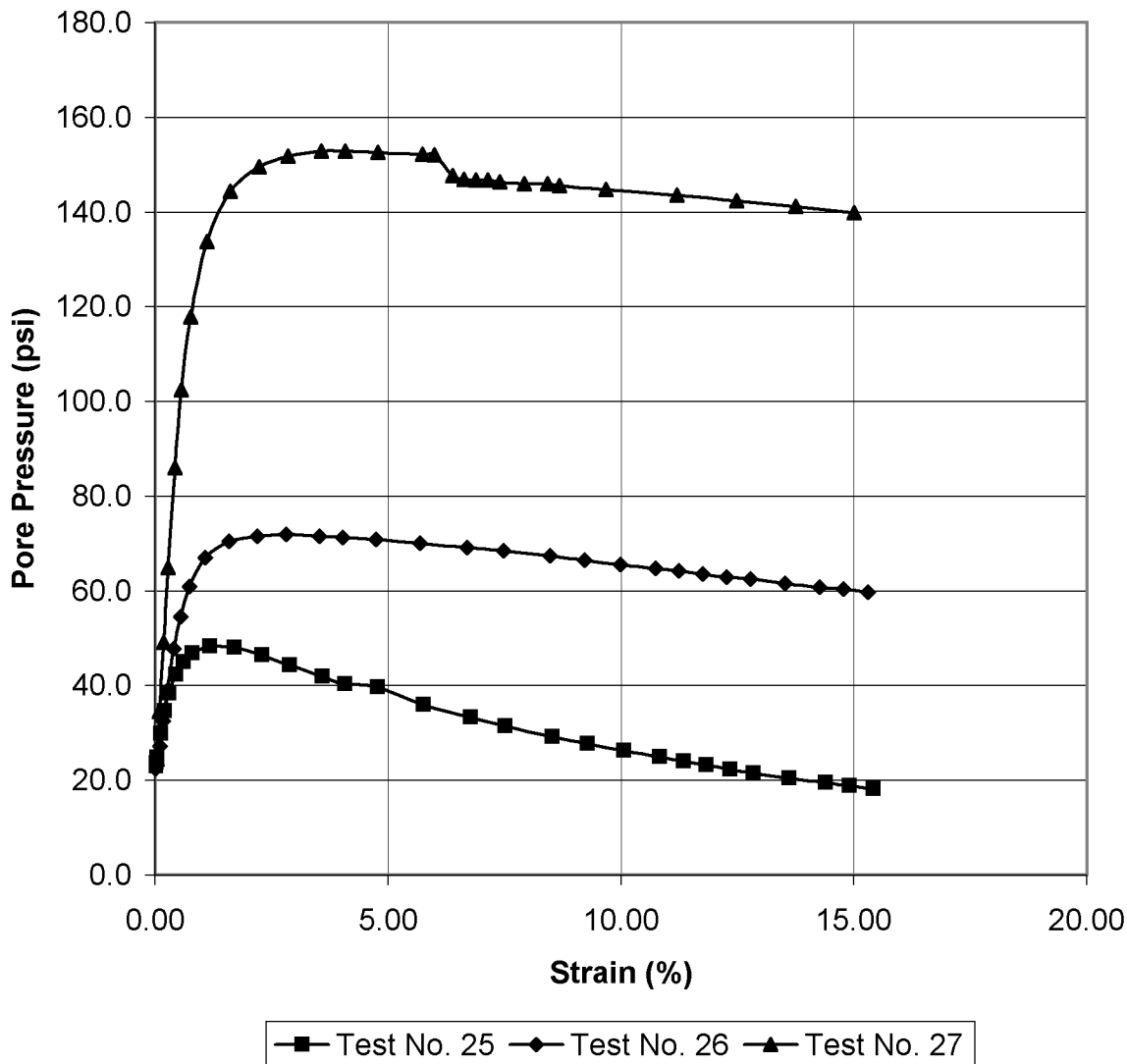
Tested By: JCM      Date: 11/10/13      Input Checked By: KC      Date: 12/3/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 255.0-257.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1038

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 256.9-257.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 89.5 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 26 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.95  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.69 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.50 |
| Length After Consolidation (in)               | 5.89  |
| Area After Consolidation (in <sup>2</sup> )   | 6.368 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.02       | 3.51             | 0.68       | 92.32            | 88.8             | 1.039                            | 0.19      | 90.57     | 1.75  |
| 0.03       | 7.05             | 1.29       | 95.26            | 88.2             | 1.080                            | 0.18      | 91.74     | 3.53  |
| 0.10       | 22.52            | 5.38       | 106.64           | 84.1             | 1.268                            | 0.24      | 95.38     | 11.26 |
| 0.18       | 35.86            | 10.74      | 114.63           | 78.8             | 1.455                            | 0.30      | 96.69     | 17.93 |
| 0.27       | 46.00            | 17.20      | 118.30           | 72.3             | 1.636                            | 0.37      | 95.30     | 23.00 |
| 0.41       | 56.10            | 25.92      | 119.68           | 63.6             | 1.882                            | 0.46      | 91.63     | 28.05 |
| 0.55       | 62.33            | 32.66      | 119.17           | 56.8             | 2.096                            | 0.52      | 88.00     | 31.16 |
| 0.74       | 67.33            | 39.11      | 117.72           | 50.4             | 2.336                            | 0.58      | 84.05     | 33.67 |
| 1.08       | 72.85            | 45.15      | 117.20           | 44.3             | 2.643                            | 0.62      | 80.77     | 36.43 |
| 1.58       | 77.61            | 48.65      | 118.46           | 40.9             | 2.900                            | 0.63      | 79.66     | 38.81 |
| 2.20       | 81.61            | 49.71      | 121.40           | 39.8             | 3.051                            | 0.61      | 80.60     | 40.81 |
| 2.82       | 84.79            | 50.06      | 124.23           | 39.4             | 3.150                            | 0.59      | 81.83     | 42.40 |
| 3.53       | 87.68            | 49.66      | 127.52           | 39.8             | 3.201                            | 0.57      | 83.68     | 43.84 |
| 4.04       | 88.81            | 49.41      | 128.90           | 40.1             | 3.215                            | 0.56      | 84.49     | 44.41 |
| 4.74       | 91.09            | 49.02      | 131.57           | 40.5             | 3.250                            | 0.54      | 86.02     | 45.54 |
| 5.69       | 93.90            | 48.18      | 135.22           | 41.3             | 3.272                            | 0.51      | 88.27     | 46.95 |
| 6.71       | 96.95            | 47.28      | 139.16           | 42.2             | 3.297                            | 0.49      | 90.69     | 48.47 |
| 7.48       | 98.60            | 46.61      | 141.50           | 42.9             | 3.299                            | 0.47      | 92.19     | 49.30 |
| 8.48       | 101.51           | 45.53      | 145.48           | 44.0             | 3.308                            | 0.45      | 94.73     | 50.75 |
| 9.23       | 103.42           | 44.68      | 148.24           | 44.8             | 3.307                            | 0.43      | 96.53     | 51.71 |
| 10.00      | 105.78           | 43.74      | 151.54           | 45.8             | 3.312                            | 0.41      | 98.65     | 52.89 |
| 10.75      | 107.76           | 42.87      | 154.39           | 46.6             | 3.311                            | 0.40      | 100.51    | 53.88 |
| 11.25      | 109.08           | 42.42      | 156.15           | 47.1             | 3.317                            | 0.39      | 101.61    | 54.54 |
| 11.77      | 110.41           | 41.78      | 158.13           | 47.7             | 3.314                            | 0.38      | 102.93    | 55.21 |
| 12.28      | 111.62           | 41.11      | 160.02           | 48.4             | 3.307                            | 0.37      | 104.21    | 55.81 |
| 12.78      | 112.88           | 40.67      | 161.71           | 48.8             | 3.312                            | 0.36      | 105.27    | 56.44 |
| 13.52      | 114.64           | 39.76      | 164.39           | 49.7             | 3.305                            | 0.35      | 107.06    | 57.32 |
| 14.27      | 116.55           | 38.92      | 167.12           | 50.6             | 3.304                            | 0.33      | 108.85    | 58.27 |
| 14.79      | 117.68           | 38.54      | 168.64           | 51.0             | 3.309                            | 0.33      | 109.80    | 58.84 |
| 15.30      | 118.72           | 37.90      | 170.32           | 51.6             | 3.301                            | 0.32      | 110.96    | 59.36 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 256.9-257.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-9        |
| Lab ID #         | 2013-465-001-007              | Test No.   | 26          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G317                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1457                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 255.9-256.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 27 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.940 | Diameter 1: | 2.879 |
| Length 2:    | 5.940 | Diameter 2: | 2.873 |
| Length 3:    | 5.944 | Diameter 3: | 2.875 |
| Avg. Length: | 5.941 | Avg. Diam.: | 2.876 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 201.8 |
| Back Pressure (psi)        | 21.7  |
| Eff. Conf. Pressure (psi)  | 180.1 |
| Pore Pressure Response (%) | 99    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 72.0 |
| Final Burette Reading (ml)   | 44.5 |
| Final Change (ml)            | 27.5 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 102.44 |
| Q         | = | 52.64  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 42  |
| Dial Reading After Saturation (mil)    | 48  |
| Dial Reading After Consolidation (mil) | 132 |

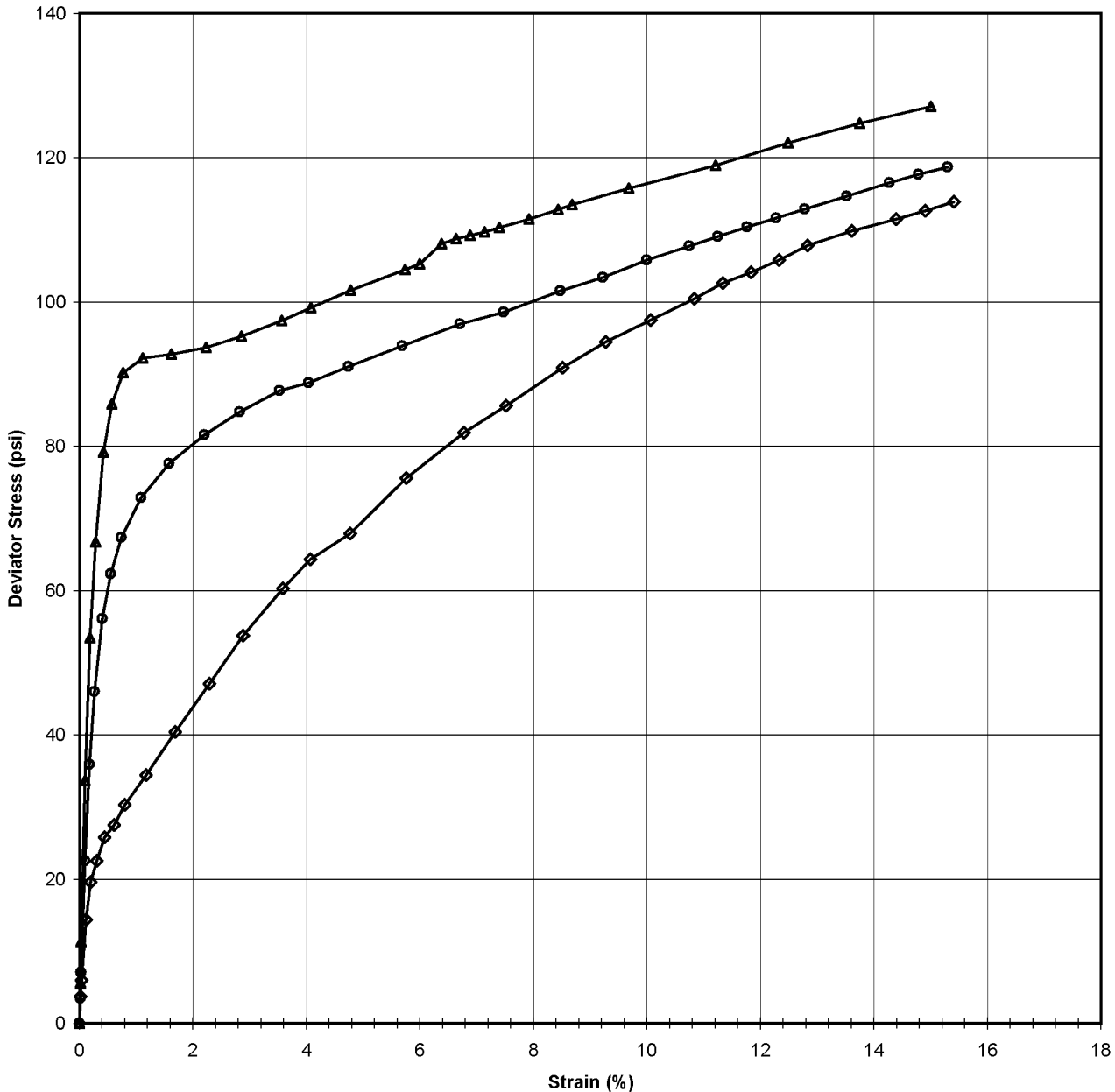
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 36.2         | 0.000               | 21.7                   |
| 71.1         | 0.001               | 23.1                   |
| 107.3        | 0.002               | 24.7                   |
| 248.0        | 0.006               | 34.5                   |
| 372.7        | 0.011               | 49.1                   |
| 457.1        | 0.017               | 64.8                   |
| 536.2        | 0.025               | 85.9                   |
| 579.0        | 0.033               | 102.4                  |
| 607.5        | 0.045               | 117.8                  |
| 622.7        | 0.066               | 133.7                  |
| 628.9        | 0.095               | 144.3                  |
| 639.0        | 0.131               | 149.6                  |
| 652.9        | 0.167               | 151.8                  |
| 671.5        | 0.209               | 152.7                  |
| 686.7        | 0.239               | 152.8                  |
| 707.2        | 0.280               | 152.5                  |
| 733.4        | 0.336               | 152.1                  |
| 740.5        | 0.351               | 152.0                  |
| 761.8        | 0.374               | 147.6                  |
| 768.8        | 0.388               | 146.9                  |
| 773.9        | 0.403               | 146.7                  |
| 779.2        | 0.418               | 146.7                  |
| 785.5        | 0.433               | 146.3                  |
| 797.7        | 0.464               | 145.9                  |
| 810.9        | 0.494               | 145.9                  |
| 817.6        | 0.508               | 145.5                  |
| 841.9        | 0.566               | 144.8                  |
| 878.8        | 0.656               | 143.5                  |
| 913.2        | 0.731               | 142.3                  |
| 945.8        | 0.805               | 141.1                  |
| 976.4        | 0.878               | 139.8                  |

Tested By: JCM      Date: 11/21/13      Input Checked By: KC      Date: 12/3/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 255.0-257.5 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-9        |
| Lab ID:             | 2013-465-001-007                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 25                      ● Test No. 26                      ▲ Test No. 27

E50 Test No. 25    3001.511                      E50 Test No. 26    15192.92                      E50 Test No. 27    28239.82

Tested By: JCM                      Date: 11/21/13                      Approved By: DB                      Date: 12/3/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1042

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 255.9-256.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-9        |
| Lab ID:           | 2013-465-001-007              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 180.1 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 27 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.94  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.49  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.59 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.79 |
| Length After Consolidation (in)               | 5.85  |
| Area After Consolidation (in <sup>2</sup> )   | 6.288 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.02       | 5.56             | 1.44       | 184.22           | 178.7            | 1.031                            | 0.26      | 181.44    | 2.78  |
| 0.03       | 11.31            | 3.02       | 188.39           | 177.1            | 1.064                            | 0.27      | 182.73    | 5.65  |
| 0.10       | 33.66            | 12.80      | 200.96           | 167.3            | 1.201                            | 0.38      | 184.13    | 16.83 |
| 0.19       | 53.42            | 27.42      | 206.10           | 152.7            | 1.350                            | 0.52      | 179.39    | 26.71 |
| 0.28       | 66.74            | 43.15      | 203.70           | 137.0            | 1.487                            | 0.65      | 170.32    | 33.37 |
| 0.43       | 79.19            | 64.22      | 195.07           | 115.9            | 1.683                            | 0.82      | 155.48    | 39.59 |
| 0.57       | 85.83            | 80.66      | 185.27           | 99.4             | 1.863                            | 0.95      | 142.36    | 42.91 |
| 0.77       | 90.16            | 96.08      | 174.18           | 84.0             | 2.073                            | 1.08      | 129.10    | 45.08 |
| 1.12       | 92.23            | 112.02     | 160.31           | 68.1             | 2.355                            | 1.23      | 114.19    | 46.12 |
| 1.62       | 92.73            | 122.62     | 150.21           | 57.5             | 2.613                            | 1.34      | 103.84    | 46.37 |
| 2.23       | 93.72            | 127.86     | 145.97           | 52.2             | 2.794                            | 1.38      | 99.11     | 46.86 |
| 2.85       | 95.28            | 130.09     | 145.29           | 50.0             | 2.905                            | 1.38      | 97.65     | 47.64 |
| 3.57       | 97.43            | 131.04     | 146.49           | 49.1             | 2.986                            | 1.36      | 97.77     | 48.72 |
| 4.08       | 99.23            | 131.13     | 148.21           | 49.0             | 3.026                            | 1.33      | 98.59     | 49.62 |
| 4.78       | 101.61           | 130.83     | 150.87           | 49.3             | 3.062                            | 1.30      | 100.07    | 50.80 |
| 5.74       | 104.51           | 130.43     | 154.18           | 49.7             | 3.104                            | 1.26      | 101.93    | 52.26 |
| 6.00       | 105.29           | 130.30     | 155.08           | 49.8             | 3.114                            | 1.25      | 102.44    | 52.64 |
| 6.39       | 108.03           | 125.90     | 162.23           | 54.2             | 2.993                            | 1.18      | 108.22    | 54.02 |
| 6.64       | 108.77           | 125.17     | 163.70           | 54.9             | 2.980                            | 1.16      | 109.31    | 54.39 |
| 6.89       | 109.23           | 124.98     | 164.36           | 55.1             | 2.982                            | 1.16      | 109.74    | 54.62 |
| 7.14       | 109.72           | 124.95     | 164.87           | 55.1             | 2.989                            | 1.15      | 110.01    | 54.86 |
| 7.40       | 110.34           | 124.64     | 165.80           | 55.5             | 2.990                            | 1.14      | 110.63    | 55.17 |
| 7.92       | 111.51           | 124.22     | 167.39           | 55.9             | 2.996                            | 1.13      | 111.64    | 55.76 |
| 8.43       | 112.81           | 124.21     | 168.70           | 55.9             | 3.018                            | 1.11      | 112.30    | 56.41 |
| 8.68       | 113.49           | 123.81     | 169.78           | 56.3             | 3.016                            | 1.10      | 113.04    | 56.74 |
| 9.68       | 115.73           | 123.05     | 172.78           | 57.0             | 3.029                            | 1.07      | 114.91    | 57.87 |
| 11.21      | 118.98           | 121.77     | 177.31           | 58.3             | 3.040                            | 1.03      | 117.82    | 59.49 |
| 12.49      | 122.05           | 120.61     | 181.54           | 59.5             | 3.052                            | 1.00      | 120.52    | 61.03 |
| 13.75      | 124.76           | 119.39     | 185.48           | 60.7             | 3.055                            | 0.97      | 123.09    | 62.38 |
| 15.01      | 127.08           | 118.08     | 189.10           | 62.0             | 3.049                            | 0.94      | 125.56    | 63.54 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 255.9-256.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-9        |
| Lab ID #         | 2013-465-001-007              | Test No.   | 27          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G322                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G456                 | 2/13/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1509-1              | 11/7/14                     |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-007                      Specific Gravity (measured)                      2.67

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 256.4-256.9 | 256.9-257.4 | 255.9-256.4 |
| Sample No.:                    | ST-9        | ST-9        | ST-9        |
| Test No.                       | T25         | T26         | T27         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 22.0        | 21.8        | 21.7        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 25.3        | 25.3        | 25.3        |
| Total Unit Weight (pcf)        | 122.2       | 120.3       | 120.7       |
| Dry Unit Weight (pcf)          | 97.5        | 96.0        | 96.3        |
| Moisture Content (%) (FINAL)   | 24.6        | 25.6        | 25.0        |
| Initial State Void Ratio, e    | 0.710       | 0.737       | 0.731       |
| Void Ratio at Shear, e         | 0.660       | 0.684       | 0.650       |



Tested By: JCM                      Date: 11/10/13                      Input Checked By: KC                      Date: 12/3/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T25    | T26     | T27     |
|---------------------------------|--------|---------|---------|
| Tare Number                     | 615    | 615     | 615     |
| Weight of Tare & Wet Sample (g) | 165.03 | 165.03  | 165.03  |
| Weight of Tare & Dry Sample (g) | 148.69 | 148.69  | 148.69  |
| Weight of Tare (g)              | 84.2   | 84.2    | 84.2    |
| Moisture Content (%) (INITIAL)  | 25.34  | 25.34   | 25.34   |
|                                 |        |         |         |
| Tare Number                     | 894    | 59      | 649     |
| Weight of Tare & Wet Sample (g) | 309.69 | 1391.27 | 1250.11 |
| Weight of Tare & Dry Sample (g) | 270.35 | 1148.52 | 1019.46 |
| Weight of Tare (g)              | 110.27 | 200.52  | 98.29   |
| Moisture Content (%) (FINAL)    | 24.58  | 25.61   | 25.04   |

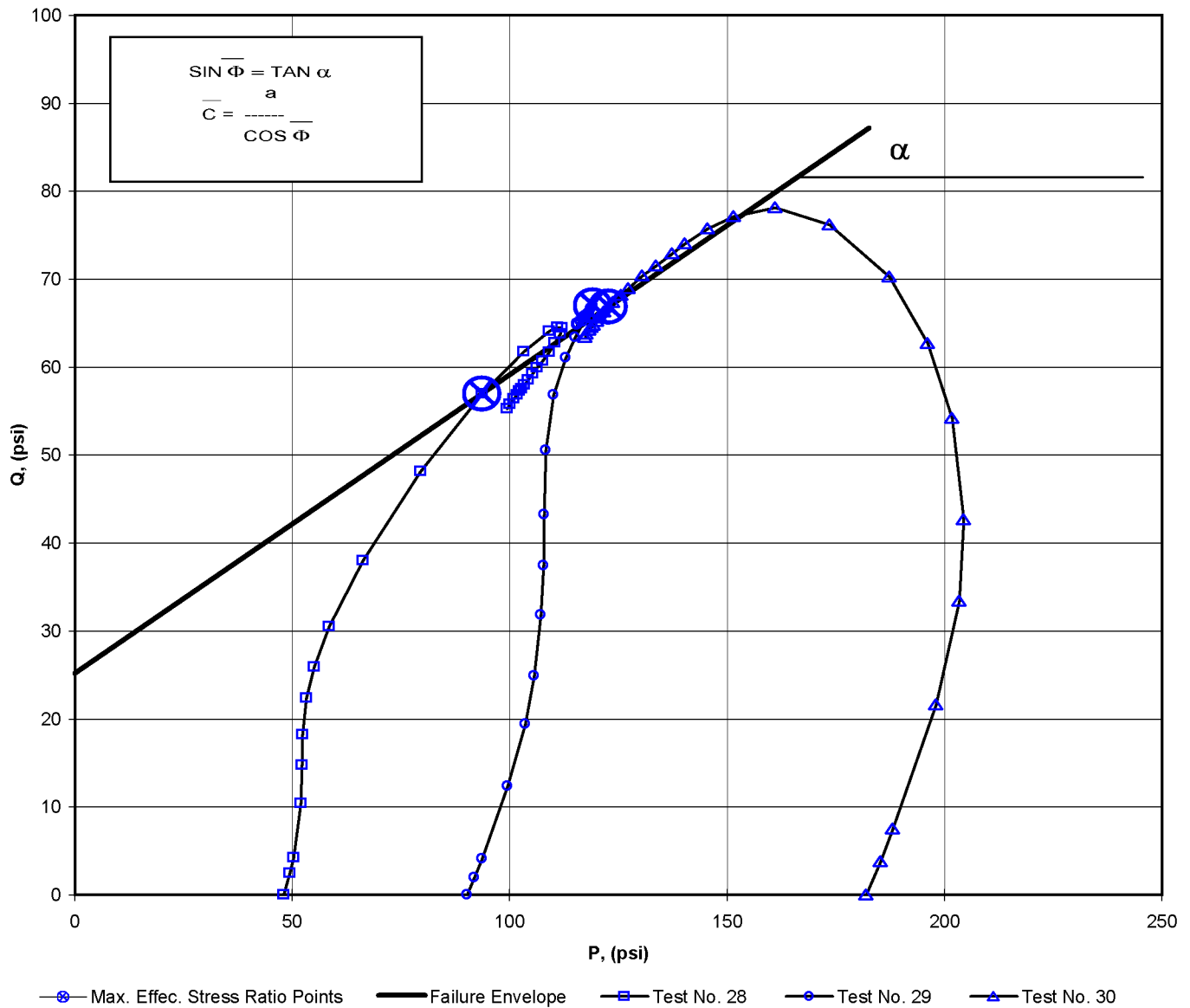
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1652.83             | 1639.75     | 1640.71     |
| Weight of Tube (g)                   | 414.25              | 418.42      | 418.04      |
| Weight of Wet Sample (g)             | 1238.58             | 1221.33     | 1222.67     |
| Length 1 (in)                        | 5.926               | 5.952       | 5.94        |
| Length 2 (in)                        | 5.927               | 5.945       | 5.94        |
| Length 3 (in)                        | 5.928               | 5.943       | 5.944       |
| Top Diameter (in)                    | 2.881               | 2.876       | 2.879       |
| Middle Diameter (in)                 | 2.878               | 2.878       | 2.873       |
| Bottom Diameter (in)                 | 2.883               | 2.88        | 2.875       |
| Average Length (in)                  | 5.927               | 5.946667    | 5.941333    |
| Average Area (in)                    | 6.517               | 6.505       | 6.495       |
| Sample Volume (cm <sup>3</sup> )     | 633.01              | 633.94      | 632.34      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.96                | 1.93        | 1.93        |
| Unit Wet Weight (pcf)                | 122.15              | 120.28      | 120.71      |
| Unit Dry Weight (pcf)                | 97.46               | 95.96       | 96.31       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.56                | 1.54        | 1.54        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>72</b>   |
| Final Burette Reading                | <b>34.1</b>         | <b>30.5</b> | <b>44.5</b> |
| Initial Dial Reading                 | <b>59</b>           | <b>52</b>   | <b>42</b>   |
| Dial Reading After Saturation        | <b>74</b>           | <b>58</b>   | <b>48</b>   |
| Dial Reading After Consolidation     | <b>117</b>          | <b>110</b>  | <b>132</b>  |
| Volume Change during Consolidation   | 13.9                | 17.5        | 27.5        |
| Volume Change during Saturation      | 4.81                | 1.92        | 1.92        |
| Volume at Shear (cm <sup>3</sup> )   | *These 614.31       | 614.52      | 602.93      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 370.11 | 364.96      | 365.36      |
| Volume of Voids (cm <sup>3</sup> )   | are all 244.19      | 249.56      | 237.57      |
| Volume of Water (cm <sup>3</sup> )   | at 242.85           | 249.52      | 244.25      |
| Void Ratio, e                        | shear 0.660         | 0.684       | 0.650       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 266.0-268.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

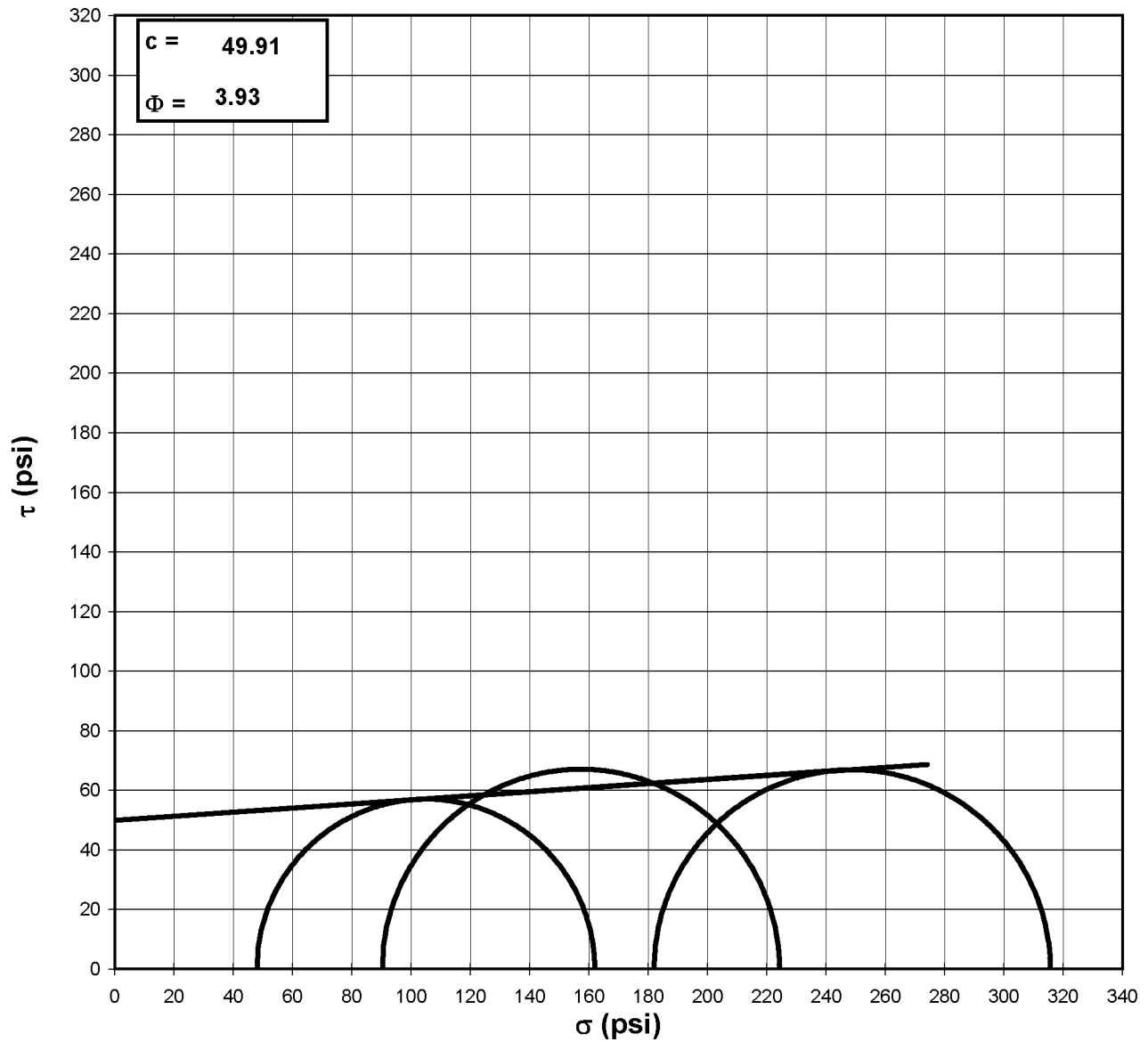


|                            |          |              |                                     |          |              |
|----------------------------|----------|--------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>25.18</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>26.77</b> |
| <b><math>\alpha</math></b> | <b>=</b> | <b>18.8</b>  | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>19.85</b> |

Tested By: JCM    Date: 11/10/13    Approved By: DB    Date: 11/25/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 266.0-268.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-10       |
| Lab ID:             | 2013-465-001-008                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/10/13      Approved By: DB      Date: 11/25/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 268.1-268.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 28 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.961 | Diameter 1: | 2.877 |
| Length 2:    | 5.953 | Diameter 2: | 2.872 |
| Length 3:    | 5.954 | Diameter 3: | 2.881 |
| Avg. Length: | 5.956 | Avg. Diam.: | 2.877 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 69.6 |
| Back Pressure (psi)        | 21.6 |
| Eff. Conf. Pressure (psi)  | 48.0 |
| Pore Pressure Response (%) | 98   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 31.1 |
| Final Change (ml)            | 52.0 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |       |
|---|---|-------|
| P | = | 93.67 |
| Q | = | 56.99 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 52  |
| Dial Reading After Saturation (mil)    | 58  |
| Dial Reading After Consolidation (mil) | 109 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 12.7         | 0.000               | 21.6                   |
| 42.5         | 0.001               | 22.6                   |
| 63.6         | 0.002               | 23.5                   |
| 137.4        | 0.007               | 28.0                   |
| 190.5        | 0.013               | 32.2                   |
| 232.0        | 0.018               | 35.4                   |
| 282.7        | 0.027               | 38.7                   |
| 325.7        | 0.036               | 40.5                   |
| 381.9        | 0.047               | 41.6                   |
| 474.4        | 0.068               | 41.3                   |
| 600.4        | 0.097               | 38.2                   |
| 712.7        | 0.132               | 32.9                   |
| 776.2        | 0.168               | 28.2                   |
| 810.3        | 0.209               | 24.6                   |
| 820.3        | 0.239               | 23.1                   |
| 825.6        | 0.280               | 22.1                   |
| 824.9        | 0.338               | 21.7                   |
| 820.7        | 0.398               | 21.9                   |
| 813.7        | 0.442               | 22.2                   |
| 809.2        | 0.501               | 22.7                   |
| 805.6        | 0.545               | 23.1                   |
| 803.3        | 0.590               | 23.5                   |
| 800.6        | 0.636               | 23.9                   |
| 797.6        | 0.666               | 24.2                   |
| 796.1        | 0.695               | 24.3                   |
| 796.6        | 0.724               | 24.6                   |
| 795.7        | 0.754               | 24.8                   |
| 795.8        | 0.799               | 25.1                   |
| 794.3        | 0.844               | 25.3                   |
| 792.1        | 0.874               | 25.5                   |
| 790.9        | 0.905               | 25.6                   |

Tested By: JCM      Date: 11/10/13      Input Checked By: KC      Date: 11/25/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1049

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 268.1-268.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 48.0 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 28 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.96  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.50  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.71 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 35.42 |
| Length After Consolidation (in)               | 5.90  |
| Area After Consolidation (in <sup>2</sup> )   | 6.004 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.01       | 4.97             | 0.97       | 51.99            | 47.0             | 1.106                            | 0.20      | 49.51     | 2.48  |
| 0.03       | 8.48             | 1.92       | 54.57            | 46.1             | 1.184                            | 0.23      | 50.33     | 4.24  |
| 0.12       | 20.74            | 6.38       | 62.36            | 41.6             | 1.498                            | 0.31      | 51.99     | 10.37 |
| 0.21       | 29.55            | 10.56      | 66.99            | 37.4             | 1.789                            | 0.36      | 52.22     | 14.77 |
| 0.31       | 36.40            | 13.82      | 70.59            | 34.2             | 2.065                            | 0.39      | 52.38     | 18.20 |
| 0.46       | 44.77            | 17.06      | 75.71            | 30.9             | 2.447                            | 0.39      | 53.33     | 22.38 |
| 0.61       | 51.81            | 18.89      | 80.92            | 29.1             | 2.780                            | 0.37      | 55.01     | 25.91 |
| 0.80       | 60.99            | 19.96      | 89.03            | 28.0             | 3.175                            | 0.33      | 58.53     | 30.49 |
| 1.15       | 76.01            | 19.66      | 104.34           | 28.3             | 3.682                            | 0.26      | 66.34     | 38.00 |
| 1.64       | 96.28            | 16.60      | 127.68           | 31.4             | 4.066                            | 0.18      | 79.54     | 48.14 |
| 2.24       | 113.97           | 11.32      | 150.66           | 36.7             | 4.107                            | 0.10      | 93.67     | 56.99 |
| 2.84       | 123.54           | 6.56       | 164.98           | 41.4             | 3.981                            | 0.05      | 103.21    | 61.77 |
| 3.54       | 128.14           | 2.97       | 173.17           | 45.0             | 3.846                            | 0.02      | 109.10    | 64.07 |
| 4.05       | 129.06           | 1.48       | 175.59           | 46.5             | 3.774                            | 0.01      | 111.06    | 64.53 |
| 4.75       | 128.95           | 0.45       | 176.49           | 47.5             | 3.712                            | 0.00      | 112.02    | 64.47 |
| 5.73       | 127.52           | 0.08       | 175.44           | 47.9             | 3.661                            | 0.00      | 111.68    | 63.76 |
| 6.75       | 125.48           | 0.30       | 173.18           | 47.7             | 3.631                            | 0.00      | 110.44    | 62.74 |
| 7.50       | 123.40           | 0.63       | 170.78           | 47.4             | 3.605                            | 0.01      | 109.08    | 61.70 |
| 8.49       | 121.39           | 1.15       | 168.24           | 46.9             | 3.591                            | 0.01      | 107.55    | 60.69 |
| 9.24       | 119.85           | 1.55       | 166.30           | 46.5             | 3.580                            | 0.01      | 106.38    | 59.92 |
| 10.00      | 118.51           | 1.95       | 164.56           | 46.1             | 3.573                            | 0.02      | 105.30    | 59.25 |
| 10.78      | 117.07           | 2.31       | 162.76           | 45.7             | 3.562                            | 0.02      | 104.22    | 58.54 |
| 11.29      | 115.96           | 2.56       | 161.40           | 45.4             | 3.552                            | 0.02      | 103.42    | 57.98 |
| 11.78      | 115.10           | 2.74       | 160.37           | 45.3             | 3.543                            | 0.02      | 102.81    | 57.55 |
| 12.27      | 114.53           | 2.97       | 159.56           | 45.0             | 3.543                            | 0.03      | 102.30    | 57.26 |
| 12.78      | 113.74           | 3.20       | 158.54           | 44.8             | 3.539                            | 0.03      | 101.67    | 56.87 |
| 13.55      | 112.74           | 3.46       | 157.28           | 44.5             | 3.531                            | 0.03      | 100.91    | 56.37 |
| 14.31      | 111.54           | 3.71       | 155.83           | 44.3             | 3.518                            | 0.03      | 100.06    | 55.77 |
| 14.82      | 110.57           | 3.88       | 154.69           | 44.1             | 3.506                            | 0.04      | 99.40     | 55.28 |
| 15.33      | 109.73           | 4.00       | 153.72           | 44.0             | 3.494                            | 0.04      | 98.86     | 54.86 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 268.1-268.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-10       |
| Lab ID #         | 2013-465-001-008              | Test No.   | 28          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G319                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1456                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 267.6-268.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 29 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.964 | Diameter 1: | 2.879 |
| Length 2:   | 5.949 | Diameter 2: | 2.874 |
| Length 3:   | 5.952 | Diameter 3: | 2.871 |
| Avg. Length | 5.955 | Avg. Diam.: | 2.875 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 112.0 |
| Back Pressure (psi)        | 21.7  |
| Eff. Conf. Pressure (psi)  | 90.3  |
| Pore Pressure Response (%) | 97    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 28.4 |
| Final Change (ml)            | 19.6 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 119.22 |
| Q         | = | 67.01  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 50  |
| Dial Reading After Saturation (mil)    | 68  |
| Dial Reading After Consolidation (mil) | 129 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 22.3         | 0.000               | 21.7                   |
| 47.3         | 0.001               | 22.1                   |
| 74.4         | 0.002               | 22.5                   |
| 178.3        | 0.006               | 24.7                   |
| 267.9        | 0.011               | 27.8                   |
| 337.7        | 0.016               | 31.2                   |
| 425.5        | 0.024               | 36.5                   |
| 497.8        | 0.032               | 41.6                   |
| 572.3        | 0.043               | 47.3                   |
| 667.5        | 0.063               | 54.2                   |
| 751.1        | 0.092               | 58.6                   |
| 810.4        | 0.128               | 60.1                   |
| 845.5        | 0.164               | 60.3                   |
| 875.3        | 0.206               | 60.1                   |
| 887.0        | 0.236               | 60.0                   |
| 898.7        | 0.277               | 59.9                   |
| 911.2        | 0.332               | 59.8                   |
| 925.7        | 0.394               | 59.8                   |
| 936.9        | 0.439               | 59.8                   |
| 942.0        | 0.499               | 59.9                   |
| 941.8        | 0.544               | 60.0                   |
| 947.2        | 0.588               | 60.2                   |
| 952.8        | 0.633               | 60.4                   |
| 959.2        | 0.664               | 60.5                   |
| 963.9        | 0.694               | 60.6                   |
| 965.5        | 0.724               | 60.7                   |
| 967.0        | 0.753               | 60.9                   |
| 969.9        | 0.798               | 61.1                   |
| 977.4        | 0.843               | 61.3                   |
| 986.0        | 0.873               | 61.4                   |
| 991.4        | 0.902               | 61.6                   |

Tested By: JCM      Date: 11/10/13      Input Checked By: KC      Date: 11/25/13

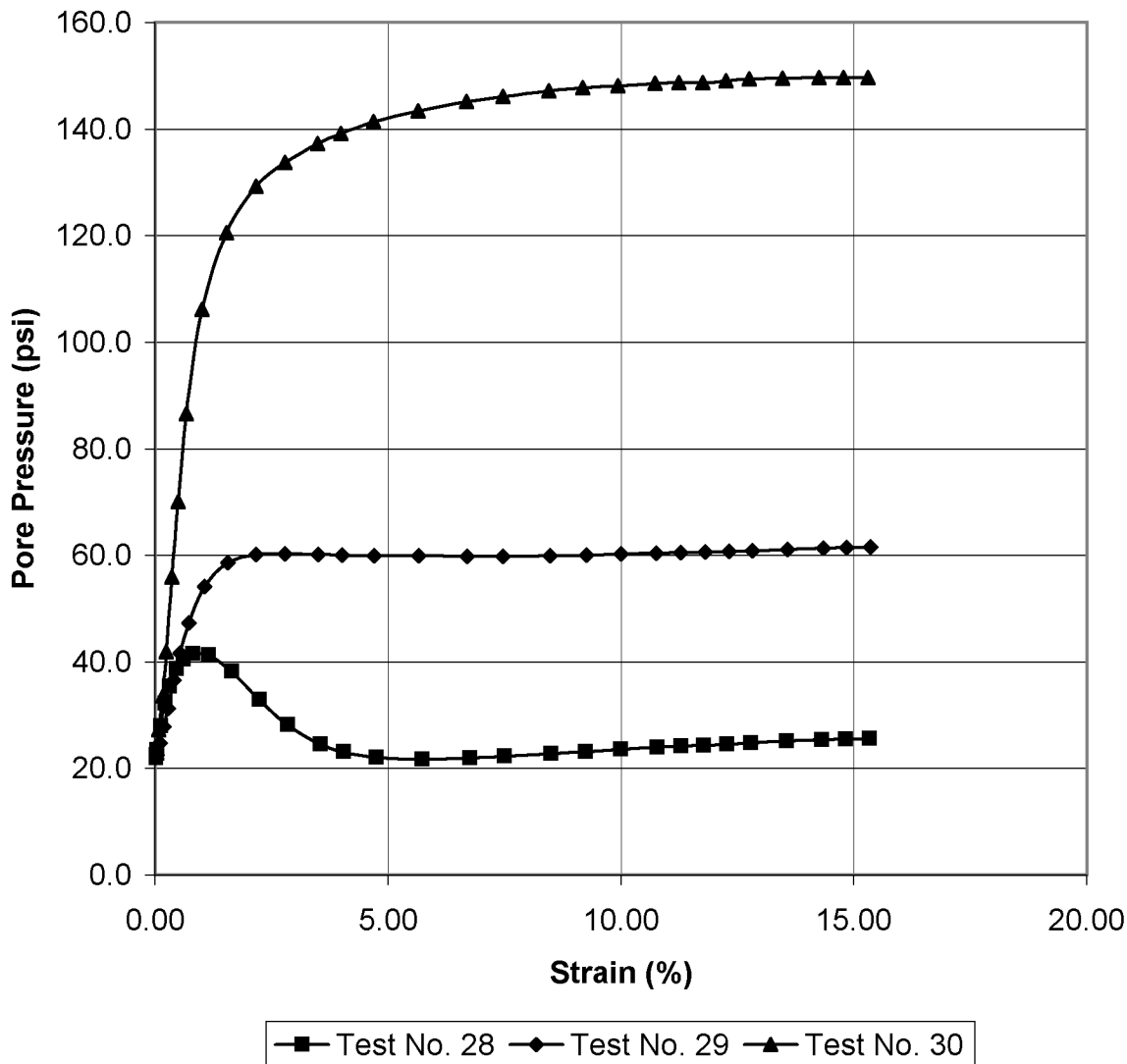
DCN: CT-S28    DATE: 4/12/13    REVISION: 3



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 266.0-268.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1053

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 267.6-268.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 90.3 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 29 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.96  |
| Initial Sample Diameter (in)             | 2.87  |
| Initial Sample Area (in <sup>2</sup> )   | 6.49  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.65 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.10 |
| Length After Consolidation (in)               | 5.88  |
| Area After Consolidation (in <sup>2</sup> )   | 6.314 |

| Strain (%) | Deviation Stress | Δ U   | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|-------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.01       | 3.96             | 0.39  | 93.87          | 89.9           | 1.044                            | 0.10 | 91.89  | 1.98  |
| 0.04       | 8.25             | 0.77  | 97.78          | 89.5           | 1.092                            | 0.10 | 93.65  | 4.13  |
| 0.10       | 24.68            | 3.03  | 111.95         | 87.3           | 1.283                            | 0.13 | 99.61  | 12.34 |
| 0.19       | 38.82            | 6.12  | 123.00         | 84.2           | 1.461                            | 0.16 | 103.59 | 19.41 |
| 0.28       | 49.80            | 9.53  | 130.58         | 80.8           | 1.617                            | 0.20 | 105.67 | 24.90 |
| 0.40       | 63.60            | 14.84 | 139.05         | 75.5           | 1.843                            | 0.24 | 107.25 | 31.80 |
| 0.54       | 74.90            | 19.90 | 145.30         | 70.4           | 2.064                            | 0.27 | 107.85 | 37.45 |
| 0.73       | 86.47            | 25.62 | 151.15         | 64.7           | 2.337                            | 0.31 | 107.92 | 43.24 |
| 1.06       | 101.09           | 32.46 | 158.94         | 57.8           | 2.748                            | 0.33 | 108.39 | 50.55 |
| 1.56       | 113.61           | 36.94 | 166.97         | 53.4           | 3.129                            | 0.34 | 110.17 | 56.81 |
| 2.17       | 122.10           | 38.45 | 173.96         | 51.9           | 3.355                            | 0.32 | 112.91 | 61.05 |
| 2.79       | 126.74           | 38.57 | 178.47         | 51.7           | 3.450                            | 0.31 | 115.10 | 63.37 |
| 3.50       | 130.36           | 38.42 | 182.24         | 51.9           | 3.513                            | 0.30 | 117.06 | 65.18 |
| 4.01       | 131.44           | 38.30 | 183.45         | 52.0           | 3.528                            | 0.30 | 117.72 | 65.72 |
| 4.71       | 132.26           | 38.21 | 184.35         | 52.1           | 3.539                            | 0.30 | 118.22 | 66.13 |
| 5.66       | 132.81           | 38.14 | 184.97         | 52.2           | 3.546                            | 0.30 | 118.56 | 66.40 |
| 6.70       | 133.49           | 38.07 | 185.72         | 52.2           | 3.556                            | 0.29 | 118.97 | 66.74 |
| 7.47       | 134.02           | 38.09 | 186.23         | 52.2           | 3.567                            | 0.29 | 119.22 | 67.01 |
| 8.49       | 133.29           | 38.23 | 185.37         | 52.1           | 3.560                            | 0.30 | 118.72 | 66.65 |
| 9.26       | 132.13           | 38.32 | 184.11         | 52.0           | 3.542                            | 0.30 | 118.04 | 66.07 |
| 10.01      | 131.82           | 38.50 | 183.62         | 51.8           | 3.545                            | 0.30 | 117.71 | 65.91 |
| 10.76      | 131.50           | 38.69 | 183.11         | 51.6           | 3.548                            | 0.30 | 117.36 | 65.75 |
| 11.29      | 131.61           | 38.81 | 183.11         | 51.5           | 3.556                            | 0.30 | 117.30 | 65.81 |
| 11.82      | 131.50           | 38.92 | 182.87         | 51.4           | 3.560                            | 0.31 | 117.12 | 65.75 |
| 12.33      | 130.96           | 39.03 | 182.24         | 51.3           | 3.554                            | 0.31 | 116.75 | 65.48 |
| 12.82      | 130.42           | 39.19 | 181.52         | 51.1           | 3.552                            | 0.31 | 116.32 | 65.21 |
| 13.58      | 129.69           | 39.40 | 180.59         | 50.9           | 3.548                            | 0.31 | 115.74 | 64.84 |
| 14.35      | 129.55           | 39.60 | 180.25         | 50.7           | 3.555                            | 0.32 | 115.48 | 64.77 |
| 14.85      | 129.95           | 39.74 | 180.51         | 50.6           | 3.570                            | 0.32 | 115.54 | 64.97 |
| 15.36      | 129.90           | 39.90 | 180.31         | 50.4           | 3.577                            | 0.32 | 115.36 | 64.95 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 267.6-268.1 |
| Project No.      | 2013-465-001                  | Sample No. | ST-10       |
| Lab ID #         | 2013-465-001-008              | Test No.   | 29          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G320                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G1295                | 3/4/14                      |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**  
ASTM D4767-11



A-1055

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 267.1-267.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 30 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.875 | Diameter 1: | 2.883 |
| Length 2:    | 5.868 | Diameter 2: | 2.880 |
| Length 3:    | 5.861 | Diameter 3: | 2.882 |
| Avg. Length: | 5.868 | Avg. Diam.: | 2.882 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 203.6 |
| Back Pressure (psi)        | 21.6  |
| Eff. Conf. Pressure (psi)  | 182.0 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 21.8 |
| Final Change (ml)            | 26.2 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 122.72 |
| Q         | = | 66.85  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 44  |
| Dial Reading After Saturation (mil)    | 64  |
| Dial Reading After Consolidation (mil) | 118 |

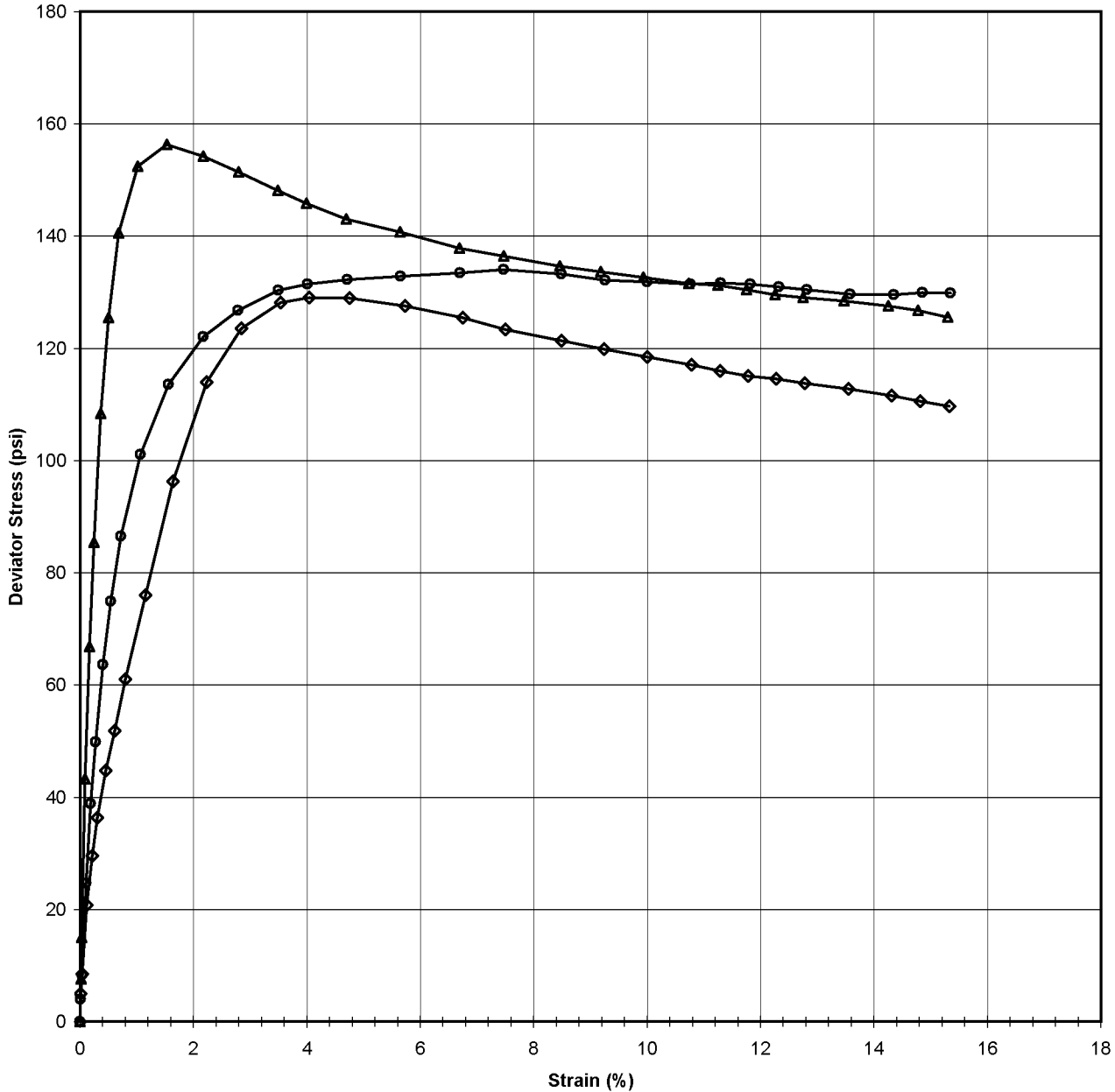
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 38.2         | 0.000               | 21.6                   |
| 85.6         | 0.001               | 22.1                   |
| 131.8        | 0.002               | 22.9                   |
| 309.5        | 0.005               | 27.2                   |
| 457.4        | 0.010               | 33.6                   |
| 574.1        | 0.014               | 41.8                   |
| 719.1        | 0.021               | 55.9                   |
| 827.6        | 0.029               | 70.1                   |
| 924.3        | 0.039               | 86.5                   |
| 1002.3       | 0.059               | 106.1                  |
| 1032.1       | 0.089               | 120.6                  |
| 1025.7       | 0.126               | 129.2                  |
| 1013.9       | 0.162               | 133.7                  |
| 999.0        | 0.202               | 137.3                  |
| 989.4        | 0.231               | 139.1                  |
| 977.9        | 0.272               | 141.4                  |
| 972.1        | 0.327               | 143.4                  |
| 963.1        | 0.388               | 145.2                  |
| 961.4        | 0.433               | 146.1                  |
| 959.4        | 0.490               | 147.1                  |
| 960.1        | 0.532               | 147.7                  |
| 960.2        | 0.576               | 148.1                  |
| 960.7        | 0.622               | 148.6                  |
| 964.2        | 0.652               | 148.7                  |
| 963.7        | 0.681               | 148.7                  |
| 962.7        | 0.710               | 149.1                  |
| 964.8        | 0.739               | 149.4                  |
| 967.7        | 0.781               | 149.5                  |
| 969.6        | 0.826               | 149.6                  |
| 969.9        | 0.856               | 149.6                  |
| 966.6        | 0.887               | 149.7                  |

Tested By: JCM      Date: 11/18/13      Input Checked By: KC      Date: 11/25/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 266.0-268.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-10       |
| Lab ID:             | 2013-465-001-008                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 28                      ● Test No. 29                      ▲ Test No. 30

E50 Test No. 28 7925.991                      E50 Test No. 29 15106.76                      E50 Test No. 30 39592.26

Tested By: JCM                      Date: 11/18/13                      Approved By: DB                      Date: 11/25/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1057

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 267.1-267.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-10       |
| Lab ID:           | 2013-465-001-008              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 182.0 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 30 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.87  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.52  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.27 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.28 |
| Length After Consolidation (in)               | 5.79  |
| Area After Consolidation (in <sup>2</sup> )   | 6.262 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|--------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.02       | 7.57             | 0.47   | 189.10         | 181.5          | 1.042                            | 0.06 | 185.32 | 3.79  |
| 0.03       | 14.94            | 1.27   | 195.67         | 180.7          | 1.083                            | 0.08 | 188.20 | 7.47  |
| 0.09       | 43.29            | 5.59   | 219.70         | 176.4          | 1.245                            | 0.13 | 198.05 | 21.64 |
| 0.17       | 66.83            | 11.98  | 236.85         | 170.0          | 1.393                            | 0.18 | 203.44 | 33.42 |
| 0.25       | 85.37            | 20.24  | 247.13         | 161.8          | 1.528                            | 0.24 | 204.44 | 42.69 |
| 0.37       | 108.34           | 34.32  | 256.02         | 147.7          | 1.734                            | 0.32 | 201.85 | 54.17 |
| 0.50       | 125.44           | 48.48  | 258.97         | 133.5          | 1.939                            | 0.39 | 196.25 | 62.72 |
| 0.68       | 140.55           | 64.93  | 257.62         | 117.1          | 2.201                            | 0.46 | 187.35 | 70.28 |
| 1.01       | 152.41           | 84.54  | 249.87         | 97.5           | 2.564                            | 0.55 | 173.67 | 76.20 |
| 1.53       | 156.29           | 98.96  | 239.33         | 83.0           | 2.882                            | 0.63 | 161.19 | 78.14 |
| 2.18       | 154.28           | 107.57 | 228.71         | 74.4           | 3.073                            | 0.70 | 151.57 | 77.14 |
| 2.79       | 151.46           | 112.14 | 221.32         | 69.9           | 3.168                            | 0.74 | 145.59 | 75.73 |
| 3.49       | 148.09           | 115.68 | 214.41         | 66.3           | 3.233                            | 0.78 | 140.36 | 74.04 |
| 3.99       | 145.83           | 117.53 | 210.31         | 64.5           | 3.262                            | 0.81 | 137.39 | 72.92 |
| 4.69       | 143.02           | 119.75 | 205.27         | 62.2           | 3.298                            | 0.84 | 133.76 | 71.51 |
| 5.65       | 140.73           | 121.83 | 200.89         | 60.2           | 3.339                            | 0.87 | 130.53 | 70.36 |
| 6.69       | 137.83           | 123.59 | 196.23         | 58.4           | 3.360                            | 0.90 | 127.32 | 68.91 |
| 7.47       | 136.41           | 124.51 | 193.91         | 57.5           | 3.373                            | 0.91 | 125.70 | 68.21 |
| 8.46       | 134.67           | 125.53 | 191.14         | 56.5           | 3.385                            | 0.93 | 123.81 | 67.33 |
| 9.19       | 133.70           | 126.13 | 189.57         | 55.9           | 3.393                            | 0.94 | 122.72 | 66.85 |
| 9.94       | 132.60           | 126.52 | 188.09         | 55.5           | 3.390                            | 0.95 | 121.79 | 66.30 |
| 10.74      | 131.51           | 127.01 | 186.50         | 55.0           | 3.391                            | 0.97 | 120.75 | 65.76 |
| 11.25      | 131.25           | 127.11 | 186.14         | 54.9           | 3.391                            | 0.97 | 120.51 | 65.63 |
| 11.76      | 130.42           | 127.13 | 185.29         | 54.9           | 3.377                            | 0.97 | 120.08 | 65.21 |
| 12.26      | 129.55           | 127.49 | 184.05         | 54.5           | 3.377                            | 0.98 | 119.28 | 64.77 |
| 12.75      | 129.10           | 127.78 | 183.33         | 54.2           | 3.381                            | 0.99 | 118.78 | 64.55 |
| 13.48      | 128.44           | 127.93 | 182.52         | 54.1           | 3.375                            | 1.00 | 118.29 | 64.22 |
| 14.25      | 127.54           | 128.05 | 181.49         | 54.0           | 3.364                            | 1.00 | 117.72 | 63.77 |
| 14.78      | 126.80           | 128.04 | 180.76         | 54.0           | 3.350                            | 1.01 | 117.36 | 63.40 |
| 15.30      | 125.57           | 128.05 | 179.52         | 53.9           | 3.328                            | 1.02 | 116.74 | 62.79 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 267.1-267.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-10       |
| Lab ID #         | 2013-465-001-008              | Test No.   | 30          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G322                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G041                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1511-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-008                      Specific Gravity (measured)                      2.67

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 268.1-268.6 | 267.6-268.1 | 267.1-267.6 |
| Sample No.:                    | ST-10       | ST-10       | ST-10       |
| Test No.                       | T28         | T29         | T30         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.6        | 21.7        | 21.6        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 27.5        | 27.5        | 27.5        |
| Total Unit Weight (pcf)        | 120.0       | 115.1       | 119.7       |
| Dry Unit Weight (pcf)          | 94.2        | 90.3        | 93.9        |
| Moisture Content (%) (FINAL)   | 27.5        | 28.4        | 27.0        |
| Initial State Void Ratio, e    | 0.770       | 0.845       | 0.775       |
| Void Ratio at Shear, e         | 0.718       | 0.771       | 0.683       |



Tested By: JCM                      Date: 11/10/13                      Input Checked By: KC                      Date: 11/25/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T28     | T29    | T30     |
|---------------------------------|---------|--------|---------|
| Tare Number                     | 785     | 785    | 785     |
| Weight of Tare & Wet Sample (g) | 241.37  | 241.37 | 241.37  |
| Weight of Tare & Dry Sample (g) | 207.74  | 207.74 | 207.74  |
| Weight of Tare (g)              | 85.3    | 85.3   | 85.3    |
| Moisture Content (%) (INITIAL)  | 27.47   | 27.47  | 27.47   |
|                                 |         |        |         |
| Tare Number                     | 701     | 897    | 582     |
| Weight of Tare & Wet Sample (g) | 1295.01 | 328.39 | 1253.75 |
| Weight of Tare & Dry Sample (g) | 1036.98 | 280.03 | 1005.19 |
| Weight of Tare (g)              | 98.86   | 109.77 | 83.89   |
| Moisture Content (%) (FINAL)    | 27.51   | 28.40  | 26.98   |

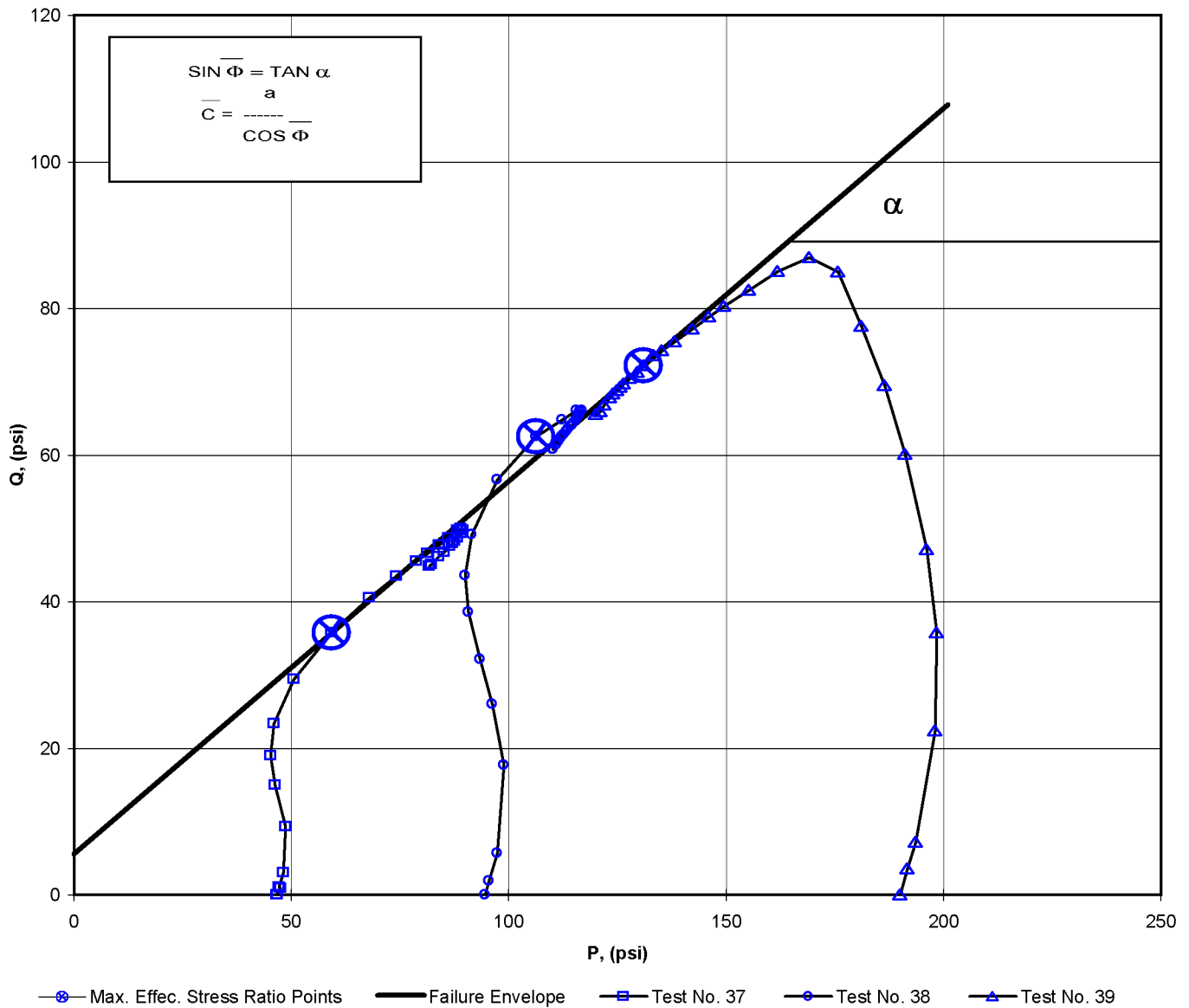
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1641.62             | 1585.58     | 1617.22     |
| Weight of Tube (g)                   | 421.96              | 417.45      | 414.83      |
| Weight of Wet Sample (g)             | 1219.66             | 1168.13     | 1202.39     |
| Length 1 (in)                        | 5.961               | 5.964       | 5.875       |
| Length 2 (in)                        | 5.953               | 5.949       | 5.868       |
| Length 3 (in)                        | 5.954               | 5.952       | 5.861       |
| Top Diameter (in)                    | 2.877               | 2.879       | 2.883       |
| Middle Diameter (in)                 | 2.872               | 2.874       | 2.88        |
| Bottom Diameter (in)                 | 2.881               | 2.871       | 2.882       |
| Average Length (in)                  | 5.956               | 5.955       | 5.868       |
| Average Area (in)                    | 6.499               | 6.490       | 6.522       |
| Sample Volume (cm <sup>3</sup> )     | 634.34              | 633.36      | 627.15      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.92                | 1.84        | 1.92        |
| Unit Wet Weight (pcf)                | 120.03              | 115.14      | 119.69      |
| Unit Dry Weight (pcf)                | 94.17               | 90.33       | 93.90       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.51                | 1.45        | 1.50        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>48</b>   |
| Final Burette Reading                | <b>31.1</b>         | <b>28.4</b> | <b>21.8</b> |
| Initial Dial Reading                 | <b>52</b>           | <b>50</b>   | <b>44</b>   |
| Dial Reading After Saturation        | <b>58</b>           | <b>68</b>   | <b>64</b>   |
| Dial Reading After Consolidation     | <b>109</b>          | <b>129</b>  | <b>118</b>  |
| Volume Change during Consolidation   | 16.9                | 19.6        | 26.2        |
| Volume Change during Saturation      | 1.92                | 5.74        | 6.41        |
| Volume at Shear (cm <sup>3</sup> )   | *These 615.53       | 608.01      | 594.53      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 358.37 | 343.23      | 353.30      |
| Volume of Voids (cm <sup>3</sup> )   | are all 257.16      | 264.78      | 241.24      |
| Volume of Water (cm <sup>3</sup> )   | at 263.18           | 260.30      | 254.50      |
| Void Ratio, e                        | shear 0.718         | 0.771       | 0.683       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 277.0-279.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

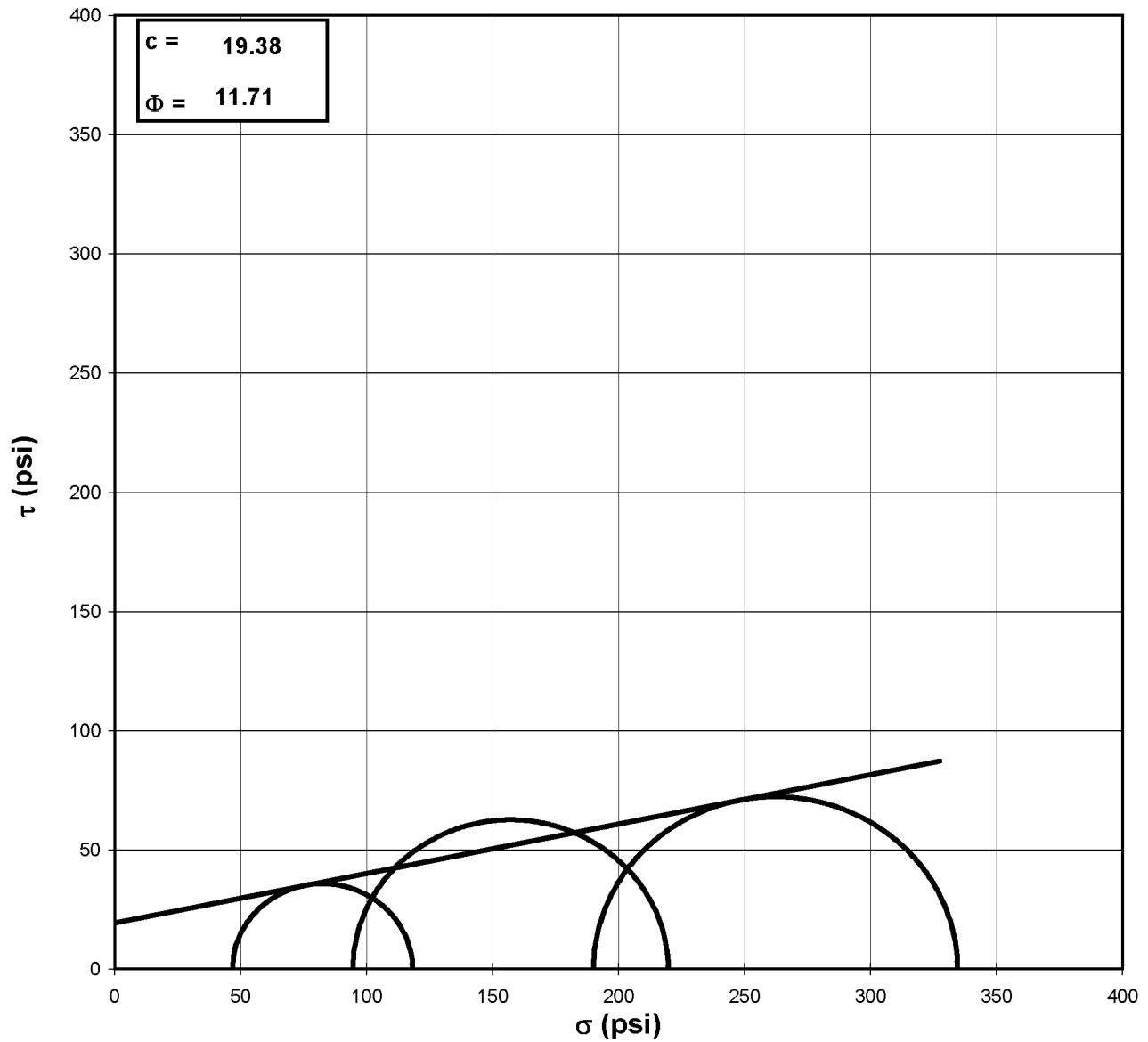


|          |          |             |           |          |              |
|----------|----------|-------------|-----------|----------|--------------|
| <b>a</b> | <b>=</b> | <b>5.59</b> | <b>C̄</b> | <b>=</b> | <b>6.50</b>  |
| <b>α</b> | <b>=</b> | <b>26.9</b> | <b>Φ̄</b> | <b>=</b> | <b>30.56</b> |

Tested By: JCM      Date: 11/17/13      Approved By: DB      Date: 12/4/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 277.0-279.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-11       |
| Lab ID:             | 2013-465-001-009                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/17/13      Approved By: DB      Date: 12/4/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 278.1-278.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 37 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.935 | Diameter 1: | 2.880 |
| Length 2:    | 5.952 | Diameter 2: | 2.884 |
| Length 3:    | 5.957 | Diameter 3: | 2.883 |
| Avg. Length: | 5.948 | Avg. Diam.: | 2.882 |

**PRESSURES (psi)**

|                           |      |
|---------------------------|------|
| Cell Pressure (psi)       | 68.6 |
| Back Pressure (psi)       | 21.8 |
| Eff. Conf. Pressure (psi) | 46.8 |
| Pore Pressure             |      |
| Response (%)              | 100  |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 33.9 |
| Final Change (ml)            | 14.1 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |       |
|---|---|-------|
| P | = | 59.29 |
| Q | = | 35.74 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 53  |
| Dial Reading After Saturation (mil)    | 72  |
| Dial Reading After Consolidation (mil) | 110 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 8.0          | 0.000               | 21.8                   |
| 8.0          | 0.003               | 21.9                   |
| 19.8         | 0.006               | 22.0                   |
| 21.9         | 0.013               | 22.5                   |
| 46.7         | 0.014               | 23.5                   |
| 126.6        | 0.018               | 29.2                   |
| 200.3        | 0.025               | 37.4                   |
| 251.9        | 0.033               | 42.4                   |
| 308.6        | 0.044               | 46.0                   |
| 387.8        | 0.064               | 47.5                   |
| 471.1        | 0.092               | 45.0                   |
| 536.8        | 0.127               | 41.1                   |
| 578.1        | 0.163               | 37.8                   |
| 609.5        | 0.206               | 35.3                   |
| 627.5        | 0.236               | 33.9                   |
| 647.1        | 0.276               | 32.4                   |
| 666.3        | 0.332               | 31.2                   |
| 687.4        | 0.390               | 30.1                   |
| 696.2        | 0.436               | 29.5                   |
| 700.7        | 0.498               | 29.1                   |
| 706.7        | 0.541               | 28.9                   |
| 706.0        | 0.586               | 28.8                   |
| 704.2        | 0.631               | 29.1                   |
| 701.4        | 0.660               | 29.3                   |
| 700.5        | 0.691               | 29.4                   |
| 699.5        | 0.722               | 29.7                   |
| 691.7        | 0.752               | 30.1                   |
| 688.0        | 0.797               | 30.8                   |
| 678.3        | 0.841               | 31.4                   |
| 679.7        | 0.870               | 31.8                   |
| 678.3        | 0.901               | 32.0                   |

Tested By: JCM      Date: 11/17/13      Input Checked By: KC      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1064

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 278.1-278.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 46.8 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 37 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.95  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.52  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.81 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.58 |
| Length After Consolidation (in)               | 5.89  |
| Area After Consolidation (in <sup>2</sup> )   | 6.379 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.05       | 0.01             | 0.13       | 46.68            | 46.7             | 1.000                            | 17.23     | 46.68     | 0.00  |
| 0.11       | 1.84             | 0.17       | 48.47            | 46.6             | 1.040                            | 0.09      | 47.55     | 0.92  |
| 0.22       | 2.18             | 0.66       | 48.32            | 46.1             | 1.047                            | 0.30      | 47.23     | 1.09  |
| 0.24       | 6.05             | 1.65       | 51.19            | 45.1             | 1.134                            | 0.27      | 48.17     | 3.02  |
| 0.31       | 18.54            | 7.40       | 57.93            | 39.4             | 1.470                            | 0.40      | 48.67     | 9.27  |
| 0.42       | 30.01            | 15.58      | 61.23            | 31.2             | 1.961                            | 0.52      | 46.23     | 15.01 |
| 0.55       | 38.02            | 20.59      | 64.23            | 26.2             | 2.451                            | 0.54      | 45.22     | 19.01 |
| 0.74       | 46.78            | 24.16      | 69.42            | 22.6             | 3.066                            | 0.52      | 46.03     | 23.39 |
| 1.08       | 58.90            | 25.66      | 80.04            | 21.1             | 3.786                            | 0.44      | 50.59     | 29.45 |
| 1.56       | 71.47            | 23.25      | 95.02            | 23.6             | 4.035                            | 0.33      | 59.29     | 35.74 |
| 2.15       | 81.11            | 19.34      | 108.57           | 27.5             | 3.954                            | 0.24      | 68.01     | 40.55 |
| 2.76       | 86.91            | 16.01      | 117.69           | 30.8             | 3.823                            | 0.18      | 74.24     | 43.45 |
| 3.49       | 91.00            | 13.51      | 124.29           | 33.3             | 3.733                            | 0.15      | 78.79     | 45.50 |
| 4.00       | 93.23            | 12.05      | 127.98           | 34.7             | 3.683                            | 0.13      | 81.36     | 46.62 |
| 4.68       | 95.49            | 10.57      | 131.72           | 36.2             | 3.636                            | 0.11      | 83.97     | 47.75 |
| 5.64       | 97.37            | 9.36       | 134.81           | 37.4             | 3.601                            | 0.10      | 86.13     | 48.69 |
| 6.62       | 99.46            | 8.34       | 137.92           | 38.5             | 3.586                            | 0.08      | 88.19     | 49.73 |
| 7.40       | 99.90            | 7.72       | 138.98           | 39.1             | 3.556                            | 0.08      | 89.03     | 49.95 |
| 8.45       | 99.42            | 7.34       | 138.89           | 39.5             | 3.519                            | 0.07      | 89.18     | 49.71 |
| 9.18       | 99.47            | 7.08       | 139.19           | 39.7             | 3.504                            | 0.07      | 89.46     | 49.74 |
| 9.94       | 98.55            | 6.96       | 138.39           | 39.8             | 3.474                            | 0.07      | 89.11     | 49.28 |
| 10.71      | 97.45            | 7.29       | 136.96           | 39.5             | 3.466                            | 0.07      | 88.24     | 48.72 |
| 11.21      | 96.52            | 7.47       | 135.84           | 39.3             | 3.454                            | 0.08      | 87.59     | 48.26 |
| 11.73      | 95.83            | 7.64       | 135.00           | 39.2             | 3.447                            | 0.08      | 87.08     | 47.92 |
| 12.25      | 95.13            | 7.94       | 134.00           | 38.9             | 3.448                            | 0.08      | 86.43     | 47.57 |
| 12.77      | 93.49            | 8.33       | 131.96           | 38.5             | 3.430                            | 0.09      | 85.21     | 46.75 |
| 13.53      | 92.18            | 8.97       | 130.01           | 37.8             | 3.437                            | 0.10      | 83.92     | 46.09 |
| 14.27      | 90.08            | 9.63       | 127.25           | 37.2             | 3.424                            | 0.11      | 82.21     | 45.04 |
| 14.77      | 89.74            | 10.00      | 126.53           | 36.8             | 3.439                            | 0.11      | 81.66     | 44.87 |
| 15.29      | 89.00            | 10.17      | 125.63           | 36.6             | 3.430                            | 0.11      | 81.13     | 44.50 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 278.1-278.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-11       |
| Lab ID #         | 2013-465-001-009              | Test No.   | 37          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G312                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G720                 | 3/18/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 278.6-279.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 38 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.967 | Diameter 1: | 2.879 |
| Length 2:   | 5.956 | Diameter 2: | 2.887 |
| Length 3:   | 5.920 | Diameter 3: | 2.872 |
| Avg. Length | 5.948 | Avg. Diam.: | 2.879 |

**PRESSURES (psi)**

|                           |       |
|---------------------------|-------|
| Cell Pressure (psi)       | 116.3 |
| Back Pressure (psi)       | 21.7  |
| Eff. Conf. Pressure (psi) | 94.6  |
| Pore Pressure             |       |
| Response (%)              | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 29.0 |
| Final Change (ml)            | 19.0 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 106.29 |
| Q         | = | 62.56  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 54  |
| Dial Reading After Saturation (mil)    | 78  |
| Dial Reading After Consolidation (mil) | 148 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 20.4         | 0.000               | 21.7                   |
| 44.6         | 0.001               | 22.8                   |
| 92.5         | 0.002               | 24.6                   |
| 245.0        | 0.005               | 35.1                   |
| 350.7        | 0.011               | 46.0                   |
| 428.5        | 0.016               | 54.9                   |
| 511.3        | 0.024               | 64.1                   |
| 575.5        | 0.034               | 69.8                   |
| 648.6        | 0.045               | 73.9                   |
| 746.6        | 0.064               | 75.5                   |
| 826.0        | 0.092               | 72.6                   |
| 859.6        | 0.127               | 68.7                   |
| 882.3        | 0.162               | 66.7                   |
| 886.4        | 0.204               | 65.8                   |
| 893.2        | 0.233               | 65.5                   |
| 891.5        | 0.277               | 65.4                   |
| 896.0        | 0.333               | 65.4                   |
| 899.7        | 0.392               | 65.5                   |
| 901.6        | 0.437               | 65.6                   |
| 908.0        | 0.498               | 65.8                   |
| 913.0        | 0.543               | 66.0                   |
| 915.0        | 0.588               | 66.1                   |
| 919.3        | 0.633               | 66.2                   |
| 917.5        | 0.662               | 66.3                   |
| 918.8        | 0.692               | 66.4                   |
| 921.1        | 0.723               | 66.5                   |
| 920.2        | 0.753               | 66.6                   |
| 921.7        | 0.799               | 66.7                   |
| 921.2        | 0.843               | 66.8                   |
| 925.7        | 0.872               | 66.9                   |
| 917.9        | 0.902               | 67.0                   |

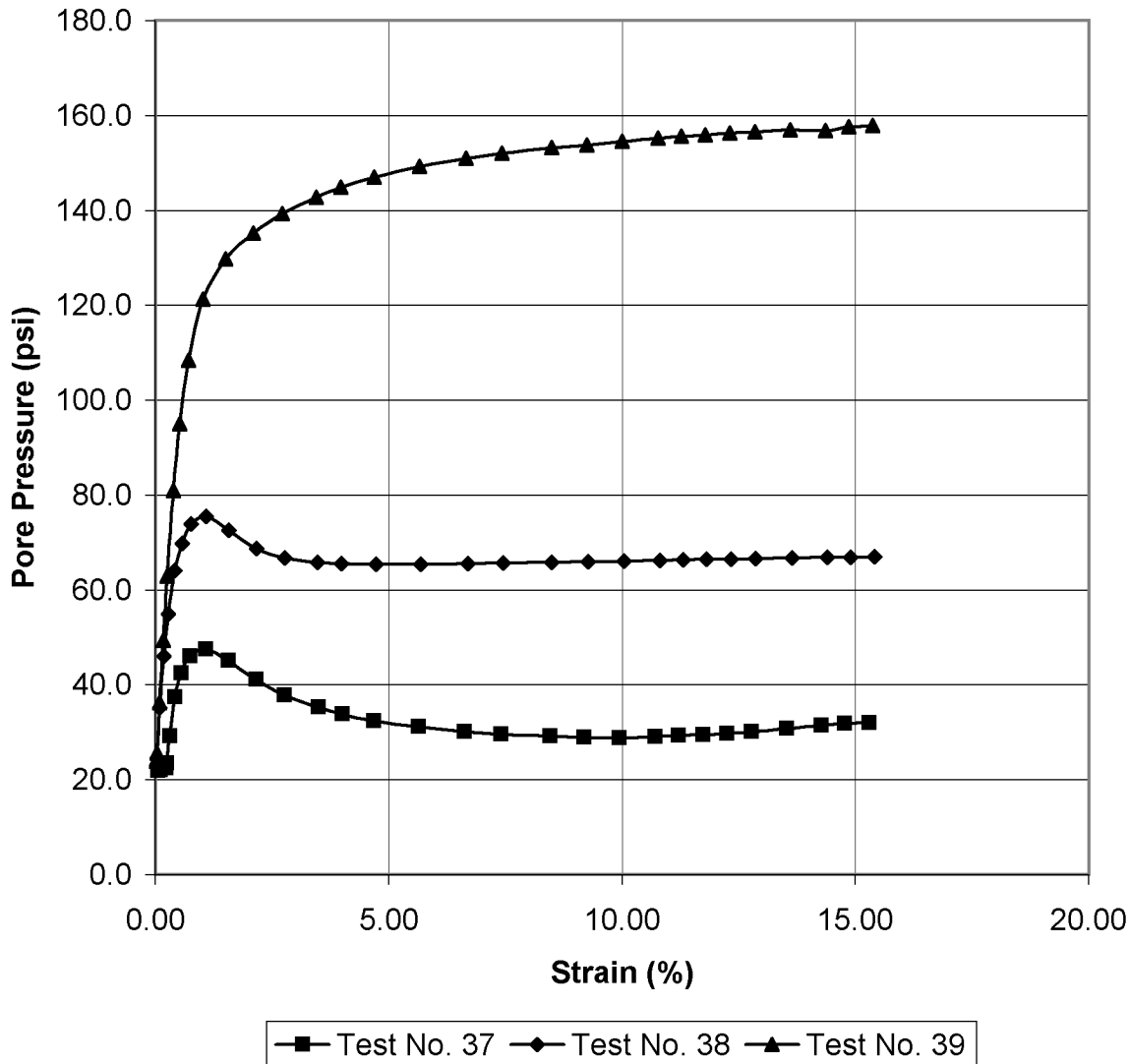
Tested By: JCM      Date: 11/17/13      Input Checked By: KC      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 277.0-279.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

**Pore Pressure vs % Strain**





**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1068

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 278.6-279.1 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 94.6 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 38 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.95  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.73 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.10 |
| Length After Consolidation (in)               | 5.85  |
| Area After Consolidation (in <sup>2</sup> )   | 6.338 |

| Strain (%) | Deviation Stress | Δ U   | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|-------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.02       | 3.81             | 1.05  | 97.36          | 93.5           | 1.041                            | 0.28 | 95.46  | 1.91  |
| 0.03       | 11.38            | 2.90  | 103.08         | 91.7           | 1.124                            | 0.25 | 97.39  | 5.69  |
| 0.09       | 35.41            | 13.42 | 116.59         | 81.2           | 1.436                            | 0.38 | 98.88  | 17.70 |
| 0.19       | 52.02            | 24.35 | 122.27         | 70.3           | 1.740                            | 0.47 | 96.26  | 26.01 |
| 0.28       | 64.21            | 33.20 | 125.61         | 61.4           | 2.046                            | 0.52 | 93.51  | 32.11 |
| 0.42       | 77.14            | 42.42 | 129.32         | 52.2           | 2.478                            | 0.55 | 90.75  | 38.57 |
| 0.57       | 87.08            | 48.10 | 133.58         | 46.5           | 2.873                            | 0.55 | 90.04  | 43.54 |
| 0.76       | 98.36            | 52.20 | 140.75         | 42.4           | 3.320                            | 0.53 | 91.58  | 49.18 |
| 1.09       | 113.32           | 53.83 | 154.09         | 40.8           | 3.780                            | 0.48 | 97.43  | 56.66 |
| 1.58       | 125.11           | 50.87 | 168.84         | 43.7           | 3.861                            | 0.41 | 106.29 | 62.56 |
| 2.18       | 129.53           | 47.03 | 177.10         | 47.6           | 3.723                            | 0.36 | 112.33 | 64.76 |
| 2.77       | 132.22           | 45.05 | 181.77         | 49.6           | 3.668                            | 0.34 | 115.66 | 66.11 |
| 3.48       | 131.89           | 44.14 | 182.35         | 50.5           | 3.614                            | 0.33 | 116.40 | 65.94 |
| 3.99       | 132.23           | 43.81 | 183.02         | 50.8           | 3.604                            | 0.33 | 116.90 | 66.11 |
| 4.73       | 130.94           | 43.70 | 181.84         | 50.9           | 3.573                            | 0.33 | 116.37 | 65.47 |
| 5.69       | 130.29           | 43.69 | 181.20         | 50.9           | 3.559                            | 0.34 | 116.05 | 65.14 |
| 6.70       | 129.45           | 43.82 | 180.23         | 50.8           | 3.549                            | 0.34 | 115.50 | 64.73 |
| 7.46       | 128.67           | 43.92 | 179.35         | 50.7           | 3.539                            | 0.34 | 115.01 | 64.33 |
| 8.50       | 128.14           | 44.09 | 178.64         | 50.5           | 3.537                            | 0.34 | 114.58 | 64.07 |
| 9.27       | 127.78           | 44.25 | 178.13         | 50.3           | 3.538                            | 0.35 | 114.24 | 63.89 |
| 10.04      | 126.98           | 44.39 | 177.19         | 50.2           | 3.529                            | 0.35 | 113.70 | 63.49 |
| 10.81      | 126.50           | 44.53 | 176.57         | 50.1           | 3.526                            | 0.35 | 113.32 | 63.25 |
| 11.31      | 125.53           | 44.64 | 175.49         | 50.0           | 3.513                            | 0.36 | 112.72 | 62.77 |
| 11.82      | 125.00           | 44.74 | 174.86         | 49.9           | 3.507                            | 0.36 | 112.36 | 62.50 |
| 12.34      | 124.58           | 44.78 | 174.40         | 49.8           | 3.500                            | 0.36 | 112.11 | 62.29 |
| 12.86      | 123.71           | 44.90 | 173.41         | 49.7           | 3.489                            | 0.36 | 111.55 | 61.85 |
| 13.65      | 122.81           | 45.00 | 172.41         | 49.6           | 3.476                            | 0.37 | 111.01 | 61.40 |
| 14.40      | 121.66           | 45.12 | 171.14         | 49.5           | 3.459                            | 0.37 | 110.31 | 60.83 |
| 14.90      | 121.55           | 45.21 | 170.94         | 49.4           | 3.461                            | 0.37 | 110.16 | 60.78 |
| 15.41      | 119.79           | 45.28 | 169.11         | 49.3           | 3.429                            | 0.38 | 109.22 | 59.89 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 278.6-279.1 |
| Project No.      | 2013-465-001                  | Sample No. | ST-11       |
| Lab ID #         | 2013-465-001-009              | Test No.   | 38          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G313                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G721                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**  
ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 279.1-279.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 39 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.871 | Diameter 1: | 2.877 |
| Length 2:    | 5.895 | Diameter 2: | 2.884 |
| Length 3:    | 5.875 | Diameter 3: | 2.871 |
| Avg. Length: | 5.880 | Avg. Diam.: | 2.877 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 212.0 |
| Back Pressure (psi)        | 21.9  |
| Eff. Conf. Pressure (psi)  | 190.1 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 24.6 |
| Final Change (ml)            | 23.4 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 131.08 |
| Q         | = | 72.23  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 45  |
| Dial Reading After Saturation (mil)    | 64  |
| Dial Reading After Consolidation (mil) | 132 |

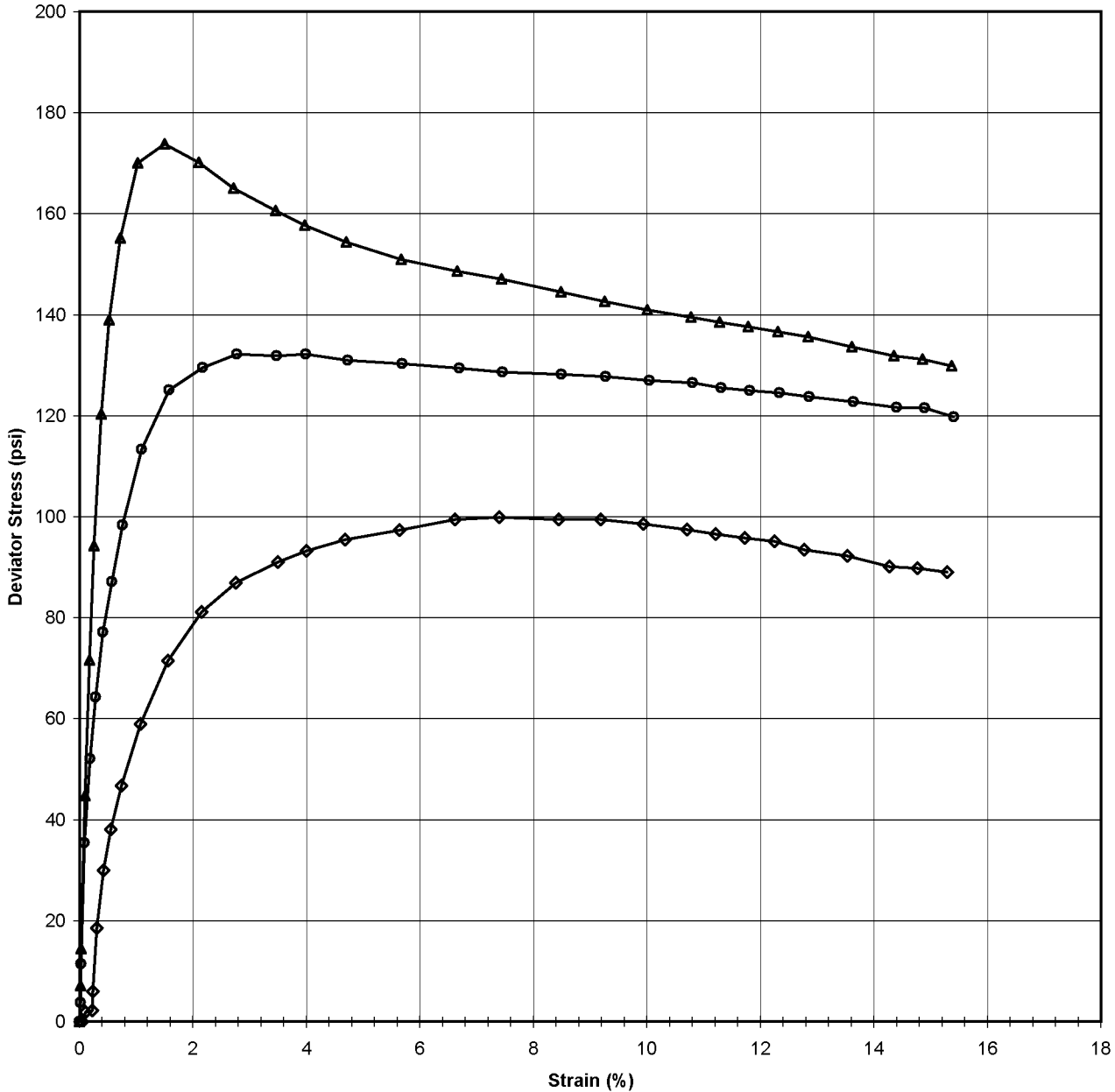
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 41.7         | 0.000               | 21.9                   |
| 86.0         | 0.001               | 23.8                   |
| 132.6        | 0.002               | 25.6                   |
| 323.2        | 0.006               | 36.2                   |
| 492.5        | 0.010               | 49.3                   |
| 636.2        | 0.015               | 62.9                   |
| 801.1        | 0.022               | 80.9                   |
| 920.0        | 0.030               | 95.0                   |
| 1024.5       | 0.042               | 108.4                  |
| 1122.2       | 0.059               | 121.2                  |
| 1151.8       | 0.087               | 129.7                  |
| 1135.0       | 0.122               | 135.2                  |
| 1108.7       | 0.158               | 139.3                  |
| 1088.1       | 0.200               | 142.7                  |
| 1075.0       | 0.230               | 144.8                  |
| 1060.9       | 0.272               | 146.9                  |
| 1047.9       | 0.328               | 149.3                  |
| 1042.9       | 0.386               | 151.0                  |
| 1041.0       | 0.431               | 152.0                  |
| 1034.6       | 0.492               | 153.2                  |
| 1030.3       | 0.536               | 153.7                  |
| 1027.0       | 0.580               | 154.6                  |
| 1024.8       | 0.624               | 155.2                  |
| 1023.5       | 0.654               | 155.6                  |
| 1023.3       | 0.683               | 155.8                  |
| 1021.9       | 0.713               | 156.3                  |
| 1020.2       | 0.744               | 156.5                  |
| 1014.8       | 0.789               | 156.9                  |
| 1009.9       | 0.832               | 156.8                  |
| 1010.8       | 0.861               | 157.5                  |
| 1006.9       | 0.891               | 157.9                  |

Tested By: JCM      Date: 11/17/13      Input Checked By: KC      Date: 12/4/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 277.0-279.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-11       |
| Lab ID:             | 2013-465-001-009                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 37                      ● Test No. 38                      ▲ Test No. 39

E50 Test No. 37    6924.496                      E50 Test No. 38    23223.93                      E50 Test No. 39    40021.69

Tested By: JCM                      Date: 11/17/13                      Approved By: DB                      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1072

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 279.1-279.6 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-11       |
| Lab ID:           | 2013-465-001-009              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 190.1 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 39 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.88  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.50  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.24 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.44 |
| Length After Consolidation (in)               | 5.79  |
| Area After Consolidation (in <sup>2</sup> )   | 6.290 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|--------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.02       | 7.05             | 1.94   | 195.21         | 188.2          | 1.037                            | 0.28 | 191.68 | 3.52  |
| 0.03       | 14.44            | 3.72   | 200.82         | 186.4          | 1.077                            | 0.26 | 193.60 | 7.22  |
| 0.10       | 44.72            | 14.32  | 220.50         | 175.8          | 1.254                            | 0.32 | 198.14 | 22.36 |
| 0.18       | 71.55            | 27.42  | 234.23         | 162.7          | 1.440                            | 0.38 | 198.45 | 35.78 |
| 0.26       | 94.27            | 40.99  | 243.39         | 149.1          | 1.632                            | 0.43 | 196.25 | 47.14 |
| 0.39       | 120.27           | 59.05  | 251.33         | 131.1          | 1.918                            | 0.49 | 191.19 | 60.14 |
| 0.53       | 138.91           | 73.08  | 255.92         | 117.0          | 2.187                            | 0.53 | 186.47 | 69.45 |
| 0.72       | 155.14           | 86.47  | 258.77         | 103.6          | 2.497                            | 0.56 | 181.20 | 77.57 |
| 1.03       | 170.03           | 99.31  | 260.83         | 90.8           | 2.873                            | 0.58 | 175.81 | 85.02 |
| 1.50       | 173.85           | 107.84 | 256.11         | 82.3           | 3.113                            | 0.62 | 169.18 | 86.92 |
| 2.10       | 170.17           | 113.31 | 246.96         | 76.8           | 3.216                            | 0.67 | 161.88 | 85.09 |
| 2.72       | 165.03           | 117.39 | 237.74         | 72.7           | 3.270                            | 0.71 | 155.22 | 82.51 |
| 3.46       | 160.62           | 120.81 | 229.90         | 69.3           | 3.318                            | 0.75 | 149.59 | 80.31 |
| 3.97       | 157.76           | 122.92 | 224.94         | 67.2           | 3.348                            | 0.78 | 146.06 | 78.88 |
| 4.70       | 154.44           | 125.03 | 219.51         | 65.1           | 3.373                            | 0.81 | 142.29 | 77.22 |
| 5.67       | 150.90           | 127.36 | 213.64         | 62.7           | 3.405                            | 0.84 | 138.19 | 75.45 |
| 6.66       | 148.58           | 129.10 | 209.58         | 61.0           | 3.436                            | 0.87 | 135.29 | 74.29 |
| 7.44       | 147.07           | 130.10 | 207.08         | 60.0           | 3.451                            | 0.88 | 133.54 | 73.54 |
| 8.49       | 144.47           | 131.25 | 203.32         | 58.8           | 3.455                            | 0.91 | 131.08 | 72.23 |
| 9.25       | 142.63           | 131.82 | 200.91         | 58.3           | 3.447                            | 0.92 | 129.60 | 71.31 |
| 10.01      | 140.98           | 132.67 | 198.41         | 57.4           | 3.455                            | 0.94 | 127.92 | 70.49 |
| 10.78      | 139.46           | 133.32 | 196.24         | 56.8           | 3.456                            | 0.96 | 126.51 | 69.73 |
| 11.28      | 138.50           | 133.67 | 194.93         | 56.4           | 3.454                            | 0.97 | 125.68 | 69.25 |
| 11.79      | 137.66           | 133.94 | 193.82         | 56.2           | 3.451                            | 0.97 | 124.99 | 68.83 |
| 12.31      | 136.66           | 134.40 | 192.37         | 55.7           | 3.454                            | 0.98 | 124.03 | 68.33 |
| 12.85      | 135.59           | 134.56 | 191.13         | 55.5           | 3.441                            | 0.99 | 123.34 | 67.79 |
| 13.61      | 133.66           | 134.98 | 188.78         | 55.1           | 3.425                            | 1.01 | 121.95 | 66.83 |
| 14.36      | 131.84           | 134.94 | 187.00         | 55.2           | 3.390                            | 1.02 | 121.08 | 65.92 |
| 14.86      | 131.19           | 135.65 | 185.64         | 54.5           | 3.409                            | 1.03 | 120.05 | 65.59 |
| 15.38      | 129.86           | 136.01 | 183.95         | 54.1           | 3.401                            | 1.05 | 119.02 | 64.93 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 279.1-279.6 |
| Project No.      | 2013-465-001                  | Sample No. | ST-11       |
| Lab ID #         | 2013-465-001-009              | Test No.   | 39          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G314                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G1294                | 3/4/14                      |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-009                      Specific Gravity (measured)                      2.63

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 278.1-278.6 | 278.6-279.1 | 279.1-279.6 |
| Sample No.:                    | ST-11       | ST-11       | ST-11       |
| Test No.                       | T37         | T38         | T39         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.8        | 21.7        | 21.9        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 30.5        | 30.5        | 30.5        |
| Total Unit Weight (pcf)        | 118.6       | 118.6       | 119.4       |
| Dry Unit Weight (pcf)          | 90.9        | 90.8        | 91.5        |
| Moisture Content (%) (FINAL)   | 29.5        | 28.4        | 28.2        |
| Initial State Void Ratio, e    | 0.807       | 0.808       | 0.795       |
| Void Ratio at Shear, e         | 0.750       | 0.732       | 0.711       |



Tested By: JCM                      Date: 11/17/13                      Input Checked By: KC                      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T37    | T38     | T39     |
|---------------------------------|--------|---------|---------|
| Tare Number                     | 1125   | 1125    | 1125    |
| Weight of Tare & Wet Sample (g) | 238.65 | 238.65  | 238.65  |
| Weight of Tare & Dry Sample (g) | 202.5  | 202.5   | 202.5   |
| Weight of Tare (g)              | 84.1   | 84.1    | 84.1    |
| Moisture Content (%) (INITIAL)  | 30.53  | 30.53   | 30.53   |
|                                 |        |         |         |
| Tare Number                     | 607    | 690     | 1453    |
| Weight of Tare & Wet Sample (g) | 403.8  | 1275.05 | 1316.95 |
| Weight of Tare & Dry Sample (g) | 330.72 | 1014.4  | 1059.06 |
| Weight of Tare (g)              | 82.8   | 95.45   | 145.52  |
| Moisture Content (%) (FINAL)    | 29.48  | 28.36   | 28.23   |

**UNIT WEIGHT**

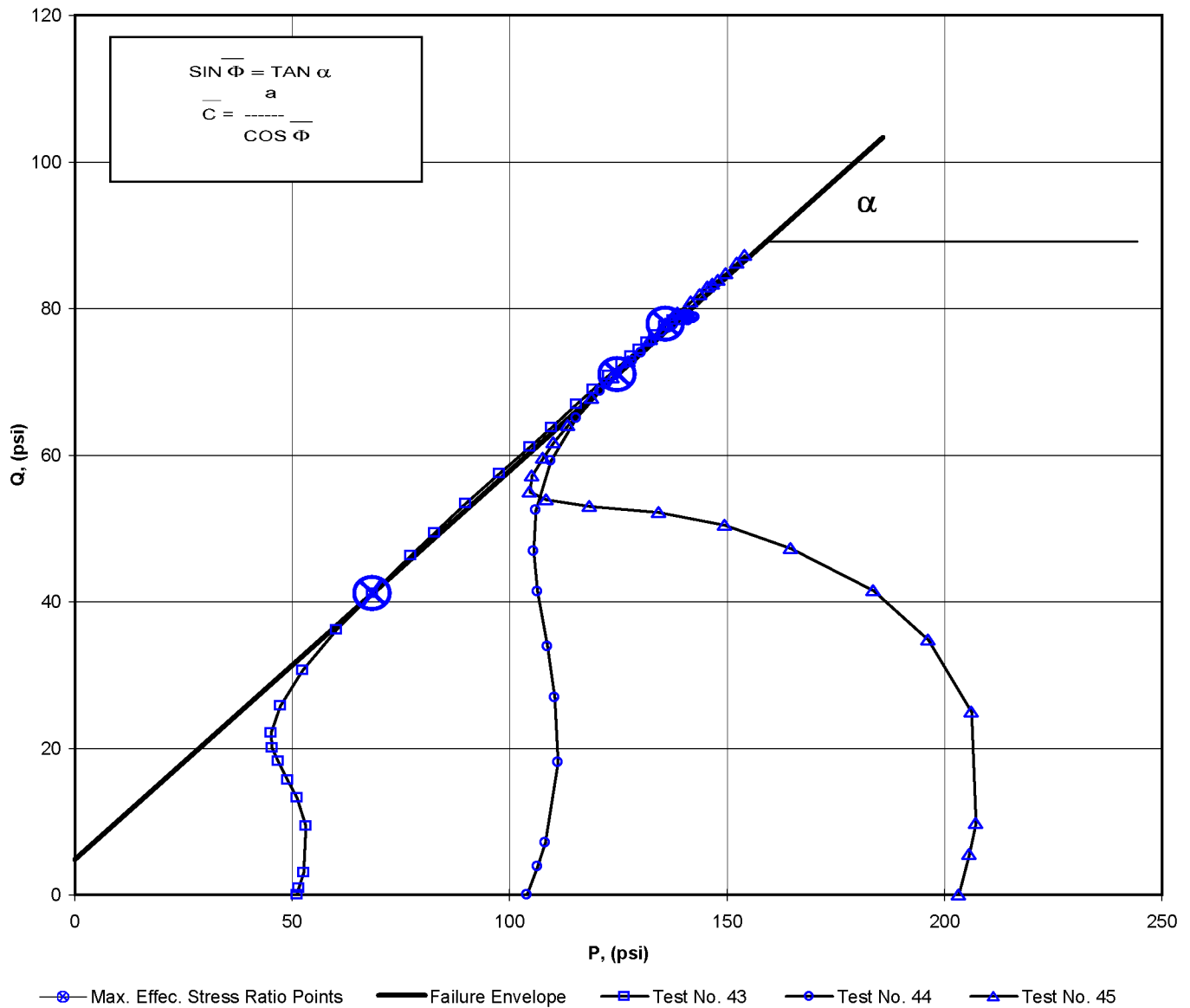
|                                      |                     |            |             |
|--------------------------------------|---------------------|------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1624.2              | 1621.62    | 1608.83     |
| Weight of Tube (g)                   | 415.96              | 416.45     | 410.61      |
| Weight of Wet Sample (g)             | 1208.24             | 1205.17    | 1198.22     |
| Length 1 (in)                        | 5.935               | 5.967      | 5.871       |
| Length 2 (in)                        | 5.952               | 5.956      | 5.895       |
| Length 3 (in)                        | 5.957               | 5.92       | 5.875       |
| Top Diameter (in)                    | 2.88                | 2.879      | 2.877       |
| Middle Diameter (in)                 | 2.884               | 2.887      | 2.884       |
| Bottom Diameter (in)                 | 2.883               | 2.872      | 2.871       |
| Average Length (in)                  | 5.948               | 5.947667   | 5.880333    |
| Average Area (in <sup>2</sup> )      | 6.525               | 6.511      | 6.502       |
| Sample Volume (cm <sup>3</sup> )     | 635.99              | 634.63     | 626.58      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.90                | 1.90       | 1.91        |
| Unit Wet Weight (pcf)                | 118.60              | 118.56     | 119.39      |
| Unit Dry Weight (pcf)                | 90.86               | 90.82      | 91.46       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.46                | 1.46       | 1.47        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>  | <b>48</b>   |
| Final Burette Reading                | <b>33.9</b>         | <b>29</b>  | <b>24.6</b> |
| Initial Dial Reading                 | <b>53</b>           | <b>54</b>  | <b>45</b>   |
| Dial Reading After Saturation        | <b>72</b>           | <b>78</b>  | <b>64</b>   |
| Dial Reading After Consolidation     | <b>110</b>          | <b>148</b> | <b>132</b>  |
| Volume Change during Consolidation   | 14.1                | 19         | 23.4        |
| Volume Change during Saturation      | 6.09                | 7.68       | 6.07        |
| Volume at Shear (cm <sup>3</sup> )   | *These 615.80       | 607.95     | 597.10      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 351.95 | 351.06     | 349.03      |
| Volume of Voids (cm <sup>3</sup> )   | are all 263.85      | 256.89     | 248.07      |
| Volume of Water (cm <sup>3</sup> )   | at 272.85           | 261.88     | 259.14      |
| Void Ratio, e                        | shear 0.750         | 0.732      | 0.711       |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 298.0-300.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

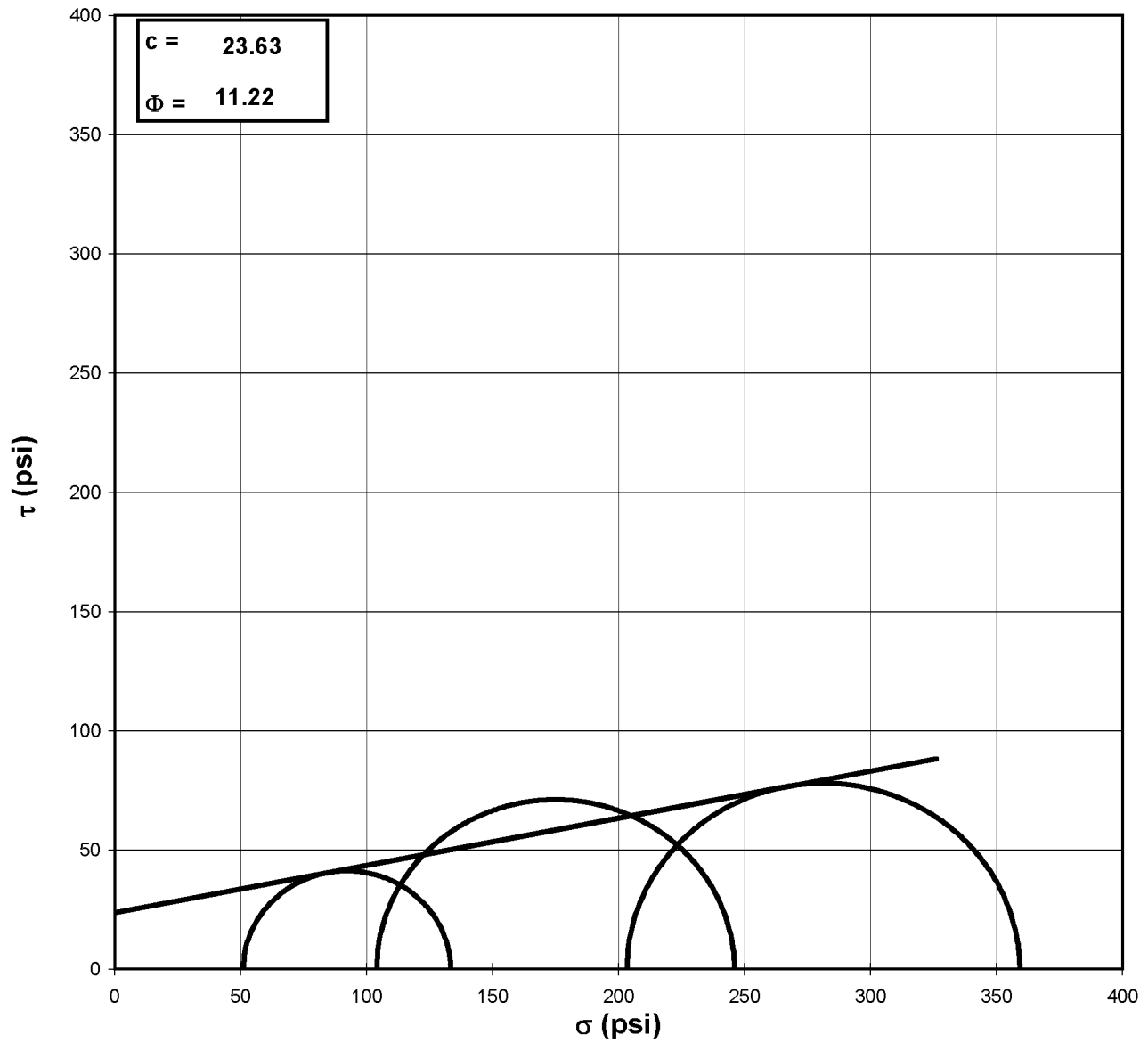


|                            |          |             |                                     |          |              |
|----------------------------|----------|-------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>4.83</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>5.69</b>  |
| <b><math>\alpha</math></b> | <b>=</b> | <b>27.9</b> | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>32.01</b> |

Tested By: JCM      Date: 11/19/13      Approved By: DB      Date: 12/4/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 298.0-300.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-13       |
| Lab ID:             | 2013-465-001-011                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/19/13      Approved By: DB      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 299.2-299.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 43 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.914 | Diameter 1: | 2.877 |
| Length 2:    | 5.918 | Diameter 2: | 2.881 |
| Length 3:    | 5.918 | Diameter 3: | 2.870 |
| Avg. Length: | 5.917 | Avg. Diam.: | 2.876 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 72.5 |
| Back Pressure (psi)        | 21.4 |
| Eff. Conf. Pressure (psi)  | 51.1 |
| Pore Pressure Response (%) | 99   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 29.5 |
| Final Change (ml)            | 18.5 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |       |
|-----------|---|-------|
| $\bar{P}$ | = | 68.48 |
| Q         | = | 41.12 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 50  |
| Dial Reading After Saturation (mil)    | 110 |
| Dial Reading After Consolidation (mil) | 156 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 13.7         | 0.000               | 21.4                   |
| 24.9         | 0.001               | 21.9                   |
| 51.3         | 0.002               | 22.8                   |
| 130.3        | 0.006               | 28.6                   |
| 178.5        | 0.011               | 34.6                   |
| 209.2        | 0.016               | 39.2                   |
| 241.2        | 0.025               | 44.0                   |
| 264.0        | 0.034               | 47.1                   |
| 290.7        | 0.046               | 49.5                   |
| 338.3        | 0.066               | 51.1                   |
| 400.7        | 0.095               | 50.7                   |
| 473.7        | 0.130               | 48.4                   |
| 540.1        | 0.164               | 45.1                   |
| 610.0        | 0.204               | 41.5                   |
| 653.7        | 0.233               | 39.1                   |
| 710.3        | 0.275               | 35.9                   |
| 772.1        | 0.332               | 32.3                   |
| 828.8        | 0.390               | 28.9                   |
| 870.9        | 0.434               | 26.6                   |
| 923.0        | 0.493               | 24.0                   |
| 958.5        | 0.537               | 22.3                   |
| 992.9        | 0.583               | 20.6                   |
| 1024.1       | 0.627               | 19.1                   |
| 1044.0       | 0.656               | 18.1                   |
| 1062.7       | 0.686               | 17.2                   |
| 1083.5       | 0.715               | 16.4                   |
| 1103.8       | 0.745               | 15.5                   |
| 1131.2       | 0.791               | 14.4                   |
| 1153.4       | 0.836               | 13.4                   |
| 1169.1       | 0.865               | 12.6                   |
| 1185.8       | 0.895               | 12.1                   |

Tested By: JCM      Date: 11/19/13      Input Checked By: KC      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1079

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 299.2-299.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 51.1 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 43 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.92  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.50  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.44 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.14 |
| Length After Consolidation (in)               | 5.81  |
| Area After Consolidation (in <sup>2</sup> )   | 6.219 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.02       | 1.81             | 0.45       | 52.45            | 50.6             | 1.036                            | 0.25      | 51.55     | 0.90  |
| 0.03       | 6.04             | 1.44       | 55.70            | 49.7             | 1.122                            | 0.24      | 52.68     | 3.02  |
| 0.11       | 18.72            | 7.24       | 62.58            | 43.9             | 1.427                            | 0.39      | 53.22     | 9.36  |
| 0.19       | 26.45            | 13.18      | 64.37            | 37.9             | 1.698                            | 0.50      | 51.15     | 13.23 |
| 0.28       | 31.35            | 17.79      | 64.66            | 33.3             | 1.941                            | 0.57      | 48.99     | 15.68 |
| 0.43       | 36.42            | 22.57      | 64.94            | 28.5             | 2.277                            | 0.63      | 46.73     | 18.21 |
| 0.58       | 40.02            | 25.69      | 65.43            | 25.4             | 2.575                            | 0.65      | 45.42     | 20.01 |
| 0.78       | 44.19            | 28.06      | 67.23            | 23.0             | 2.918                            | 0.64      | 45.14     | 22.09 |
| 1.14       | 51.61            | 29.67      | 73.04            | 21.4             | 3.408                            | 0.58      | 47.23     | 25.80 |
| 1.63       | 61.21            | 29.34      | 82.97            | 21.8             | 3.813                            | 0.48      | 52.37     | 30.60 |
| 2.24       | 72.31            | 27.02      | 96.38            | 24.1             | 4.003                            | 0.38      | 60.23     | 36.15 |
| 2.82       | 82.25            | 23.74      | 109.60           | 27.4             | 4.007                            | 0.29      | 68.48     | 41.12 |
| 3.51       | 92.51            | 20.08      | 123.53           | 31.0             | 3.982                            | 0.22      | 77.28     | 46.26 |
| 4.01       | 98.78            | 17.74      | 132.14           | 33.4             | 3.961                            | 0.18      | 82.75     | 49.39 |
| 4.74       | 106.71           | 14.55      | 143.26           | 36.6             | 3.919                            | 0.14      | 89.91     | 53.35 |
| 5.71       | 114.99           | 10.90      | 155.18           | 40.2             | 3.861                            | 0.10      | 97.69     | 57.49 |
| 6.72       | 122.25           | 7.54       | 165.81           | 43.6             | 3.807                            | 0.06      | 104.68    | 61.13 |
| 7.47       | 127.53           | 5.21       | 173.43           | 45.9             | 3.779                            | 0.04      | 109.66    | 63.77 |
| 8.49       | 133.80           | 2.65       | 182.25           | 48.5             | 3.761                            | 0.02      | 115.35    | 66.90 |
| 9.25       | 137.86           | 0.87       | 188.09           | 50.2             | 3.745                            | 0.01      | 119.16    | 68.93 |
| 10.04      | 141.64           | -0.80      | 193.54           | 51.9             | 3.729                            | -0.01     | 122.72    | 70.82 |
| 10.80      | 144.92           | -2.32      | 198.34           | 53.4             | 3.713                            | -0.02     | 125.88    | 72.46 |
| 11.30      | 146.95           | -3.33      | 201.38           | 54.4             | 3.700                            | -0.02     | 127.90    | 73.48 |
| 11.80      | 148.76           | -4.25      | 204.11           | 55.3             | 3.688                            | -0.03     | 129.73    | 74.38 |
| 12.31      | 150.84           | -5.04      | 206.98           | 56.1             | 3.687                            | -0.03     | 131.56    | 75.42 |
| 12.82      | 152.80           | -5.85      | 209.75           | 57.0             | 3.683                            | -0.04     | 133.35    | 76.40 |
| 13.61      | 155.24           | -6.96      | 213.29           | 58.1             | 3.674                            | -0.05     | 135.68    | 77.62 |
| 14.38      | 156.89           | -7.97      | 215.96           | 59.1             | 3.656                            | -0.05     | 137.51    | 78.45 |
| 14.89      | 158.11           | -8.75      | 217.96           | 59.9             | 3.642                            | -0.06     | 138.91    | 79.05 |
| 15.40      | 159.43           | -9.35      | 219.88           | 60.4             | 3.637                            | -0.06     | 140.17    | 79.72 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 299.2-299.7 |
| Project No.      | 2013-465-001                  | Sample No. | ST-13       |
| Lab ID #         | 2013-465-001-011              | Test No.   | 43          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G332                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G1457                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1081

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 298.7-299.2 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 44 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.972 | Diameter 1: | 2.877 |
| Length 2:   | 5.945 | Diameter 2: | 2.868 |
| Length 3:   | 5.963 | Diameter 3: | 2.867 |
| Avg. Length | 5.960 | Avg. Diam.: | 2.871 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 125.7 |
| Back Pressure (psi)        | 21.7  |
| Eff. Conf. Pressure (psi)  | 104.0 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 28.2 |
| Final Change (ml)            | 19.8 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 124.85 |
| Q         | = | 71.00  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 56  |
| Dial Reading After Saturation (mil)    | 70  |
| Dial Reading After Consolidation (mil) | 110 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 29.8         | 0.000               | 21.7                   |
| 77.9         | 0.001               | 23.0                   |
| 118.9        | 0.002               | 24.6                   |
| 256.8        | 0.006               | 32.7                   |
| 368.3        | 0.010               | 42.2                   |
| 456.3        | 0.015               | 50.9                   |
| 551.8        | 0.024               | 60.6                   |
| 622.5        | 0.033               | 67.1                   |
| 693.8        | 0.044               | 72.1                   |
| 782.2        | 0.066               | 75.5                   |
| 860.1        | 0.097               | 75.4                   |
| 912.8        | 0.132               | 73.6                   |
| 947.5        | 0.166               | 71.9                   |
| 977.5        | 0.206               | 70.3                   |
| 997.5        | 0.235               | 69.4                   |
| 1024.7       | 0.278               | 68.3                   |
| 1053.5       | 0.337               | 67.4                   |
| 1071.6       | 0.396               | 66.4                   |
| 1084.4       | 0.439               | 65.8                   |
| 1104.6       | 0.497               | 65.0                   |
| 1125.2       | 0.543               | 64.5                   |
| 1133.9       | 0.590               | 64.1                   |
| 1142.4       | 0.634               | 63.5                   |
| 1144.5       | 0.663               | 63.4                   |
| 1146.9       | 0.691               | 63.1                   |
| 1150.5       | 0.719               | 62.9                   |
| 1159.7       | 0.749               | 62.6                   |
| 1174.9       | 0.795               | 62.4                   |
| 1182.3       | 0.842               | 62.2                   |
| 1191.3       | 0.872               | 61.9                   |
| 1196.8       | 0.900               | 61.9                   |

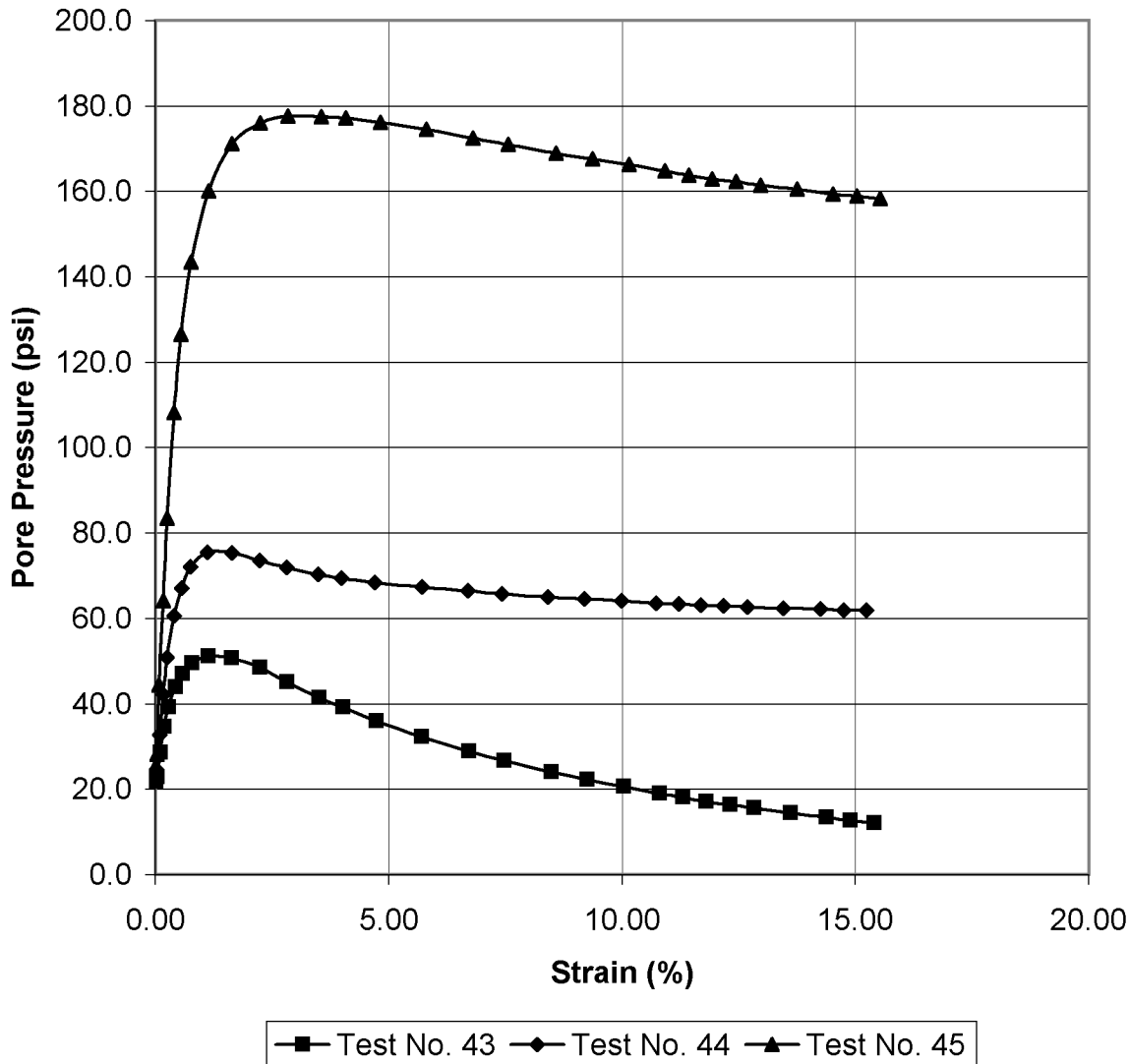
Tested By: JCM      Date: 11/19/13      Input Checked By: KC      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 298.0-300.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1083

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 298.7-299.2 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 104.0 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 44 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.96  |
| Initial Sample Diameter (in)             | 2.87  |
| Initial Sample Area (in <sup>2</sup> )   | 6.47  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.57 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.09 |
| Length After Consolidation (in)               | 5.91  |
| Area After Consolidation (in <sup>2</sup> )   | 6.281 |

| Strain (%) | Deviation Stress | Δ U   | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|-------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.01       | 7.66             | 1.33  | 110.33         | 102.7          | 1.075                            | 0.17 | 106.50 | 3.83  |
| 0.03       | 14.18            | 2.86  | 115.32         | 101.1          | 1.140                            | 0.20 | 108.23 | 7.09  |
| 0.10       | 36.11            | 10.95 | 129.16         | 93.0           | 1.388                            | 0.30 | 111.11 | 18.06 |
| 0.18       | 53.80            | 20.49 | 137.31         | 83.5           | 1.644                            | 0.38 | 110.41 | 26.90 |
| 0.26       | 67.72            | 29.16 | 142.56         | 74.8           | 1.905                            | 0.43 | 108.70 | 33.86 |
| 0.40       | 82.78            | 38.90 | 147.88         | 65.1           | 2.272                            | 0.47 | 106.49 | 41.39 |
| 0.57       | 93.84            | 45.38 | 152.46         | 58.6           | 2.601                            | 0.48 | 105.54 | 46.92 |
| 0.75       | 104.93           | 50.40 | 158.52         | 53.6           | 2.958                            | 0.48 | 106.06 | 52.46 |
| 1.12       | 118.47           | 53.75 | 168.71         | 50.2           | 3.358                            | 0.45 | 109.48 | 59.23 |
| 1.64       | 130.03           | 53.69 | 180.34         | 50.3           | 3.584                            | 0.41 | 115.33 | 65.01 |
| 2.23       | 137.45           | 51.87 | 189.59         | 52.1           | 3.637                            | 0.38 | 120.86 | 68.73 |
| 2.82       | 142.00           | 50.15 | 195.85         | 53.8           | 3.637                            | 0.35 | 124.85 | 71.00 |
| 3.49       | 145.63           | 48.55 | 201.08         | 55.4           | 3.626                            | 0.33 | 128.26 | 72.81 |
| 3.99       | 147.92           | 47.71 | 204.22         | 56.3           | 3.628                            | 0.32 | 130.25 | 73.96 |
| 4.70       | 150.95           | 46.63 | 208.32         | 57.4           | 3.631                            | 0.31 | 132.85 | 75.47 |
| 5.71       | 153.68           | 45.68 | 212.00         | 58.3           | 3.635                            | 0.30 | 135.16 | 76.84 |
| 6.71       | 154.75           | 44.71 | 214.04         | 59.3           | 3.610                            | 0.29 | 136.66 | 77.38 |
| 7.43       | 155.43           | 44.09 | 215.34         | 59.9           | 3.595                            | 0.28 | 137.62 | 77.72 |
| 8.42       | 156.73           | 43.33 | 217.40         | 60.7           | 3.583                            | 0.28 | 139.03 | 78.36 |
| 9.19       | 158.38           | 42.80 | 219.58         | 61.2           | 3.588                            | 0.27 | 140.39 | 79.19 |
| 9.99       | 158.23           | 42.36 | 219.87         | 61.6           | 3.567                            | 0.27 | 140.76 | 79.12 |
| 10.73      | 158.14           | 41.77 | 220.37         | 62.2           | 3.541                            | 0.26 | 141.30 | 79.07 |
| 11.22      | 157.57           | 41.69 | 219.88         | 62.3           | 3.529                            | 0.26 | 141.09 | 78.79 |
| 11.70      | 157.05           | 41.39 | 219.66         | 62.6           | 3.509                            | 0.26 | 141.13 | 78.53 |
| 12.18      | 156.70           | 41.16 | 219.54         | 62.8           | 3.494                            | 0.26 | 141.19 | 78.35 |
| 12.69      | 157.07           | 40.94 | 220.13         | 63.1           | 3.491                            | 0.26 | 141.59 | 78.54 |
| 13.46      | 157.78           | 40.69 | 221.09         | 63.3           | 3.492                            | 0.26 | 142.20 | 78.89 |
| 14.25      | 157.34           | 40.46 | 220.88         | 63.5           | 3.476                            | 0.26 | 142.21 | 78.67 |
| 14.76      | 157.64           | 40.20 | 221.44         | 63.8           | 3.471                            | 0.26 | 142.62 | 78.82 |
| 15.24      | 157.49           | 40.16 | 221.33         | 63.8           | 3.467                            | 0.26 | 142.58 | 78.75 |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 298.7-299.2 |
| Project No.      | 2013-465-001                  | Sample No. | ST-13       |
| Lab ID #         | 2013-465-001-011              | Test No.   | 44          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G330                 | INITIAL ONLY                |
| Load Cell                | G1437                | 1/7/14                      |
| Cell Pressure Transducer | G1513                | 11/7/14                     |
| Pore Pressure Transducer | G1515                | 11/7/14                     |
| Extensometer             | G1516                | 11/7/14                     |
| Load Frame               | G1434                | 1/7/14                      |
| Dial Indicator           | G528                 | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 298.2-298.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 45 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.873 | Diameter 1: | 2.881 |
| Length 2:    | 5.885 | Diameter 2: | 2.872 |
| Length 3:    | 5.881 | Diameter 3: | 2.884 |
| Avg. Length: | 5.880 | Avg. Diam.: | 2.879 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 225.6 |
| Back Pressure (psi)        | 22.2  |
| Eff. Conf. Pressure (psi)  | 203.4 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 72.0 |
| Final Burette Reading (ml)   | 31.7 |
| Final Change (ml)            | 40.3 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |        |
|---|---|--------|
| P | = | 135.88 |
| Q | = | 77.92  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 42  |
| Dial Reading After Saturation (mil)    | 56  |
| Dial Reading After Consolidation (mil) | 171 |

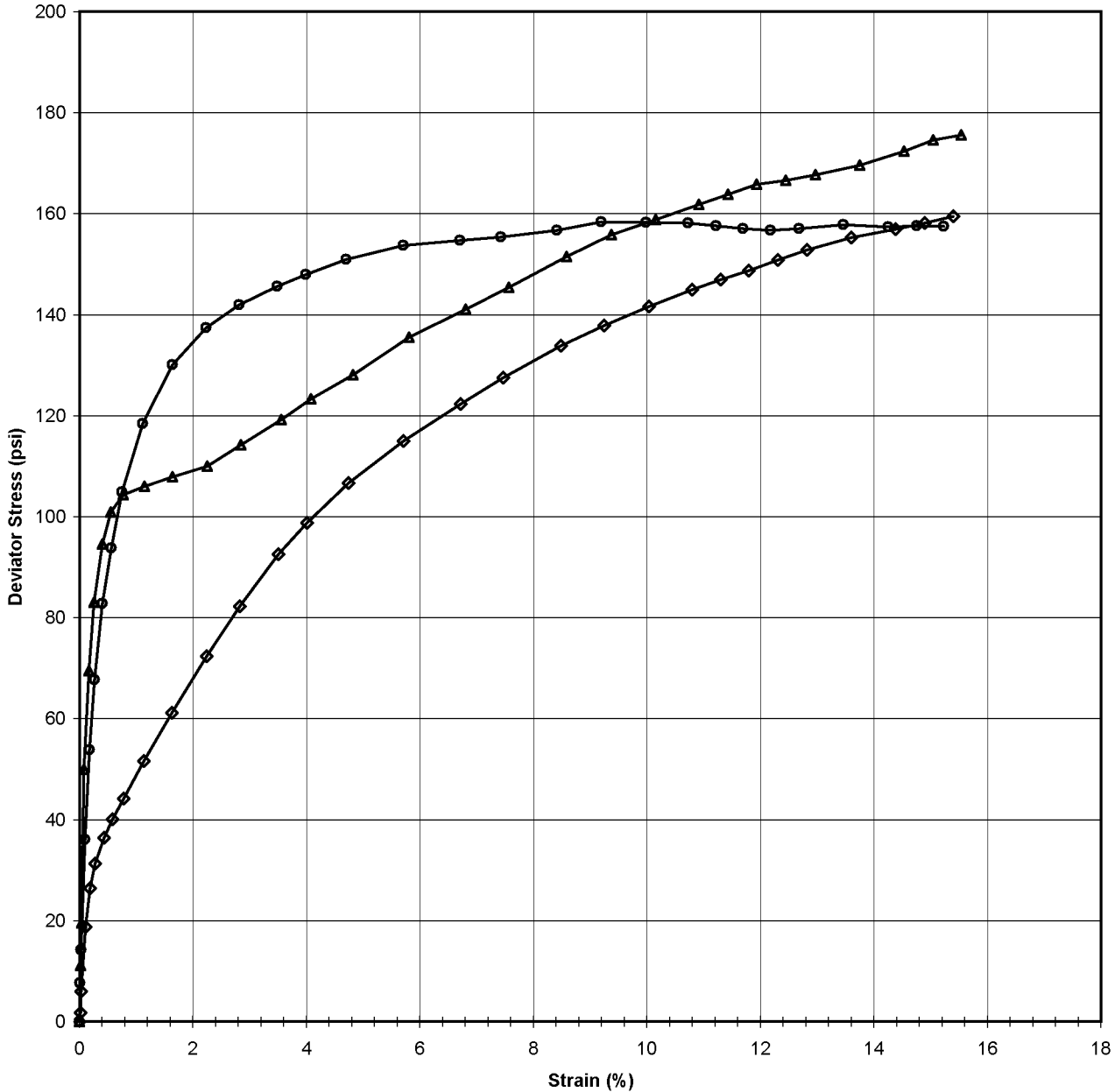
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 44.7         | 0.000               | 22.2                   |
| 113.1        | 0.001               | 25.4                   |
| 165.8        | 0.002               | 28.1                   |
| 353.4        | 0.005               | 44.3                   |
| 475.2        | 0.010               | 64.1                   |
| 559.0        | 0.015               | 83.4                   |
| 631.5        | 0.023               | 108.2                  |
| 672.0        | 0.032               | 126.5                  |
| 694.8        | 0.044               | 143.4                  |
| 707.4        | 0.066               | 160.1                  |
| 722.6        | 0.094               | 171.0                  |
| 740.2        | 0.130               | 176.0                  |
| 771.6        | 0.164               | 177.6                  |
| 808.8        | 0.204               | 177.5                  |
| 839.6        | 0.235               | 177.1                  |
| 876.7        | 0.277               | 176.1                  |
| 934.1        | 0.334               | 174.5                  |
| 980.1        | 0.392               | 172.4                  |
| 1017.1       | 0.435               | 171.0                  |
| 1069.1       | 0.494               | 168.9                  |
| 1107.5       | 0.539               | 167.6                  |
| 1136.9       | 0.584               | 166.2                  |
| 1167.4       | 0.628               | 164.8                  |
| 1187.8       | 0.657               | 163.7                  |
| 1208.4       | 0.686               | 162.9                  |
| 1221.0       | 0.716               | 162.2                  |
| 1235.5       | 0.746               | 161.4                  |
| 1260.0       | 0.791               | 160.6                  |
| 1291.0       | 0.836               | 159.4                  |
| 1314.8       | 0.865               | 158.8                  |
| 1329.8       | 0.894               | 158.3                  |

Tested By: JCM      Date: 11/19/13      Input Checked By: KC      Date: 12/4/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 298.0-300.7 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-13       |
| Lab ID:             | 2013-465-001-011                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 43                      ● Test No. 44                      ▲ Test No. 45

E50 Test No. 43 6482.568                      E50 Test No. 44 24281.12                      E50 Test No. 45 34612.11

Tested By: JCM                      Date: 11/19/13                      Approved By: DB                      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1087

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 298.2-298.7 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-13       |
| Lab ID:           | 2013-465-001-011              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 203.4 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 45 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.88  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.28 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 35.54 |
| Length After Consolidation (in)               | 5.75  |
| Area After Consolidation (in <sup>2</sup> )   | 6.181 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A    | P      | Q     |
|------------|------------------|--------|----------------|----------------|----------------------------------|------|--------|-------|
| 0.02       | 11.07            | 3.18   | 211.29         | 200.2          | 1.055                            | 0.29 | 205.75 | 5.53  |
| 0.03       | 19.58            | 5.91   | 217.07         | 197.5          | 1.099                            | 0.30 | 207.28 | 9.79  |
| 0.08       | 49.91            | 22.12  | 231.19         | 181.3          | 1.275                            | 0.44 | 206.24 | 24.95 |
| 0.17       | 69.53            | 41.86  | 231.07         | 161.5          | 1.430                            | 0.60 | 196.30 | 34.76 |
| 0.26       | 83.00            | 61.22  | 225.18         | 142.2          | 1.584                            | 0.74 | 183.68 | 41.50 |
| 0.41       | 94.56            | 85.97  | 211.99         | 117.4          | 1.805                            | 0.91 | 164.71 | 47.28 |
| 0.56       | 100.93           | 104.32 | 200.01         | 99.1           | 2.019                            | 1.03 | 149.55 | 50.47 |
| 0.77       | 104.38           | 121.18 | 186.60         | 82.2           | 2.269                            | 1.16 | 134.41 | 52.19 |
| 1.14       | 106.00           | 137.91 | 171.49         | 65.5           | 2.619                            | 1.30 | 118.49 | 53.00 |
| 1.64       | 107.88           | 148.84 | 162.44         | 54.6           | 2.977                            | 1.38 | 108.50 | 53.94 |
| 2.25       | 109.99           | 153.75 | 159.64         | 49.6           | 3.215                            | 1.40 | 104.65 | 55.00 |
| 2.85       | 114.26           | 155.35 | 162.30         | 48.0           | 3.378                            | 1.36 | 105.18 | 57.13 |
| 3.56       | 119.24           | 155.30 | 167.34         | 48.1           | 3.479                            | 1.30 | 107.72 | 59.62 |
| 4.08       | 123.35           | 154.94 | 171.81         | 48.5           | 3.545                            | 1.26 | 110.14 | 61.68 |
| 4.82       | 128.11           | 153.95 | 177.57         | 49.5           | 3.591                            | 1.20 | 113.51 | 64.06 |
| 5.81       | 135.54           | 152.26 | 186.69         | 51.1           | 3.650                            | 1.12 | 118.91 | 67.77 |
| 6.81       | 141.03           | 150.24 | 194.19         | 53.2           | 3.653                            | 1.07 | 123.68 | 70.52 |
| 7.57       | 145.43           | 148.79 | 200.04         | 54.6           | 3.663                            | 1.02 | 127.32 | 72.71 |
| 8.59       | 151.51           | 146.67 | 208.24         | 56.7           | 3.671                            | 0.97 | 132.48 | 75.75 |
| 9.37       | 155.83           | 145.43 | 213.80         | 58.0           | 3.688                            | 0.93 | 135.88 | 77.92 |
| 10.15      | 158.78           | 144.05 | 218.13         | 59.4           | 3.675                            | 0.91 | 138.74 | 79.39 |
| 10.92      | 161.81           | 142.60 | 222.61         | 60.8           | 3.661                            | 0.88 | 141.71 | 80.90 |
| 11.43      | 163.81           | 141.54 | 225.67         | 61.9           | 3.648                            | 0.86 | 143.77 | 81.90 |
| 11.93      | 165.83           | 140.73 | 228.49         | 62.7           | 3.646                            | 0.85 | 145.58 | 82.91 |
| 12.45      | 166.63           | 140.03 | 230.00         | 63.4           | 3.629                            | 0.84 | 146.68 | 83.32 |
| 12.97      | 167.69           | 139.22 | 231.87         | 64.2           | 3.613                            | 0.83 | 148.02 | 83.84 |
| 13.75      | 169.59           | 138.37 | 234.62         | 65.0           | 3.608                            | 0.82 | 149.82 | 84.79 |
| 14.53      | 172.35           | 137.18 | 238.57         | 66.2           | 3.603                            | 0.80 | 152.39 | 86.18 |
| 15.04      | 174.59           | 136.62 | 241.37         | 66.8           | 3.614                            | 0.78 | 154.07 | 87.29 |
| 15.54      | 175.61           | 136.09 | 242.92         | 67.3           | 3.609                            | 0.77 | 155.11 | 87.80 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 298.2-298.7 |
| Project No.      | 2013-465-001                  | Sample No. | ST-13       |
| Lab ID #         | 2013-465-001-011              | Test No.   | 45          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G336                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G546                 | 2/12/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1511-1              | 11/7/14                     |

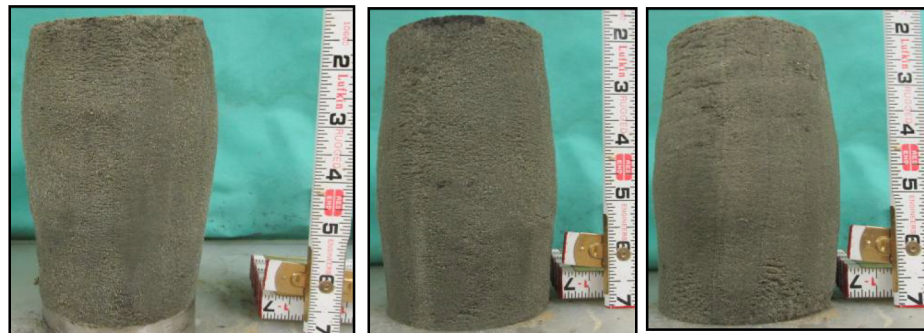
**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-011                      Specific Gravity (measured)                      2.66

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 299.2-299.7 | 298.7-299.2 | 298.2-298.7 |
| Sample No.:                    | ST-13       | ST-13       | ST-13       |
| Test No.                       | T43         | T44         | T45         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.4        | 21.7        | 22.2        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 26.9        | 26.9        | 26.9        |
| Total Unit Weight (pcf)        | 124.8       | 125.5       | 122.2       |
| Dry Unit Weight (pcf)          | 98.3        | 98.8        | 96.3        |
| Moisture Content (%) (FINAL)   | 22.1        | 23.0        | 22.1        |
| Initial State Void Ratio, e    | 0.689       | 0.680       | 0.725       |
| Void Ratio at Shear, e         | 0.589       | 0.616       | 0.602       |



Tested By: JCM                      Date: 11/19/13                      Input Checked By: KC                      Date: 12/4/13  
DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T43     | T44     | T45     |
|---------------------------------|---------|---------|---------|
| Tare Number                     | 785     | 785     | 785     |
| Weight of Tare & Wet Sample (g) | 279.7   | 279.7   | 279.7   |
| Weight of Tare & Dry Sample (g) | 238.44  | 238.44  | 238.44  |
| Weight of Tare (g)              | 85.34   | 85.34   | 85.34   |
| Moisture Content (%) (INITIAL)  | 26.95   | 26.95   | 26.95   |
|                                 |         |         |         |
| Tare Number                     | 960     | 22      | 46      |
| Weight of Tare & Wet Sample (g) | 1359    | 1449.65 | 1389.46 |
| Weight of Tare & Dry Sample (g) | 1131.11 | 1216.81 | 1174.81 |
| Weight of Tare (g)              | 99.18   | 203.11  | 204.98  |
| Moisture Content (%) (FINAL)    | 22.08   | 22.97   | 22.13   |

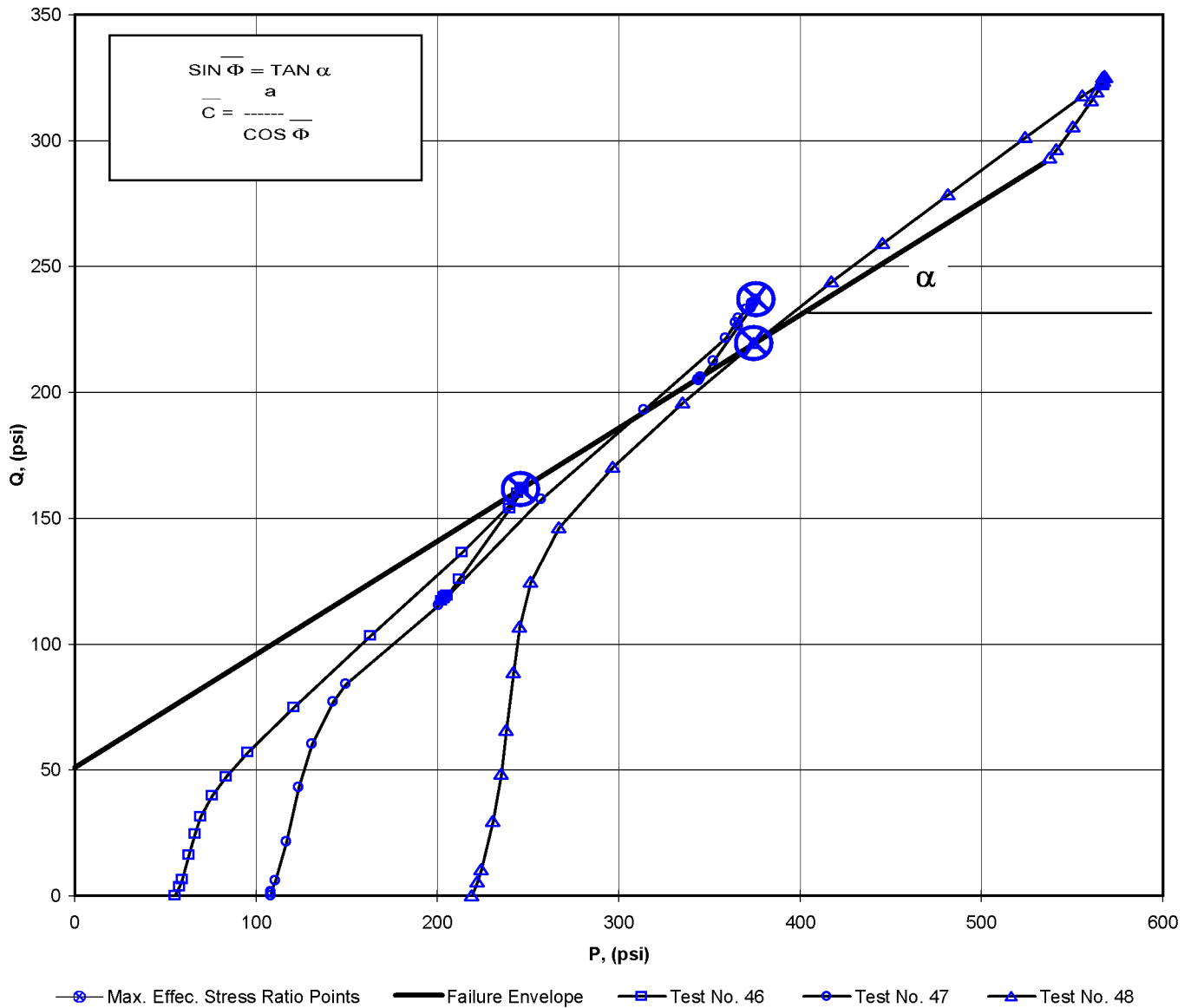
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1672.08             | 1682.14     | 1635.67     |
| Weight of Tube (g)                   | 413.23              | 411.76      | 407.77      |
| Weight of Wet Sample (g)             | 1258.85             | 1270.38     | 1227.9      |
| Length 1 (in)                        | 5.914               | 5.972       | 5.873       |
| Length 2 (in)                        | 5.918               | 5.945       | 5.885       |
| Length 3 (in)                        | 5.918               | 5.963       | 5.881       |
| Top Diameter (in)                    | 2.877               | 2.877       | 2.881       |
| Middle Diameter (in)                 | 2.881               | 2.868       | 2.872       |
| Bottom Diameter (in)                 | 2.87                | 2.867       | 2.884       |
| Average Length (in)                  | 5.916667            | 5.96        | 5.879667    |
| Average Area (in <sup>2</sup> )      | 6.496               | 6.472       | 6.510       |
| Sample Volume (cm <sup>3</sup> )     | 629.86              | 632.12      | 627.23      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 2.00                | 2.01        | 1.96        |
| Unit Wet Weight (pcf)                | 124.77              | 125.47      | 122.22      |
| Unit Dry Weight (pcf)                | 98.29               | 98.83       | 96.27       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.57                | 1.58        | 1.54        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>   | <b>72</b>   |
| Final Burette Reading                | <b>29.5</b>         | <b>28.2</b> | <b>31.7</b> |
| Initial Dial Reading                 | <b>50</b>           | <b>56</b>   | <b>42</b>   |
| Dial Reading After Saturation        | <b>110</b>          | <b>70</b>   | <b>56</b>   |
| Dial Reading After Consolidation     | <b>156</b>          | <b>110</b>  | <b>171</b>  |
| Volume Change during Consolidation   | 18.5                | 19.8        | 40.3        |
| Volume Change during Saturation      | 19.16               | 4.45        | 4.48        |
| Volume at Shear (cm <sup>3</sup> )   | *These 592.20       | 607.87      | 582.45      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 372.79 | 376.20      | 363.62      |
| Volume of Voids (cm <sup>3</sup> )   | are all 219.41      | 231.67      | 218.83      |
| Volume of Water (cm <sup>3</sup> )   | at 218.99           | 229.85      | 214.08      |
| Void Ratio, e                        | shear 0.589         | 0.616       | 0.602       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 319.7-322.2 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**



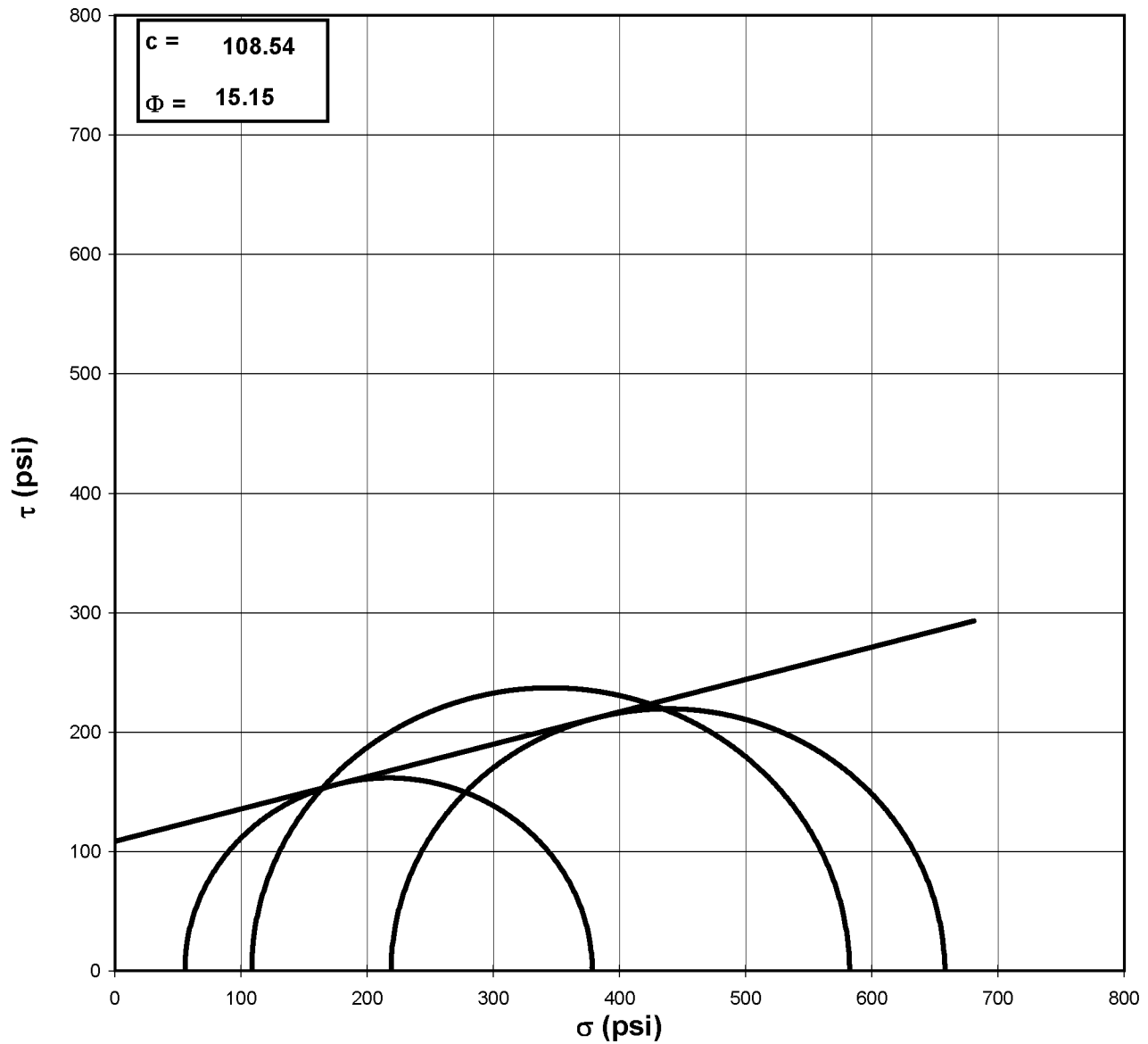
|                            |          |              |                                     |          |              |
|----------------------------|----------|--------------|-------------------------------------|----------|--------------|
| <b>a</b>                   | <b>=</b> | <b>50.89</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>56.97</b> |
| <b><math>\alpha</math></b> | <b>=</b> | <b>24.2</b>  | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>26.70</b> |

Tested By: JCM      Date: 11/21/13      Approved By: DB      Date: 12/4/13



**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 319.7-322.2 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-16       |
| Lab ID:             | 2013-465-001-013                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/21/13      Approved By: DB      Date: 12/4/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1093

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 321.5-322.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 46 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.808 | Diameter 1: | 2.867 |
| Length 2:    | 5.882 | Diameter 2: | 2.884 |
| Length 3:    | 5.817 | Diameter 3: | 2.871 |
| Avg. Length: | 5.836 | Avg. Diam.: | 2.874 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 76.2 |
| Back Pressure (psi)        | 20.7 |
| Eff. Conf. Pressure (psi)  | 55.5 |
| Pore Pressure Response (%) | 99   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 24.0 |
| Final Burette Reading (ml)   | 15.1 |
| Final Change (ml)            | 8.9  |

**MAXIMUM OBLIQUITY POINTS**

|   |   |        |
|---|---|--------|
| P | = | 246.04 |
| Q | = | 161.46 |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 69 |
| Dial Reading After Saturation (mil)    | 66 |
| Dial Reading After Consolidation (mil) | 78 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 31.4         | 0.000               | 20.7                   |
| 76.1         | 0.001               | 22.0                   |
| 113.9        | 0.002               | 23.2                   |
| 237.1        | 0.008               | 29.1                   |
| 345.9        | 0.013               | 34.4                   |
| 434.0        | 0.019               | 38.0                   |
| 544.4        | 0.026               | 40.2                   |
| 639.9        | 0.034               | 39.9                   |
| 765.6        | 0.044               | 37.5                   |
| 1001.1       | 0.063               | 30.1                   |
| 1374.8       | 0.089               | 16.0                   |
| 1815.0       | 0.119               | -1.2                   |
| 2072.9       | 0.152               | -8.6                   |
| 2154.4       | 0.195               | -8.3                   |
| 2186.0       | 0.225               | -8.4                   |
| 2211.8       | 0.267               | -8.9                   |
| 2223.9       | 0.321               | -9.6                   |
| 2141.4       | 0.381               | -10.1                  |
| 1772.3       | 0.429               | -10.1                  |
| 1700.5       | 0.491               | -10.0                  |
| 1715.8       | 0.536               | -9.8                   |
| 1729.9       | 0.578               | -9.7                   |
| 1737.8       | 0.621               | -9.5                   |
| 1740.4       | 0.652               | -9.4                   |
| 1746.0       | 0.682               | -9.3                   |
| 1760.4       | 0.713               | -9.3                   |
| 1779.0       | 0.742               | -9.2                   |
| 1793.6       | 0.786               | -9.1                   |
| 1802.3       | 0.830               | -9.0                   |
| 1794.2       | 0.859               | -9.0                   |
| 1793.2       | 0.887               | -8.9                   |

Tested By: JCM      Date: 11/21/13      Input Checked By: KC      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1094

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 321.5-322.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 55.5 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 46 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.84  |
| Initial Sample Diameter (in)             | 2.87  |
| Initial Sample Area (in <sup>2</sup> )   | 6.49  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.86 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.37 |
| Length After Consolidation (in)               | 5.83  |
| Area After Consolidation (in <sup>2</sup> )   | 6.414 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 6.97             | 1.27       | 61.20            | 54.2             | 1.129                            | 0.18      | 57.71     | 3.49   |
| 0.04       | 12.85            | 2.53       | 65.82            | 53.0             | 1.243                            | 0.20      | 59.40     | 6.42   |
| 0.13       | 32.02            | 8.42       | 79.10            | 47.1             | 1.680                            | 0.27      | 63.09     | 16.01  |
| 0.23       | 48.92            | 13.68      | 90.73            | 41.8             | 2.170                            | 0.28      | 66.28     | 24.46  |
| 0.32       | 62.56            | 17.26      | 100.80           | 38.2             | 2.636                            | 0.28      | 69.52     | 31.28  |
| 0.45       | 79.62            | 19.46      | 115.66           | 36.0             | 3.209                            | 0.25      | 75.85     | 39.81  |
| 0.58       | 94.31            | 19.18      | 130.63           | 36.3             | 3.597                            | 0.21      | 83.47     | 47.16  |
| 0.76       | 113.60           | 16.78      | 152.32           | 38.7             | 3.934                            | 0.15      | 95.52     | 56.80  |
| 1.08       | 149.55           | 9.36       | 195.69           | 46.1             | 4.241                            | 0.06      | 120.92    | 74.78  |
| 1.52       | 206.26           | -4.65      | 266.41           | 60.2             | 4.429                            | -0.02     | 163.28    | 103.13 |
| 2.05       | 272.37           | -21.86     | 349.73           | 77.4             | 4.521                            | -0.08     | 213.55    | 136.19 |
| 2.62       | 309.96           | -29.25     | 394.71           | 84.8             | 4.657                            | -0.10     | 239.73    | 154.98 |
| 3.35       | 319.92           | -28.98     | 404.39           | 84.5             | 4.787                            | -0.09     | 244.43    | 159.96 |
| 3.87       | 322.92           | -29.08     | 407.50           | 84.6             | 4.818                            | -0.09     | 246.04    | 161.46 |
| 4.58       | 324.36           | -29.62     | 409.49           | 85.1             | 4.810                            | -0.09     | 247.31    | 162.18 |
| 5.52       | 322.96           | -30.31     | 408.78           | 85.8             | 4.764                            | -0.09     | 247.29    | 161.48 |
| 6.53       | 307.47           | -30.79     | 393.76           | 86.3             | 4.563                            | -0.10     | 240.03    | 153.74 |
| 7.36       | 251.44           | -30.84     | 337.78           | 86.3             | 3.912                            | -0.12     | 212.06    | 125.72 |
| 8.42       | 238.31           | -30.66     | 324.47           | 86.2             | 3.766                            | -0.13     | 205.31    | 119.16 |
| 9.19       | 238.47           | -30.51     | 324.48           | 86.0             | 3.773                            | -0.13     | 205.25    | 119.23 |
| 9.92       | 238.55           | -30.38     | 324.42           | 85.9             | 3.778                            | -0.13     | 205.15    | 119.27 |
| 10.66      | 237.66           | -30.20     | 323.37           | 85.7             | 3.773                            | -0.13     | 204.53    | 118.83 |
| 11.18      | 236.64           | -30.15     | 322.29           | 85.6             | 3.763                            | -0.13     | 203.97    | 118.32 |
| 11.71      | 236.01           | -30.03     | 321.54           | 85.5             | 3.759                            | -0.13     | 203.54    | 118.00 |
| 12.24      | 236.58           | -29.97     | 322.05           | 85.5             | 3.768                            | -0.13     | 203.76    | 118.29 |
| 12.73      | 237.76           | -29.91     | 323.17           | 85.4             | 3.784                            | -0.13     | 204.29    | 118.88 |
| 13.49      | 237.67           | -29.79     | 322.96           | 85.3             | 3.787                            | -0.13     | 204.13    | 118.83 |
| 14.25      | 236.76           | -29.71     | 321.97           | 85.2             | 3.778                            | -0.13     | 203.59    | 118.38 |
| 14.74      | 234.32           | -29.67     | 319.49           | 85.2             | 3.751                            | -0.13     | 202.33    | 117.16 |
| 15.22      | 232.85           | -29.58     | 317.94           | 85.1             | 3.737                            | -0.13     | 201.51    | 116.43 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 321.5-322.0 |
| Project No.      | 2013-465-001                  | Sample No. | ST-16       |
| Lab ID #         | 2013-465-001-013              | Test No.   | 46          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G331                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G041                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 321.0-321.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 47 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.814 | Diameter 1: | 2.872 |
| Length 2:   | 5.812 | Diameter 2: | 2.874 |
| Length 3:   | 5.811 | Diameter 3: | 2.871 |
| Avg. Length | 5.812 | Avg. Diam.: | 2.872 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 130.1 |
| Back Pressure (psi)        | 21.7  |
| Eff. Conf. Pressure (psi)  | 108.4 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 38.1 |
| Final Change (ml)            | 9.9  |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 375.80 |
| Q         | = | 236.93 |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 67 |
| Dial Reading After Saturation (mil)    | 70 |
| Dial Reading After Consolidation (mil) | 82 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 24.8         | 0.000               | 21.7                   |
| 37.9         | 0.001               | 22.8                   |
| 40.2         | 0.002               | 22.8                   |
| 44.6         | 0.008               | 23.1                   |
| 102.0        | 0.012               | 25.4                   |
| 297.4        | 0.017               | 34.5                   |
| 575.4        | 0.023               | 49.3                   |
| 798.6        | 0.031               | 59.4                   |
| 1015.2       | 0.042               | 64.5                   |
| 1106.6       | 0.047               | 64.5                   |
| 1516.7       | 0.080               | 44.6                   |
| 2073.4       | 0.110               | 30.0                   |
| 2548.6       | 0.140               | 8.8                    |
| 2939.4       | 0.177               | -7.6                   |
| 3035.9       | 0.205               | -7.1                   |
| 3082.3       | 0.248               | -6.8                   |
| 3154.3       | 0.288               | -7.4                   |
| 3218.1       | 0.346               | -8.3                   |
| 3265.7       | 0.387               | -8.8                   |
| 3271.4       | 0.447               | -9.2                   |
| 3305.9       | 0.492               | -9.4                   |
| 3307.1       | 0.535               | -9.6                   |
| 3234.6       | 0.580               | -9.7                   |
| 3055.0       | 0.609               | -9.7                   |
| 2962.2       | 0.639               | -9.6                   |
| 2983.5       | 0.668               | -9.5                   |
| 3008.2       | 0.697               | -9.3                   |
| 3040.1       | 0.741               | -9.1                   |
| 3053.1       | 0.786               | -9.0                   |
| 3067.1       | 0.815               | -8.8                   |
| 3063.0       | 0.845               | -8.7                   |

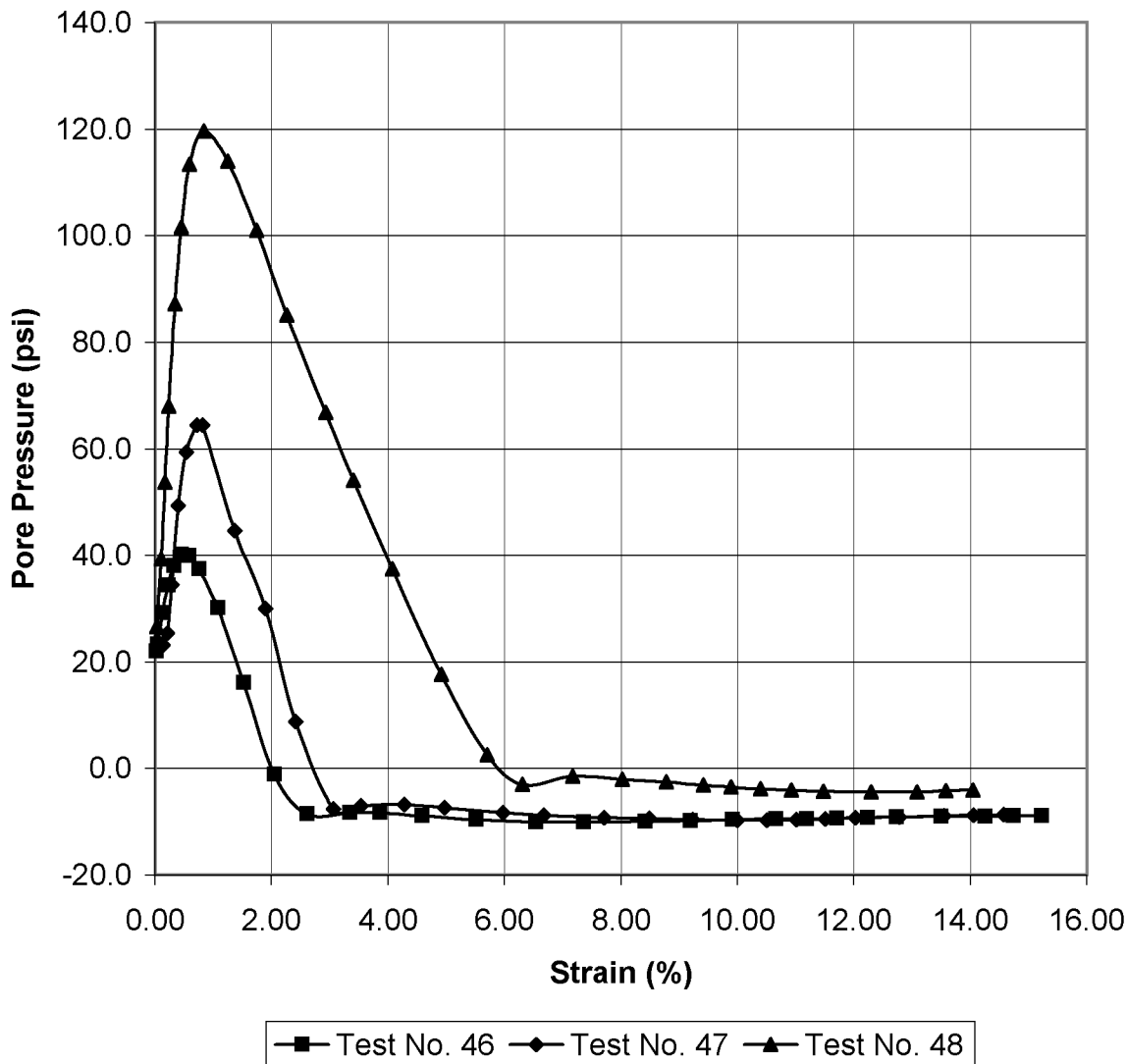
Tested By: JCM      Date: 11/21/13      Input Checked By: KC      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 319.7-322.2 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1098

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 321.0-321.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 108.4 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 47 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.81  |
| Initial Sample Diameter (in)             | 2.87  |
| Initial Sample Area (in <sup>2</sup> )   | 6.48  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.66 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.00 |
| Length After Consolidation (in)               | 5.80  |
| Area After Consolidation (in <sup>2</sup> )   | 6.382 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 2.05             | 1.06       | 109.39           | 107.3            | 1.019                            | 0.52      | 108.36    | 1.03   |
| 0.04       | 2.41             | 1.14       | 109.67           | 107.3            | 1.022                            | 0.47      | 108.46    | 1.21   |
| 0.14       | 3.10             | 1.44       | 110.06           | 107.0            | 1.029                            | 0.46      | 108.51    | 1.55   |
| 0.22       | 12.07            | 3.72       | 116.75           | 104.7            | 1.115                            | 0.31      | 110.72    | 6.03   |
| 0.29       | 42.59            | 12.79      | 138.19           | 95.6             | 1.445                            | 0.30      | 116.90    | 21.29  |
| 0.40       | 85.93            | 27.63      | 166.71           | 80.8             | 2.064                            | 0.32      | 123.74    | 42.97  |
| 0.54       | 120.58           | 37.67      | 191.31           | 70.7             | 2.705                            | 0.31      | 131.02    | 60.29  |
| 0.72       | 154.06           | 42.75      | 219.71           | 65.6             | 3.347                            | 0.28      | 142.68    | 77.03  |
| 0.82       | 168.11           | 42.77      | 233.74           | 65.6             | 3.561                            | 0.25      | 149.69    | 84.06  |
| 1.37       | 230.54           | 22.91      | 316.04           | 85.5             | 3.697                            | 0.10      | 200.76    | 115.27 |
| 1.90       | 314.89           | 8.27       | 415.02           | 100.1            | 4.145                            | 0.03      | 257.57    | 157.44 |
| 2.41       | 385.90           | -12.88     | 507.18           | 121.3            | 4.182                            | -0.03     | 314.23    | 192.95 |
| 3.06       | 442.69           | -29.28     | 580.38           | 137.7            | 4.215                            | -0.07     | 359.03    | 221.35 |
| 3.53       | 455.12           | -28.78     | 592.30           | 137.2            | 4.318                            | -0.06     | 364.74    | 227.56 |
| 4.28       | 458.53           | -28.53     | 595.46           | 136.9            | 4.349                            | -0.06     | 366.20    | 229.27 |
| 4.97       | 465.94           | -29.08     | 603.42           | 137.5            | 4.389                            | -0.06     | 370.45    | 232.97 |
| 5.97       | 470.46           | -29.98     | 608.84           | 138.4            | 4.400                            | -0.06     | 373.61    | 235.23 |
| 6.68       | 473.86           | -30.47     | 612.73           | 138.9            | 4.412                            | -0.06     | 375.80    | 236.93 |
| 7.72       | 469.43           | -30.94     | 608.77           | 139.3            | 4.369                            | -0.07     | 374.06    | 234.71 |
| 8.49       | 470.46           | -31.14     | 610.00           | 139.5            | 4.372                            | -0.07     | 374.77    | 235.23 |
| 9.23       | 466.79           | -31.29     | 606.48           | 139.7            | 4.342                            | -0.07     | 373.09    | 233.40 |
| 10.00      | 452.65           | -31.42     | 592.47           | 139.8            | 4.237                            | -0.07     | 366.15    | 226.32 |
| 10.51      | 424.86           | -31.41     | 564.67           | 139.8            | 4.039                            | -0.07     | 352.24    | 212.43 |
| 11.02      | 409.54           | -31.29     | 549.23           | 139.7            | 3.932                            | -0.08     | 344.46    | 204.77 |
| 11.51      | 410.20           | -31.15     | 549.75           | 139.6            | 3.939                            | -0.08     | 344.65    | 205.10 |
| 12.03      | 411.23           | -31.03     | 550.65           | 139.4            | 3.949                            | -0.08     | 345.04    | 205.61 |
| 12.79      | 412.04           | -30.82     | 551.25           | 139.2            | 3.960                            | -0.07     | 345.24    | 206.02 |
| 13.56      | 410.16           | -30.65     | 549.22           | 139.1            | 3.950                            | -0.07     | 344.14    | 205.08 |
| 14.06      | 409.68           | -30.54     | 548.61           | 138.9            | 3.949                            | -0.07     | 343.77    | 204.84 |
| 14.57      | 406.67           | -30.43     | 545.50           | 138.8            | 3.929                            | -0.07     | 342.17    | 203.34 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 321.0-321.5 |
| Project No.      | 2013-465-001                  | Sample No. | ST-16       |
| Lab ID #         | 2013-465-001-013              | Test No.   | 47          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G334                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G590                 | 3/14/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | G1511-1              | 11/7/14                     |



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1100

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 320.5-321.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 48 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.883 | Diameter 1: | 2.879 |
| Length 2:    | 5.897 | Diameter 2: | 2.875 |
| Length 3:    | 5.897 | Diameter 3: | 2.874 |
| Avg. Length: | 5.892 | Avg. Diam.: | 2.876 |

**PRESSURES (psi)**

|                           |       |
|---------------------------|-------|
| Cell Pressure (psi)       | 240.6 |
| Back Pressure (psi)       | 21.5  |
| Eff. Conf. Pressure (psi) | 219.1 |
| Pore Pressure             |       |
| Response (%)              | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 33.9 |
| Final Change (ml)            | 14.1 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 374.82 |
| Q         | = | 219.34 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 62  |
| Dial Reading After Saturation (mil)    | 64  |
| Dial Reading After Consolidation (mil) | 103 |

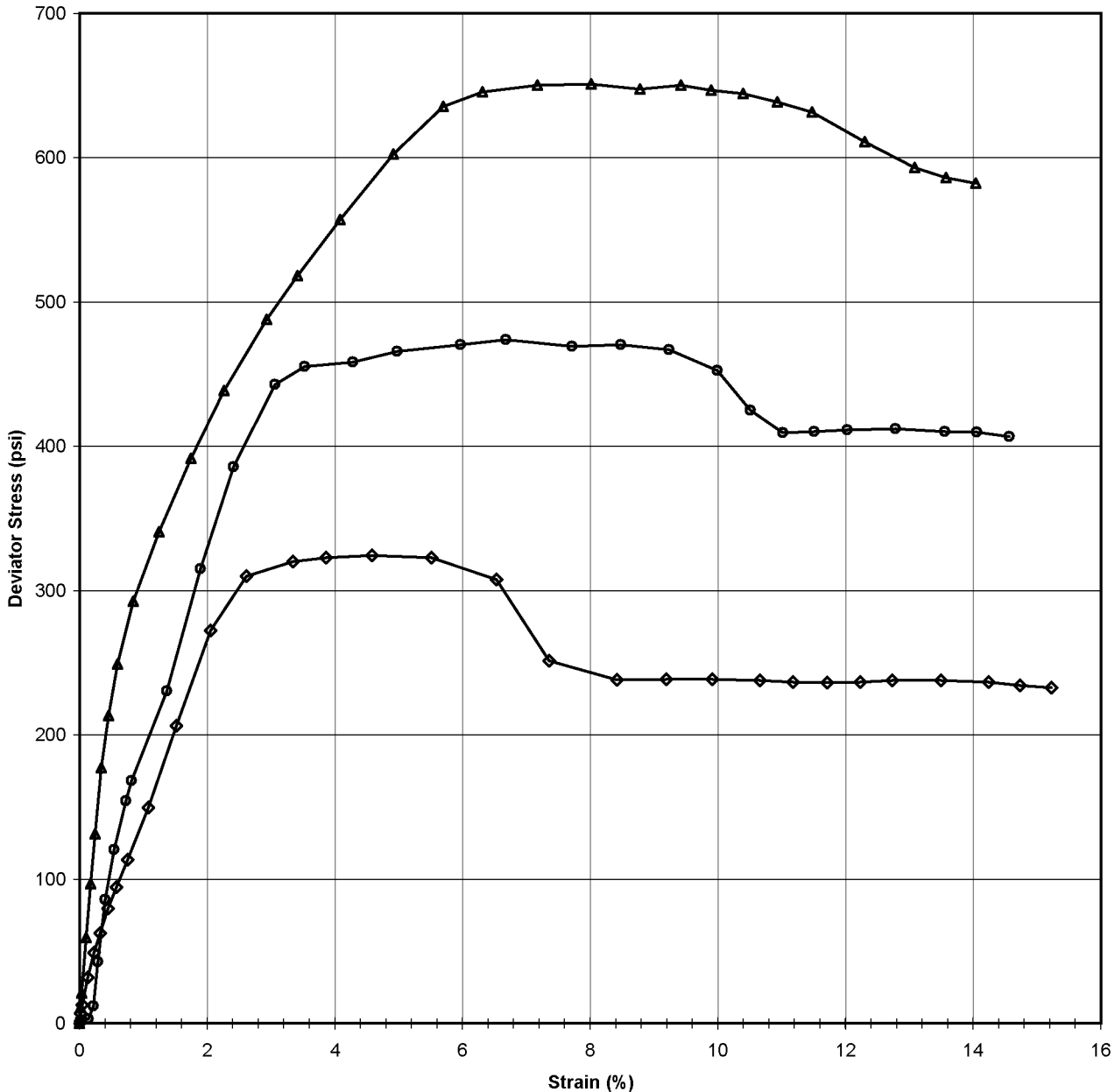
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 41.3         | 0.000               | 21.5                   |
| 111.6        | 0.001               | 24.0                   |
| 175.0        | 0.002               | 26.6                   |
| 420.3        | 0.006               | 39.3                   |
| 660.2        | 0.010               | 53.7                   |
| 881.9        | 0.014               | 68.0                   |
| 1176.6       | 0.020               | 87.1                   |
| 1410.2       | 0.027               | 101.6                  |
| 1642.5       | 0.035               | 113.4                  |
| 1926.6       | 0.049               | 119.6                  |
| 2244.1       | 0.073               | 113.9                  |
| 2587.6       | 0.102               | 100.9                  |
| 2908.5       | 0.133               | 85.1                   |
| 3251.2       | 0.171               | 66.8                   |
| 3469.6       | 0.200               | 54.0                   |
| 3750.8       | 0.239               | 37.4                   |
| 4089.7       | 0.288               | 17.6                   |
| 4346.6       | 0.334               | 2.5                    |
| 4444.4       | 0.369               | -3.1                   |
| 4515.3       | 0.420               | -1.5                   |
| 4563.1       | 0.469               | -2.1                   |
| 4575.0       | 0.514               | -2.6                   |
| 4627.9       | 0.551               | -3.1                   |
| 4627.4       | 0.579               | -3.5                   |
| 4635.7       | 0.609               | -3.8                   |
| 4621.2       | 0.640               | -4.1                   |
| 4600.2       | 0.671               | -4.3                   |
| 4492.5       | 0.720               | -4.5                   |
| 4399.5       | 0.766               | -4.4                   |
| 4373.0       | 0.795               | -4.3                   |
| 4369.9       | 0.822               | -4.1                   |

Tested By: JCM      Date: 11/21/13      Input Checked By: KC      Date: 12/4/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 319.7-322.2 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-16       |
| Lab ID:             | 2013-465-001-013                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 46      ● Test No. 47      ▲ Test No. 48

E50 Test No. 46 13803.89      E50 Test No. 47 16759.71      E50 Test No. 48 45636.4

Tested By: JCM      Date: 11/21/13      Approved By: DB      Date: 12/4/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1102

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 320.5-321.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-16       |
| Lab ID:           | 2013-465-001-013              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 219.1 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 48 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.89  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.50  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.28 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.38 |
| Length After Consolidation (in)               | 5.85  |
| Area After Consolidation (in <sup>2</sup> )   | 6.388 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 11.01            | 2.48       | 227.63           | 216.6            | 1.051                            | 0.22      | 222.13    | 5.50   |
| 0.04       | 20.92            | 5.10       | 234.92           | 214.0            | 1.098                            | 0.24      | 224.46    | 10.46  |
| 0.11       | 59.26            | 17.78      | 260.58           | 201.3            | 1.294                            | 0.30      | 230.95    | 29.63  |
| 0.17       | 96.71            | 32.19      | 283.62           | 186.9            | 1.517                            | 0.33      | 235.26    | 48.35  |
| 0.24       | 131.28           | 46.49      | 303.89           | 172.6            | 1.761                            | 0.35      | 238.25    | 65.64  |
| 0.34       | 177.11           | 65.64      | 330.57           | 153.5            | 2.154                            | 0.37      | 242.02    | 88.55  |
| 0.46       | 213.30           | 80.10      | 352.31           | 139.0            | 2.535                            | 0.38      | 245.66    | 106.65 |
| 0.59       | 249.17           | 91.91      | 376.35           | 127.2            | 2.959                            | 0.37      | 251.77    | 124.58 |
| 0.85       | 292.64           | 98.09      | 413.65           | 121.0            | 3.418                            | 0.34      | 267.33    | 146.32 |
| 1.25       | 340.53           | 92.40      | 467.23           | 126.7            | 3.688                            | 0.27      | 296.96    | 170.27 |
| 1.75       | 391.62           | 79.43      | 531.29           | 139.7            | 3.804                            | 0.20      | 335.48    | 195.81 |
| 2.27       | 438.67           | 63.61      | 594.16           | 155.5            | 3.821                            | 0.15      | 374.82    | 219.34 |
| 2.93       | 487.75           | 45.28      | 661.57           | 173.8            | 3.806                            | 0.09      | 417.69    | 243.88 |
| 3.41       | 518.34           | 32.55      | 704.89           | 186.6            | 3.778                            | 0.06      | 445.72    | 259.17 |
| 4.08       | 557.00           | 15.91      | 760.19           | 203.2            | 3.741                            | 0.03      | 481.69    | 278.50 |
| 4.92       | 602.58           | -3.88      | 825.56           | 223.0            | 3.702                            | -0.01     | 524.27    | 301.29 |
| 5.70       | 635.52           | -19.00     | 873.62           | 238.1            | 3.669                            | -0.03     | 555.86    | 317.76 |
| 6.31       | 645.75           | -24.57     | 889.42           | 243.7            | 3.650                            | -0.04     | 566.54    | 322.87 |
| 7.17       | 650.14           | -22.98     | 892.22           | 242.1            | 3.686                            | -0.04     | 567.15    | 325.07 |
| 8.02       | 651.07           | -23.59     | 893.76           | 242.7            | 3.683                            | -0.04     | 568.22    | 325.53 |
| 8.78       | 647.37           | -24.11     | 890.58           | 243.2            | 3.662                            | -0.04     | 566.89    | 323.69 |
| 9.42       | 650.34           | -24.59     | 894.03           | 243.7            | 3.669                            | -0.04     | 568.86    | 325.17 |
| 9.89       | 646.88           | -24.98     | 890.96           | 244.1            | 3.650                            | -0.04     | 567.52    | 323.44 |
| 10.40      | 644.40           | -25.29     | 888.79           | 244.4            | 3.637                            | -0.04     | 566.59    | 322.20 |
| 10.93      | 638.58           | -25.58     | 883.27           | 244.7            | 3.610                            | -0.04     | 563.97    | 319.29 |
| 11.48      | 631.75           | -25.81     | 876.66           | 244.9            | 3.580                            | -0.04     | 560.78    | 315.88 |
| 12.30      | 611.06           | -25.98     | 856.14           | 245.1            | 3.493                            | -0.04     | 550.61    | 305.53 |
| 13.08      | 592.98           | -25.90     | 837.98           | 245.0            | 3.420                            | -0.04     | 541.49    | 296.49 |
| 13.58      | 586.01           | -25.75     | 830.86           | 244.9            | 3.393                            | -0.04     | 537.86    | 293.01 |
| 14.04      | 582.44           | -25.60     | 827.14           | 244.7            | 3.380                            | -0.04     | 535.92    | 291.22 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 320.5-321.0 |
| Project No.      | 2013-465-001                  | Sample No. | ST-16       |
| Lab ID #         | 2013-465-001-013              | Test No.   | 48          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G323                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G150                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-013                      Specific Gravity (measured)                      2.61

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 321.5-322.0 | 321.0-321.5 | 320.5-321.0 |
| Sample No.:                    | ST-16       | ST-16       | ST-16       |
| Test No.                       | T46         | T47         | T48         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 20.7        | 21.7        | 21.5        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 24.3        | 24.3        | 24.3        |
| Total Unit Weight (pcf)        | 124.6       | 122.3       | 120.4       |
| Dry Unit Weight (pcf)          | 100.3       | 98.4        | 96.9        |
| Moisture Content (%) (FINAL)   | 24.6        | 26.5        | 27.1        |
| Initial State Void Ratio, e    | 0.625       | 0.655       | 0.681       |
| Void Ratio at Shear, e         | 0.604       | 0.626       | 0.642       |



Tested By: JCM                      Date: 11/21/13                      Input Checked By: KC                      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T46    | T47     | T48     |
|---------------------------------|--------|---------|---------|
| Tare Number                     | 2725   | 2725    | 2725    |
| Weight of Tare & Wet Sample (g) | 191.98 | 191.98  | 191.98  |
| Weight of Tare & Dry Sample (g) | 155.79 | 155.79  | 155.79  |
| Weight of Tare (g)              | 6.73   | 6.73    | 6.73    |
| Moisture Content (%) (INITIAL)  | 24.28  | 24.28   | 24.28   |
|                                 |        |         |         |
| Tare Number                     | 897    | 972     | 301     |
| Weight of Tare & Wet Sample (g) | 362.46 | 1269.66 | 1274.13 |
| Weight of Tare & Dry Sample (g) | 312.67 | 1024.8  | 1025.41 |
| Weight of Tare (g)              | 109.86 | 101.74  | 106.49  |
| Moisture Content (%) (FINAL)    | 24.55  | 26.53   | 27.07   |

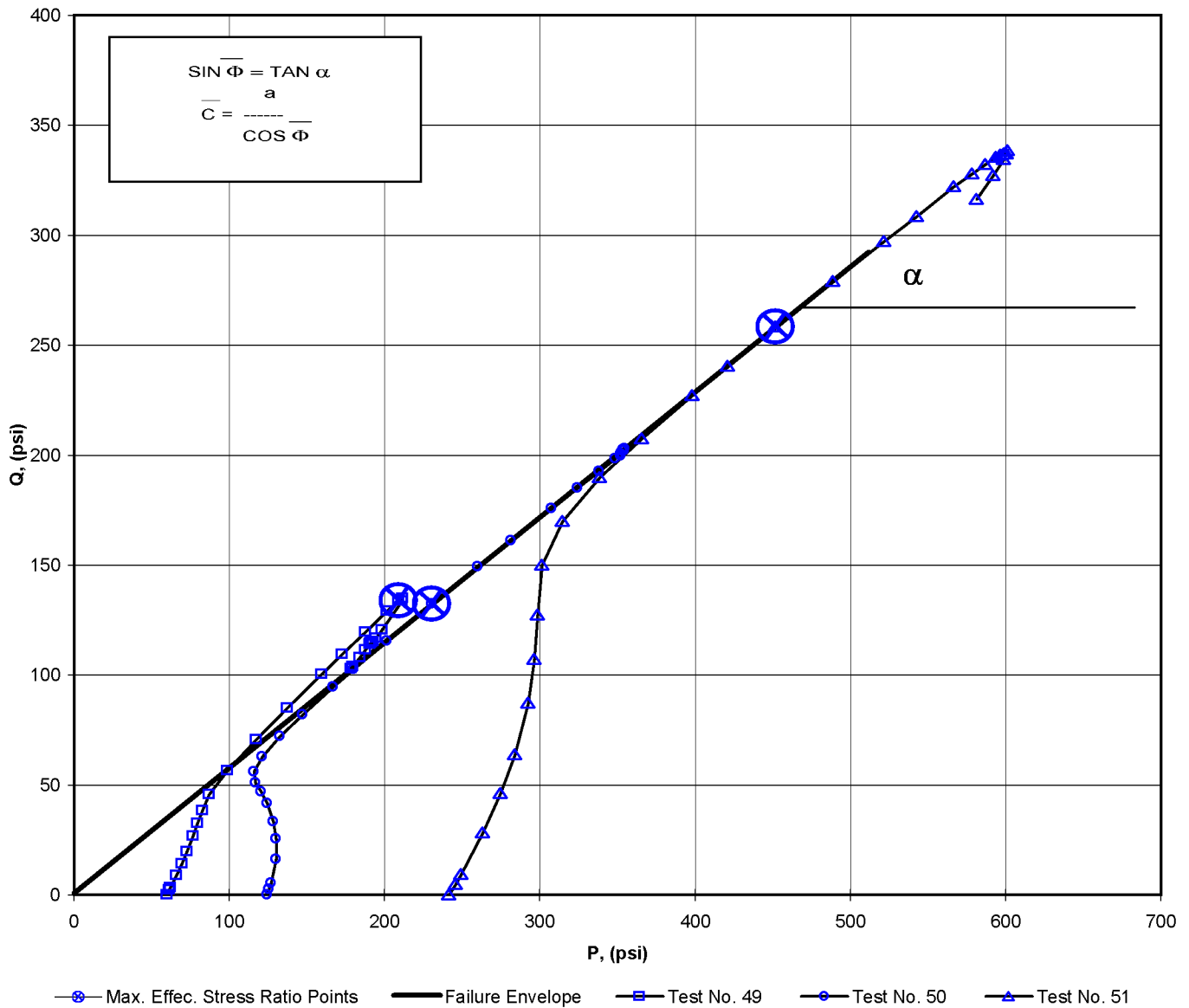
**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1647.09             | 1614.54     | 1624.78     |
| Weight of Tube (g)                   | 408.61              | 405.35      | 414.61      |
| Weight of Wet Sample (g)             | 1238.48             | 1209.19     | 1210.17     |
| Length 1 (in)                        | 5.808               | 5.814       | 5.883       |
| Length 2 (in)                        | 5.882               | 5.812       | 5.897       |
| Length 3 (in)                        | 5.817               | 5.811       | 5.897       |
| Top Diameter (in)                    | 2.867               | 2.872       | 2.879       |
| Middle Diameter (in)                 | 2.884               | 2.874       | 2.875       |
| Bottom Diameter (in)                 | 2.871               | 2.871       | 2.874       |
| Average Length (in)                  | 5.835667            | 5.812333    | 5.892333    |
| Average Area (in <sup>2</sup> )      | 6.487               | 6.480       | 6.496       |
| Sample Volume (cm <sup>3</sup> )     | 620.38              | 617.18      | 627.27      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 2.00                | 1.96        | 1.93        |
| Unit Wet Weight (pcf)                | 124.63              | 122.31      | 120.44      |
| Unit Dry Weight (pcf)                | 100.28              | 98.42       | 96.91       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.61                | 1.58        | 1.55        |
| Initial Burette Reading              | <b>24</b>           | <b>48</b>   | <b>48</b>   |
| Final Burette Reading                | <b>15.1</b>         | <b>38.1</b> | <b>33.9</b> |
| Initial Dial Reading                 | <b>69</b>           | <b>67</b>   | <b>62</b>   |
| Dial Reading After Saturation        | <b>66</b>           | <b>70</b>   | <b>64</b>   |
| Dial Reading After Consolidation     | <b>78</b>           | <b>82</b>   | <b>103</b>  |
| Volume Change during Consolidation   | 8.9                 | 9.9         | 14.1        |
| Volume Change during Saturation      | -0.96               | 0.96        | 0.64        |
| Volume at Shear (cm <sup>3</sup> )   | *These 612.43       | 606.32      | 612.53      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 381.81 | 372.78      | 373.09      |
| Volume of Voids (cm <sup>3</sup> )   | are all 230.62      | 233.54      | 239.45      |
| Volume of Water (cm <sup>3</sup> )   | at 244.65           | 258.10      | 263.56      |
| Void Ratio, e                        | shear 0.604         | 0.626       | 0.642       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 354.0-356.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

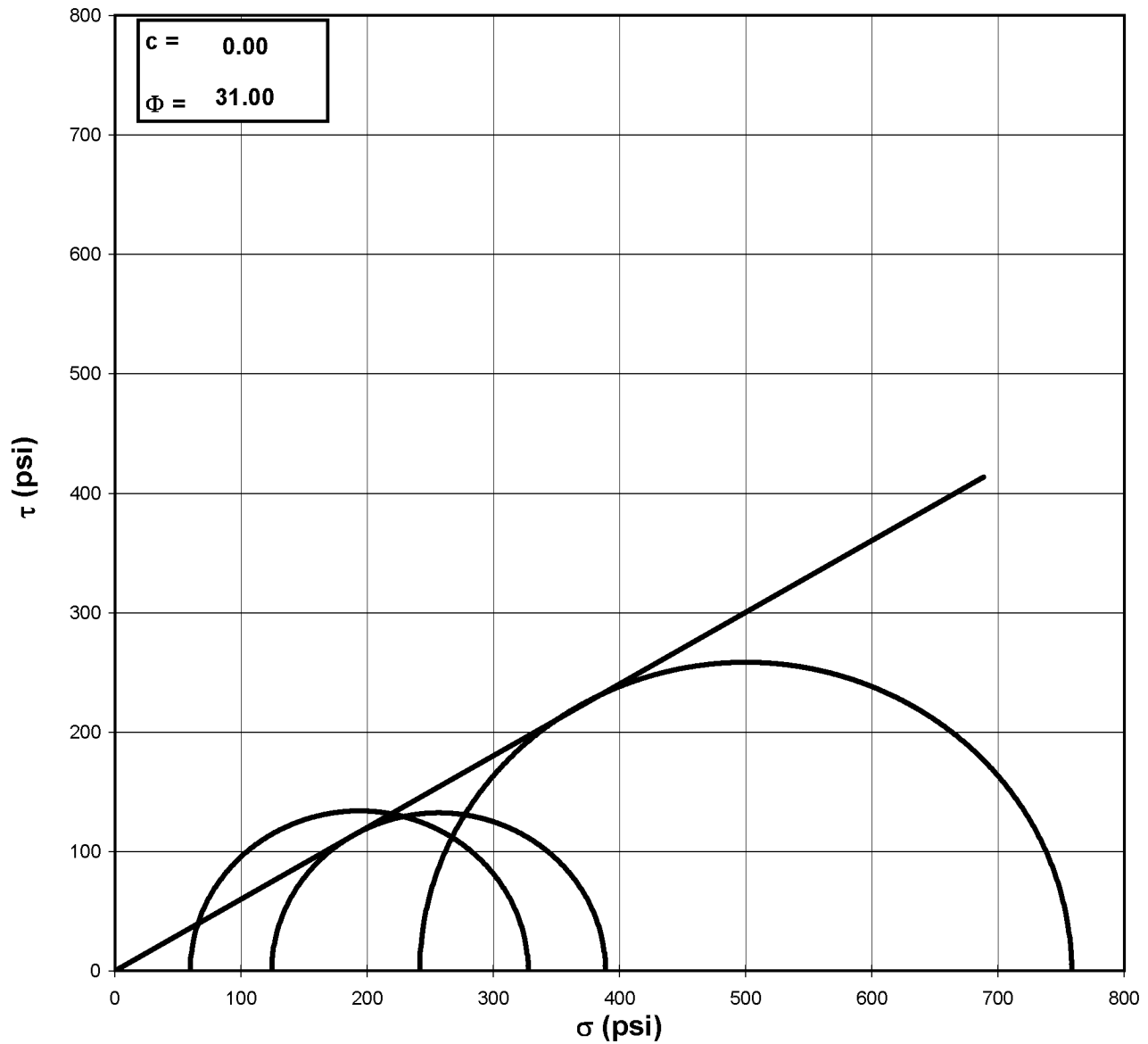


|          |          |             |                                     |          |              |
|----------|----------|-------------|-------------------------------------|----------|--------------|
| <b>a</b> | <b>=</b> | <b>0.84</b> | <b><math>\overline{C}</math></b>    | <b>=</b> | <b>1.02</b>  |
| <b>α</b> | <b>=</b> | <b>29.7</b> | <b><math>\overline{\Phi}</math></b> | <b>=</b> | <b>34.74</b> |

Tested By: JCM      Date: 11/23/13      Approved By: DB      Date: 12/5/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 354.0-356.0 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-20       |
| Lab ID:             | 2013-465-001-017                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/23/13      Approved By: DB      Date: 12/5/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 355.4-355.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 49 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.812 | Diameter 1: | 2.877 |
| Length 2:    | 5.822 | Diameter 2: | 2.883 |
| Length 3:    | 5.827 | Diameter 3: | 2.876 |
| Avg. Length: | 5.820 | Avg. Diam.: | 2.879 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 81.3 |
| Back Pressure (psi)        | 21.4 |
| Eff. Conf. Pressure (psi)  | 59.9 |
| Pore Pressure Response (%) | 97   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 35.0 |
| Final Change (ml)            | 13.0 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |        |
|---|---|--------|
| P | = | 209.23 |
| Q | = | 133.88 |

|  |    |
|--|----|
| Initial Dial Reading (mil)             | 51 |
| Dial Reading After Saturation (mil)    | 72 |
| Dial Reading After Consolidation (mil) | 96 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 14.9         | 0.000               | 21.4                   |
| 43.1         | 0.001               | 22.1                   |
| 58.0         | 0.002               | 22.5                   |
| 127.7        | 0.007               | 24.1                   |
| 195.5        | 0.013               | 26.0                   |
| 263.8        | 0.018               | 28.2                   |
| 356.1        | 0.025               | 31.4                   |
| 429.8        | 0.033               | 34.3                   |
| 505.7        | 0.044               | 37.0                   |
| 600.3        | 0.063               | 39.9                   |
| 744.4        | 0.090               | 38.8                   |
| 930.6        | 0.123               | 34.5                   |
| 1124.1       | 0.156               | 28.7                   |
| 1333.9       | 0.198               | 21.9                   |
| 1460.4       | 0.227               | 17.9                   |
| 1605.4       | 0.266               | 13.0                   |
| 1749.6       | 0.319               | 8.6                    |
| 1833.6       | 0.375               | 6.0                    |
| 1862.0       | 0.421               | 4.6                    |
| 1864.5       | 0.482               | 3.5                    |
| 1699.4       | 0.527               | 3.2                    |
| 1659.8       | 0.571               | 3.6                    |
| 1653.6       | 0.614               | 4.0                    |
| 1653.5       | 0.644               | 4.3                    |
| 1658.7       | 0.674               | 4.5                    |
| 1661.9       | 0.704               | 4.7                    |
| 1636.9       | 0.734               | 4.9                    |
| 1599.7       | 0.779               | 5.2                    |
| 1553.0       | 0.823               | 5.5                    |
| 1548.5       | 0.851               | 5.7                    |
| 1550.0       | 0.880               | 5.9                    |

Tested By: JCM      Date: 11/23/13      Input Checked By: KC      Date: 12/5/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1109

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 355.4-355.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 59.9 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 49 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.82  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.88 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.68 |
| Length After Consolidation (in)               | 5.78  |
| Area After Consolidation (in <sup>2</sup> )   | 6.351 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A     | P      | Q      |
|------------|------------------|--------|----------------|----------------|----------------------------------|-------|--------|--------|
| 0.02       | 4.43             | 0.72   | 63.61          | 59.2           | 1.075                            | 0.17  | 61.39  | 2.22   |
| 0.04       | 6.79             | 1.09   | 65.59          | 58.8           | 1.115                            | 0.17  | 62.20  | 3.39   |
| 0.13       | 17.73            | 2.73   | 74.90          | 57.2           | 1.310                            | 0.16  | 66.04  | 8.87   |
| 0.22       | 28.38            | 4.65   | 83.63          | 55.3           | 1.514                            | 0.17  | 69.44  | 14.19  |
| 0.31       | 39.07            | 6.76   | 92.22          | 53.1           | 1.735                            | 0.18  | 72.68  | 19.54  |
| 0.44       | 53.49            | 10.03  | 103.36         | 49.9           | 2.073                            | 0.19  | 76.61  | 26.75  |
| 0.58       | 64.96            | 12.89  | 111.97         | 47.0           | 2.382                            | 0.20  | 79.49  | 32.48  |
| 0.76       | 76.69            | 15.59  | 121.01         | 44.3           | 2.731                            | 0.21  | 82.66  | 38.35  |
| 1.09       | 91.18            | 18.47  | 132.61         | 41.4           | 3.201                            | 0.21  | 87.02  | 45.59  |
| 1.57       | 113.07           | 17.42  | 155.55         | 42.5           | 3.661                            | 0.16  | 99.02  | 56.53  |
| 2.13       | 141.12           | 13.12  | 187.90         | 46.8           | 4.017                            | 0.10  | 117.34 | 70.56  |
| 2.71       | 169.94           | 7.29   | 222.54         | 52.6           | 4.230                            | 0.04  | 137.58 | 84.97  |
| 3.43       | 200.58           | 0.53   | 259.95         | 59.4           | 4.379                            | 0.00  | 159.66 | 100.29 |
| 3.93       | 218.66           | -3.48  | 282.04         | 63.4           | 4.450                            | -0.02 | 172.71 | 109.33 |
| 4.61       | 238.89           | -8.36  | 307.15         | 68.3           | 4.500                            | -0.04 | 187.71 | 119.45 |
| 5.53       | 258.05           | -12.77 | 330.72         | 72.7           | 4.551                            | -0.05 | 201.69 | 129.02 |
| 6.50       | 267.77           | -15.45 | 343.12         | 75.3           | 4.554                            | -0.06 | 209.23 | 133.88 |
| 7.28       | 269.67           | -16.78 | 346.36         | 76.7           | 4.517                            | -0.06 | 211.52 | 134.84 |
| 8.34       | 266.96           | -17.87 | 344.73         | 77.8           | 4.433                            | -0.07 | 211.25 | 133.48 |
| 9.13       | 241.03           | -18.17 | 319.09         | 78.1           | 4.087                            | -0.08 | 198.58 | 120.51 |
| 9.88       | 233.41           | -17.79 | 311.10         | 77.7           | 4.004                            | -0.08 | 194.40 | 116.71 |
| 10.63      | 230.61           | -17.43 | 307.94         | 77.3           | 3.982                            | -0.08 | 192.63 | 115.31 |
| 11.15      | 229.24           | -17.08 | 306.22         | 77.0           | 3.978                            | -0.08 | 191.60 | 114.62 |
| 11.67      | 228.63           | -16.89 | 305.42         | 76.8           | 3.978                            | -0.08 | 191.10 | 114.32 |
| 12.19      | 227.73           | -16.71 | 304.33         | 76.6           | 3.973                            | -0.08 | 190.47 | 113.86 |
| 12.71      | 222.93           | -16.54 | 299.37         | 76.4           | 3.917                            | -0.08 | 187.90 | 111.47 |
| 13.48      | 215.89           | -16.22 | 292.01         | 76.1           | 3.836                            | -0.08 | 184.06 | 107.95 |
| 14.24      | 207.69           | -15.88 | 283.47         | 75.8           | 3.741                            | -0.08 | 179.62 | 103.85 |
| 14.74      | 205.90           | -15.67 | 281.47         | 75.6           | 3.725                            | -0.08 | 178.52 | 102.95 |
| 15.24      | 204.87           | -15.46 | 280.23         | 75.4           | 3.719                            | -0.08 | 177.80 | 102.44 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 355.4-355.9 |
| Project No.      | 2013-465-001                  | Sample No. | ST-20       |
| Lab ID #         | 2013-465-001-017              | Test No.   | 49          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G332                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G1457                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 354.4-354.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 50 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.530 | Diameter 1: | 2.873 |
| Length 2:   | 5.538 | Diameter 2: | 2.875 |
| Length 3:   | 5.515 | Diameter 3: | 2.877 |
| Avg. Length | 5.528 | Avg. Diam.: | 2.875 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 145.9 |
| Back Pressure (psi)        | 21.4  |
| Eff. Conf. Pressure (psi)  | 124.5 |
| Pore Pressure Response (%) | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 30.0 |
| Final Change (ml)            | 18.0 |

**MAXIMUM OBLIQUITY POINTS**

|   |   |        |
|---|---|--------|
| P | = | 230.58 |
| Q | = | 132.24 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 59  |
| Dial Reading After Saturation (mil)    | 71  |
| Dial Reading After Consolidation (mil) | 108 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 33.4         | 0.000               | 21.4                   |
| 65.9         | 0.001               | 22.8                   |
| 99.8         | 0.002               | 24.1                   |
| 236.1        | 0.005               | 31.6                   |
| 354.5        | 0.010               | 40.9                   |
| 453.4        | 0.014               | 50.5                   |
| 560.0        | 0.022               | 63.0                   |
| 626.5        | 0.030               | 72.0                   |
| 679.1        | 0.040               | 79.7                   |
| 747.6        | 0.059               | 85.8                   |
| 838.5        | 0.086               | 87.5                   |
| 961.6        | 0.119               | 85.0                   |
| 1095.3       | 0.152               | 80.3                   |
| 1268.1       | 0.191               | 73.3                   |
| 1380.3       | 0.218               | 68.3                   |
| 1560.2       | 0.256               | 59.6                   |
| 1800.3       | 0.307               | 47.6                   |
| 2046.6       | 0.360               | 34.7                   |
| 2226.7       | 0.402               | 25.4                   |
| 2450.0       | 0.458               | 13.9                   |
| 2598.9       | 0.498               | 6.2                    |
| 2726.6       | 0.538               | -0.1                   |
| 2832.5       | 0.579               | -4.5                   |
| 2880.3       | 0.606               | -5.6                   |
| 2912.7       | 0.633               | -5.6                   |
| 2935.8       | 0.661               | -5.5                   |
| 2958.9       | 0.689               | -5.7                   |
| 2985.8       | 0.731               | -6.1                   |
| 2998.2       | 0.771               | -6.5                   |
| 2979.4       | 0.798               | -6.7                   |
| 2956.5       | 0.825               | -6.9                   |

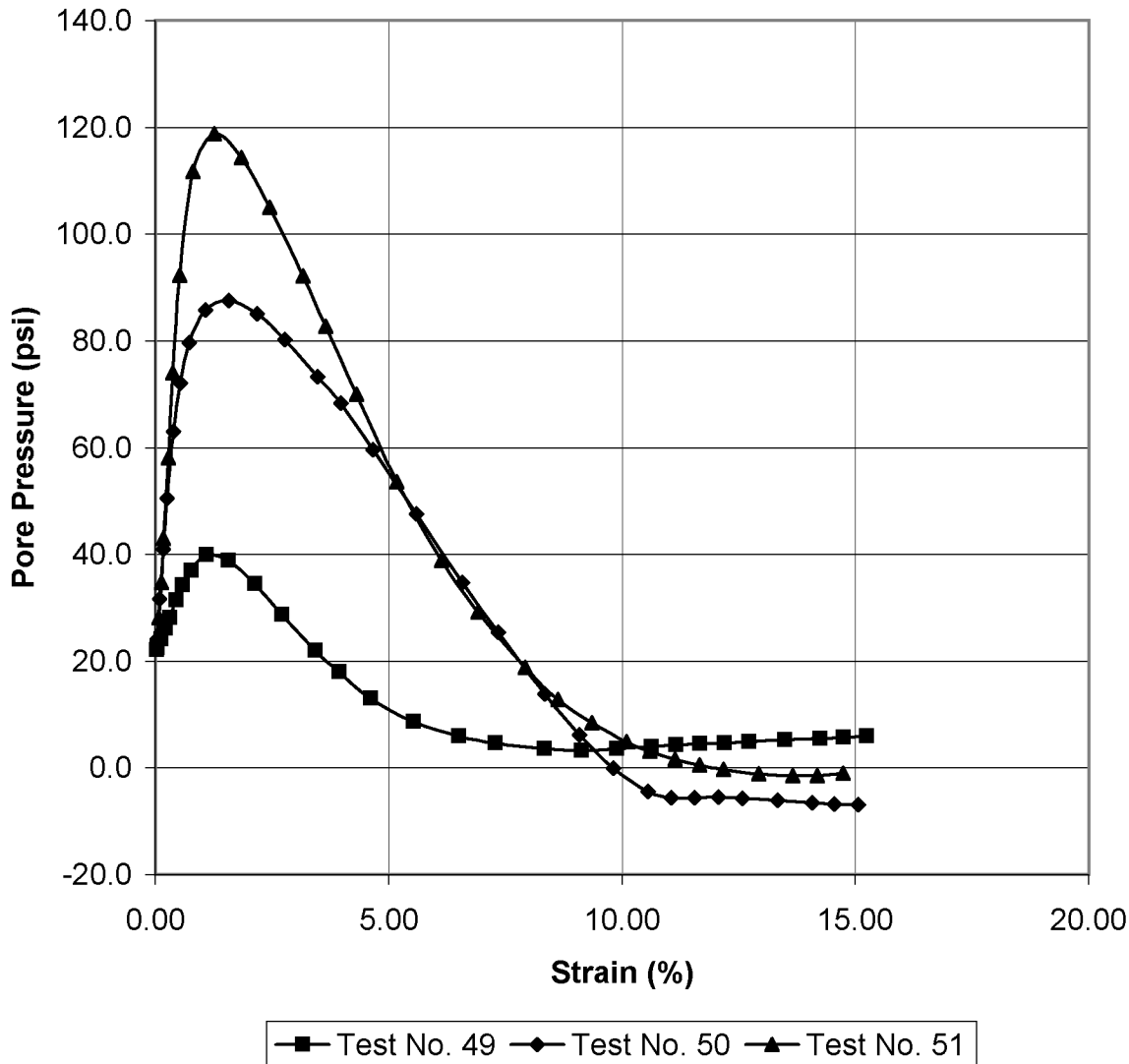
Tested By: JCM      Date: 11/23/13      Input Checked By: KC      Date: 12/5/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 354.0-356.0 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1113

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 354.4-354.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 124.5 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 50 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.53  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.49  |
| Initial Sample Volume (in <sup>3</sup> ) | 35.88 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 34.55 |
| Length After Consolidation (in)               | 5.48  |
| Area After Consolidation (in <sup>2</sup> )   | 6.307 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A     | P      | Q      |
|------------|------------------|--------|----------------|----------------|----------------------------------|-------|--------|--------|
| 0.02       | 5.15             | 1.42   | 128.23         | 123.1          | 1.042                            | 0.28  | 125.66 | 2.58   |
| 0.04       | 10.52            | 2.73   | 132.30         | 121.8          | 1.086                            | 0.26  | 127.03 | 5.26   |
| 0.09       | 32.11            | 10.25  | 146.36         | 114.3          | 1.281                            | 0.32  | 130.31 | 16.06  |
| 0.18       | 50.82            | 19.50  | 155.82         | 105.0          | 1.484                            | 0.38  | 130.41 | 25.41  |
| 0.26       | 66.42            | 29.13  | 161.78         | 95.4           | 1.696                            | 0.44  | 128.57 | 33.21  |
| 0.40       | 83.17            | 41.59  | 166.08         | 82.9           | 2.003                            | 0.50  | 124.49 | 41.59  |
| 0.54       | 93.53            | 50.63  | 167.40         | 73.9           | 2.266                            | 0.54  | 120.64 | 46.76  |
| 0.73       | 101.63           | 58.26  | 167.87         | 66.2           | 2.534                            | 0.57  | 117.06 | 50.82  |
| 1.08       | 112.02           | 64.35  | 172.17         | 60.1           | 2.863                            | 0.57  | 116.16 | 56.01  |
| 1.57       | 125.66           | 66.10  | 184.06         | 58.4           | 3.152                            | 0.53  | 121.23 | 62.83  |
| 2.18       | 143.97           | 63.61  | 204.86         | 60.9           | 3.364                            | 0.44  | 132.88 | 71.98  |
| 2.78       | 163.69           | 58.87  | 229.32         | 65.6           | 3.494                            | 0.36  | 147.47 | 81.85  |
| 3.48       | 188.95           | 51.88  | 261.57         | 72.6           | 3.602                            | 0.27  | 167.10 | 94.48  |
| 3.98       | 205.06           | 46.90  | 282.66         | 77.6           | 3.643                            | 0.23  | 180.13 | 102.53 |
| 4.67       | 230.78           | 38.24  | 317.04         | 86.3           | 3.675                            | 0.17  | 201.65 | 115.39 |
| 5.60       | 264.47           | 26.15  | 362.82         | 98.3           | 3.689                            | 0.10  | 230.58 | 132.24 |
| 6.58       | 298.21           | 13.30  | 409.41         | 111.2          | 3.682                            | 0.04  | 260.31 | 149.11 |
| 7.35       | 322.23           | 4.02   | 442.71         | 120.5          | 3.674                            | 0.01  | 281.60 | 161.11 |
| 8.35       | 351.17           | -7.51  | 483.18         | 132.0          | 3.660                            | -0.02 | 307.60 | 175.58 |
| 9.09       | 369.83           | -15.20 | 509.52         | 139.7          | 3.647                            | -0.04 | 324.61 | 184.91 |
| 9.82       | 385.12           | -21.51 | 531.13         | 146.0          | 3.638                            | -0.06 | 338.57 | 192.56 |
| 10.56      | 396.95           | -25.88 | 547.33         | 150.4          | 3.640                            | -0.07 | 348.86 | 198.47 |
| 11.06      | 401.51           | -27.02 | 553.02         | 151.5          | 3.650                            | -0.07 | 352.27 | 200.75 |
| 11.56      | 403.77           | -26.98 | 555.25         | 151.5          | 3.666                            | -0.07 | 353.36 | 201.89 |
| 12.07      | 404.65           | -26.91 | 556.06         | 151.4          | 3.673                            | -0.07 | 353.74 | 202.33 |
| 12.58      | 405.53           | -27.08 | 557.11         | 151.6          | 3.675                            | -0.07 | 354.34 | 202.77 |
| 13.34      | 405.71           | -27.49 | 557.70         | 152.0          | 3.669                            | -0.07 | 354.85 | 202.85 |
| 14.07      | 403.95           | -27.90 | 556.35         | 152.4          | 3.651                            | -0.07 | 354.37 | 201.97 |
| 14.56      | 399.13           | -28.14 | 551.76         | 152.6          | 3.615                            | -0.07 | 352.20 | 199.56 |
| 15.07      | 393.66           | -28.28 | 546.44         | 152.8          | 3.577                            | -0.07 | 349.61 | 196.83 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 354.4-354.9 |
| Project No.      | 2013-465-001                  | Sample No. | ST-20       |
| Lab ID #         | 2013-465-001-017              | Test No.   | 50          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G336                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G041                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | G1509-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**  
ASTM D4767-11



A-1115

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 354.9-355.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 51 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.808 | Diameter 1: | 2.876 |
| Length 2:    | 5.812 | Diameter 2: | 2.881 |
| Length 3:    | 5.807 | Diameter 3: | 2.877 |
| Avg. Length: | 5.809 | Avg. Diam.: | 2.878 |

**PRESSURES (psi)**

|                           |       |
|---------------------------|-------|
| Cell Pressure (psi)       | 263.5 |
| Back Pressure (psi)       | 21.7  |
| Eff. Conf. Pressure (psi) | 241.8 |
| Pore Pressure             |       |
| Response (%)              | 100   |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 30.8 |
| Final Change (ml)            | 17.2 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 451.77 |
| Q         | = | 258.28 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 48  |
| Dial Reading After Saturation (mil)    | 48  |
| Dial Reading After Consolidation (mil) | 113 |

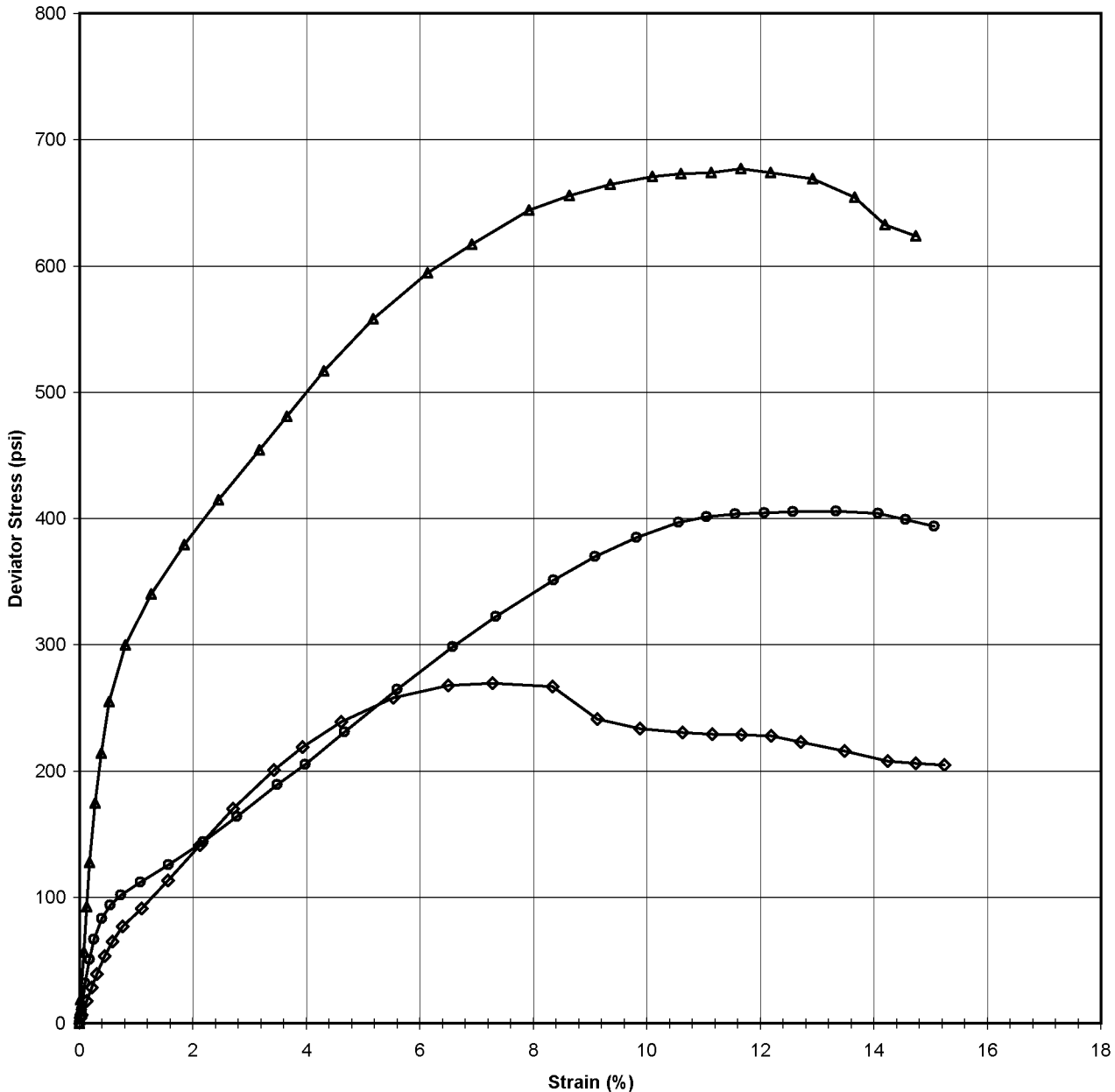
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 49.8         | 0.000               | 21.7                   |
| 112.5        | 0.001               | 22.6                   |
| 169.9        | 0.001               | 23.4                   |
| 410.0        | 0.004               | 28.1                   |
| 641.8        | 0.008               | 34.7                   |
| 865.7        | 0.010               | 43.0                   |
| 1167.8       | 0.016               | 58.1                   |
| 1424.2       | 0.022               | 74.0                   |
| 1688.3       | 0.030               | 92.3                   |
| 1982.5       | 0.047               | 111.7                  |
| 2252.0       | 0.073               | 118.7                  |
| 2521.9       | 0.106               | 114.3                  |
| 2768.8       | 0.141               | 105.0                  |
| 3050.4       | 0.182               | 92.1                   |
| 3241.1       | 0.210               | 82.6                   |
| 3502.7       | 0.248               | 70.0                   |
| 3815.1       | 0.297               | 53.6                   |
| 4099.3       | 0.353               | 38.8                   |
| 4291.1       | 0.397               | 29.1                   |
| 4524.1       | 0.455               | 18.8                   |
| 4639.9       | 0.496               | 12.8                   |
| 4738.3       | 0.537               | 8.4                    |
| 4823.9       | 0.580               | 4.9                    |
| 4865.0       | 0.609               | 3.1                    |
| 4899.9       | 0.640               | 1.6                    |
| 4953.1       | 0.670               | 0.5                    |
| 4957.9       | 0.699               | -0.3                   |
| 4963.3       | 0.743               | -1.1                   |
| 4898.0       | 0.785               | -1.5                   |
| 4766.9       | 0.815               | -1.5                   |
| 4729.0       | 0.846               | -1.0                   |

Tested By: JCM      Date: 11/23/13      Input Checked By: KC      Date: 12/5/13



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 354.0-356.0 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-20       |
| Lab ID:             | 2013-465-001-017                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 49                      ● Test No. 50                      ▲ Test No. 51

E50 Test No. 49 6759.104

E50 Test No. 50 7387.171

E50 Test No. 51 47220.65

Tested By: JCM                      Date: 11/23/13                      Approved By: DB                      Date: 12/5/13

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1117

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 354.9-355.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-20       |
| Lab ID:           | 2013-465-001-017              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 241.8 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 51 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.81  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.79 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 36.74 |
| Length After Consolidation (in)               | 5.74  |
| Area After Consolidation (in <sup>2</sup> )   | 6.396 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A     | P      | Q      |
|------------|------------------|--------|----------------|----------------|----------------------------------|-------|--------|--------|
| 0.01       | 9.79             | 0.90   | 250.70         | 240.9          | 1.041                            | 0.09  | 245.80 | 4.90   |
| 0.02       | 18.78            | 1.74   | 258.84         | 240.1          | 1.078                            | 0.09  | 249.45 | 9.39   |
| 0.08       | 56.27            | 6.39   | 291.68         | 235.4          | 1.239                            | 0.11  | 263.55 | 28.14  |
| 0.13       | 92.43            | 13.01  | 321.22         | 228.8          | 1.404                            | 0.14  | 275.01 | 46.21  |
| 0.18       | 127.33           | 21.30  | 347.83         | 220.5          | 1.577                            | 0.17  | 284.16 | 63.67  |
| 0.28       | 174.29           | 36.41  | 379.68         | 205.4          | 1.849                            | 0.21  | 292.54 | 87.15  |
| 0.38       | 214.06           | 52.31  | 403.55         | 189.5          | 2.130                            | 0.24  | 296.52 | 107.03 |
| 0.52       | 254.82           | 70.59  | 426.03         | 171.2          | 2.488                            | 0.28  | 298.62 | 127.41 |
| 0.81       | 299.70           | 89.97  | 451.52         | 151.8          | 2.974                            | 0.30  | 301.67 | 149.85 |
| 1.26       | 339.95           | 97.04  | 484.71         | 144.8          | 3.348                            | 0.29  | 314.73 | 169.97 |
| 1.85       | 379.35           | 92.56  | 528.59         | 149.2          | 3.542                            | 0.24  | 338.91 | 189.68 |
| 2.45       | 414.67           | 83.28  | 573.19         | 158.5          | 3.616                            | 0.20  | 365.86 | 207.33 |
| 3.17       | 454.26           | 70.39  | 625.67         | 171.4          | 3.650                            | 0.15  | 398.54 | 227.13 |
| 3.66       | 480.70           | 60.95  | 661.55         | 180.9          | 3.658                            | 0.13  | 421.20 | 240.35 |
| 4.31       | 516.56           | 48.31  | 710.05         | 193.5          | 3.670                            | 0.09  | 451.77 | 258.28 |
| 5.17       | 558.23           | 31.87  | 768.16         | 209.9          | 3.659                            | 0.06  | 489.04 | 279.11 |
| 6.14       | 594.25           | 17.11  | 818.94         | 224.7          | 3.645                            | 0.03  | 521.81 | 297.13 |
| 6.92       | 617.21           | 7.43   | 851.58         | 234.4          | 3.634                            | 0.01  | 542.97 | 308.61 |
| 7.93       | 644.06           | -2.91  | 888.77         | 244.7          | 3.632                            | 0.00  | 566.74 | 322.03 |
| 8.63       | 655.66           | -8.93  | 906.40         | 250.7          | 3.615                            | -0.01 | 578.57 | 327.83 |
| 9.36       | 664.41           | -13.28 | 919.49         | 255.1          | 3.605                            | -0.02 | 587.29 | 332.21 |
| 10.10      | 671.03           | -16.80 | 929.63         | 258.6          | 3.595                            | -0.03 | 594.12 | 335.51 |
| 10.60      | 672.99           | -18.65 | 933.44         | 260.4          | 3.584                            | -0.03 | 596.94 | 336.49 |
| 11.14      | 673.83           | -20.09 | 935.72         | 261.9          | 3.573                            | -0.03 | 598.81 | 336.92 |
| 11.66      | 677.20           | -21.16 | 940.16         | 263.0          | 3.575                            | -0.03 | 601.56 | 338.60 |
| 12.18      | 673.91           | -22.03 | 937.74         | 263.8          | 3.554                            | -0.03 | 600.78 | 336.95 |
| 12.93      | 668.89           | -22.81 | 933.50         | 264.6          | 3.528                            | -0.03 | 599.06 | 334.44 |
| 13.66      | 654.43           | -23.24 | 919.47         | 265.0          | 3.469                            | -0.04 | 592.26 | 327.21 |
| 14.19      | 632.81           | -23.18 | 897.79         | 265.0          | 3.388                            | -0.04 | 581.39 | 316.41 |
| 14.74      | 623.74           | -22.74 | 888.28         | 264.5          | 3.358                            | -0.04 | 576.41 | 311.87 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 354.9-355.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-20       |
| Lab ID #         | 2013-465-001-017              | Test No.   | 51          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G330                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G721                 | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-017                      Specific Gravity (measured)                      2.61

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 355.4-355.9 | 354.4-354.9 | 354.9-355.4 |
| Sample No.:                    | ST-20       | ST-20       | ST-20       |
| Test No.                       | T49         | T50         | T51         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.4        | 21.4        | 21.7        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 24.9        | 24.9        | 24.9        |
| Total Unit Weight (pcf)        | 121.5       | 119.4       | 121.7       |
| Dry Unit Weight (pcf)          | 97.3        | 95.6        | 97.4        |
| Moisture Content (%) (FINAL)   | 26.1        | 26.6        | 25.9        |
| Initial State Void Ratio, e    | 0.675       | 0.704       | 0.672       |
| Void Ratio at Shear, e         | 0.622       | 0.641       | 0.626       |



Tested By: JCM                      Date: 11/23/13                      Input Checked By: KC                      Date: 12/5/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T49     | T50     | T51    |
|---------------------------------|---------|---------|--------|
| Tare Number                     | 1706    | 1706    | 1706   |
| Weight of Tare & Wet Sample (g) | 132.62  | 132.62  | 132.62 |
| Weight of Tare & Dry Sample (g) | 122.68  | 122.68  | 122.68 |
| Weight of Tare (g)              | 82.8    | 82.8    | 82.8   |
| Moisture Content (%) (INITIAL)  | 24.92   | 24.92   | 24.92  |
|                                 |         |         |        |
| Tare Number                     | 39      | 970     | 899    |
| Weight of Tare & Wet Sample (g) | 1405    | 1212.44 | 399.16 |
| Weight of Tare & Dry Sample (g) | 1156.74 | 978.99  | 339.65 |
| Weight of Tare (g)              | 206.83  | 101.45  | 110.07 |
| Moisture Content (%) (FINAL)    | 26.14   | 26.60   | 25.92  |

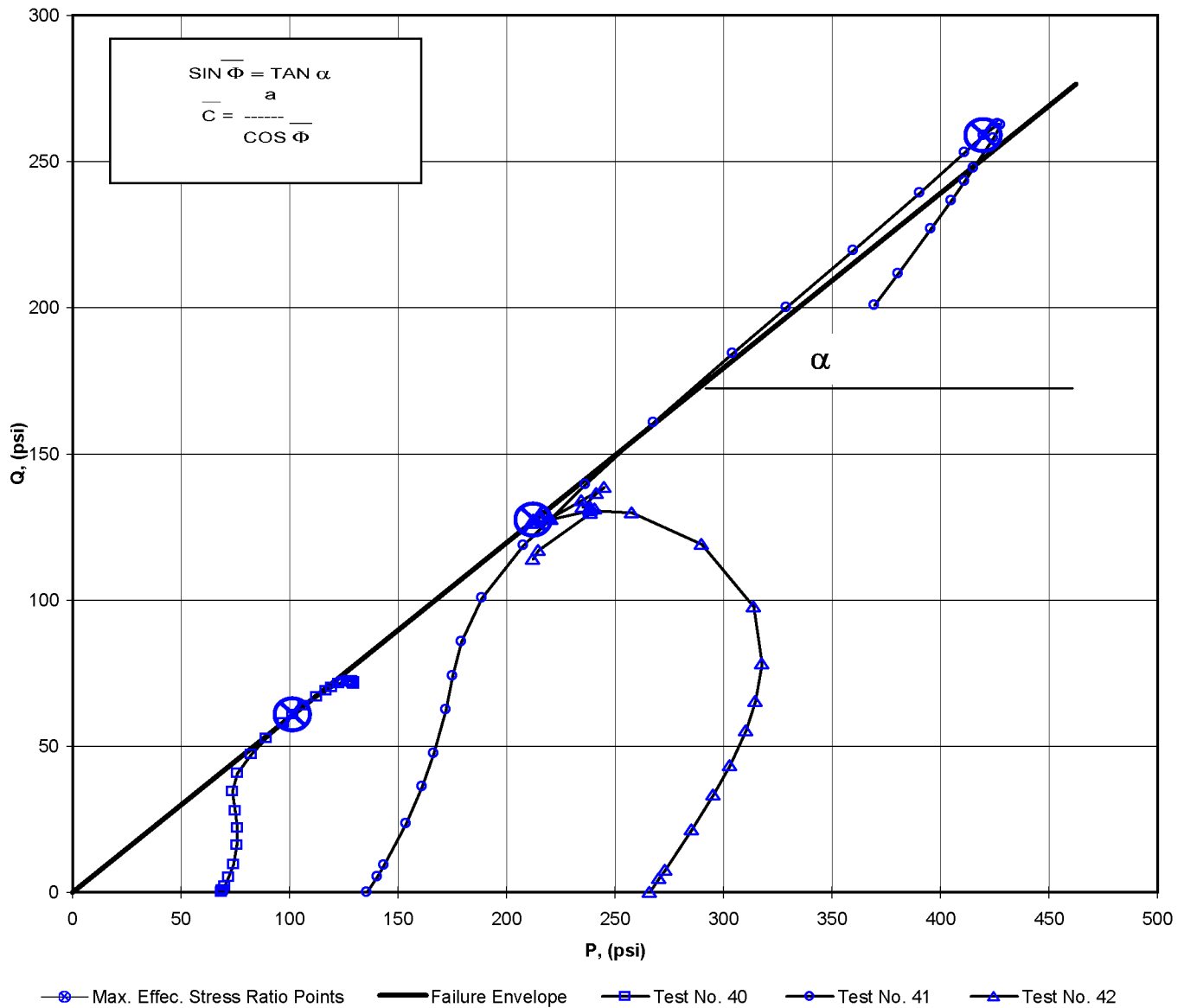
**UNIT WEIGHT**

|                                      |                     |            |             |
|--------------------------------------|---------------------|------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1613.08             | 1419.54    | 1612.5      |
| Weight of Tube (g)                   | 404.83              | 294.66     | 405.08      |
| Weight of Wet Sample (g)             | 1208.25             | 1124.88    | 1207.42     |
| Length 1 (in)                        | 5.812               | 5.53       | 5.808       |
| Length 2 (in)                        | 5.822               | 5.538      | 5.812       |
| Length 3 (in)                        | 5.827               | 5.515      | 5.807       |
| Top Diameter (in)                    | 2.877               | 2.873      | 2.876       |
| Middle Diameter (in)                 | 2.883               | 2.875      | 2.881       |
| Bottom Diameter (in)                 | 2.876               | 2.877      | 2.877       |
| Average Length (in)                  | 5.820333            | 5.527667   | 5.809       |
| Average Area (in <sup>2</sup> )      | 6.508               | 6.492      | 6.505       |
| Sample Volume (cm <sup>3</sup> )     | 620.76              | 588.04     | 619.26      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.95                | 1.91       | 1.95        |
| Unit Wet Weight (pcf)                | 121.51              | 119.42     | 121.72      |
| Unit Dry Weight (pcf)                | 97.27               | 95.60      | 97.44       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.56                | 1.53       | 1.56        |
| Initial Burette Reading              | <b>48</b>           | <b>48</b>  | <b>48</b>   |
| Final Burette Reading                | <b>35</b>           | <b>30</b>  | <b>30.8</b> |
| Initial Dial Reading                 | <b>51</b>           | <b>59</b>  | <b>48</b>   |
| Dial Reading After Saturation        | <b>72</b>           | <b>71</b>  | <b>48</b>   |
| Dial Reading After Consolidation     | <b>96</b>           | <b>108</b> | <b>113</b>  |
| Volume Change during Consolidation   | 13                  | 18         | 17.2        |
| Volume Change during Saturation      | 6.72                | 3.83       | 0.00        |
| Volume at Shear (cm <sup>3</sup> )   | *These 601.04       | 566.21     | 602.06      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 370.57 | 345.00     | 370.31      |
| Volume of Voids (cm <sup>3</sup> )   | are all 230.47      | 221.21     | 231.75      |
| Volume of Water (cm <sup>3</sup> )   | at 252.77           | 239.54     | 250.53      |
| Void Ratio, e                        | shear 0.622         | 0.641      | 0.626       |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 390.0-392.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

**Consolidated Undrained Triaxial Test with Pore Pressure**

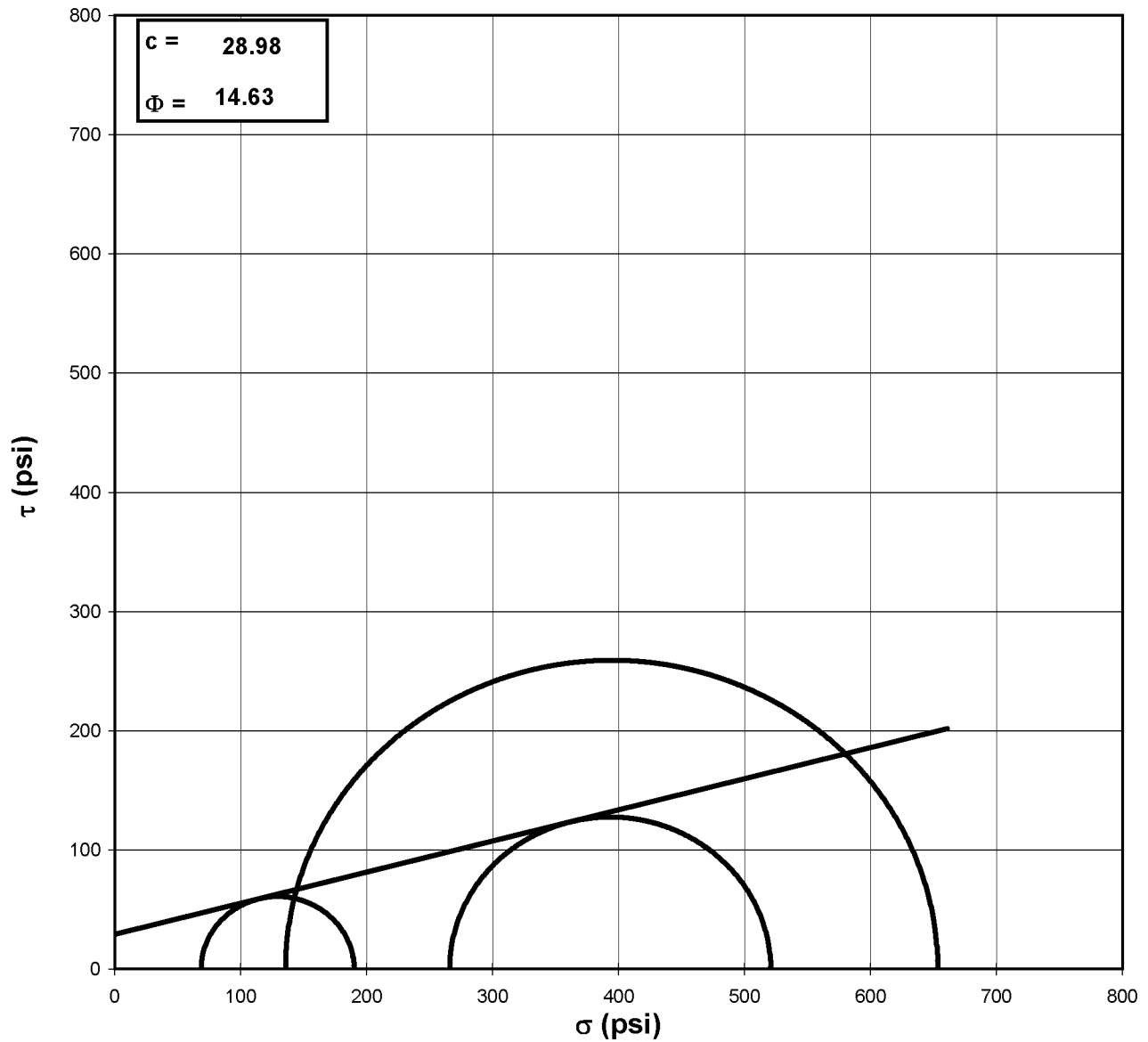


|          |          |             |           |          |              |
|----------|----------|-------------|-----------|----------|--------------|
| <b>a</b> | <b>=</b> | <b>0.00</b> | <b>C̄</b> | <b>=</b> | <b>0.00</b>  |
| <b>α</b> | <b>=</b> | <b>30.9</b> | <b>Φ̄</b> | <b>=</b> | <b>36.72</b> |

Tested By: JCM      Date: 11/18/13      Approved By: DB      Date: 12/4/13

**MOHR TOTAL STRENGTH ENVELOPE**  
 ASTM D4767-11

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 390.0-392.5 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-23       |
| Lab ID:             | 2013-465-001-019                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



Failure Based on Maximum Effective Principal Stress Ratio

NOTE: GRAPH NOT TO SCALE

Tested By: JCM      Date: 11/18/13      Approved By: DB      Date: 12/4/13

DCN: CT-S28 DATE: 4/12/13 REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1123

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 391.9-392.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 40 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.817 | Diameter 1: | 2.883 |
| Length 2:    | 5.806 | Diameter 2: | 2.873 |
| Length 3:    | 5.805 | Diameter 3: | 2.881 |
| Avg. Length: | 5.809 | Avg. Diam.: | 2.879 |

**PRESSURES (psi)**

|                            |      |
|----------------------------|------|
| Cell Pressure (psi)        | 90.6 |
| Back Pressure (psi)        | 21.9 |
| Eff. Conf. Pressure (psi)  | 68.7 |
| Pore Pressure Response (%) | 100  |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 72.0 |
| Final Burette Reading (ml)   | 45.1 |
| Final Change (ml)            | 26.9 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 101.56 |
| Q         | = | 60.73  |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 57  |
| Dial Reading After Saturation (mil)    | 90  |
| Dial Reading After Consolidation (mil) | 166 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 21.0         | 0.000               | 21.9                   |
| 27.2         | 0.001               | 22.1                   |
| 29.8         | 0.002               | 22.2                   |
| 46.0         | 0.008               | 22.5                   |
| 85.2         | 0.013               | 23.7                   |
| 140.4        | 0.017               | 26.0                   |
| 223.5        | 0.025               | 30.9                   |
| 295.3        | 0.032               | 36.6                   |
| 369.7        | 0.043               | 43.4                   |
| 454.5        | 0.063               | 51.2                   |
| 536.9        | 0.091               | 55.2                   |
| 621.4        | 0.125               | 55.4                   |
| 696.3        | 0.158               | 53.9                   |
| 768.8        | 0.199               | 51.4                   |
| 809.6        | 0.228               | 49.8                   |
| 854.5        | 0.269               | 47.6                   |
| 905.0        | 0.325               | 45.1                   |
| 941.4        | 0.383               | 42.7                   |
| 965.0        | 0.427               | 41.3                   |
| 992.4        | 0.486               | 39.3                   |
| 1010.1       | 0.530               | 37.8                   |
| 1024.1       | 0.574               | 36.4                   |
| 1031.9       | 0.618               | 35.3                   |
| 1038.8       | 0.647               | 34.8                   |
| 1043.9       | 0.676               | 34.3                   |
| 1047.5       | 0.705               | 33.8                   |
| 1048.9       | 0.735               | 33.4                   |
| 1058.3       | 0.779               | 32.9                   |
| 1059.7       | 0.823               | 32.4                   |
| 1063.3       | 0.852               | 32.1                   |
| 1062.9       | 0.881               | 31.8                   |

Tested By: JCM      Date: 11/18/13      Input Checked By: KC      Date: 12/4/13



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1124

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 391.9-392.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |      |                  |    |
|---|------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 68.7 | <i>Stage No.</i> | 1  |
|   |      | <i>Test No</i>   | 40 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.81  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 37.82 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 35.53 |
| Length After Consolidation (in)               | 5.70  |
| Area After Consolidation (in <sup>2</sup> )   | 6.233 |

| Strain (%) | Deviation Stress | Δ U   | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q     |
|------------|------------------|-------|------------------|------------------|----------------------------------|-----------|-----------|-------|
| 0.02       | 0.99             | 0.21  | 69.48            | 68.5             | 1.015                            | 0.21      | 68.99     | 0.50  |
| 0.04       | 1.41             | 0.27  | 69.84            | 68.4             | 1.021                            | 0.19      | 69.14     | 0.70  |
| 0.14       | 4.00             | 0.65  | 72.05            | 68.1             | 1.059                            | 0.16      | 70.05     | 2.00  |
| 0.22       | 10.28            | 1.82  | 77.16            | 66.9             | 1.154                            | 0.18      | 72.02     | 5.14  |
| 0.31       | 19.10            | 4.09  | 83.71            | 64.6             | 1.296                            | 0.21      | 74.16     | 9.55  |
| 0.44       | 32.35            | 9.00  | 92.05            | 59.7             | 1.542                            | 0.28      | 75.87     | 16.17 |
| 0.57       | 43.76            | 14.65 | 97.80            | 54.0             | 1.810                            | 0.33      | 75.92     | 21.88 |
| 0.76       | 55.52            | 21.55 | 102.68           | 47.2             | 2.177                            | 0.39      | 74.92     | 27.76 |
| 1.10       | 68.78            | 29.25 | 108.23           | 39.4             | 2.744                            | 0.43      | 73.84     | 34.39 |
| 1.60       | 81.44            | 33.27 | 116.87           | 35.4             | 3.299                            | 0.41      | 76.15     | 40.72 |
| 2.19       | 94.22            | 33.49 | 129.43           | 35.2             | 3.676                            | 0.36      | 82.32     | 47.11 |
| 2.78       | 105.33           | 31.96 | 142.07           | 36.7             | 3.867                            | 0.30      | 89.41     | 52.66 |
| 3.49       | 115.78           | 29.52 | 154.96           | 39.2             | 3.955                            | 0.25      | 97.07     | 57.89 |
| 4.00       | 121.46           | 27.87 | 162.29           | 40.8             | 3.975                            | 0.23      | 101.56    | 60.73 |
| 4.72       | 127.41           | 25.72 | 170.39           | 43.0             | 3.965                            | 0.20      | 106.68    | 63.70 |
| 5.70       | 133.73           | 23.16 | 179.27           | 45.5             | 3.937                            | 0.17      | 112.40    | 66.86 |
| 6.72       | 137.73           | 20.81 | 185.62           | 47.9             | 3.876                            | 0.15      | 116.75    | 68.86 |
| 7.48       | 140.12           | 19.35 | 189.46           | 49.3             | 3.839                            | 0.14      | 119.40    | 70.06 |
| 8.52       | 142.57           | 17.36 | 193.91           | 51.3             | 3.777                            | 0.12      | 122.62    | 71.28 |
| 9.30       | 143.93           | 15.86 | 196.77           | 52.8             | 3.724                            | 0.11      | 124.80    | 71.97 |
| 10.08      | 144.71           | 14.51 | 198.90           | 54.2             | 3.671                            | 0.10      | 126.54    | 72.36 |
| 10.84      | 144.61           | 13.44 | 199.87           | 55.3             | 3.617                            | 0.09      | 127.57    | 72.30 |
| 11.34      | 144.76           | 12.88 | 200.57           | 55.8             | 3.593                            | 0.09      | 128.19    | 72.38 |
| 11.86      | 144.64           | 12.38 | 200.97           | 56.3             | 3.568                            | 0.09      | 128.65    | 72.32 |
| 12.37      | 144.31           | 11.92 | 201.09           | 56.8             | 3.542                            | 0.08      | 128.94    | 72.16 |
| 12.89      | 143.65           | 11.46 | 200.89           | 57.2             | 3.510                            | 0.08      | 129.06    | 71.83 |
| 13.67      | 143.67           | 10.96 | 201.41           | 57.7             | 3.488                            | 0.08      | 129.57    | 71.83 |
| 14.44      | 142.58           | 10.53 | 200.75           | 58.2             | 3.451                            | 0.07      | 129.46    | 71.29 |
| 14.95      | 142.22           | 10.17 | 200.75           | 58.5             | 3.430                            | 0.07      | 129.64    | 71.11 |
| 15.46      | 141.31           | 9.89  | 200.12           | 58.8             | 3.403                            | 0.07      | 129.46    | 70.66 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 391.9-392.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-23       |
| Lab ID #         | 2013-465-001-019              | Test No.   | 40          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G331                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1190                | 2/22/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | NA                   | NA                          |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**

ASTM D4767-11



A-1126

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 390.9-391.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 41 |

**INITIAL SAMPLE DIMENSIONS (in)**

|             |       |             |       |
|-------------|-------|-------------|-------|
| Length 1:   | 5.964 | Diameter 1: | 2.871 |
| Length 2:   | 5.961 | Diameter 2: | 2.882 |
| Length 3:   | 5.964 | Diameter 3: | 2.887 |
| Avg. Length | 5.963 | Avg. Diam.: | 2.880 |

**PRESSURES (psi)**

|                           |       |
|---------------------------|-------|
| Cell Pressure (psi)       | 168.0 |
| Back Pressure (psi)       | 32.3  |
| Eff. Conf. Pressure (psi) | 135.7 |
| Pore Pressure             |       |
| Response (%)              | 97    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 32.6 |
| Final Change (ml)            | 15.4 |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 419.82 |
| Q         | = | 258.90 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 85  |
| Dial Reading After Saturation (mil)    | 91  |
| Dial Reading After Consolidation (mil) | 175 |

| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 48.6         | 0.000               | 32.3                   |
| 117.6        | 0.001               | 32.8                   |
| 167.2        | 0.002               | 33.6                   |
| 351.1        | 0.006               | 37.6                   |
| 514.1        | 0.011               | 43.0                   |
| 662.5        | 0.016               | 49.0                   |
| 856.3        | 0.024               | 58.2                   |
| 1005.7       | 0.033               | 66.8                   |
| 1161.3       | 0.044               | 74.4                   |
| 1359.0       | 0.064               | 80.0                   |
| 1600.4       | 0.092               | 78.7                   |
| 1883.8       | 0.125               | 71.0                   |
| 2173.2       | 0.159               | 60.8                   |
| 2504.1       | 0.200               | 47.9                   |
| 2727.0       | 0.229               | 39.0                   |
| 3009.3       | 0.270               | 27.7                   |
| 3309.1       | 0.326               | 16.7                   |
| 3531.5       | 0.382               | 9.9                    |
| 3640.7       | 0.426               | 7.1                    |
| 3738.5       | 0.487               | 4.4                    |
| 3761.9       | 0.531               | 2.8                    |
| 3728.4       | 0.575               | 1.4                    |
| 3612.9       | 0.620               | 0.4                    |
| 3567.6       | 0.650               | 0.0                    |
| 3492.3       | 0.680               | -0.4                   |
| 3370.2       | 0.711               | -0.7                   |
| 3165.6       | 0.742               | -0.9                   |
| 3035.0       | 0.789               | -0.8                   |

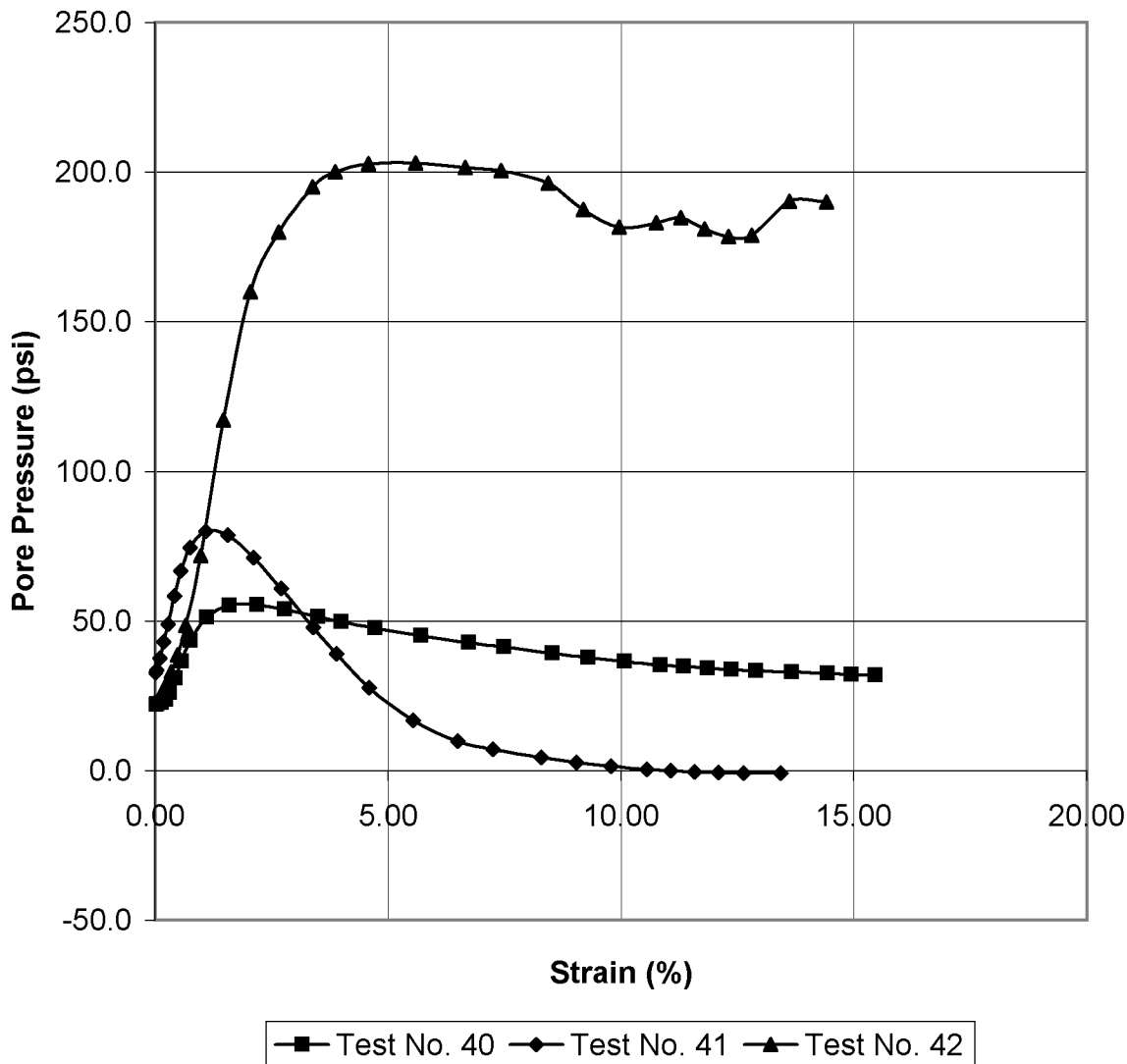
Tested By: JCM      Date: 11/18/13      Input Checked By: KC      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 390.0-392.5 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

**Pore Pressure vs % Strain**



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1128

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 390.9-391.4 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 135.7 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 41 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.96  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.51  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.85 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.79 |
| Length After Consolidation (in)               | 5.87  |
| Area After Consolidation (in <sup>2</sup> )   | 6.434 |

| Strain (%) | Deviation Stress | Δ U    | σ <sub>1</sub> | σ <sub>3</sub> | Effective Principle Stress Ratio | A     | P      | Q      |
|------------|------------------|--------|----------------|----------------|----------------------------------|-------|--------|--------|
| 0.02       | 10.73            | 0.46   | 145.96         | 135.2          | 1.079                            | 0.04  | 140.60 | 5.36   |
| 0.03       | 18.43            | 1.27   | 152.86         | 134.4          | 1.137                            | 0.07  | 143.64 | 9.22   |
| 0.10       | 46.96            | 5.34   | 177.32         | 130.4          | 1.360                            | 0.12  | 153.84 | 23.48  |
| 0.19       | 72.21            | 10.67  | 197.25         | 125.0          | 1.578                            | 0.15  | 161.14 | 36.11  |
| 0.28       | 95.15            | 16.65  | 214.20         | 119.0          | 1.799                            | 0.18  | 166.62 | 47.57  |
| 0.42       | 125.00           | 25.93  | 234.77         | 109.8          | 2.139                            | 0.21  | 172.27 | 62.50  |
| 0.56       | 147.92           | 34.46  | 249.16         | 101.2          | 2.461                            | 0.24  | 175.20 | 73.96  |
| 0.75       | 171.63           | 42.10  | 265.23         | 93.6           | 2.834                            | 0.25  | 179.41 | 85.82  |
| 1.09       | 201.44           | 47.74  | 289.40         | 88.0           | 3.290                            | 0.24  | 188.68 | 100.72 |
| 1.57       | 237.40           | 46.41  | 326.68         | 89.3           | 3.659                            | 0.20  | 207.98 | 118.70 |
| 2.12       | 279.17           | 38.74  | 376.13         | 97.0           | 3.879                            | 0.14  | 236.55 | 139.59 |
| 2.71       | 321.25           | 28.54  | 428.41         | 107.2          | 3.998                            | 0.09  | 267.78 | 160.63 |
| 3.40       | 368.65           | 15.57  | 488.78         | 120.1          | 4.069                            | 0.04  | 304.45 | 184.33 |
| 3.90       | 400.03           | 6.67   | 529.06         | 129.0          | 4.100                            | 0.02  | 329.04 | 200.01 |
| 4.60       | 438.98           | -4.64  | 579.33         | 140.3          | 4.128                            | -0.01 | 359.84 | 219.49 |
| 5.54       | 478.64           | -15.63 | 629.97         | 151.3          | 4.163                            | -0.03 | 390.65 | 239.32 |
| 6.50       | 506.11           | -22.38 | 664.19         | 158.1          | 4.202                            | -0.05 | 411.13 | 253.06 |
| 7.25       | 517.80           | -25.22 | 678.72         | 160.9          | 4.218                            | -0.05 | 419.82 | 258.90 |
| 8.30       | 525.89           | -27.89 | 689.48         | 163.6          | 4.215                            | -0.05 | 426.53 | 262.94 |
| 9.05       | 524.89           | -29.55 | 690.14         | 165.2          | 4.176                            | -0.06 | 427.69 | 262.44 |
| 9.79       | 515.92           | -30.93 | 682.55         | 166.6          | 4.096                            | -0.06 | 424.59 | 257.96 |
| 10.55      | 495.50           | -31.89 | 663.08         | 167.6          | 3.957                            | -0.07 | 415.34 | 247.75 |
| 11.07      | 486.35           | -32.31 | 654.36         | 168.0          | 3.895                            | -0.07 | 411.19 | 243.17 |
| 11.58      | 473.24           | -32.70 | 641.64         | 168.4          | 3.810                            | -0.07 | 405.02 | 236.62 |
| 12.10      | 453.77           | -33.02 | 622.49         | 168.7          | 3.689                            | -0.08 | 395.61 | 226.88 |
| 12.64      | 423.22           | -33.21 | 592.13         | 168.9          | 3.506                            | -0.08 | 380.52 | 211.61 |
| 13.43      | 401.80           | -33.09 | 570.59         | 168.8          | 3.381                            | -0.08 | 369.69 | 200.90 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**  
 ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 390.9-391.4 |
| Project No.      | 2013-465-001                  | Sample No. | ST-23       |
| Lab ID #         | 2013-465-001-019              | Test No.   | 41          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G309                 | INITIAL ONLY                |
| Load Cell                | G1310                | 1/8/14                      |
| Cell Pressure Transducer | G1073B               | 11/7/14                     |
| Pore Pressure Transducer | G1518                | 11/7/14                     |
| Extensometer             | G835                 | 1/8/14                      |
| Load Frame               | G833                 | 1/8/14                      |
| Dial Indicator           | G1295                | 3/4/14                      |
| Timing Device            | G489                 | 5/13/14                     |
| Balance                  | NA                   | NA                          |
| Flow Pump                | G1511-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS**  
ASTM D4767-11



A-1130

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 391.4-391.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|           |    |
|-----------|----|
| Stage No. | 1  |
| Test No.  | 42 |

**INITIAL SAMPLE DIMENSIONS (in)**

|              |       |             |       |
|--------------|-------|-------------|-------|
| Length 1:    | 5.927 | Diameter 1: | 2.875 |
| Length 2:    | 5.923 | Diameter 2: | 2.877 |
| Length 3:    | 5.925 | Diameter 3: | 2.881 |
| Avg. Length: | 5.925 | Avg. Diam.: | 2.878 |

**PRESSURES (psi)**

|                            |       |
|----------------------------|-------|
| Cell Pressure (psi)        | 288.1 |
| Back Pressure (psi)        | 22.1  |
| Eff. Conf. Pressure (psi)  | 266.0 |
| Pore Pressure Response (%) | 97    |

**VOLUME CHANGE**

|                              |      |
|------------------------------|------|
| Initial Burette Reading (ml) | 48.0 |
| Final Burette Reading (ml)   | 38.6 |
| Final Change (ml)            | 9.4  |

**MAXIMUM OBLIQUITY POINTS**

|           |   |        |
|-----------|---|--------|
| $\bar{P}$ | = | 212.57 |
| Q         | = | 127.41 |

|  |     |
|--|-----|
| Initial Dial Reading (mil)             | 43  |
| Dial Reading After Saturation (mil)    | 51  |
| Dial Reading After Consolidation (mil) | 174 |

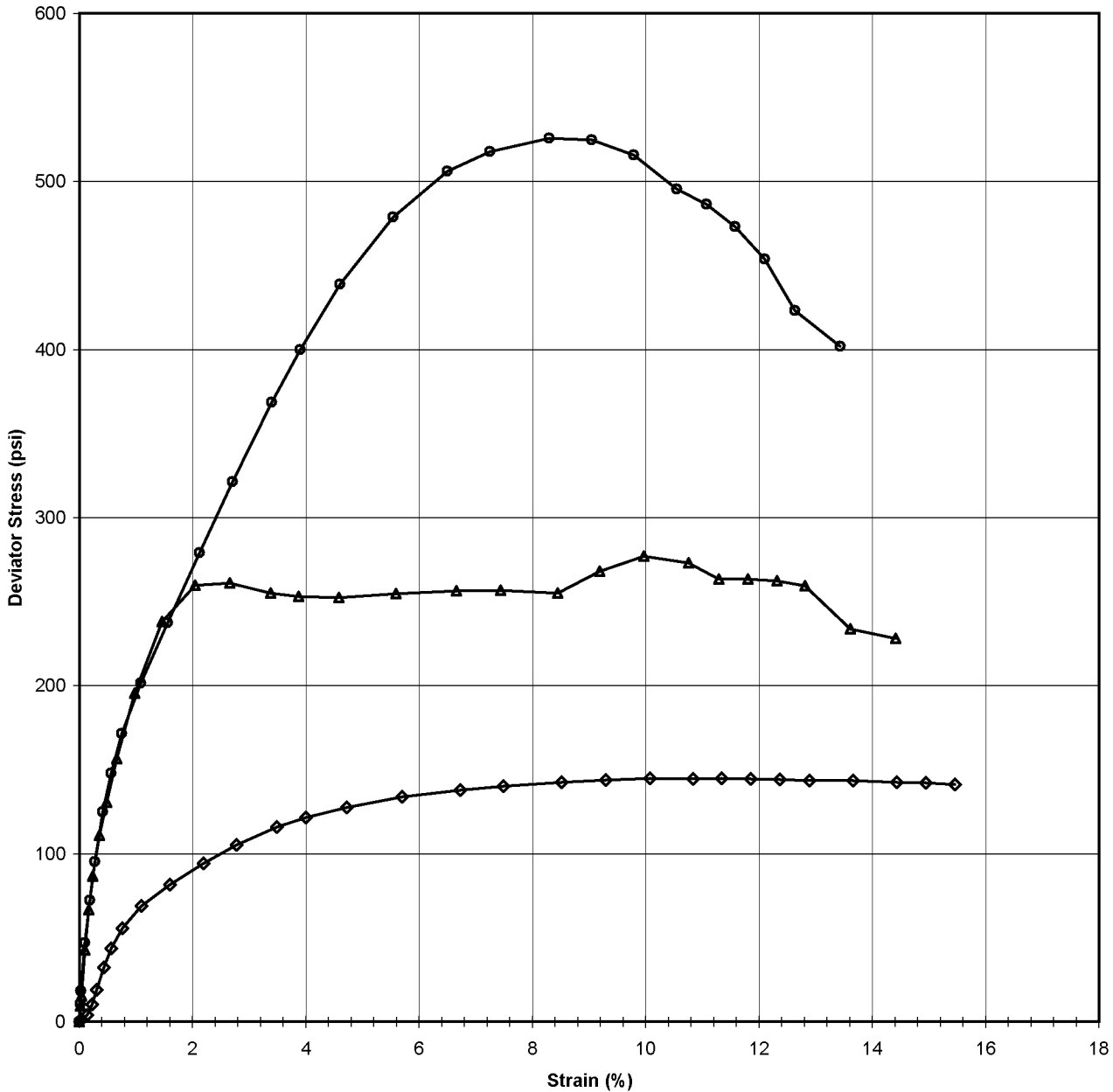
| LOAD<br>(LB) | DEFORMATION<br>(IN) | PORE PRESSURE<br>(PSI) |
|--------------|---------------------|------------------------|
| 47.9         | 0.000               | 22.1                   |
| 109.6        | 0.001               | 22.4                   |
| 147.7        | 0.002               | 22.6                   |
| 326.4        | 0.006               | 24.0                   |
| 482.5        | 0.010               | 25.9                   |
| 613.7        | 0.014               | 28.4                   |
| 772.9        | 0.021               | 33.0                   |
| 904.2        | 0.028               | 38.6                   |
| 1075.2       | 0.038               | 48.4                   |
| 1336.0       | 0.057               | 71.9                   |
| 1624.9       | 0.085               | 117.1                  |
| 1777.4       | 0.118               | 159.9                  |
| 1797.8       | 0.154               | 179.9                  |
| 1769.8       | 0.196               | 195.0                  |
| 1764.7       | 0.224               | 200.0                  |
| 1773.5       | 0.266               | 202.7                  |
| 1809.1       | 0.324               | 202.9                  |
| 1841.1       | 0.386               | 201.6                  |
| 1858.6       | 0.431               | 200.5                  |
| 1866.2       | 0.489               | 196.2                  |
| 1973.4       | 0.533               | 187.5                  |
| 2055.5       | 0.577               | 181.6                  |
| 2044.0       | 0.623               | 183.1                  |
| 1984.8       | 0.654               | 184.6                  |
| 1997.1       | 0.684               | 181.0                  |
| 1999.6       | 0.714               | 178.5                  |
| 1989.7       | 0.742               | 178.9                  |
| 1814.2       | 0.789               | 190.1                  |
| 1786.0       | 0.835               | 190.0                  |

Tested By: JCM      Date: 11/18/13      Input Checked By: KC      Date: 12/4/13

DCN: CI-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

|                     |  |             |             |
|---------------------|--|-------------|-------------|
| Client:             | Paul C. Rizzo & Associates             | Boring No.: | R-7-1       |
| Client Reference:   | Turkey Point Units 6 & 7 Site          | Depth (ft): | 390.0-392.5 |
| Project No.:        | 2013-465-001                           | Sample No.: | ST-23       |
| Lab ID:             | 2013-465-001-019                       |             |             |
| Visual Description: | Greenish Gray Silty Sand (Undisturbed) |             |             |



◆ Test No. 40

● Test No. 41

▲ Test No. 42

E50 Test No. 40 6795.731

E50 Test No. 41 13971.59

E50 Test No. 42 27450.68

Tested By: JCM

Date: 11/18/13

Approved By: DB

Date: 12/4/13



**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
WITH PORE PRESSURE READINGS  
ASTM D4767-11**



A-1132

|                   |                               |             |             |
|-------------------|-------------------------------|-------------|-------------|
| Client:           | Paul C. Rizzo & Associates    | Boring No.: | R-7-1       |
| Client Reference: | Turkey Point Units 6 & 7 Site | Depth (ft): | 391.4-391.9 |
| Project No.:      | 2013-465-001                  | Sample No.: | ST-23       |
| Lab ID:           | 2013-465-001-019              |             |             |

Visual Description: Greenish Gray Silty Sand (Undisturbed)

|   |       |                  |    |
|---|-------|------------------|----|
| <i>Effective Confining Pressure (psi)</i> | 266.0 | <i>Stage No.</i> | 1  |
|   |       | <i>Test No</i>   | 42 |

**INITIAL DIMENSIONS**

|  |       |
|--|-------|
| Initial Sample Length (in)               | 5.93  |
| Initial Sample Diameter (in)             | 2.88  |
| Initial Sample Area (in <sup>2</sup> )   | 6.50  |
| Initial Sample Volume (in <sup>3</sup> ) | 38.54 |

**VOLUME CHANGE**

|   |       |
|---|-------|
| Volume After Consolidation (in <sup>3</sup> ) | 37.81 |
| Length After Consolidation (in)               | 5.79  |
| Area After Consolidation (in <sup>2</sup> )   | 6.525 |

| Strain (%) | Deviation Stress | $\Delta U$ | $\bar{\sigma}_1$ | $\bar{\sigma}_3$ | Effective Principle Stress Ratio | $\bar{A}$ | $\bar{P}$ | Q      |
|------------|------------------|------------|------------------|------------------|----------------------------------|-----------|-----------|--------|
| 0.02       | 9.46             | 0.33       | 275.12           | 265.7            | 1.036                            | 0.04      | 270.40    | 4.73   |
| 0.04       | 15.29            | 0.54       | 280.75           | 265.5            | 1.058                            | 0.04      | 273.10    | 7.65   |
| 0.10       | 42.63            | 1.91       | 306.72           | 264.1            | 1.161                            | 0.05      | 285.40    | 21.32  |
| 0.17       | 66.49            | 3.82       | 328.67           | 262.2            | 1.254                            | 0.06      | 295.43    | 33.24  |
| 0.24       | 86.51            | 6.25       | 346.25           | 259.7            | 1.333                            | 0.07      | 303.00    | 43.25  |
| 0.36       | 110.71           | 10.91      | 365.81           | 255.1            | 1.434                            | 0.10      | 310.45    | 55.36  |
| 0.48       | 130.59           | 16.55      | 380.05           | 249.5            | 1.524                            | 0.13      | 314.75    | 65.30  |
| 0.66       | 156.41           | 26.28      | 396.13           | 239.7            | 1.652                            | 0.17      | 317.93    | 78.20  |
| 0.98       | 195.47           | 49.75      | 411.71           | 216.2            | 1.904                            | 0.26      | 313.98    | 97.73  |
| 1.47       | 238.15           | 94.95      | 409.19           | 171.0            | 2.392                            | 0.41      | 290.12    | 119.07 |
| 2.04       | 259.65           | 137.83     | 387.82           | 128.2            | 3.026                            | 0.55      | 257.99    | 129.82 |
| 2.66       | 261.04           | 157.83     | 369.21           | 108.2            | 3.413                            | 0.62      | 238.69    | 130.52 |
| 3.38       | 254.97           | 172.91     | 348.05           | 93.1             | 3.739                            | 0.70      | 220.57    | 127.48 |
| 3.87       | 252.93           | 177.88     | 341.06           | 88.1             | 3.870                            | 0.73      | 214.59    | 126.47 |
| 4.59       | 252.33           | 180.61     | 337.72           | 85.4             | 3.955                            | 0.74      | 211.56    | 126.17 |
| 5.59       | 254.82           | 180.83     | 339.98           | 85.2             | 3.992                            | 0.73      | 212.57    | 127.41 |
| 6.66       | 256.51           | 179.51     | 343.01           | 86.5             | 3.966                            | 0.72      | 214.75    | 128.26 |
| 7.44       | 256.87           | 178.37     | 344.50           | 87.6             | 3.931                            | 0.72      | 216.07    | 128.43 |
| 8.44       | 255.14           | 174.11     | 347.02           | 91.9             | 3.777                            | 0.70      | 219.46    | 127.57 |
| 9.19       | 267.97           | 165.36     | 368.61           | 100.6            | 3.663                            | 0.64      | 234.63    | 133.99 |
| 9.97       | 277.03           | 159.48     | 383.54           | 106.5            | 3.601                            | 0.59      | 245.03    | 138.51 |
| 10.76      | 273.01           | 161.00     | 378.01           | 105.0            | 3.600                            | 0.61      | 241.51    | 136.51 |
| 11.29      | 263.33           | 162.51     | 366.82           | 103.5            | 3.544                            | 0.64      | 235.15    | 131.66 |
| 11.81      | 263.46           | 158.92     | 370.55           | 107.1            | 3.460                            | 0.62      | 238.81    | 131.73 |
| 12.32      | 262.27           | 156.41     | 371.86           | 109.6            | 3.393                            | 0.61      | 240.72    | 131.13 |
| 12.81      | 259.47           | 156.83     | 368.64           | 109.2            | 3.377                            | 0.62      | 238.90    | 129.74 |
| 13.62      | 233.84           | 168.00     | 331.84           | 98.0             | 3.386                            | 0.74      | 214.92    | 116.92 |
| 14.41      | 227.99           | 167.87     | 326.12           | 98.1             | 3.323                            | 0.76      | 212.13    | 113.99 |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**EQUIPMENT LIST**

|                  |                               |            |             |
|------------------|-------------------------------|------------|-------------|
| Client           | Paul C. Rizzo & Associates    | Boring No. | R-7-1       |
| Client Reference | Turkey Point Units 6 & 7 Site | Depth (ft) | 391.4-391.9 |
| Project No.      | 2013-465-001                  | Sample No. | ST-23       |
| Lab ID #         | 2013-465-001-019              | Test No.   | 42          |

| <b>Equipment</b>         | <b>Equipment ID#</b> | <b>Calibration Due Date</b> |
|--------------------------|----------------------|-----------------------------|
| Oven                     | G1387                | 8/16/14                     |
| Balance                  | G1047                | 3/25/14                     |
| Calipers                 | G1123                | 12/13/13                    |
| PI Tape                  | G1121                | 1/14/14                     |
| Pressure Transducer      | G134                 | 1/9/14                      |
| Burette, Outflow         | G334                 | INITIAL ONLY                |
| Load Cell                | G1311                | 1/8/14                      |
| Cell Pressure Transducer | G1512                | 11/7/14                     |
| Pore Pressure Transducer | G1514                | 11/7/14                     |
| Extensometer             | G1073A               | 1/8/14                      |
| Load Frame               | G1073                | 1/8/14                      |
| Dial Indicator           | G1456                | 8/30/14                     |
| Timing Device            | G489                 | 5/13/14                     |
| Flow Pump                | G1510-1              | 11/7/14                     |

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS  
 ASTM D4767-11**

Client: Paul C. Rizzo & Associates  
 Client Reference: Turkey Point Units 6 & 7 Site  
 Project No.: 2013-465-001  
 Lab ID: 2013-465-001-019                      Specific Gravity (measured)                      2.6

Visual Description: Greenish Gray Silty Sand (Undisturbed)

**SAMPLE CONDITION SUMMARY**

|                                |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| Boring No.:                    | R-7-1       | R-7-1       | R-7-1       |
| Depth (ft):                    | 391.9-392.4 | 390.9-391.4 | 391.4-391.9 |
| Sample No.:                    | ST-23       | ST-23       | ST-23       |
| Test No.                       | T40         | T41         | T42         |
| Deformation Rate (in/min)      | 0.002       | 0.002       | 0.002       |
| Back Pressure (psi)            | 21.9        | 32.3        | 22.1        |
| Consolidation Time (days)      | 1           | 1           | 1           |
| Moisture Content (%) (INITIAL) | 26.8        | 26.8        | 26.8        |
| Total Unit Weight (pcf)        | 116.1       | 123.1       | 120.9       |
| Dry Unit Weight (pcf)          | 91.5        | 97.1        | 95.3        |
| Moisture Content (%) (FINAL)   | 35.1        | 26.1        | 29.6        |
| Initial State Void Ratio, e    | 0.773       | 0.672       | 0.702       |
| Void Ratio at Shear, e         | 0.666       | 0.627       | 0.670       |



Tested By: JCM                      Date: 11/18/13                      Input Checked By: KC                      Date: 12/4/13

DCN: CT-S28    DATE: 4/12/13    REVISION: 3

**CONSOLIDATED UNDRAINED TRIAXIAL TEST  
 WITH PORE PRESSURE READINGS**

ASTM D4767-11

**MOISTURE CONTENT**

|                                 | T40    | T41     | T42     |
|---------------------------------|--------|---------|---------|
| Tare Number                     | 1126   | 1126    | 1126    |
| Weight of Tare & Wet Sample (g) | 182.1  | 182.1   | 182.1   |
| Weight of Tare & Dry Sample (g) | 161.54 | 161.54  | 161.54  |
| Weight of Tare (g)              | 84.87  | 84.87   | 84.87   |
| Moisture Content (%) (INITIAL)  | 26.82  | 26.82   | 26.82   |
|                                 |        |         |         |
| Tare Number                     | 580    | 926     | 649     |
| Weight of Tare & Wet Sample (g) | 297.06 | 1343.81 | 1308.88 |
| Weight of Tare & Dry Sample (g) | 241.79 | 1085.42 | 1031.84 |
| Weight of Tare (g)              | 84.36  | 95.77   | 96.84   |
| Moisture Content (%) (FINAL)    | 35.11  | 26.11   | 29.63   |

**UNIT WEIGHT**

|                                      |                     |             |             |
|--------------------------------------|---------------------|-------------|-------------|
| Weight of Tube & Wet Sample (g)      | 1557.3              | 1672.34     | 1637.42     |
| Weight of Tube (g)                   | 405.21              | 417.37      | 414.42      |
| Weight of Wet Sample (g)             | 1152.09             | 1254.97     | 1223        |
| Length 1 (in)                        | 5.817               | 5.964       | 5.927       |
| Length 2 (in)                        | 5.806               | 5.961       | 5.923       |
| Length 3 (in)                        | 5.805               | 5.964       | 5.925       |
| Top Diameter (in)                    | 2.883               | 2.871       | 2.875       |
| Middle Diameter (in)                 | 2.873               | 2.882       | 2.877       |
| Bottom Diameter (in)                 | 2.881               | 2.887       | 2.881       |
| Average Length (in)                  | 5.809333            | 5.963       | 5.925       |
| Average Area (in)                    | 6.510               | 6.514       | 6.504       |
| Sample Volume (cm <sup>3</sup> )     | 619.73              | 636.56      | 631.48      |
| Unit Wet Weight (g/cm <sup>3</sup> ) | 1.86                | 1.97        | 1.94        |
| Unit Wet Weight (pcf)                | 116.06              | 123.08      | 120.91      |
| Unit Dry Weight (pcf)                | 91.52               | 97.05       | 95.34       |
| Unit Dry Weight (g/cm <sup>3</sup> ) | 1.47                | 1.55        | 1.53        |
| Initial Burette Reading              | <b>72</b>           | <b>48</b>   | <b>48</b>   |
| Final Burette Reading                | <b>45.1</b>         | <b>32.6</b> | <b>38.6</b> |
| Initial Dial Reading                 | <b>57</b>           | <b>85</b>   | <b>43</b>   |
| Dial Reading After Saturation        | <b>90</b>           | <b>91</b>   | <b>51</b>   |
| Dial Reading After Consolidation     | <b>166</b>          | <b>175</b>  | <b>174</b>  |
| Volume Change during Consolidation   | 26.9                | 15.4        | 9.4         |
| Volume Change during Saturation      | 10.56               | 1.92        | 2.56        |
| Volume at Shear (cm <sup>3</sup> )   | *These 582.27       | 619.24      | 619.52      |
| Volume of Solids (cm <sup>3</sup> )  | measurements 349.41 | 380.61      | 370.92      |
| Volume of Voids (cm <sup>3</sup> )   | are all 232.85      | 238.63      | 248.60      |
| Volume of Water (cm <sup>3</sup> )   | at 318.94           | 258.38      | 285.75      |
| Void Ratio, e                        | shear 0.666         | 0.627       | 0.670       |

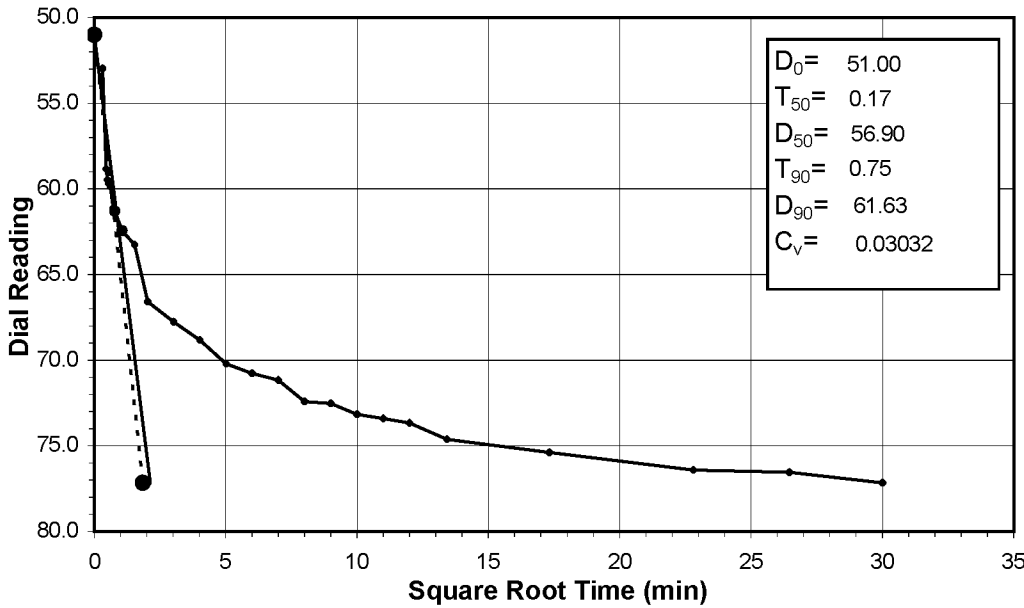
## ONE DIMENSIONAL CONSOLIDATION

ASTM D2435 / D2435M-11

Client Paul C. Rizzo & Associates  
 Client Project Turkey Point Units 6 & 7 Site  
 Project No. 2013-465-001  
 Lab ID 2013-465-001-022

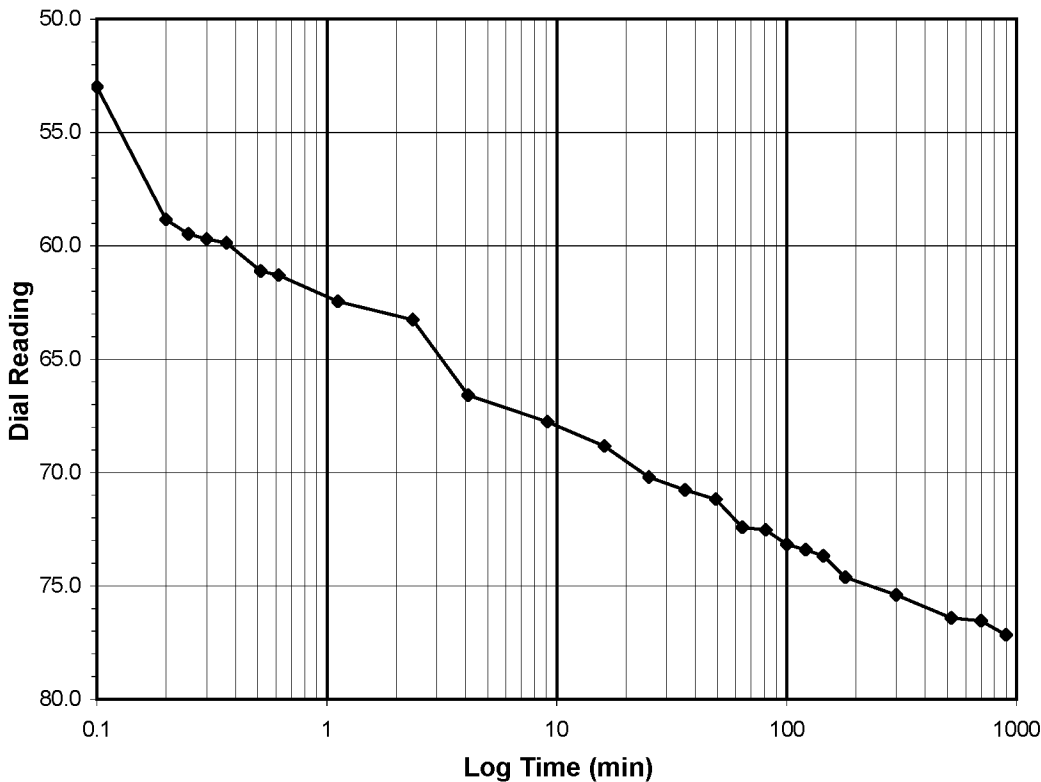
Boring No. R-6-1b  
 Depth (ft) 163.4-163.6  
 Sample No. ST-5  
 Visual Description Gray Silty Sand

**Sample Conditions:** Undisturbed, Inundated And Double Drained



|                     |          |
|---------------------|----------|
| Test Load (tsf)     | 0.0-0.25 |
| Final Reading (div) | 77.2     |
| Consolidometer No.  | G1427    |
| 1 Division (in)     | 0.0001   |
| <hr/>               |          |
| Start Date          | 12/2/13  |
| Start Time          | 11:12:58 |

| Elapsed Time (min) | Dial Reading (div) |
|--------------------|--------------------|
| <hr/>              |                    |
| <b>Initial</b>     | <b>0.0</b>         |
| 0.10               | 53.0               |
| 0.20               | 58.8               |
| 0.25               | 59.5               |
| 0.30               | 59.7               |
| 0.37               | 59.9               |
| 0.52               | 61.1               |
| 0.62               | 61.3               |
| 1.12               | 62.4               |
| 2.37               | 63.3               |
| 4.12               | 66.6               |
| 9.12               | 67.8               |
| 16.12              | 68.8               |
| 25.13              | 70.2               |
| 36.13              | 70.8               |
| 49.13              | 71.2               |
| 64.13              | 72.4               |
| 81.13              | 72.5               |
| 100.13             | 73.2               |
| 121.13             | 73.4               |
| 144.13             | 73.7               |
| 180.13             | 74.6               |
| 300.13             | 75.4               |
| 520.13             | 76.4               |
| 700.13             | 76.5               |
| 900.15             | 77.2               |



Tested By DB Date 12/2/13 Checked By NM Date 12/16/13