



**List of Approved Alternative/Innovative Practices (Updated August 2025)**

| Practice Name   | Practice Type                    | Manufacturer                     | BMP Code   | Approval Date |
|---|----------------------------------|----------------------------------|------------|---------------|
| <b>Environmental Site Design (ESD) - Alternative Surfaces<sup>2</sup></b> |                                  |                                  |            |               |
| Aqua Bric/Bio-Pave  | Interlocking Paving System       | Filtrerra Bioretention Systems   | APRP       | 3 /19/2013    |
| AquaLok Panels  | Green Roof/ Rainwater Harvesting | FGP Enterprises, LLC             | AGRE, MRWH | 6 /20/2012    |
| Belgard Permeable Pavers  | Permeable Paver                  | Oldcastle Architectural          | APRP       | 2 /15/2019    |
| Carlisle Traditional Garden Roof System                                   | Green Roof                       | Carlisle Syntec Systems          | AGRE       | 5 /4 /2020    |
| Clay Brick Pavers   | Permeable Pavement               | The Brick Industry               | APRP       | 8 /12/2013    |
| Columbia Green Technologies Green Roof Systems                            | Green Roof System                | Columbia Green Roof Technologies | AGRE       | 9 /2 /2016    |
| COREgravel  | Reinforced Turf                  | Core Systems                     | ARTF       | 3 /12/2013    |
| EcoCline Living Roof System   | Green Roof                       | Furbish Company                  | AGRE, AGRI | 2 /25/2013    |
| Eco-Roof  | Green Roof System                | Eco-Roofs, LLC                   | AGRE       | 4 /18/2014    |
| EZ Roll Grass and Gravel Pavers   | Reinforced Turf                  | NDS, Inc.                        | ARTF       | 3 /12/2013    |

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|--|------------------------|----------------------------|------------|---------------|
| GEOWEB Geocell Modular Porous Paving System    | Reinforced Turf System | Presto Geosystems          | ARTF       | 1 /8 /2025    |
| Grasscrete                                     | Reinforced Turf        | Storm-Services, LLC        | ARTF       | 12/3 /2012    |
| Green Roof Outfitters Modular Roof System      | Modular Green Roof     | Green Roof Outfitters, LLC | AGRE       | 11/20/2014    |
| GreenGrid Modular Vegetative Green Roof System | Green Roof             | Weston Solutions, Inc.     | AGRE       | 1 /8 /2025    |
| GRO 2+1  | Green Roof             | Green Roof Outfitters      | AGRE       | 1 /6 /2021    |
| GRO Classic                                    | Green Roof             | Green Roof Outfitters      | AGRE, AGRI | 1 /6 /2021    |
| GRO FeatherWeight                              | Green Roof             | Green Roof Outfitters      | AGRE       | 1 /6 /2021    |
| GRO Waterhog                                   | Green Roof             | Green Roof Outfitters      | AGRE       | 1 /6 /2021    |
| GRO Waterhog XL                                | Green Roof             | Green Roof Outfitters      | AGRE       | 1 /6 /2021    |
| Henry Green Roof Products                      | Green Roof             | Henry Company              | AGRE       | 2 /5 /2016    |
| Hydropack Green Roof System                    | Green Roof             | Vegetal i.D. Inc.          | AGRE       | 9 /10/2015    |
| Hydrotech Green Roofing System                 | Green Roof             | American Hydrotech, LLC    | AGRE       | 1 /9 /2015    |
| KBI FlexiPave                                  | Permeable Pavement     | K.B. Industries            | APRP       | 5 /17/2017    |
| LiveRoof Hybrid Green Roof System              | Green Roof             | LiveRoof Global, LLC       | AGRE       | 2 /28/2017    |
| MP Eco-Grid                                    | Reinforced Turf System | USA EcoSystems             | ARTF       | 1 /22/2015    |
| Nicolock Pavers                                | Permeable Paver        | Nicolock Paving Stones     | APRP       | 8 /3 /2012    |

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|--|---|---|------------|---------------|
| No Fault/Smarte Surface                              | Permeable Surfaces                          | Human & Rohde                                       | APRP, ARTF | 6 /1 /2007    |
| Omni Ecosystems Comprehensive Green Roof             | Green Roof                                  | Omni Ecosystems                                     | AGRE       | 4 /4 /2018    |
| PaveDrain  | Permeable Pavement                          | Ernest Maier, Inc.                                  | APRP       | 3 /29/2012    |
| PaverGuide   | Base/Storage Reservoir for Permeable Pavers | PaverGuide, Inc.                                    | APRP       | 8 /29/2016    |
| Power Block  | Permeable Paving Block                      | ACF Environmental                                   | APRP       | 4 /4 /2018    |
| StormCap™  | Green Roof                                  | Flex Membrane International /Stormwater Capture Co. | AGRE       | 7 /21/2017    |
| Stormcrete   | Permeable Pavement                          | Porous Technologies, LLC                            | AGRE       | 12/9 /2014    |
| Unilock Permeable Interlocking Concrete Paver (PICP) | Permeable Interlocking Concrete Paver       | Unilock   | APRP       | 7 /14/2020    |
| Unilock Permeable Pavers                             | Permeable Paving Blocks                     | Unilock   | APRP       | 9 /27/2019    |
| Vista 4" Module                                      | Green Roof                                  | Green Roof Outfitters                               | AGRE       | 4 /19/2022    |
| Vista 4" Lite Module                                 | Green Roof                                  | Green Roof Outfitters                               | AGRE       | 4 /19/2022    |
| Vista 6" Module                                      | Green Roof                                  | Green Roof Outfitters                               | AGRE       | 4 /19/2022    |
| Vista 8" Module                                      | Green Roof                                  | Green Roof Outfitters                               | AGRE       | 4 /19/2022    |
| VR Max Vegetated Roof System                         | Green Roof                                  | Tremco Incorporated                                 | AGRE       | 11/4 /2016    |

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| <b>Environmental Site Design (ESD) - Micro-Scale Practices<sup>2</sup></b> |  |  |                  |               |
| AquaLok GLU  | Rainwater Harvesting                                     | FGP Enterprises, LLC                   | MRWH             | 1 /7 /2014    |
| ArborFlow™ Bioretention Treepit System                                     | Bioretention Treepit System                              | GreenBlue Urban                        | MMBR, FBIO       | 12/17/2019    |
| Bio-Pod  | Permeable Pavement/Vault System                          | Rotondo Env. Solutions, LLC, Oldcastle | MMBR, FBIO       | 12/7 /2018    |
| Filterra Plus  | Enhanced Fast Flow (Bioretention) filter                 | Contech Engineered Solutions           | MMBR, FBIO       | 6 /3 /2020    |
| FocalPoint Bioretention Systems  | Bioretention System                                      | ACF-Convergent Alliance                | MMBR, FBIO       | 9 /8 /2016    |
| Modular Wetland System - Linear  | Bioretention/Micro-Bioretention/Submerged Gravel Wetland | Modular Wetland Systems, Inc.          | MMBR, MSWG, FBIO | 9 /8 /2015    |
| Rotondo StormGarden Filter   | Bioretention System                                      | Rotondo Env. Solutions, LLC            | MMBR, FBIO       | 9 /18/2020    |
| Silva Cell Pavement System   | Bioretention/Pavement System                             | DeepRoot Green Infrastructure LLC      | MMBR, FBIO       | 6 /16/2017    |
| StormTreat System  | Submerged Gravel Wetland & Bioretention/Filter           | StormTreat Systems, Inc.               | MSGW, MMBR, FBIO | 5 /15/2017    |
| TerraMod   | Bioretention System                                      | Oldcastle Infrastructure               | MMBR, FBIO       | 8 /19/2025    |

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### Erosion & Sediment Control Practices<sup>3</sup>

|   |   |                        |      |            |
|---|---|------------------------|------|------------|
| FODS                                      | Stabilized Construction Entrance Substitute | FODS, LLC              | ESOT | 9 /26/2023 |
| SiltShield Sediment & Erosion Control BMP | Silt Fence Substitute                       | SiltShield, LLC        | ESSF | 5 /6 /2020 |
| SMARTfence42                              | Silt Fence Substitute                       | Friendly Environmental | ESSS | 10/7 /2019 |

### ESD Components (Water Quality)<sup>4</sup>

|                               |                     |                                 |            |            |
|-------------------------------|---------------------|---------------------------------|------------|------------|
| EcoPure BioFilter             | Bioretention System | Advanced Drainage Systems, Inc. | MMBR, FBIO | 2 /22/2023 |
| Filtterra Bioretention System | Bioretention        | Filtterra Bioretention Systems  | MMBR, FBIO | 2 /22/2013 |

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### Pretreatment Practices<sup>5</sup>

|                          |                         |                                   |           |            |
|--------------------------|-------------------------|-----------------------------------|-----------|------------|
| ACF Trash Guard Plus     | Trash and Debris Screen | ACF Environmental                 | XOTH      | 9 /25/2017 |
| ADS/Hancor WQU           | Hydrodynamic Device     | ADS Hancor                        | XOGS      | 3 /25/2008 |
| Aqua Swirl               | Hydrodynamic Device     | AquaShield, Inc.                  | XOGS      | 5 /5 /2006 |
| Arcadia                  | Hydrodynamic Device     | Advanced Drainage Systems, Inc.   | XOGS      | 8 /19/2025 |
| BaySaver                 | Hydrodynamic Device     | BaySaver, Inc.                    | XOGS      | 6 /11/2002 |
| BaySaver Barracuda       | Hydrodynamic Device     | BaySaver Technologies, Inc.       | XOGS      | 2 /27/2018 |
| BaySeparator             | Hydrodynamic Device     | BaySaver Technologies, Inc.       | XOGS      | 8 /10/2011 |
| Cascade Separator        | Hydrodynamic Device     | Contech Engineered Solutions, LLC | XOGS      | 12/17/2021 |
| CDS Oil / Grit Separator | Hydrodynamic Device     | CDS Technologies, Inc             | XOGS      | 8 /15/2003 |
| Contech Stormceptor      | Hydrodynamic Device     | Contech Engineered Solutions, LLC | XOGS      | 9 /13/2021 |
| CrystalClean Separator   | Hydrodynamic Device     | CrystalStream Technologies        | XOGS      | 5 /30/2013 |
| Downstream Defender      | Hydrodynamic Device     | Hydro International               | XOGS      | 5 /4 /2004 |
| FirstDefense             | Hydrodynamic Device     | Hydro International               | XOGS      | 11/30/2004 |
| FlexStorm                | Catch Basin Insert      | Nyloplast                         | XOGS, CBC | 5 /17/2011 |
| Flo-Gard                 | Inlet Filter            | Oldcastle Precast                 | XOTH      | 8 /19/2010 |

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|--|---------------------|-------------------------------|-----------|---------------|
| FloGard Dual Vortex Separator (DVS)    | Hydrodynamic Device | Oldcastle Precast             | XOGS      | 3 /25/2008    |
| Flo-Guard Plus                         | Catch Basin Insert  | Oldcastle                     | XOGS, CBC | 3 /27/2007    |
| PRETX Pretreatment Inlets              | Hydrodynamic Device | Convergent Water Technologies | XOGS      | 2 /2 /2022    |
| SAFL Baffle                            | OGS/Filter System   | Upstream Technologies         | XOGS      | 3 /12/2013    |
| StormBasin                             | OGS/Filter          | Fabco Industries, Inc.        | XOGS      | 2 /13/2012    |
| Stormceptor                            | Hydrodynamic Device | Imbrium Systems Corporation   | XOGS      | 4 /16/2001    |
| StormPro                               | Hydrodynamic Device | Environment 21, LLC           | XOGS      | 2 /7 /2017    |
| Storm-Pure                             | Catch Basin Insert  | Nyloplast                     | XOGS, CBC | 11/20/2006    |
| StormSack                              | Catch Basin Insert  | Fabco Industries, Inc.        | XOGS, CBC | 2 /13/2012    |
| StormSafe                              | Vault/Filter System | Fabco Industries, Inc.        | XOGS      | 2 /13/2012    |
| StormSettler Pre-Treatment Chamber     | Hydrodynamic Device | StormTrap, LLC.               | XOGS      | 5 /9 /2025    |
| StormTank StormShield                  | Vault/Filter System | Brentwood Industries, Inc.    | XOGS      | 3 /5 /2014    |
| Suntree Nutrient Separating Baffle Box | Hydrodynamic Device | Suntree Technologies          | XOGS      | 9 /8 /2016    |
| Terre Kleen                            | Hydrodynamic Device | Terre Hill Concrete Products  | XOGS      | 3 /28/2005    |
| Ultra-Urban Filter                     | Catch Basin Insert  | Abtech Industries             | XOGS, CBC | 2 /15/2005    |
| Up-Flo Filter                          | Catch Basin Insert  | Hydro International           | XOGS, CBC | 2 /6 /2007    |

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|-----------------------------|---------------------|-------------------|----------|---------------|
| V2B1 Hydrodynamic Separator | Hydrodynamic Device | Environment 21    | XOGS     | 10/6 /2010    |
| Vortechs & Vort Sentry      | Hydrodynamic Device | Vortechnics, Inc. | XOGS     | 6 /1 /2004    |
| Vortfilter                  | Cartridge Filter    | Vortechnics, Inc. | XOGS     | 1 /6 /2005    |

#### Redevelopment & MS4 Retrofit Practices<sup>6</sup>

|   |  |                                  |                  |            |
|---|--|----------------------------------|------------------|------------|
| Aqua-Ponic Stormwater Biofiltration System        | Fast Flow Filter/Hydroponic Biofilter  | AquaShield, Inc.                 | FBIO, XOTH       | 7 /11/2022 |
| BeeMats Floating Treatment Wetlands               | Floating Treatment Wetland             | Steve Beeman                     | XFTW             | 11/15/2019 |
| Floating Treatment Wetlands                       | Modular Wetland                        | BlueWing Env. Solutions          | XFTW             | 3 /8 /2012 |
| Kraken Membrane Filtration System (Kraken Filter) | Membrane (Structural) Filter           | Bio Clean Environmental Services | FSND             | 4 /11/2018 |
| Wetland Mod                                       | Multi-Cell OGS/Bioretenion Alternative | Contech Engineered Solutions     | FBIO, XOGS, XOTH | 2 /6 /2024 |



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|---------------|---------------|--------------|----------|---------------|

### Structural Practices<sup>7</sup>

|  |                                |                                     |                  |            |
|--|--------------------------------|-------------------------------------|------------------|------------|
| Aqua Filter                                  | Cartridge Filter               | AquaShield, Inc.                    | FUND             | 6 /23/2003 |
| BayFilter                                    | Cartridge Filter               | BaySaver Technologies, Inc.         | FUND             | 10/12/2006 |
| CDS Media Filtration System                  | Cartridge Filter               | CDS Technologies, Inc               | FUND             | 12/30/2004 |
| Jellyfish Filter                             | Cartridge Filter               | Imbrium Systems Corporation         | FUND             | 3 /12/2012 |
| MagnaPod Sand Filter System (w/infiltration) | Underground Sand Filter System | Rotondo Environmental Solutions     | FSND, FUND       | 12/22/2020 |
| PerkFilter                                   | Cartridge Filter               | Oldcastle Precast                   | FUND             | 9 /16/2015 |
| Sorbitive Filter                             | Filter                         | Imbrium Systems Corporation         | FSND, FUND, FPER | 9 /11/2009 |
| Stormfilter                                  | Cartridge Filter               | Stormwater Management, Inc.         | FUND             | 4 /11/2005 |
| UrbanGreen                                   | Filter                         | Contech Construction Products, Inc. | FBIO             | 6 /3 /2009 |

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|--|---------------------------------|---------------------------------------|-------------------------|---------------|
| System Components <sup>8</sup>                             |                                 |                                       |                         |               |
| American Wick Drain  | Underdrain Alternative          | American Wick Drain                   | XOTH                    | 4 /6 /2015    |
| Blu-X  | CMAC System                     | EmNet                                 | XOTH                    | 3 /18/2019    |
| EverGuard & EverGuard Extreme TPO                          | Green Roof Liners (TPO)         | GAF                                   | AGRE, AGRI              | 1 /29/2018    |
| Groundwater Energy Passive System (GEPS)                   | Infiltration Component          | Exlterra, Inc.                        | XOTH                    | 7 /8 /2025    |
| HydroBlox  | Drainage/Conveyance Alternative | HydroBlox Technologies, Inc.          | XOTH                    | 5 /31/2016    |
| Opti RTC Continuous Monitoring and Adaptive Control (CMAC) | CMAC System                     | OptiRTC, Inc.                         | XOTH                    | 1 /27/2016    |
| PhosphoSorb Media  | Filtering Media                 | ConTech Construction                  | FUND                    | 11/18/2011    |
| Smart Stormwater Management (aka, SmartSWM)                | CMAC System                     | smartSWM, LLC                         | XOTH                    | 9 /13/2018    |
| smartPOND (CMAC)   | CMAC System                     | ACF Environmental-Convergent Alliance | XOTH                    | 12/4 /2019    |
| Sorbitive Media  | Filtering Media                 | Imbrium Systems Corporation           | FSND, FUND, FPER, FORG, | 10/21/2009    |
| StormKeeper Chamber and Sediment Strip                     | Storage Tank w/Filter           | Lane Enterprises, LLC                 | XFLD                    | 4 /19/2022    |
| StormTank  | Storage Tank                    | Brentwood Industries                  | XFLD                    | 11/6 /2008    |
| StormTech Isolator   | Storage Tank                    | StormTech, LLC                        | XFLD                    | 11/7 /2007    |

Please contact each vendor/manufacturer for approval letters and more specific product information for each of the above-listed practices. Any formal request to MDE concerning an alternative/innovative technology should be submitted to MDE's Stormwater, Dam Safety, and Flood Management Program, 1800 Washington Boulevard, Baltimore, MD 21230. If there are any questions concerning these practices, please contact the Maryland Department of the Environment, Water and Science Administration at 410-537-3543 or at [www.mde.maryland.gov](http://www.mde.maryland.gov).



# Maryland

## Department of the Environment

**Wes Moore**, Governor  
**Aruna Miller**, Lt. Governor

**Serena McIlwain**, Secretary  
**Suzanne E. Dorsey**, Deputy Secretary  
**Adam Ortiz**, Deputy Secretary

### NOTES:

- 1. Code used to identify best management practice (BMP) type in the Department's MS4 Geodatabase (see below).**
- 2. Environmental Site Design (ESD) Practices:** In Maryland, ESD must be used to the maximum extent practicable (MEP) to reduce runoff and mimic natural hydrology in both new development and redevelopment applications. The use of ESD planning techniques and practices must be exhausted before any approved structural practices may be used. Practices that are designed and constructed to the methods and specifications found in Chapter 5 of the Maryland Stormwater Design Manual, Volumes I and II (the Manual, MDE, 2000 & 2009) may be considered as ESD. Practices that deviate from these methods and specifications may be classified as ESD if they mimic natural conditions and meet the General Performance Standards listed in Chapter 1 of the Manual.
- 3. Erosion and Sediment Control Practices:** These are temporary practices that are used to prevent erosion and control sediment during construction.
- 4. ESD Components (Water Quality):** These stormwater treatment practices may be used in new development, redevelopment or retrofitting applications only as part of a system of practices that meet the ESD to MEP mandate. These practices generally provide water quality treatment while allowing water to pass through at a high rate. As a result, they do not provide channel protection, and thus they may not be used as standalone ESD practices.
- 5. Pretreatment Practices:** In new development and redevelopment applications in Maryland, pretreatment practices may be used for pretreating runoff prior to a system of acceptable ESD and/or structural (see Ch. 5 and 3 of the Manual, respectively) water quality practices. Additionally, these practices may be used as alternative measures in redevelopment applications if the local approval authority determines that impervious area reduction and ESD have been implemented to the MEP. Finally, these practices may be used to prevent trash and litter from entering existing storm drain systems to meet local restoration and water quality initiatives if accepted locally.
- 6. Redevelopment and MS4 Retrofit Practices:** These stormwater treatment practices may not be used in new development applications, but may be used in redevelopment applications or to address total maximum daily loads (TMDLs) and restoration requirements found in local National Pollutant Discharge Elimination System (NPDES) municipal separate storm sewer system (MS4) permits. These practices must conform to the guidance, design criteria, and methods described in the Department's *Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated Guidance for National Pollutant Discharge Elimination System Stormwater Permits* (2021).
- 7. Structural Practices:** Stormwater treatment practices that are not considered as ESD may be used to treat stormwater runoff from new development and redevelopment applications after all reasonable efforts to use ESD have been exhausted. These practices must either be designed and constructed to the methods and specifications found in Chapter 3 of the Manual or meet the General Performance Standards listed in Chapter 1 of the Manual.
- 8. System Components:** These are practices that do not provide water quality treatment and may be used only as a component of a larger stormwater treatment system that meets ESD requirements.



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### BMP Code Key

| BMP CODE                     | BMP TYPE                            |
|------------------------------|-------------------------------------|
| Alternative Surfaces (A)     |                                     |
| AGRE                         | Green Roof – Extensive              |
| AGRI                         | Green Roof – Intensive              |
| APRP                         | Permeable Pavements                 |
| ARTF                         | Reinforced Turf                     |
| Nonstructural Techniques (N) |                                     |
| NDRR                         | Disconnection of Rooftop Runoff     |
| NDNR                         | Disconnection of Non-Rooftop Runoff |
| NSCA                         | Sheetflow to Conservation Areas     |
| Micro-Scale Practices (M)    |                                     |
| MRWH                         | Rainwater Harvesting                |
| MSGW                         | Submerged Gravel Wetlands           |
| MILS                         | Landscape Infiltration              |
| MIBR                         | Infiltration Berms                  |
| MIDW                         | Dry Wells                           |
| MMBR                         | Micro-Bioretenention                |
| MRNG                         | Rain Gardens                        |
| MSWG                         | Grass Swale                         |
| MSWW                         | Wet Swale                           |
| MSWB                         | Bio-Swale                           |
| MENF                         | Enhanced Filters                    |

| <b>BMP TYPE<br/>CODE</b>     | <b>BMP TYPE</b>                   |
|------------------------------|-----------------------------------|
| <b>Ponds (P)</b>             |                                   |
| PWED                         | Extended Detention Structure, Wet |
| PWET                         | Retention Pond (Wet Pond)         |
| PMPS                         | Multiple Pond System              |
| PPKT                         | Pocket Pond                       |
| PMED                         | Micropool Extended Detention Pond |
| <b>Wetlands (W)</b>          |                                   |
| WSHW                         | Shallow Marsh                     |
| WEDW                         | ED – Wetland                      |
| WPWS                         | Wet Pond – Wetland                |
| WPKT                         | Pocket Wetland                    |
| <b>Infiltration (I)</b>      |                                   |
| IBAS                         | Infiltration Basin                |
| ITRN                         | Infiltration Trench               |
| <b>Filtering Systems (F)</b> |                                   |
| FBIO                         | Bioretention                      |
| FSND                         | Sand Filter                       |
| FUND                         | Underground Filter                |
| FPER                         | Perimeter (Sand) Filter           |
| FORG                         | Organic Filter (Peat Filter)      |
| FBIO                         | Bioretention                      |
| <b>Open Channels (O)</b>     |                                   |
| ODSW                         | Dry Swale                         |
| OWSW                         | Wet Swale                         |

| BMP TYPE<br>CODE                           | BMP TYPE                          |
|--|-----------------------------------|
| Other Practices (X)                        |                                   |
| XDPD                                       | Detention Structure (Dry Pond)    |
| XDED                                       | Extended Detention Structure, Dry |
| XFLD                                       | Flood Management Area             |
| XFTW                                       | Floating Treatment Wetland        |
| XOGS                                       | Oil Grit Separator                |
| XOTH                                       | Other                             |
| Erosion and Sediment Control Practices (E) |                                   |
| ESSF                                       | Silt Fence                        |
| ESSS                                       | Super Silt Fence                  |
| ESOT                                       | Other                             |