

**190-216 Arkell Road**  
**SITE WATER BUDGET (INFILTRATION) ANALYSIS**  
 Guelph, Ontario



Project Number: 42063-104  
 Date: March 26, 2020  
 Design By: XSP  
 File: Q:\42063\104\Water Balance\March 2020\42063-104 Water Balance (Thornthwaite-Mather) Mar26 2020.xlsx

**PRE-DEVELOPMENT CONDITION**

|                          |                  |                                   |               |                       |      |
|--------------------------|------------------|-----------------------------------|---------------|-----------------------|------|
| Contributing Catchments: | 101,102          | Soil Type:                        | Silt,Sand     | Runoff Factor:        | 0.45 |
| Contributing Areas:      | 1.83 ha          | Vegetation:                       | Majorly Grass | Evapotranspiration    |      |
| Percent Impervious:      | 15.5 %           | Topography:                       | Flat Land     | Factor for Impervious |      |
| Weather Station:         | Guelph Arboretum | Soil Moisture Retention Capacity: | 75 mm         | Surfaces:             | 0.33 |

| Month        | Daily Average Temperature (C°) | Monthly Heat Index | Unadjusted Daily PE (mm) | Correction Factor | Adjusted PE (mm) | Average Precipitation (mm) | P-PE (mm)    | Accum. Pot. Water Loss (mm) | Storage (mm) | ΔS (mm) | Pervious ET (mm) | Actual ET (mm) | Moisture Surplus (mm) | Water Runoff (mm) | Snow Melt Runoff (mm) | Total Recharge & Runoff (mm) | Total Recharge & Runoff (m <sup>3</sup> ) | Total Infiltration Depth (mm) | Total Infiltration Volume (m <sup>3</sup> ) | Actual Runoff (mm) | Runoff Volume (m <sup>3</sup> ) |
|--------------|--------------------------------|--------------------|--------------------------|-------------------|------------------|----------------------------|--------------|-----------------------------|--------------|---------|------------------|----------------|-----------------------|-------------------|-----------------------|------------------------------|---|-------------------------------|---|--------------------|---------------------------------|
| Jan          | -7.6                           | 0.00               | 0.0                      | 24.3              | 0.0              | 56.4                       | 56.4         | 0.0                         | 209.1        | 0.0     | 0.0              | 0.0            | 0.0                   | 10.5              | 0.0                   | 10.5                         | 192                                       | 5.7                           | 105   | 4.7                | 86                              |
| Feb          | -6.9                           | 0.00               | 0.0                      | 24.5              | 0.0              | 50.8                       | 50.8         | 0.0                         | 259.9        | 0.0     | 0.0              | 0.0            | 0.0                   | 5.2               | 0.0                   | 5.2                          | 96  | 2.9                           | 53  | 2.4                | 43                              |
| Mar          | -1.3                           | 0.00               | 0.0                      | 30.6              | 0.0              | 72.1                       | 72.1         | 0.0                         | 332.0        | 0.0     | 0.0              | 0.0            | 0.0                   | 2.6               | 0.0                   | 2.6                          | 48  | 1.4                           | 26  | 1.2                | 22                              |
| Apr          | 5.9                            | 1.28               | 0.9                      | 33.6              | 31.8             | 78.3                       | 46.5         | 0.0                         | 75.0         | 0.0     | 31.8             | 28.5           | 49.8                  | 26.2              | 25.7                  | 51.9                         | 951                                       | 28.5                          | 523   | 23.4               | 428                             |
| May          | 12.3                           | 3.91               | 2.0                      | 38.0              | 77.2             | 79.9                       | 2.7          | 0.0                         | 75.0         | 0.0     | 77.2             | 69.2           | 10.7                  | 18.5              | 115.7                 | 134.1                        | 2,458                                     | 73.7                          | 1,351                                       | 60.4               | 1,107                           |
| Jun          | 16.9                           | 6.32               | 2.8                      | 38.6              | 109.0            | 76                         | -33.0        | -33.0                       | 47.0         | -28.0   | 104.0            | 93.2           | 10.8                  | 14.6              | 57.8                  | 72.4                         | 1,328                                     | 39.8                          | 730   | 32.6               | 598                             |
| Jul          | 19.7                           | 7.97               | 3.3                      | 38.9              | 128.8            | 88.5                       | -40.3        | -73.3                       | 27.0         | -20.0   | 108.5            | 97.3           | 11.2                  | 12.9              | 28.9                  | 41.8                         | 767                                       | 23.0                          | 421   | 18.8               | 345                             |
| Aug          | 18.6                           | 7.31               | 3.1                      | 36.0              | 112.3            | 95.9                       | -16.4        | -89.7                       | 22.0         | -5.0    | 100.9            | 90.4           | 10.5                  | 11.7              | 14.5                  | 26.1                         | 479                                       | 14.4                          | 263   | 11.8               | 216                             |
| Sep          | 14.1                           | 4.80               | 2.3                      | 31.2              | 73.0             | 92.1                       | 19.1         | 0.0                         | 41.1         | 19.1    | 73.0             | 65.4           | 7.6                   | 9.6               | 7.2                   | 16.9                         | 309                                       | 9.3                           | 170   | 7.6                | 139                             |
| Oct          | 7.9                            | 2.00               | 1.3                      | 28.5              | 36.5             | 69.2                       | 32.7         | 0.0                         | 73.8         | 32.7    | 36.5             | 32.8           | 3.8                   | 6.7               | 3.6                   | 10.3                         | 189                                       | 5.7                           | 104   | 4.6                | 85                              |
| Nov          | 2.4                            | 0.33               | 0.4                      | 24.2              | 9.0              | 86.3                       | 77.3         | 0.0                         | 75.0         | 1.2     | 9.0              | 8.1            | 77.0                  | 41.8              | 1.8                   | 43.6                         | 800                                       | 24.0                          | 440   | 19.7               | 360                             |
| Dec          | -4                             | 0.00               | 0.0                      | 23.0              | 0.0              | 77.7                       | 77.7         | 0.0                         | 152.7        | 0.0     | 0.0              | 0.0            | 0.0                   | 20.9              | 1.8                   | 22.7                         | 417                                       | 12.5                          | 229   | 10.2               | 188                             |
| <b>Total</b> |                                | <b>33.9</b>        | <b>16.2</b>              |                   | <b>577.6</b>     | <b>923.2</b>               | <b>345.6</b> |                             |              |         | <b>484.9</b>     |                | <b>181.3</b>          | <b>181.3</b>      | <b>257.0</b>          | <b>438.3</b>                 | <b>8,034</b>                              | <b>240.8</b>                  | <b>4,415</b>                                | <b>197.4</b>       | <b>3,619</b>                    |

Note: P - Precipitation, PE - Potential Evapotranspiration, ΔS- Change in Soil Moisture Storage, ET - Evapotranspiration

**190-216 Arkell Road**  
**SITE WATER BUDGET ANALYSIS**  
 Guelph, Ontario



Project Number: 42063-104  
 Date: March 26, 2020  
 Design By: XSP  
 File: Q:\42063\104\Water Balance\March 2020\42063-104 Water Balance (Thornthwaite-Mather) Mar26 2020.xlsx

**POST-DEVELOPMENT CONDITION**

|   |   |                                      |
|---|---|--------------------------------------|
| Contributing Catchments: 201,202,203,204,205-1, 205-2,206,207 | Soil Type: Silt,Sand                    | Runoff Factor: 0.72                  |
| Contributing Areas: 1.83 ha                                   | Vegetation: Urban Lawn                  | Evapotranspiration                   |
| Percent Impervious: 56.3 %                                    | Topography: Flat Land                   | Factor for Impervious Surfaces: 0.33 |
| Weather Station: Guelph Arboretum                             | Soil Moisture Retention Capacity: 75 mm |                                      |

| Month        | Daily Average Temperature (C°) | Monthly Heat Index | Unadjusted Daily PE (mm) | Correction Factor | Adjusted PE (mm) | Average Precipitation (mm) | P-PE (mm)    | Pot. Water Loss (mm) | Storage (mm) | ΔS (mm) | Pervious ET (mm) | Actual ET (mm) | Moisture Surplus (mm) | Water Runoff (mm) | Snow Melt Runoff (mm) | Total Recharge & Runoff (mm) | Total Recharge & Runoff (m³) | Runoff before Enhanced Infiltration (mm) | Runoff before Enhanced Infiltration (m³) | Total Enhanced Recharge* (m³) | Total Enhanced Recharge (mm) | Recharge Pervious (m³) | Recharge Pervious (mm) | Total Recharge (m³) | Total Recharge (mm) | Acutal Runoff Volume (m³) | Acutal Runoff (mm) |
|--------------|--------------------------------|--------------------|--------------------------|-------------------|------------------|----------------------------|--------------|----------------------|--------------|---------|------------------|----------------|-----------------------|-------------------|-----------------------|------------------------------|------------------------------|--|--|-------------------------------|------------------------------|------------------------|------------------------|---------------------|---------------------|---------------------------|--------------------|
| Jan          | -7.6                           | 0.00               | 0.0                      | 24.3              | 0.0              | 56.4                       | 56.4         | 0.0                  | 209.1        | 0.0     | 0.0              | 0.0            | 0.0                   | 12.8              | 0.0                   | 12.8                         | 235                          | 9.2                                      | 168                                      | 0                             | 0                            | 67                     | 3.7                    | 67                  | 3.7                 | 168                       | 9.2                |
| Feb          | -6.9                           | 0.00               | 0.0                      | 24.5              | 0.0              | 50.8                       | 50.8         | 0.0                  | 259.9        | 0.0     | 0.0              | 0.0            | 0.0                   | 6.4               | 0.0                   | 6.4                          | 117                          | 4.6                                      | 84                                       | 0                             | 0                            | 33                     | 1.8                    | 33                  | 1.8                 | 84                        | 4.6                |
| Mar          | -1.3                           | 0.00               | 0.0                      | 30.6              | 0.0              | 72.1                       | 72.1         | 0.0                  | 332.0        | 0.0     | 0.0              | 0.0            | 0.0                   | 3.2               | 0.0                   | 3.2                          | 59                           | 2.3                                      | 42                                       | 0                             | 0                            | 17                     | 0.9                    | 17                  | 0.9                 | 42                        | 2.3                |
| Apr          | 5.9                            | 1.28               | 0.9                      | 33.6              | 31.8             | 78.3                       | 46.5         | 0.0                  | 75.0         | 0.0     | 31.8             | 19.8           | 58.5                  | 30.8              | 25.7                  | 56.5                         | 1,035                        | 40.5                                     | 741                                      | 0                             | 0                            | 294                    | 16.1                   | 294                 | 16.1                | 741                       | 40.5               |
| May          | 12.3                           | 3.91               | 2.0                      | 38.0              | 77.2             | 79.9                       | 2.7          | 0.0                  | 75.0         | 0.0     | 77.2             | 48.1           | 31.8                  | 31.3              | 115.6                 | 147.0                        | 2,690                        | 105.2                                    | 1,925                                    | 0                             | 0                            | 765                    | 41.8                   | 765                 | 41.8                | 1,925                     | 105.2              |
| Jun          | 16.9                           | 6.32               | 2.8                      | 38.6              | 109.0            | 76                         | -33.0        | -33.0                | 47.0         | -28.0   | 104.0            | 64.8           | 39.2                  | 35.3              | 57.8                  | 93.1                         | 1,704                        | 66.6                                     | 1,219                                    | 0                             | 0                            | 484                    | 26.5                   | 484                 | 26.5                | 1,219                     | 66.6               |
| Jul          | 19.7                           | 7.97               | 3.3                      | 38.9              | 128.8            | 88.5                       | -40.3        | -73.3                | 27.0         | -20.0   | 108.5            | 67.6           | 40.9                  | 38.1              | 28.9                  | 67.0                         | 1,226                        | 48.0                                     | 878                                      | 0                             | 0                            | 349                    | 19.0                   | 349                 | 19.0                | 878                       | 48.0               |
| Aug          | 18.6                           | 7.31               | 3.1                      | 36.0              | 112.3            | 95.9                       | -16.4        | -89.7                | 22.0         | -5.0    | 100.9            | 62.9           | 38.0                  | 38.1              | 14.5                  | 52.5                         | 961                          | 37.6                                     | 688                                      | 0                             | 0                            | 273                    | 14.9                   | 273                 | 14.9                | 688                       | 37.6               |
| Sep          | 14.1                           | 4.80               | 2.3                      | 31.2              | 73.0             | 92.1                       | 19.1         | 0.0                  | 41.1         | 19.1    | 73.0             | 45.5           | 27.5                  | 32.8              | 7.2                   | 40.0                         | 732                          | 28.6                                     | 524                                      | 0                             | 0                            | 208                    | 11.4                   | 208                 | 11.4                | 524                       | 28.6               |
| Oct          | 7.9                            | 2.00               | 1.3                      | 28.5              | 36.5             | 69.2                       | 32.7         | 0.0                  | 73.8         | 32.7    | 36.5             | 22.8           | 13.8                  | 23.3              | 3.6                   | 26.9                         | 492                          | 19.3                                     | 352                                      | 0                             | 0                            | 140                    | 7.6                    | 140                 | 7.6                 | 352                       | 19.3               |
| Nov          | 2.4                            | 0.33               | 0.4                      | 24.2              | 9.0              | 86.3                       | 77.3         | 0.0                  | 75.0         | 1.2     | 9.0              | 5.6            | 79.4                  | 51.4              | 1.8                   | 53.2                         | 973                          | 38.1                                     | 696                                      | 0                             | 0                            | 277                    | 15.1                   | 277                 | 15.1                | 696                       | 38.1               |
| Dec          | -4                             | 0.00               | 0.0                      | 23.0              | 0.0              | 77.7                       | 77.7         | 0.0                  | 152.7        | 0.0     | 0.0              | 0.0            | 0.0                   | 25.7              | 1.8                   | 27.5                         | 503                          | 19.7                                     | 360                                      | 0                             | 0                            | 143                    | 7.8                    | 143                 | 7.8                 | 360                       | 19.7               |
| <b>Total</b> |                                | <b>33.9</b>        | <b>16.2</b>              |                   | <b>577.6</b>     | <b>923.2</b>               | <b>345.6</b> |                      |              |         |                  | <b>337.0</b>   | <b>329.2</b>          | <b>329.2</b>      | <b>257.0</b>          | <b>586.2</b>                 | <b>10,727</b>                | <b>419.5</b>                             | <b>7,678</b>                             | <b>0</b>                      | <b>0</b>                     | <b>3,049</b>           | <b>166.6</b>           | <b>3,049</b>        | <b>166.6</b>        | <b>7,678</b>              | <b>419.5</b>       |

Note: P - Precipitation, PE - Potential Evapotranspiration, ΔS- Change in Soil Moisture Storage, ET - Evapotranspiration  
 \* Enhanced recharge volume was estimated by a continuous hydrologic model, based on the design of infiltration facility and condition of its contributing area:

**190-216 Arkell Road**  
**SITE WATER BUDGET ANALYSIS**  
 Guelph, Ontario



Project Number: 42063-104  
 Date: March 26, 2020  
 Design By: XSP  
 File: Q:\42063\104\Water Balance\March 2020\42063-104 Water Balance (Thornthwaite-Mather) Mar26 2020.xlsx

**POST-DEVELOPMENT CONDITION (Area Draining to Wetland)**

|                          |                               |                                  |            |                       |      |
|--------------------------|-------------------------------|----------------------------------|------------|-----------------------|------|
| Contributing Catchments: | 201,202,203,204,205-2,206,207 | Soil Type:                       | Silt,Sand  | Runoff Factor         | 0.73 |
| Contributing Areas:      | 1.74 ha                       | Vegetation:                      | Urban Lawn | Evapotranspiration    |      |
| Percent Impervious       | 58.6 %                        | Topography:                      | Flat Land  | Factor for Impervious |      |
| Weather Station:         | Guelph Arboretum              | Soil Moisture Retention Capacity | 75 mm      | Surfaces              | 0.33 |

| Month        | Daily Average Temperature (C°) | Monthly Heat Index | Unadjusted Daily PE (mm) | Correction Factor | Adjusted PE (mm) | Average Precipitation (mm) | P-PE (mm)    | Pot. Water Loss (mm) | Storage (mm) | ΔS (mm) | Pervious ET (mm) | Actual ET (mm) | Moisture Surplus (mm) | Water Runoff (mm) | Snow Melt Runoff (mm) | Total Recharge & Runoff (mm) | Total Recharge & Runoff (m³) | Runoff before Enhanced Infiltration (mm) | Runoff before Enhanced Infiltration (m³) | Total Enhanced Recharge* (m³) | Total Enhanced Recharge (mm) | Recharge Pervious (m³) | Recharge Pervious (mm) | Total Recharge (m³) | Total Recharge (mm) | Acutal Runoff Volume (m³) | Acutal Runoff (mm) |
|--------------|--------------------------------|--------------------|--------------------------|-------------------|------------------|----------------------------|--------------|----------------------|--------------|---------|------------------|----------------|-----------------------|-------------------|-----------------------|------------------------------|------------------------------|--|--|-------------------------------|------------------------------|------------------------|------------------------|---------------------|---------------------|---------------------------|--------------------|
| Jan          | -7.6                           | 0.00               | 0.0                      | 24.3              | 0.0              | 56.4                       | 56.4         | 0.0                  | 209.1        | 0.0     | 0.0              | 0.0            | 0.0                   | 13.0              | 0.0                   | 13.0                         | 226                          | 9.5                                      | 165                                      | 0                             | 0                            | 61                     | 3.5                    | 61                  | 3.5                 | 165                       | 9.5                |
| Feb          | -6.9                           | 0.00               | 0.0                      | 24.5              | 0.0              | 50.8                       | 50.8         | 0.0                  | 259.9        | 0.0     | 0.0              | 0.0            | 0.0                   | 6.5               | 0.0                   | 6.5                          | 113                          | 4.7                                      | 83                                       | 0                             | 0                            | 30                     | 1.7                    | 30                  | 1.7                 | 83                        | 4.7                |
| Mar          | -1.3                           | 0.00               | 0.0                      | 30.6              | 0.0              | 72.1                       | 72.1         | 0.0                  | 332.0        | 0.0     | 0.0              | 0.0            | 0.0                   | 3.2               | 0.0                   | 3.2                          | 56                           | 2.4                                      | 41                                       | 0                             | 0                            | 15                     | 0.9                    | 15                  | 0.9                 | 41                        | 2.4                |
| Apr          | 5.9                            | 1.28               | 0.9                      | 33.6              | 31.8             | 78.3                       | 46.5         | 0.0                  | 75.0         | 0.0     | 31.8             | 19.3           | 59.0                  | 31.1              | 25.7                  | 56.8                         | 988                          | 41.5                                     | 723                                      | 0                             | 0                            | 266                    | 15.3                   | 266                 | 15.3                | 723                       | 41.5               |
| May          | 12.3                           | 3.91               | 2.0                      | 38.0              | 77.2             | 79.9                       | 2.7          | 0.0                  | 75.0         | 0.0     | 77.2             | 46.9           | 33.0                  | 32.1              | 115.6                 | 147.7                        | 2,570                        | 108.0                                    | 1,879                                    | 0                             | 0                            | 692                    | 39.7                   | 692                 | 39.7                | 1,879                     | 108.0              |
| Jun          | 16.9                           | 6.32               | 2.8                      | 38.6              | 109.0            | 76                         | -33.0        | -33.0                | 47.0         | -28.0   | 104.0            | 63.2           | 40.8                  | 36.5              | 57.8                  | 94.3                         | 1,640                        | 68.9                                     | 1,199                                    | 0                             | 0                            | 441                    | 25.4                   | 441                 | 25.4                | 1,199                     | 68.9               |
| Jul          | 19.7                           | 7.97               | 3.3                      | 38.9              | 128.8            | 88.5                       | -40.3        | -73.3                | 27.0         | -20.0   | 108.5            | 65.9           | 42.6                  | 39.5              | 28.9                  | 68.4                         | 1,191                        | 50.0                                     | 870                                      | 0                             | 0                            | 320                    | 18.4                   | 320                 | 18.4                | 870                       | 50.0               |
| Aug          | 18.6                           | 7.31               | 3.1                      | 36.0              | 112.3            | 95.9                       | -16.4        | -89.7                | 22.0         | -5.0    | 100.9            | 61.3           | 39.6                  | 39.6              | 14.5                  | 54.0                         | 940                          | 39.5                                     | 687                                      | 0                             | 0                            | 253                    | 14.5                   | 253                 | 14.5                | 687                       | 39.5               |
| Sep          | 14.1                           | 4.80               | 2.3                      | 31.2              | 73.0             | 92.1                       | 19.1         | 0.0                  | 41.1         | 19.1    | 73.0             | 44.3           | 28.7                  | 34.1              | 7.2                   | 41.3                         | 719                          | 30.2                                     | 526                                      | 0                             | 0                            | 194                    | 11.1                   | 194                 | 11.1                | 526                       | 30.2               |
| Oct          | 7.9                            | 2.00               | 1.3                      | 28.5              | 36.5             | 69.2                       | 32.7         | 0.0                  | 73.8         | 32.7    | 36.5             | 22.2           | 14.4                  | 24.2              | 3.6                   | 27.8                         | 485                          | 20.4                                     | 354                                      | 0                             | 0                            | 130                    | 7.5                    | 130                 | 7.5                 | 354                       | 20.4               |
| Nov          | 2.4                            | 0.33               | 0.4                      | 24.2              | 9.0              | 86.3                       | 77.3         | 0.0                  | 75.0         | 1.2     | 9.0              | 5.5            | 79.6                  | 51.9              | 1.8                   | 53.7                         | 935                          | 39.3                                     | 683                                      | 0                             | 0                            | 251                    | 14.5                   | 251                 | 14.5                | 683                       | 39.3               |
| Dec          | -4                             | 0.00               | 0.0                      | 23.0              | 0.0              | 77.7                       | 77.7         | 0.0                  | 152.7        | 0.0     | 0.0              | 0.0            | 0.0                   | 26.0              | 1.8                   | 27.8                         | 483                          | 20.3                                     | 353                                      | 0                             | 0                            | 130                    | 7.5                    | 130                 | 7.5                 | 353                       | 20.3               |
| <b>Total</b> |                                | <b>33.9</b>        | <b>16.2</b>              |                   | <b>577.6</b>     | <b>923.2</b>               | <b>345.6</b> |                      |              |         |                  | <b>328.5</b>   | <b>337.7</b>          | <b>337.7</b>      | <b>257.0</b>          | <b>594.7</b>                 | <b>10,347</b>                | <b>434.7</b>                             | <b>7,563</b>                             | <b>0</b>                      | <b>0</b>                     | <b>2,784</b>           | <b>160.0</b>           | <b>2,784</b>        | <b>160.0</b>        | <b>7,563</b>              | <b>434.7</b>       |

Note: P - Precipitation, PE - Potential Evapotranspiration, ΔS- Change in Soil Moisture Storage, ET - Evapotranspiration  
 \* Enhanced recharge volume was estimated by a continuous hydrologic model, based on the design of infiltration facility and condition of its contributing area:

**190-216 Arkell Road**  
**SITE WATER BUDGET ANALYSIS**  
 Guelph, Ontario



Project Number: 42063-104  
 Date: March 26, 2020  
 Design By: XSP  
 File: Q:\42063\104\Water Balance\March 2020\42063-104 Water Balance (Thornthwaite-Mather) Mar26 2020.xlsx

| Month        | Total Runoff Volume to Weland (m <sup>3</sup> ) |                  |              |              | Total Infiltration Volume (m <sup>3</sup> ) |                  |               |              |
|--------------|---|------------------|--------------|--------------|---|------------------|---------------|--------------|
|              | Pre-development                                 | Post-development | Difference   | Change %     | Pre-development                             | Post-development | Difference    | Change %     |
| Jan          | 86  | 165              | 79           | 91.1         | 105   | 67               | -39           | -36.6        |
| Feb          | 43  | 83               | 39           | 91.1         | 53  | 33               | -19           | -36.6        |
| Mar          | 22  | 41               | 20           | 91.1         | 26  | 17               | -10           | -36.6        |
| Apr          | 428   | 723              | 294          | 68.6         | 523   | 294              | -229          | -43.7        |
| May          | 1,107   | 1,879            | 771          | 69.7         | 1,351                                       | 765              | -586          | -43.4        |
| Jun          | 598   | 1,199            | 601          | 100.5        | 730   | 484              | -245          | -33.6        |
| Jul          | 345   | 870              | 525          | 152.0        | 421   | 349              | -73           | -17.3        |
| Aug          | 216   | 687              | 471          | 218.3        | 263   | 273              | 10            | 3.7          |
| Sep          | 139   | 526              | 387          | 277.9        | 170   | 208              | 38            | 22.6         |
| Oct          | 85  | 354              | 269          | 315.7        | 104   | 140              | 36            | 34.6         |
| Nov          | 360   | 683              | 323          | 89.6         | 440   | 277              | -163          | -37.1        |
| Dec          | 188   | 353              | 165          | 88.1         | 229   | 143              | -86           | -37.5        |
| <b>Total</b> | <b>3,619</b>                                    | <b>7,563</b>     | <b>3,944</b> | <b>109.0</b> | <b>4,415</b>                                | <b>3,049</b>     | <b>-1,365</b> | <b>-30.9</b> |

Note: Negative sign indicate a decrease under post-development conditions.

