Endangered Species Act   
Stormwater Design Checklist

for Individual Consultations

The Stormwater Design Checklist assists project designers in providing pertinent information about a project’s stormwater treatment facilities to biologists responsible for preparing biological assessments required for consultation under Section 7 of the Endangered Species Act. The use of this checklist is necessary to aid in developing biological assessments and promoting consistency in the content provided in the agency’s biological assessments.

It is possible that the specific conditions of some projects may warrant modifying or adding certain checklist items. However, to maintain consistency in the type and amount of information collected and submitted for the environmental permitting process, the checklist should be modified only if necessary.

Project Name:

Project Location:

**General Project Information**

1. Will work occur outside existing pavement or gravel shoulders? 🞐 Yes 🞐 No

If yes, describe the nature and extent of the work:

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2. Is off-site stormwater being treated/controlled by WSDOT stormwater facilities prior to initiation of the project? 🞐 Yes 🞐 No

If yes, will this stormwater continue to be treated/controlled to the same level? 🞐 Yes 🞐 No

If off-site stormwater will not continue to be treated/controlled to the same level, explain why not:

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**Existing Stormwater Facilities (Pre-project)**

3. How many TDAs exist within in the project area, how many outfalls or discharge point(s) are located in each TDA, and what are the receiving waterbodies?

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| --- | --- | --- |
| **Existing TDA Number** | **Number of Discharge Points/Outfalls** | **Receiving Waterbody** |
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4. For each existing TDA/outfall (subdivide TDAs if there are multiple outfalls), identify total TDA area, area of impervious surface, area of impervious surface receiving runoff treatment, the runoff BMP type(s), area of impervious surface not receiving runoff treatment, area of impervious surface receiving flow control, the flow control BMP type(s), area of impervious surface being infiltrated via an infiltration BMP, and area of impervious surface not receiving flow control. If available, provide a map depicting drainage basin boundaries for TDAs and subbasins for individual outfalls within a TDA (if applicable), and BMP locations. This information can be summarized in the following table for each TDA/outfall. Some of this information can be provided in the table below, and some written description(s) may be necessary:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Existing TDA/ Outfall Number** | **Total Area (acres)** | **Total Impervious Surface Area (acres)** | **Area w/ Runoff Treatment (acres)** | **Runoff Treatment BMP Type(s)** | **Area w/ No Runoff Treatment (acres)** | **Area w/ Flow Control (acres)** | **Flow Control BMP Type(s)** | **Area to Infiltration BMP (acres)** | **Area w/ No Flow Treatment (acres)** |
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| **Project Totals** |  |  |  |  |  |  |  |  |  |

5. Describe the nature of the existing stormwater conveyance (drainage) system (e.g., pipe, culvert, channel, ditch, swale, sheet flow), including the drainage distance from project right-of-way to project receiving waterbody. If available, provide a map of the conveyance system depicting TDA/outfall subbasin boundaries.

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**Proposed Stormwater Facilities (Proposed Project)**

6. How many TDAs have been identified in the project area, how many outfalls or discharge point(s) are located in each TDA, and what are the receiving waterbodies?

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| --- | --- | --- |
| **Proposed TDA Number** | **Number of Discharge Points/Outfalls** | **Receiving Waterbody** |
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7. For each proposed TDA/outfall (subdivide TDAs if there are multiple outfalls), identify total TDA area, area of impervious surface, area of impervious surface receiving runoff treatment, the runoff BMP type(s), area of impervious surface not receiving runoff treatment, area of impervious surface receiving flow control, the flow control BMP type(s), area of impervious surface being infiltrated via an infiltration BMP, and area of impervious surface not receiving flow control. If available, provide a map depicting drainage basin boundaries for TDAs and subbasins for individual outfalls within a TDA (if applicable), and BMP locations. This information can be summarized in the following table for each TDA/outfall. Some of this information can be provided in the table below, and some written description(s) may be necessary:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Existing TDA/ Outfall Number** | **Total Area (acres)** | **Total Impervious Surface Area (acres)** | **Area w/ Runoff Treatment (acres)** | **Runoff Treatment BMP Type(s)** | **Area w/ No Runoff Treatment (acres)** | **Area w/ Flow Control (acres)** | **Flow Control BMP Type(s)** | **Area to Infiltration BMP (acres)** | **Area w/ No Flow Treatment (acres)** |
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| **Project Totals** |  |  |  |  |  |  |  |  |  |

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8. If no runoff treatment or flow control BMPs are proposed for a TDA, provide justification.

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9. Describe the nature of the proposed stormwater conveyance (drainage) system (e.g., pipe, culvert, channel, ditch, swale, sheet flow), including the drainage distance from project right-of-way to project receiving waterbody. If available, provide a map of the conveyance system depicting TDA/outfall subbasin boundaries.

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10. Are any of the project’s proposed TDAs exempt from the flow control requirement per the most recent version of the *Highway Runoff Manual*? 🞐 Yes 🞐 No

If yes, identify the exempt TDA(s) and basis for exemption:

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If no, and the project is petitioning for an exemption, has a hydrologic analysis supporting the exemption been approved by Ecology? 🞐 Yes 🞐 No

* If yes, provide a summary of the analysis as an attachment to this checklist.
* If no, a hydrologic analysis justifying the exemption must be submitted to Ecology for approval or flow control must be provided.

*Note: For some receiving waterbodies, the project biologist may need to acquire more detailed information flow related impacts.*

11. For each non-exempt TDA, identify the total area of new impervious surface to receive flow control and for western Washington, the predeveloped land cover design standard (grass, pasture, or forested):

|  |  |  |
| --- | --- | --- |
| **TDA Number** | **Square Feet, Acres** | **Predeveloped Land Cover Design Standard (western Washington only)** |
|  |  |  |

12. Will any existing impervious surface be retrofitted for flow control?  Yes  No

If yes, identify the total area of the existing impervious surface in each TDA will be retrofitted for flow control and for western Washington, the predeveloped land cover design standard (grass, pasture, or forested):

|  |  |  |
| --- | --- | --- |
| **TDA Number** | **Square Feet, Acres** | **Predeveloped Land Cover Design Standard (western Washington only)** |
|  |  |  |

13. For western Washington, is the project able to provide all the required flow control for new impervious surfaces within the project limits to the historic land cover standard?   
 Yes  No

If *no*, identify where and how this project-triggered retrofit obligation will be met off-site, including the location(s) and the applicable land cover design standard (grass, pasture, or forested):

|  |  |  |
| --- | --- | --- |
| **On-Site/Off-Site Location TDA Numbers** | **Volumetric Difference Between Off-site and  On-site Volume Detained** | **Land Cover Design Standard (western Washington only)** |
|  |  |  |

14. Is the project able to provide all the required flow control for replaced impervious surfaces within the project limits?  Yes  No

If yes, for each TDA, identify total area of the replaced pollution-generating impervious surface to receive flow control and for western Washington, the predeveloped land cover design standard (grass, pasture, or forested):

|  |  |  |
| --- | --- | --- |
| **TDA Number** | **Square Feet, Acres** | **Predeveloped Land Cover Design Standard (western Washington only)** |
|  |  |  |

If *no*, identify where and how this project-triggered retrofit obligation will be met off-site, including the location(s) and the applicable land cover design standard (grass, pasture, or forested):

|  |  |  |
| --- | --- | --- |
| **Off-Site Location TDA Number** | **Square Feet, Acres** | **Land Cover Design Standard** |
|  |  |  |

15. Does the project transfer water between watersheds? 🞐 Yes 🞐 No

16. Will the project require construction of a new stormwater outfall structure or a new point   
of discharge to any water body? 🞐 Yes 🞐 No

If yes, identify the receiving water body and describe areas of permanent and temporary clearing or grading, types of vegetation to be removed, amount of riprap, diameter of outfall pipe(s), and all maintenance/access roads to be constructed. If available, provide a map of outfall locations.

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17. If the project is not infiltrating all of the runoff from the new impervious surface and is unable to provide the required runoff treatment or flow control for the entire new impervious surface, explain why not. Documentation should include a completed copy of the Engineering and Economic Feasibility (EEF) Evaluation Checklist .

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18. What stormwater management design standards were applied?

🞐 WSDOT Highway Runoff Manual, version \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

🞐 Ecology’s Stormwater Management Manual(*s*), version \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

🞐 Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

🞐 Not Applicable

Prepared by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_

Project Engineer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Office Location\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_