North Carolina Nine (9) Element Checklist

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| Watershed | Tar River – Fishing Creek | | | |
| Applicant Name | Division of Mitigation Services - | | | |
| Contact Person/Title | Nancy Daly | | | |
| Address | Raleigh, | | | |
| Phone Number/Email |  | | | |
| Date of Submittal |  | | | |
| Plans using to document the Nine (9) Elements required for 319 funding? Please provide full reference | | | | |
| Name of Plan(s) | | Author/Developer | Year | Link/Location |
| Summary of Existing Water Quality Data – Fishing Creek, Granville County | | DWR | July 2005 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=5b6c3d70-bd29-4b24-9786-fbeefdb38568&groupId=60329> |
| Fishing Creek LWP –Detailed Assessment Report | | NCDENR – Division of Mitigation Services | May 2008 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329> |
| Fishing Creek LWP | | NCDENR – Division of Mitigation Services | March 2013 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| Summary of Findings and Recommendations for Fishing Creek LWP | | NCDENR – Division of Mitigation Services |  | <http://portal.ncdenr.org/c/document_library/get_file?uuid=a77d054c-b6a8-4f1a-8883-4789ec5b6af2&groupId=60329> |

### Once completed, please submit your checklist to Heather Jennings at [he athe r.b.j e nni ngs@nc de nr.gov .](mailto:heather.b.jennings@ncdenr.gov) DWR will conduct an internal review and notify you when the plan has been determined to meet all of the 9 Elements and is eligible for Section 319 Grant implementation funding. As they are approved, they will be listed on DWR’s list of 319 watershed pl ans at <http://portal.ncdenr.org/web/wq/ps/nps/319program/nc-watershed-plans>

### If you are developing a plan that you are hoping to submit to 319 in the same year, please contact Heather Jennings by [e m ai l](mailto:heather.b.jennings@ncdenr.gov) or by phone at (919) 807-6437. Your plan will need to be submitted for approval at least 45 days prior to the 319 Grant application due date.

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| **1. Identification of the Causes and Sources Checklist** | **Yes** | **No** | **Notes** | **Identify location of information (include link or attach plan and identify section and page number)** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Does the plan(s) identify stressors and  sources in the watershed? | x |  |  | Fishing Creek LWP–Detailed Assessment Rept pp. 7-13, 20-41  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP (pp. 13-53)  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **OPTIONAL (Supplemental and/or supporting information)** | | | | |
| Was a GIS desktop analysis performed? | x |  |  | Fishing Crk LWP–Detailed Assessment Report pp. 6-11, 20-43  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329> |
| Has existing water quality or biological data been reviewed?   * Ambient water quality data * USGS data * Other? | x |  |  | Fishing Creek LWP –Detailed Assessment Report pp. 11-14  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329> |
| Does the plan(s) identify any water  quality impairments in this watershed (303(d) list)? | x |  |  | Fishing Creek LWP –Detailed Assessment Report pp. 3-4  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329> |
| Has field assessment beenconducted?   * CWP (Center for Watershed Protection) Method * EEP (Ecosystem Enhancement Program) Manual * Other? | x |  |  | Fishing Creek LWP –Detailed Assessment Report pp. 36-38  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329> |
| Does the plan indicate if a TMDL has  been developed for this watershed? |  |  | NA |  |
| Does the plan(s) include a map that  shows where stressors and sources are concentrated? | x |  | Maps with sub watersheds prioritized by relatives degrees of impact (functioning to non-functioning) | Fishing Creek LWP –Detailed Assessment Report  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329> |

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| **2. Description of the NPS**  **Management Measures Checklist** | **Yes** | **No** | **Notes** | **Identify location of information (include link or**  **attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Does the plan(s) identify management  measures that address the stressors and sources identified in Element 1? (*note: prioritization of projects would be considered to meet this element*) | x |  | Fishing Creek LWP – Table E1 and Summary of Findings and Recommendations for Fishing Creek LWP – Table 1 both associate stressors with management strategies | Fishing Creek LWP pp. ii-iii, 49, 54-89  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329>  Summary Findings and Recommendations for Fishing Crk LWP  <http://portal.ncdenr.org/c/document_library/get_file?uuid=a77d054c-b6a8-4f1a-8883-4789ec5b6af2&groupId=60329> |
| **3. Estimate of the load reductions expected for the management measures** | **Yes** | **No** | Notes | **Identify location of information (include link or attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Have potential indicators been identified for each management measure to determine success? | x |  | Detailed Assessment Report base loading parameters could be used as indicators.  Fishing Creek LWP- Table 11 indicators may be used to measure improvement following management measure implementation.  Fishing Creek LWP - Tables 23-30 – pollutants could be used as potential indicators.  Fishing Creek LWP – Project Atlas has some info that could be used as indicators | Fishing Creek LWP–Detailed Assessment Report pp. 20-25.  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP pp.49-90,  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| Has it been roughly quantified how much each management measure will reduce one or more parameters identified in Element 1? | x |  | Detailed Assessment Report base loading parameters could be used as indicators.  Stormwater management measure reductions are shown in Tables 24-30 | Fishing Creek LWP–Detailed Assessment Report pp. 20-25.  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP pp.49-82  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **OPTIONAL (Supplemental and/or supporting information)** | | | | |
| Has a water quality, watershed or lake response model been developed for this watershed? | x |  | Base loadings provided in Detailed Assessment Report.  Stormwater management measure modeling | Fishing Creek LWP –Detailed Assessment Report pp. 20-25.  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP pp.63-82  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **4. Estimate of the technical and financial assistance needed** | Yes | No | Notes | **Identify location of information (include link or attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Have the potential costs associated with management activities listed in the plan(s) been identified? | x |  |  | Fishing Creek LWP pp.90-91  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| Has the technical assistance that may be required to help with design, construction, implementation and monitoring of management strategies listed in the plan(s) been identified | x |  |  | Fishing Creek LWP pp.90-91  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |

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| **OPTIONAL (Supplemental and/or supporting information)** | | | | |
| Have potential partners and funding sources to assist with implementation of the watershed plan(s) been identified and/or contacted? | x |  |  | Fishing Creek LWP pp.90-91  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| Have potential partners/funding  sources to assist with maintenance and/or monitoring (following completion) been identified? | x |  |  | Fishing Creek LWP pp.90-91  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **5. Information/Education component** | Yes | No | Notes | **Identify location of information (include link or attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Have a range of information and  education options been identified in the watershed plan? | x |  |  | Fishing Creek LWP pp.89-90  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **OPTIONAL (Supplemental and/or supporting information)** | | | | |
| Have resource agencies that can be  integrated into the watershed planning process been identified and/or contacted? | x |  |  | Fishing Creek LWP pp.90-91  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **6. Schedule for implementing**  **management measures** | Yes | No | Notes | **Identify location of information (include link or**  **attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Have the tasks and activities that are related to the implementation and monitoring of management recommendations been identified? | x |  | Some factors evaluated for stream and buffer projects, stormwater management measures are related to implementation or monitoring management recommendations. Other tasks, activities are also included. | Fishing Creek LWP 54-90  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| Has it been determined if these tasks  and activities are short-term, medium, or long-term in nature (*note: prioritization of projects is acceptable for meeting this element*)? | x |  | Stream and buffer, wetland, and stormwater BMP projects prioritized in Tables 12, 14, and 31, respectively. | Fishing Creek LWP pp. 54-83  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |

The plan will be approvable with comments on spreadsheet, keep in mind that load reductions associated with specific management measures should be included if you want to receive funding

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| **7. Description of interim, measurable milestones** | Yes | No | Notes | **Identify location of information (include link or attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Have interim, measurable milestones  (things that you can track) that can help determine if management measures (in Element 2) are being implemented been identified? | x |  | Some factors evaluated for stream and buffer projects, stormwater management measures are related to implementation or monitoring management recommendations. Other tasks, activities are also included. | Fishing Creek LWP 54-90  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **8. Criteria that can be used to determine if loading reductions are being achieved** | Yes | No | Notes | **Identify location of information (include link or attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Have criteria and/or indicators that can be used to determine if management strategies and activities listed in the plan(s) are being effective been identified? | x |  | Detailed Assessment Report base loading parameters could be used as indicators.  Fishing Creek LWP- Table 11 indicators may be used to measure improvement following management measure implementation.  Fishing Creek LWP - Tables 23-30 – pollutants could be used as potential indicators.  Fishing Creek LWP – Project Atlas has some info that could be used as indicators | Fishing Creek LWP–Detailed Assessment Report pp. 20-25.  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP pp.49-90  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **9. Monitoring** | Yes | No | Notes | **Identify location of information (include link or attach plan and identify section and page number** |
| **REQUIRED (This box(es) below must be checked Yes in order to be eligible as a 9 Element plan)** | | | | |
| Has a monitoring plan that includes  each of the criteria and/or indicators identified in Element 8 been developed? | x |  | Monitoring and assessment done as part of initial evaluation by DWR, WK Dickson and others. Many parameters that can be used as indicators can be monitored. Note monitoring does NOT have to always involve collection of water samples (i.e. photos). | Summary of Existing Water Quality Data – Fishing Creek, Granville County – previous monitoring  <http://portal.ncdenr.org/c/document_library/get_file?uuid=5b6c3d70-bd29-4b24-9786-fbeefdb38568&groupId=60329>  Fishing Creek LWP –Detailed Assessment Report – previous monitoring  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP–Detailed Assessment Report pp. 20-25.  <http://portal.ncdenr.org/c/document_library/get_file?uuid=dd028de7-a19f-45a1-8ed0-248b1056c4c8&groupId=60329>  Fishing Creek LWP pp.49-90  <http://portal.ncdenr.org/c/document_library/get_file?uuid=c17089ca-e183-41a2-99c4-1ef17c57c512&groupId=60329> |
| **OPTIONAL (Supplemental and/or supporting information)** | | | | |
| Are there plans for conducting water  quality monitoring?   * Intensive/On-going? * Field kits? | x |  |  |  |
| If water quality monitoring is  expected to be conducted, have you contacted NCDWR? |  |  | Make use of existing DWR (and other) data in watershed. |  |