North Carolina Nine (9) Element Checklist

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| Watershed | Ararat |
| Applicant Name |  |
| Contact Person/Title | Kirsten Hunt, Nancy Daly  |
| Address |  |
| 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  |
| Ararat – Pilot Mtn LWP  | Wildlands Engineering  | 2013 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329>  |
| Ararat-Pilot Mtn LWP – Project Atlas | Wildlands Engineering  | 2013 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=6b444d1c-030f-4935-8252-2cd3a4934cf1&groupId=60329>  |
| Ararat-Pilot Mtn LWP – Review of Existing GIS …  | Wildlands Engineering  | 2012 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=bd2cca2c-a9a3-43eb-bbc8-3427eaecbd47&groupId=60329>  |
| TMDL for Turbidity for … Ararat River …  | DWR | 2011 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=6223462a-8b8f-4a0b-ae58-e5033d5ebb7c&groupId=38364>  |
| A Simplified Guide to Writing Watershed Restoration Plans and NC 9-Element Plan Checklist | TJCOG | 2013 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=71ba2c9f-75f9-44ee-b214-8aba63f0e9f0&groupId=38364> |

### Once completed, please submit your checklist to Heather Jennings at he athe r.b.j e nni ngs@nc de nr.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 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 pl an)** |
| Does the plan(s) identify stressors andsources in the watershed? | X |  |  | Ararat LWP, Table ES-1 (pp.5-6), pp. 55-57, Table 8 (pp. 61-62). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> |
| **OPTIONAL (Supplemental and/or supporting information)** |
| Was a GIS desktop analysis performed? | X |  | Technical Memo 1 | <http://portal.ncdenr.org/c/document_library/get_file?uuid=bd2cca2c-a9a3-43eb-bbc8-3427eaecbd47&groupId=60329>  |
| Has existing water quality or biological data been reviewed?* Ambient water quality data
* USGS data
* Other?
 | X |  | In the watershed Characterization | Ararat LWP, pp. 23-30. <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> |
| Does the plan(s) identify any waterquality impairments in this watershed (303(d) list)? | X |  | Yes, but would be beneficial to include the Assessment Units (AU) in the document or attachment |  |
| Has a field assessment beenconducted?* CWP (Center for Watershed Protection) Method
* EEP (Ecosystem Enhancement Program) Manual
* Other?
 | X |  | EEP/DMS Completed. | Ararat LWP, pp. 23-30. <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> |
| Does the plan indicate if a TMDL hasbeen developed for this watershed? | X | X | While TMDL is mentioned the 2011 Yadkin Turbidity TMDL that includes the Ararat is not. Please include in an attachment | Please include in an attachment: 2011 Yadkin Turbidity TMDL <http://portal.ncdenr.org/c/document_library/get_file?uuid=6223462a-8b8f-4a0b-ae58-e5033d5ebb7c&groupId=38364>  |
| Does the plan(s) include a map thatshows where stressors and sources are concentrated? | X | X | Table 3 and Figure 6 have indicator information that can be associated with stressors and sources by subwatershed  | Ararat LWP, pp. 33-34. <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&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 managementmeasures that address the stressors and sources identified in Element 1? (*note: prioritization of projects would be considered to meet this element*) | X |  | Table ES-1. Includes Management Recommendations | Ararat LWP, pp. 5-6, table ES-1. <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&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 |  | Specific indicators are only included for stormwater management measures. Better indicators could be provided for stream and wetland mitigation projects.  | Ararat LWP, Table 6, pp. 43-44.<http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> Ararat LWP – Project Atlas, pp. 24-38.<http://portal.ncdenr.org/c/document_library/get_file?uuid=6b444d1c-030f-4935-8252-2cd3a4934cf1&groupId=60329> |
| Has it been roughly quantified how much each management measure will reduce one or more parameters identified in Element 1? | X | X | Specific indicators are only included for stormwater management measures. Better indicators could be provided for stream and wetland mitigation projects.  | Ararat LWP, Table 6, pp. 43-44.<http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> Ararat LWP – Project Atlas, pp. 24-38.<http://portal.ncdenr.org/c/document_library/get_file?uuid=6b444d1c-030f-4935-8252-2cd3a4934cf1&groupId=60329> |
| **OPTIONAL (Supplemental and/or supporting information)** |
| Has a water quality, watershed or lake response model been developed for this watershed? | X | X | Modeling done to determine/estimate load reductions associated with management measures.  | Ararat LWP – Project Atlas, Appendix A.<http://portal.ncdenr.org/c/document_library/get_file?uuid=6b444d1c-030f-4935-8252-2cd3a4934cf1&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 | X | Specific cost or estimates should be included in either Ararat LWP or LWP Project Atlas (similar to that in Simplified Guide).  | A Simplified Guide to Writing Watershed Restoration Plans and NC 9-Element Plan Checklist, Tables 4&5, pp. 6-7. <http://portal.ncdenr.org/c/document_library/get_file?uuid=71ba2c9f-75f9-44ee-b214-8aba63f0e9f0&groupId=38364> |
| Has the technical assistance that may be required to help with design, construction, implementation and monitoring of management strategies listed in the plans been identified?  | X |  | Great list of potential partners and funding sources | Ararat LWP, Table 9 (pp. 65-68). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329>  |
| **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 |  | Identified, not sure if contacted.  | Ararat LWP, Table 9 (pp. 65-68). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> |
| Have potential partners/fundingsources to assist with maintenance and/or monitoring (following completion) been identified? | X |  | Identified, not sure if contacted. | Ararat LWP, Table 9 (pp. 65-68). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&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 andeducation options been identified in the watershed plan? | X |  | Education & outreach listed with each management recommendation as needed | Ararat LWP, Table ES-1 (pp.5-6), pp. 55-57, Table 8 (pp. 61-62). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329>  |
| **OPTIONAL (Supplemental and/or supporting information)** |
| Have resource agencies that can beintegrated into the watershed planning process been identified and/or contacted? | X |  | Identified, not sure if contacted. | Ararat LWP, Table 9 (pp. 65-68). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&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 | X | General tasks and activities related to implementation. More specifics could be provided.  | Ararat LWP, Table ES-1 (pp.5-6), pp. 35-38, Table 8 (pp. 61-62). <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329>  |
| Has it been determined if these tasksand activities are short-term, medium, or long-term in nature (*note: prioritization of projects is acceptable for meeting this element*)? | X | X | After prioritization process, only top rated management measures included in LWP.  | Ararat LWP, pp. 31-34, <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> |

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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 | X | General tasks and activities related to implementation. More specifics could be provided.  | Ararat LWP, Table ES-1 (pp.5-6), pp. 35-38, Table 8 (pp. 61-62) <http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&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 | X | Specific indicators are only included for stormwater management measures. Better indicators could be provided for stream and wetland mitigation projects.  | Ararat LWP, Table 6, pp. 43-44.<http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329> Ararat LWP – Project Atlas, pp. 24-38.<http://portal.ncdenr.org/c/document_library/get_file?uuid=6b444d1c-030f-4935-8252-2cd3a4934cf1&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)** |
| **OPTIONAL (Supplemental and/or supporting information)** |
| Has a monitoring plan that includeseach of the criteria and/or indicators identified in Element 8 been developed? | X |  | Section 4.4  | Ararat LWP, pp. 58-60.<http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329>  |
| Are there plans for conducting waterquality monitoring?* Intensive/On-going?
* Field kits?
 | X |  | Section 4.4  | Ararat LWP, pp. 58-60.<http://portal.ncdenr.org/c/document_library/get_file?uuid=47fa4cef-42a6-4647-9546-c6d23e8df53f&groupId=60329>  |
| If water quality monitoring isexpected to be conducted, have you contacted NCDWR? | X |  | Include link to NC DWR WSS Monitoring  |  |