

Fisheries Resources Discipline Report Checklist

Project Name: _____ Job Number: _____

Contact Name: _____

Date Received: _____ Date Reviewed: _____ Reviewer: _____

(SAT = Satisfactory; INC = Incomplete; MIS = Missing; N/A = Not Applicable)

Answers are required for questions which have no N/A box.

A Fisheries Resources Discipline Report can be highly detailed or extremely concise depending upon whether the level of impact or controversy is substantial or minimal. Project teams should take care to “right-size” the discipline report so it adequately addresses the impacts and controversy without over-analyzing or providing unnecessary information.

I. Project Description

SAT INC MIS N/A

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|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | A. Describe the overall purpose of the project, and provide a brief summary of the project objectives. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | B. Include information on proposed project-related construction activities and types of equipment, as available. Include sources of in-water noise greater than ambient levels (e.g., pile driving and blasting). Include all phases or stages of the project and details about any structures altered or built as part of the proposed project. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | C. Describe secondary project features (i.e., wetland mitigation construction, staging areas, detours, waste and stockpile sites, safety clearing, work trestles and temporary work bridges, and demolition). |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | D. Provide a chronology of activities, timing of construction, and phasing of construction. Provide hours of operation; specify day or night, time of year (months and year), and duration. If details are unavailable, identify a potential work window using the worst-case scenario. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | E. Describe proposed grading and filling or other earthwork; include potential best management practices (BMPs) for controlling erosion, sedimentation, stormwater, and spills. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | F. Explain any expected changes to the operation of the facility (e.g., increased traffic, revised use patterns, or new maintenance needs). |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | G. Provide stormwater treatment information. How much new impervious surface will result from the project (including surfaces such as sidewalks and parking lots for which it has been determined that stormwater treatment should be provided)? How much of the new impervious surface will be treated (percentage or total amount)? What BMPs are proposed for treating the quality and quantity of runoff from new impervious surfaces?
What is the receiving area/water body for stormwater runoff? What is the amount of existing (before project implementation) impervious surface in the project |

area? How much existing impervious surface is currently being treated for stormwater? How much of the untreated existing impervious surface is proposed for treatment as part of the project? Under existing conditions, is offsite stormwater being treated in Washington State Department of Transportation (WSDOT) stormwater facilities? If yes, will this treatment continue at the same level after implementation of the proposed project? Describe the location of the facilities and outfalls. Indicate whether existing or new outfalls will be used. If new outfalls will be constructed, identify their location and indicate whether they will be installed below the ordinary high water mark (OHWM) of the receiving water body. Include the effects of constructing these facilities in the impact analysis.

SAT INC MIS N/A

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| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | H. Describe proposed in-water work or work below the OHWM), work over water bodies, and the potential for impacts on riparian vegetation (quantity and type). Include conditions and work windows as described in the Washington Department of Fish and Wildlife (WDFW) hydraulic project approval (HPA). State clearly if the project includes no in-water or over-water work. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | I. Follow steps B through H for each build alternative. Describe any differences in proposed activity between each build alternative. |

II. Methods, Data Sources, and Graphics

SAT INC MIS N/A

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|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | A. Provide date(s) of the site visit(s). |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | B. Describe conditions at the time of site visit(s) (e.g., normal precipitation or dry year). |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | C. For any surveys completed, clearly specify the area of the survey (name of water body and location). Indicate the protocols and field methods used for the surveys, and clearly state the results. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | D. Include simple plan sheets or an overview of the alignment showing the location of proposed work under each alternative relative to sensitive areas and/or habitat. Include a figure showing locations of water bodies potentially affected by proposed in-water work. The figure must clearly show the existing conditions and proposed design. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | E. U.S. Geological Survey quadrangle map or National Wetlands Inventory map of the project study area. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | F. Include photographs of the study area, clearly labeled. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | G. Aerial photograph (using an aerial photograph as background for site plan and mapping sensitive resources can be helpful for the reviewer). |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | H. Existing local sensitive area maps should be consulted to identify protected areas and locations of special aquatic and natural resources sites. |

SAT INC MIS N/A

- I. WDFW Priority Habitat and Species data and Wildlife Heritage Program data. Do not include raw data in the report.
 - J. WDFW salmon spawning ground survey data.
 - K. WDFW juvenile salmonid out-migration data.
 - L. WDFW Washington Lakes and Rivers Information System data.
 - M. WDFW Salmon and Steelhead Stock Inventory: Puget Sound Stocks (1992).
 - N. WDFW Salmon and Steelhead Stock Inventory: Bull Trout and Dolly Varden (1998).
 - O. U.S. Fish and Wildlife Service species list by county.
 - P. National Marine Fisheries Service species list.
 - Q. Habitat-limiting factors analysis for the Washington Conservation Commission for the specific water resources inventory area.
 - R. StreamNet database.
 - S. Personal communications: WDFW local area habitat biologist.
 - T. Personal communications as appropriate: tribal contacts, National Marine Fisheries Service, U.S. Fish and Wildlife Service, local chapter of National Audubon Society, and/or other local experts.
 - U. Additional available data as appropriate: U.S. Forest Service, Bureau of Land Management, WSDOT, county, local jurisdiction, university research, etc.
 - V. Other relevant discipline reports (wetlands, water resources, water quality, vegetation, etc.).
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III. Affected Environment

SAT INC MIS N/A

- A. Describe the project setting. Include the physiographic region, general topography, dominant habitat and vegetation type(s), nearby water resources, mapped soils, and land use types.
- B. Provide the legal description (section, township, and range) of areas affected by the alternatives.
- C. Provide name and number of water resource inventory area.
- D. Provide the hydrologic unit code.
- E. Define the project study area (area of potential impacts, both indirect and direct). The study area should include all areas potentially affected by each alternative. The study area is usually larger than the project area (e.g., the river upstream and downstream of a bridge project, water bodies that receive stormwater runoff, detour routes or borrow pits for source material, wetland mitigation sites, or other

mitigation sites resulting from project impacts). Include all areas, including mitigation areas and other areas outside the immediate project area that may be affected by the project activities.

SAT INC MIS N/A

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| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | F. Describe the environmental baseline condition (condition before project implementation) of the habitats in the project study area. The description of the baseline should include all pertinent habitat parameters for fish. Where appropriate, it should describe aquatic baseline conditions using the National Marine Fisheries Service or U.S. Fish and Wildlife Service matrix of pathways and indicators. Use the matrix of pathways and indicators only if in-water work will occur and include the actual matrix in the body of the report accompanied by a summary of the indicators that may be adversely affected by the project. Additional information for the rest of the indicators may be provided in an appendix. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | G. Summarize the findings of the wetland discipline report in table format as applicable. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | H. Identify all species of fish that are known to occur or have the potential to occur on the site and in the project study area based on existing data sources and field observations. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I. Indicate any state or federally listed species, proposed species, candidate species, species of concern, and designated or proposed critical habitat that is known to occur or has the potential to occur on the site or in the project study area. Identify the species by evolutionarily significant unit, stock, or distinct population segment, if appropriate. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | J. For species potentially occurring in the project study area, describe their habitat requirements and ecology. A lengthy life history is not required and can be incorporated by referencing appropriate documents and appending them to the report. Enough information should be provided to adequately explain the potential impacts. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | K. Describe the potential suitable habitat for the species on the site or in the project study area and how the local populations use it. Discuss the local status of the species as appropriate. Determine the likely level and type of use of the area by each species and its life history form. |

IV. Impacts

Note: The analysis should be commensurate with the level of impact.

SAT INC MIS N/A

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|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | A. Describe how the environmental baseline condition (condition before project implementation) of the habitats in the study area will be degraded, maintained, or improved (restored) by each alternative. If appropriate, the National Marine Fisheries Service or U.S. Fish and Wildlife Service matrix should be completed to document the environmental baseline and effects of the proposed action(s) on |
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relevant indicators. Address only the indicators that will be adversely affected by the project. Include the matrix of pathways and indicators in the report along with a summary of affected indicators, but place the detailed discussions of the unaffected indicators in an appendix.

SAT INC MIS N/A

- B. Direct effects: Describe and analyze the effects of each alternative that would directly affect the species or its suitable habitat and food resources. Include actions that would potentially remove, fragment, or destroy habitat; or displace or otherwise influence the species, either beneficially or adversely. Quantify both temporary and permanent impacts, if possible.
- C. Describe the potential for impacts due to disturbance (e.g., sedimentation, underwater noise, debris, or increased human activity) associated with construction and continuing operation.
- D. Indirect effects: Describe any potential indirect impacts (those that occur later in time), such as impacts on future food resources or habitat and impacts due to increased long-term human access or project-induced growth.
- E. Cumulative effects: Identify the species or populations within the study area that are vulnerable to the cumulative effects of past, present, or future actions that are reasonably certain to occur, including the proposed project. Include an analysis of the incremental effects of these projects on fish.
- F. Discuss water quality impacts on water bodies (sedimentation and pollutants).
- G. Quantify the area of riparian vegetation removal; include clearing and grubbing quantities, vegetation types, and replanting plans, if appropriate. For trees, include the species and approximate size (height and diameter at breast height). Describe both temporary and permanent clearing for each alternative.
- H. Discuss the quantity and significance of wetland and buffer impacts, if applicable.

Note: A biological assessment may be required if the proposed project has federal involvement (i.e., funding or permits) and federally listed species are potentially present. The biological assessment should be prepared under separate cover.

V. Proposed Mitigation Measures

SAT INC MIS N/A

- A. As appropriate, provide recommendations that could help to reduce or eliminate the adverse effects of the proposed activity on fish. Include avoidance, minimization, and mitigation techniques, as appropriate. These could include such things as clearing limitations, avoidance of specific areas, special construction techniques, and timing windows.
- B. Ensure that any mitigation measures discussed have been approved by the WSDOT project team.

SAT INC MIS N/A

- C. If in-water work is proposed, identify the requirements for fish handling, screening, and monitoring. Include copies of the temporary erosion and sediment control plan, the stormwater pollution prevention plan, and other applicable plans, if available. If fish handling is required, refer to the WSDOT standard specifications for fish removal.
- D. Monitoring requirements should be clearly stated so they can be easily incorporated into the project design or contract.

VI. Summary and Conclusions

SAT INC MIS N/A

- A. Summarize the analysis performed and the conclusions reached. The Summary and Conclusions should be written in “Plain Talk” language (see www.governor.wa.gov/priorities/plaintalk/default.asp) and include enough detail so that it can be included in the environmental impact statement with only minor modification.

The Summary and Conclusions should include the following:

SAT INC MIS N/A

- A. A statement defining the objectives of the project.
- B. A discussion of the impacts of all alternatives, including the no-build alternative.
- C. A synopsis of the recommended mitigation.
- D. A comparison of alternatives based on impacts.

General Comments: _____
