

| Summary Table for Sub-Areas Draining to a Common Point of Interest (POI) ⁽¹⁾ | | | | | | | | | |
|---|----------------------------|------------------------|--|---|--|--|---------------------------|---------------------------|----------------------------|
| Ref. # | Sub-Area ID ⁽²⁾ | POI: | | | 1, 2, 3, 4, & 5 | | | | |
| | | Contributing Area (ac) | RPV Runoff Reduction Shortfall(+) or Credit(-) (cu.ft.) ⁽³⁾ | Adjusted RPV CN after all reductions ⁽⁴⁾ | Cv RCN for H&H Modeling ⁽⁴⁾ | Fv RCN for H&H Modeling ⁽⁴⁾ | TN Pollutant Load (lb/yr) | TP Pollutant Load (lb/yr) | TSS Pollutant Load (lb/yr) |
| 1 | 1 | 1.38 | 372 | 85.35 | 76.86 | 76.86 | N/A | N/A | N/A |
| 2 | 2A | 4.30 | 135 | 82.90 | 76.28 | 76.28 | N/A | N/A | N/A |
| 3 | 2A-BS1 | 2.57 | -2889 | 75.15 | 80.38 | 81.00 | N/A | N/A | N/A |
| 4 | 2B | 0.20 | -483 | 70.67 | 61.00 | 61.00 | N/A | N/A | N/A |
| 5 | 2C | 0.16 | -236 | 70.67 | 61.00 | 61.00 | N/A | N/A | N/A |
| 6 | 2D | 10.76 | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 7 | 2E | 1.84 | 92 | 78.25 | 70.30 | 70.30 | N/A | N/A | N/A |
| 8 | 2F | 13.52 | 1358 | 80.41 | 73.05 | 73.05 | N/A | N/A | N/A |
| 9 | 2G | 11.52 | 694 | 79.39 | 71.74 | 71.74 | N/A | N/A | N/A |
| 10 | 2H | 9.05 | 0 | 79.51 | 71.89 | 71.89 | N/A | N/A | N/A |
| 11 | 2H-FS1 | 3.39 | -1593 | 72.87 | 66.65 | 68.73 | N/A | N/A | N/A |
| 12 | 2I | 22.12 | 17 | 77.38 | 69.21 | 69.21 | N/A | N/A | N/A |
| 13 | 2I-FS2 | 1.82 | -674 | 72.14 | 65.75 | 67.78 | N/A | N/A | N/A |
| 14 | 3 | 1.76 | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| 15 | 4 | 15.71 | 641 | 79.59 | 72.00 | 72.00 | N/A | N/A | N/A |
| 16 | 5 | 1.61 | 244 | 76.93 | 68.65 | 68.65 | N/A | N/A | N/A |
| 17 | | | | | | | | | |
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| 30 | | | | | | | | | |
| Totals to Common POI | | 101.71 ac | -2322 cu.ft. | 69.04 | 62.68 | 62.80 | 0.00 lb/yr | 0.00 lb/yr | 0.00 lb/yr |
| RPV Runoff Reduction Goal Met? | | YES | | | | | | | |
| If Not, Total Offset Volume Required | | N/A | | | | | | | |

Notes:
1. As long as the site lies within the same watershed, all sub-areas within the site can be tallied to reflect global site conditions; or, the summary table can be used to show conditions to a specific POI.
2. Only the most downstream sub-area information should be entered for a series of sub-areas that drain directly into each other, as the upstream areas will already be accounted for in the DURMM computations.
3. A RPV runoff reduction on shortfall should be entered as a positive number, as it is the runoff volume still needed to be reduced. A RPV credit should be entered as a negative number, as it indicates the additional volume that was reduced past the requirement.
4. To portray an accurate total weighted CN value for the RPV, Cv and Fv events, an entry must be made for every defined sub-area. If a sub-area's contributing drainage acreage is entered, but not its corresponding CN value, then the total weighted CN will be calculated based on the entered acreage.

| POA | Conveyance Event (Cv) | | | | Flooding Event (Fv) | | | |
|-----|-----------------------|--------|----------------------|--------|-----------------------|--------|----------------------|--------|
| | Runoff Volume (Ac-ft) | | Peak Discharge (CFS) | | Runoff Volume (Ac-ft) | | Peak Discharge (CFS) | |
| | PRE | POST | PRE | POST | PRE | POST | PRE | POST |
| 1 | 0.283 | 0.283 | 7.41 | 7.41 | 0.607 | 0.607 | 15.27 | 15.27 |
| 2A | 1.506 | 1.456 | 16.91 | 16.33 | 3.153 | 3.086 | 35.25 | 34.57 |
| 2B | 0.05 | 0.021 | 1.23 | 0.39 | 0.1 | 0.057 | 2.35 | 1.12 |
| 2C | 0.031 | 0.017 | 0.65 | 0.34 | 0.067 | 0.046 | 1.39 | 0.97 |
| 2D | 1.834 | 1.834 | 28.69 | 28.69 | 4.209 | 4.209 | 66.14 | 66.14 |
| 2E | 0.29 | 0.29 | 5.85 | 5.85 | 0.685 | 0.685 | 13.74 | 13.74 |
| 2F | 2.394 | 2.394 | 38.13 | 38.13 | 5.419 | 5.419 | 86.16 | 86.16 |
| 2G | 1.888 | 1.963 | 27.90 | 29.11 | 4.396 | 4.507 | 65.84 | 67.44 |
| 2H | 2.039 | 1.88 | 43.86 | 40.37 | 4.747 | 4.509 | 100.74 | 96.15 |
| 2I | 3.769 | 3.618 | 69.36 | 66.40 | 8.906 | 8.678 | 164.13 | 160.14 |
| 2* | 13.799 | 13.471 | 206.33 | 201.57 | 31.683 | 31.196 | 481.27 | 475.32 |
| 3 | 0.174 | 0.174 | 2.89 | 2.89 | 0.489 | 0.489 | 8.73 | 8.73 |
| 4 | 2.677 | 2.677 | 48.17 | 48.17 | 6.146 | 6.146 | 110.24 | 110.24 |
| 5 | 0.264 | 0.243 | 5.00 | 4.59 | 0.614 | 0.584 | 11.59 | 11.13 |


*Represents cumulative total for all POA 2 sub-areas

| Subarea ID | BMP | Contributing Drainage Area Summary | | | | | | | | | | | RCN | Total Contributing Area (Ac.) |
|------------|------|------------------------------------|----------|------------|------------------------------|------------|----------|------------|-------|------------|-------|------|--------|-------------------------------|
| | | LOD Contributing Area (Ac.) | | | OLOD Contributing Area (Ac.) | | | | | | | | | |
| | | Open | Woods | Impervious | HSG B | | | HSG C | | | | | | |
| | | | Cropland | Open Space | Woods | Impervious | Cropland | Open Space | Woods | Impervious | | | | |
| 1 | | 0.06 | 0.00 | 0.13 | 1.16 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 77 | 1.38 | |
| 2A | | 1.12 | 0.00 | 0.05 | 2.33 | 0.38 | 0.00 | 0.01 | 0.00 | 0.00 | 0.41 | 76 | 4.30 | |
| 2A-BS1 | BS-1 | 0.40 | 0.00 | 0.67 | 0.47 | 0.64 | 0.00 | 0.39 | 0.00 | 0.00 | 0.00 | 81 | 2.57 | |
| 2B | | 0.16 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 61 | 0.20 | |
| 2C | | 0.09 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 61 | 0.16 | |
| 2D | | 0.00 | 0.00 | 0.00 | 8.27 | 0.00 | 2.05 | 0.44 | 0.00 | 0.00 | 0.00 | 72 | 10.76 | |
| 2E | | 0.07 | 0.00 | 0.05 | 1.08 | 0.00 | 0.57 | 0.07 | 0.00 | 0.00 | 0.00 | 70 | 1.84 | |
| 2F | | 2.33 | 0.02 | 0.47 | 8.86 | 0.00 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 73 | 13.52 | |
| 2G | | 0.93 | 0.00 | 0.15 | 5.24 | 3.77 | 0.00 | 0.11 | 1.32 | 0.00 | 0.00 | 72 | 11.52 | |
| 2H | | 0.55 | 0.00 | 0.00 | 5.50 | 0.56 | 0.78 | 0.00 | 0.30 | 1.36 | 0.00 | 72 | 9.05 | |
| 2H-FS1 | FS-1 | 1.76 | 0.00 | 0.21 | 0.00 | 1.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 69 | 3.39 | |
| 2I | | 0.38 | 0.01 | 0.00 | 6.63 | 0.38 | 4.67 | 0.00 | 1.76 | 0.00 | 8.29 | 69 | 22.12 | |
| 2I-FS2 | FS-2 | 1.13 | 0.00 | 0.14 | 0.00 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 68 | 1.82 | |
| 3 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 0.21 | 0.00 | 0.00 | 0.00 | 60 | 1.76 | |
| 4 | | 0.60 | 0.00 | 0.13 | 10.33 | 0.65 | 1.73 | 0.00 | 0.41 | 0.00 | 1.86 | 72 | 15.71 | |
| 5 | | 0.17 | 0.06 | 0.04 | 0.75 | 0.25 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 69 | 1.61 | |
| Subtotal | | 9.75 | 0.09 | 2.04 | 50.62 | 8.74 | 13.53 | 1.23 | 3.79 | 1.36 | 10.15 | 0.41 | 101.71 | |
| Total | | 11.88 | | | 89.83 | | | | | | | | 101.71 | |

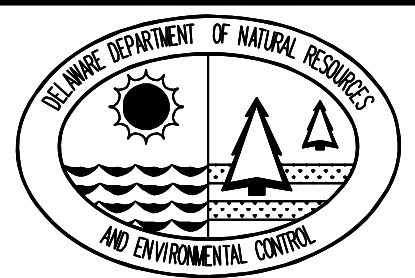
REVISIONS:
DATE: _____
DESCRIPTION: _____
BY: _____

**WCCSP TRI-VALLEY TRAIL
SEDIMENT STORMWATER MANAGEMENT PLANS
BMP CONTRIBUTING DRAINAGE AREA DETAILS AND NOTES**

SEAL:

CIVIL ENGINEER:

CENTURY ENGINEERING
CONSULTING ENGINEERS, SURVEYORS
4134 N. DUPONT HWY.
DOVER, DELAWARE 19901

CEI CONTRACT NO. WCCSP-7A



DESIGNED BY:
ATF

DRAWN BY:
ATF

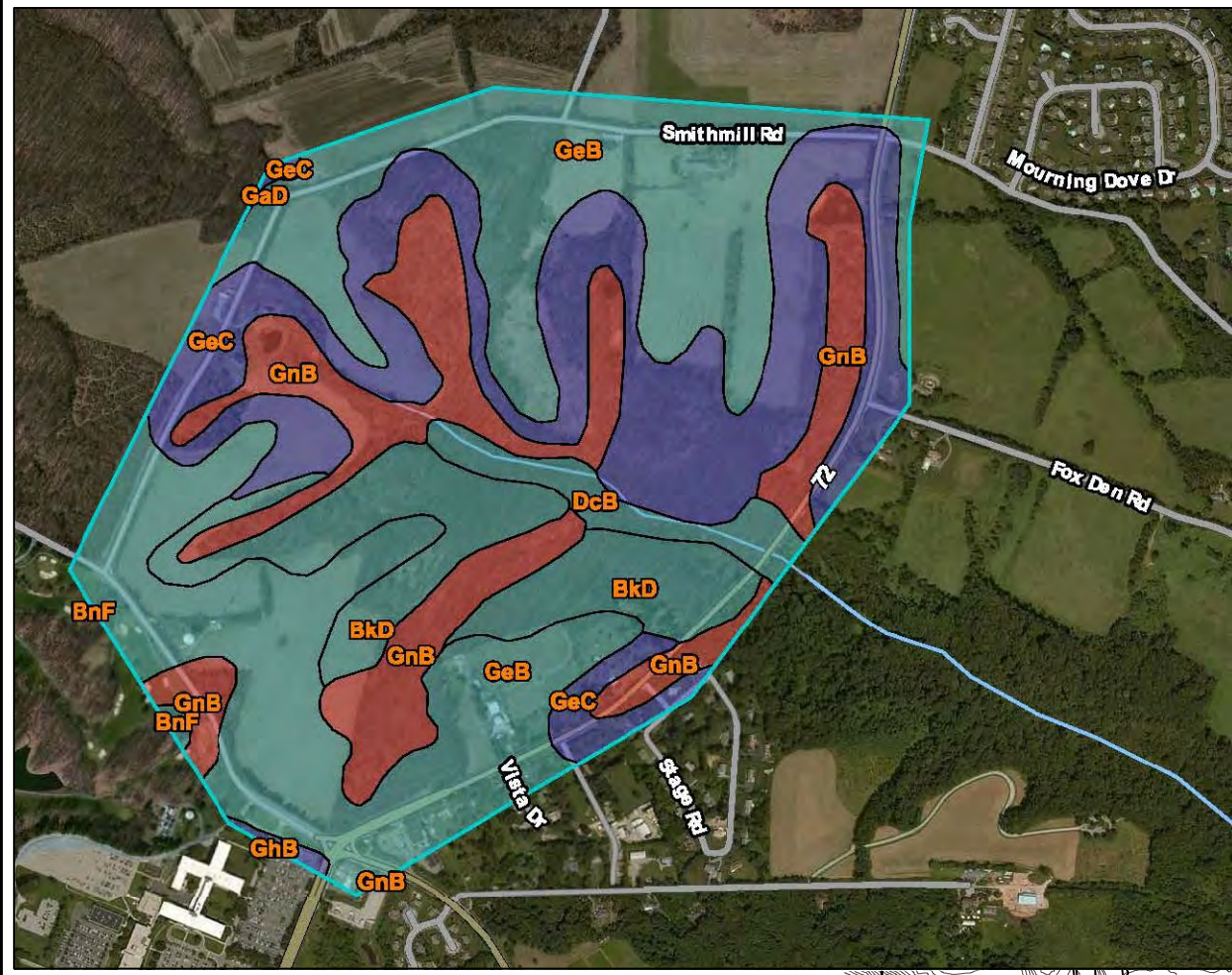
CHECKED BY:
AES

DATE:
NOVEMBER 14, 2016

SCALE:
N.T.S.

SHEET NO.:
SWM1.12

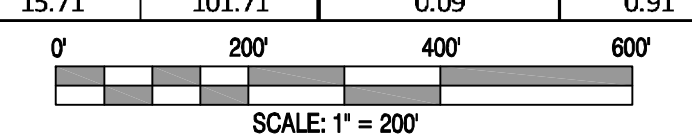
CONTRACT NO.:
2016-WCCSP-100



| Map Unit Symbol | Map Unit Name | HSG | Within LOD |
|-----------------|------------------------------------|-----|------------|
| BkD | Brinkow Channey Loam (3-8% Slopes) | B | NO |
| GeB | Glenelg Loam (3-8% Slopes) | B | YES |
| GeC | Glenelg Loam (8-15% Slopes) | B | YES |
| GnB | Glenville Silt Loam (8-15% Slopes) | C | NO |



| Subarea ID | Contributing Area (Ac.) | | Pre-Development Area Within LOD (Ac.) | | | Contributing Area RCN | |
|------------|-------------------------|------------|---------------------------------------|------------|-----------|-----------------------|----|
| | HSG | Total Area | Woods/Meadow | Impervious | Total LOD | | |
| 1 | 1.38 | 0.00 | 1.38 | 0.11 | 0.19 | 77 | |
| 2A | 3.89 | 0.41 | 4.30 | 0.00 | 0.03 | 1.17 | 79 |
| 2A-BS1 | 2.57 | 0.00 | 2.57 | 0.00 | 0.21 | 1.07 | 79 |
| 2B | 0.20 | 0.00 | 0.20 | 0.00 | 0.12 | 0.16 | 83 |
| 2C | 0.16 | 0.00 | 0.16 | 0.00 | 0.06 | 0.09 | 75 |
| 2D | 10.76 | 0.00 | 10.76 | 0.00 | 0.00 | 0.00 | 72 |
| 2E | 1.84 | 0.00 | 1.84 | 0.00 | 0.05 | 0.12 | 70 |
| 2F | 13.52 | 0.00 | 13.52 | 0.02 | 0.30 | 2.82 | 73 |
| 2G | 10.20 | 1.32 | 11.52 | 0.00 | 0.01 | 1.08 | 71 |
| 2H | 7.39 | 1.66 | 9.05 | 0.00 | 0.00 | 0.55 | 71 |
| 2H-FS1 | 3.39 | 0.00 | 3.39 | 0.00 | 0.00 | 1.97 | 71 |
| 2I | 12.07 | 10.05 | 22.12 | 0.01 | 0.00 | 0.39 | 70 |
| 2I-FS2 | 1.82 | 0.00 | 1.82 | 0.00 | 0.00 | 1.27 | 70 |
| 3 | 1.76 | 0.00 | 1.76 | 0.00 | 0.00 | 0.00 | 60 |
| 4 | 13.44 | 2.27 | 15.71 | 0.00 | 0.00 | 0.73 | 72 |
| 5 | 1.61 | 0.00 | 1.61 | 0.06 | 0.02 | 0.27 | 71 |
| Total | 86.00 | 15.71 | 101.71 | 0.09 | 0.91 | 11.88 | - |




| REVISIONS: | DATE: | DESCRIPTION: | BY: |
|------------|-------|--------------|-----|
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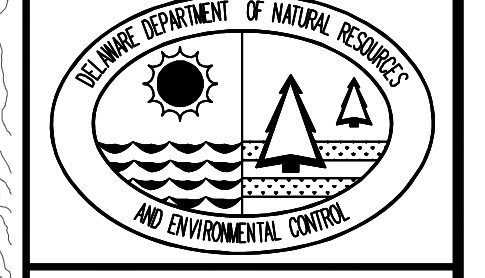
**WCCSP TRI-VALLEY TRAIL
SEDIMENT STORMWATER MANAGEMENT PLANS**

PRE-DEVELOPED SUBAREA LOD PLAN

SEAL:

CIVIL ENGINEER:

CENTURY ENGINEERING
 CONSULTING ENGINEERS, SURVEYORS
 4134 N. DUPONT HWY.
 DOVER, DELAWARE 19901

CEI CONTRACT NO. WCCSP-7A



DESIGNED BY:
ATF

DRAWN BY:
ATF

CHECKED BY:
AES

DATE:
NOVEMBER 14, 2016

SCALE:
1" = 200'

SHEET NO.:
SWM1.13

CONTRACT NO.:
2016-WCCSP-100

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