

## Stormwater Pond Stage/Area/Storage Relationships

**Project** : Cadillac Lake  
                   Wichita, KS  
**P.N.** : 6208  
**By** : PEC  
**Date** : 12/18/07

| existing Conditions                         |   | <b><i>New Market V Property</i></b>                       |   |   |   |   |
|---|---|---|---|---|---|---|
| <b><i>Stage</i></b><br><b><i>(feet)</i></b> | <b><i>Depth</i></b><br><b><i>(feet)</i></b> | <b><i>Surface Area</i></b><br><b><i>(square feet)</i></b> | <b><i>Surface Area</i></b><br><b><i>(acres)</i></b> | <b><i>Average Area</i></b><br><b><i>(acres)</i></b> | <b><i>Incremental Volume</i></b><br><b><i>(ac-Ft)</i></b> | <b><i>Total Volume</i></b><br><b><i>(ac-Ft)</i></b> |
| 1342.00                                     | 0.00  | 0   | 0.00  | 0.00  | 0.00  | 0.00  |
| 1343.00                                     | 1.00  | 0   | 0.00  | 0.00  | 0.00  | 0.00  |
| 1344.00                                     | 2.00  | 0   | 0.00  | 0.00  | 0.00  | 0.00  |
| 1345.00                                     | 3.00  | 0   | 0.00  | 0.00  | 0.00  | 0.00  |
| 1346.00                                     | 4.00  | 108,727   | 2.50  | 1.25  | 1.25  | 1.25  |
| 1347.50                                     | 5.50  | 333,158   | 7.65  | 5.07  | 7.61  | 8.86  |
| 1348.00                                     | 6.00  | 389,273   | 8.94  | 8.29  | 4.15  | 13.00   |
| 1349.00                                     | 7.00  | 753,780   | 17.30   | 13.12   | 13.12   | 26.12   |
| 1350.00                                     | 8.00  | 1,117,852   | 25.66   | 21.48   | 21.48   | 47.61   |
| 1351.00                                     | 9.00  | 1,117,852   | 25.66   | 25.66   | 25.66   | 73.27   |
| 1351.98                                     | 9.98  | 1,117,852   | 25.66   | 25.66   | 25.15   | 98.42   |

| Future Conditions       |                         | <b>New Market V Property</b>              |                                     |                                     |   |                                     |
|-------------------------|-------------------------|---|-------------------------------------|-------------------------------------|---|-------------------------------------|
| <b>Stage<br/>(feet)</b> | <b>Depth<br/>(feet)</b> | <b>Surface<br/>Area<br/>(square feet)</b> | <b>Surface<br/>Area<br/>(acres)</b> | <b>Average<br/>Area<br/>(acres)</b> | <b>Incremental<br/>Volume<br/>(ac-Ft)</b> | <b>Total<br/>Volume<br/>(ac-Ft)</b> |
| 1341.00                 | 0.00                    | 307,098                                   | 7.05                                | 0.00                                | 0.00                                      | 0.00                                |
| 1342.00                 | 1.00                    | 316,246                                   | 7.26                                | 7.16                                | 7.16                                      | 7.16                                |
| 1343.00                 | 2.00                    | 325,829                                   | 7.48                                | 7.37                                | 7.37                                      | 14.53                               |
| 1344.00                 | 3.00                    | 350,222                                   | 8.04                                | 7.76                                | 7.76                                      | 22.29                               |
| 1345.00                 | 4.00                    | 374,616                                   | 8.60                                | 8.32                                | 8.32                                      | 30.61                               |
| 1346.00                 | 5.00                    | 399,010                                   | 9.16                                | 8.88                                | 8.88                                      | 39.49                               |
| 1347.00                 | 6.00                    | 458,724                                   | 10.53                               | 9.85                                | 9.85                                      | 49.33                               |
| 1348.00                 | 7.00                    | 581,138                                   | 13.34                               | 11.94                               | 11.94                                     | 61.27                               |
| 1349.00                 | 8.00                    | 581,138                                   | 13.34                               | 13.34                               | 13.34                                     | 74.61                               |
| 1350.00                 | 9.00                    | 581,138                                   | 13.34                               | 13.34                               | 13.34                                     | 87.95                               |
| 1351.00                 | 10.00                   | 581,138                                   | 13.34                               | 13.34                               | 13.34                                     | 101.29                              |
| 1352.00                 | 11.00                   | 581,138                                   | 13.34                               | 13.34                               | 13.34                                     | 114.63                              |
| 1352.60                 | 11.60                   | 581,138                                   | 13.34                               | 13.34                               | 8.00                                      | 122.64                              |

Difference = 24.22 or 24.607107 %