

Calculated Data for expl\_2.db

| Line Label | Pipe Dia inches | Pipe Length | Flow   |        |        | Head Loss |        | Pressure Drop<br>psig | Velocity |      |
|------------|-----------------|-------------|--------|--------|--------|-----------|--------|-----------------------|----------|------|
|            |                 |             | ft^3/s | USGPM  | m^3/s  | feet      | meters |                       | ft/s     | m/s  |
| A          | 6.0             | 1000.0      | 1.114  | 499.83 | 0.032  | 27.311    | 8.324  | 11.8                  | 5.66     | 1.73 |
| B          | 6.0             | 1000.0      | 1.075  | 482.44 | 0.03   | 25.459    | 7.76   | 11.0                  | 5.47     | 1.67 |
| C          | 6.0             | 800.0       | -0.075 | -33.61 | -0.002 | 0.117     | 0.036  | 0.05                  | 0.38     | 0.12 |
| D          | 6.0             | 200.0       | 0.886  | 397.83 | 0.025  | 3.476     | 1.059  | 1.5                   | 4.51     | 1.37 |
| E          | 6.0             | 2000.0      | 0.968  | 434.68 | 0.027  | 41.418    | 12.624 | 17.89                 | 4.93     | 1.5  |
| F          | 6.0             | 1000.0      | 0.032  | 14.15  | 0.001  | 0.03      | 0.009  | 0.01                  | 0.16     | 0.05 |
| G          | 1.0             | 1500.0      | 0.007  | 3.25   | 0.0    | 25.575    | 7.795  | 11.05                 | 1.33     | 0.4  |

| Node Label | Elevation |        | Head    |        | Pressure |      |
|------------|-----------|--------|---------|--------|----------|------|
|            | feet      | meters | feet    | meters | psig     | kPa  |
| origin     | 0.0       | 0.0    | 149.039 | 45.43  | 64.4     | 9.34 |
| a          | 50.0      | 15.15  | 121.728 | 37.1   | 52.6     | 7.63 |
| d          | 0.0       | 0.0    | 100.0   | 30.48  | 43.21    | 6.27 |
| c          | 50.0      | 15.15  | 96.153  | 29.31  | 41.55    | 6.03 |
| e          | 20.0      | 6.06   | 54.735  | 16.68  | 23.65    | 3.43 |
| b          | 50.0      | 15.15  | 96.27   | 29.34  | 41.6     | 6.03 |

| Pump Node | Head   |        | Flow    |         |
|-----------|--------|--------|---------|---------|
|           | feet   | meters | USGPM   | m^3/hr  |
| origin    | 59.039 | 17.995 | 499.798 | 113.524 |

| Line Label | Valve Type | Set Pressure |       |        | Upstream Pressure |       |        | Downstream Pressure |       |        |
|------------|------------|--------------|-------|--------|-------------------|-------|--------|---------------------|-------|--------|
|            |            | feet         | psig  | kPa    | feet              | psig  | kPa    | feet                | psig  | kPa    |
| F          | PRV        | 55           | 23.76 | 163.85 | 121.73            | 52.53 | 362.18 | 54.73               | 23.62 | 162.85 |