



Green Girl Land Development Solutions
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Best Management Practices

| | | | Non-structural | Master Planning | Design | Construction | Ops & Maintenance | Residential | Commercial | Industrial | No infiltration | Clay soils | On-site Benefit to Stormwater | Off-site Benefit to Stormwater |
|---|---------------|----------------|----------------|-----------------|--------|--------------|-------------------|-------------|------------|------------|-----------------|------------|-------------------------------|--------------------------------|
| | Water Quality | Water Quantity | | | | | | | | | | | | |
| <p>Y = yes blank = no M = maybe, it depends</p> | | | | | | | | | | | | | | |
| Conveying Stormwater | | | | | | | | | | | | | | |
| Get rid of your curbs and gutters and let runoff flow into green streets or at least some simply vegetated areas. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Create long overland flow paths. | Y | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y |
| Stormwater Quantity & Quality/Infiltration | | | | | | | | | | | | | | |
| Infiltrate stormwater with a vegetated swale. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Infiltrate stormwater with a vegetated basin. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Infiltrate stormwater with a vegetated filter strip/buffer. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Infiltrate stormwater with a planter box. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Infiltrate stormwater with level spreaders. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Infiltrate stormwater with a soakage trench. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Install pervious pavement. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | Y | Y | Y |
| Use berms to hold water back. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | | M | Y | Y |
| Disconnect a downspout. | Y | Y | | Y | Y | Y | | Y | Y | Y | | M | Y | Y |
| Stormwater Quantity & Quality/Non-Infiltration | | | | | | | | | | | | | | |
| Install a green roof. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Harvest rainwater in a large cistern. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Protect sensitive areas. | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Save a tree. | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Reduce Disturbance: | | | | | | | | | | | | | | |
| Design things over previously disturbed areas. | Y | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y |
| Avoid sensitive areas. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Reduce excavation. | Y | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y |

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| Limit compaction. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Avoid impacts to areas that provide habitat for threatened and endangered species. | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Avoid impacts to the floodplain, in wetlands, too close to waterways, or too close to coastal shorelines. | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Avoid impacts to farmland or other significant soils. | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Plan for transportation. | | | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Align utilities together in the same trench. | Y | Y | | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y | |
| Reduce Impervious Areas: | | | | | | | | | | | | | | | |
| Share parking spaces with someone else. | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | Y | Y | |
| Share a driveway with someone else. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Minimize road widths. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Minimize the parking space dimensions. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Reduce the parking ratio. | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | Y | Y | |
| Don't pave over areas that are likely to be vacant. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Reduce setbacks. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Reduce cul-de-sac dimensions. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Create a cluster development. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Create a conservation development. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Minimize the building footprint. | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | |
| Stormwater Quality/Non-Infiltration | | | | | | | | | | | | | | | |
| Treat stormwater with a sand filter. | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Treat stormwater with underground detention. | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Treat stormwater with a constructed wetland. | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Treat stormwater with an extended detention/dry pond. | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Treat stormwater with proprietary water quality devices. | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Harvest rainwater in a small barrel. | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Treat stormwater with wet ponds/retention basins. | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Restoration | | | | | | | | | | | | | | | |

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| Restore soil. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Restore riparian buffers. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Daylight piped streams. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Restore lost wetlands | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Restore coastal habitats. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Restore instream habitat. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Restore floodplains. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Transportation | | | | | | | | | | | | | | |
| Put parking underneath a roof. | Y | Y | | Y | Y | | | Y | Y | Y | Y | Y | Y | Y |
| Provide cycling facilities. | Y | | | Y | Y | | | Y | Y | Y | Y | Y | Y | Y |
| Provide alternative fuels. | Y | | | Y | Y | | | Y | Y | Y | Y | Y | | Y |
| Design a woonerf (aka universal street, home zone). | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y |
| Provide car sharing facilities. | Y | | | Y | Y | | | Y | Y | Y | Y | Y | | M |
| Reduce demand for travel by providing virtual communications tools. | Y | | Y | Y | Y | | | Y | Y | Y | Y | Y | | Y |
| Set appropriate speed limits. | Y | | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y |
| Design a site with good pedestrian/cyclist circulation. | Y | | | Y | Y | | | Y | Y | Y | Y | Y | M | Y |
| Design sites to support air quality goals. | Y | | Y | Y | Y | | | Y | Y | Y | Y | Y | | Y |
| Landscape Design | | | | | | | | | | | | | | |
| Plant large canopy trees to shade dark building materials. | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Plant natives in stormwater facilities. | | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | | Y |
| Plant low grow plant mixes instead of lawn. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Reduce mowing. | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y |
| Water Use | | | | | | | | | | | | | | |
| Don't draw from the aquifer. | | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y |
| Design a graywater recycling system. | | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Source Control | | | | | | | | | | | | | | |

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| Cover trash receptacles. | Y | | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Control trash. | Y | | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Identify locations where pollutants are located on the site, and prevent these pollutants from being exposed to stormwater runoff. | Y | | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Control pet waste. | Y | | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Operations & Maintenance | | | | | | | | | | | | | | | |
| Plan for long term maintenance. | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | |
| Siting Considerations | | | | | | | | | | | | | | | |
| Orient the long side of your building on the east-west axis | Y | | Y | Y | Y | | | Y | Y | Y | Y | Y | | Y | |
| Orient your building to take advantage of other climactic considerations such as wind, water, and microclimates. | Y | | Y | Y | Y | | | Y | Y | Y | Y | Y | | Y | |
| Social Goals | | | | | | | | | | | | | | | |
| Consult stakeholders and respond to their concerns. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Incorporate educational opportunities. | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |

| | | | | | | | | | | | | | | | |
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There may be more sources, but when I started this, I didn't think to track them. I apologize to anyone I might've missed.

This list was compiled from a number of sources referenced in the bibliography. It's a tool I made for my business, and I don't mind if you share this list. I mean, let's face it, if we don't start sharing these kinds of tools the Chesapeake Bay will never get cleaned up, and we'll lose all our salmon. It did take a bit of work to compile, so I'd like it if you could leave my logo and references on this. Obviously, this tool is being made available "as is" and I won't take responsibility for how it's used. See something missing? Contact me so I can add it to future versions!

Thanks so much, and Happy Site Planning! Maria Cahill