

## B. The North Lake Basin Implementation Table

Table 19. Strategies and associated actions direct regulatory, technical assistance, and funding to highest-priority sub-watershed areas. These address sector objectives in Tables 9 and 10 for the North Lake Tactical Basin Plan (LC TMDL associated strategies are identified by \*). Additional recommendations as to how to best direct resources can be found in Chapter 4 under the appropriate sector.

Strategy	Priority HUC12 (bold) or Subbasins, see Table 1	Partners (see Appendix A)	Funding
<b>AGRICULTURE</b>			
<b>1. Provide education, outreach, and technical assistance to farms on water quality regulations, RAPs, agricultural BMPs and cost-share programs: *</b> <ol style="list-style-type: none"> <li>a. Make available to farmers at least one workshop or training annually,</li> <li>b. Provide technical assistance visits, and</li> <li>c. Support partners in development and distribution of education materials</li> </ol>	<b>Mud Creek, St. Albans Bay and Jewett Brook(critical<sup>31</sup>), Lake Champlain, LaPlatte River, Hoisington Brook</b>	AAFM, Farmers Watershed Alliance (FWA), FNLC, NRCD, VACD, UVM extension	AAFM, Clean Water Fund (CWF), LCBP
<b>2. Inspect approximately 70% of CSFOs at least once, per the 7-year inspection cycle outlined in the RAPs.*</b>	<b>Mud Creek, St. Albans Bay and Jewett Brook(critical), Lake Champlain, LaPlatte River, Hoisington Brook</b>	AAFM,	AAFM
<b>3. Promote nutrient management:*</b> <ol style="list-style-type: none"> <li>a. Expand offerings of small farm NMP development courses and workshops, trainings for farmers, manure applicators and technical service providers</li> </ol>	<b>Mud Creek, St. Albans Bay and Jewett Brook(critical), Lake Champlain, LaPlatte River, Hoisington Brook</b>	VACD, WNRCD, FNLC, FNRCD, UVM extension	CWF

<sup>31</sup> The NRCS and ANR identified critical subbasins as a focus for [NRCS's Lake Champlain Strategic Watershed Planning Approach](#).

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<p><b>4. Increase BMP implementation*, including conversion to reduced tillage and no till crop management; cover crops; winter feedlot management and other pasture management BMPs; and grassland manure injection:</b></p> <p>a. Continue and expand technical and financial assistance available through state and partner programs</p>	<p><b>Mud Creek, St. Albans Bay and Jewett Brook(critical), Lake Champlain, LaPlatte River, Hoisington Brook</b></p>	<p>AAFM, UVM-Extension, DEC, FWA, FNLC, NRCD, NRCS. LCBP</p>	<p>RCPP, USDA, AAFM, LCBP</p>
<p><b>5. Improve agricultural partner coordination and cross trainings to increase productivity and effectiveness of outreach efforts:</b></p> <p>a. Hold a meeting with partners annually</p>	<p>All, Swanton shoreline</p>	<p>AAFM, NRCDs, NRCS, UVM-Extension, FNLC, FWA, LCBP, USFWS, VAWQP</p>	<p>LCBP, AAFM</p>
<p><b>6. Identify potential agricultural sources of <i>E. coli</i> and address using Bacterial TMDL as guide:</b></p> <p>a. Survey stream for locations of potential inputs and identify agricultural activity in watershed</p>	<p>Mud Hollow Brook, LaPlatte River</p>	<p>AAFM, DEC</p>	
<p><b>7. Continue the development and support of alternative conservation incentive programs to incentivize and support land stewardship for clean water through innovative approaches outside of the historical pay for practice models:*</b></p> <p>a. Increase participation in the Environmental Stewardship Program</p>	<p>All</p>	<p>AAFM</p>	<p>AAFM</p>

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<p><b>8. Increase adoption of field agronomic practices for reducing gully and rill erosion, such as grassed waterways, strip cropping, or crop to hay conversions: *</b></p> <p><b>a. Increase workshops and targeted outreach</b></p>	<p><b>Mud Creek, St. Albans Bay and Jewett Brook(critical), Lake Champlain, LaPlatte River, Hoisington Brook</b></p>	<p>AAFM, NRCD, FNLC, FWA, LCBP</p>	<p>AAFM, LCBP</p>
<b>DEVELOPED LAND</b>			
<p><b>9. Assist all municipalities in developing a Road Erosion Inventory by 12/2020</b></p>	<p>All</p>	<p>ACRPC, CCRPC, NRPC,</p>	<p>VTrans; grant-in-aid</p>
<p><b>10. Assist municipalities in meeting the Municipal Roads General Permit: *</b></p> <p><b>a. Towns will address at least 15% of their connected non-compliant municipal road segments by 12/31/22.</b></p> <p><b>b. Towns will bring their Very High Priority segments (Paved and gravel roads with drainage ditches and paved roads with curbs and catch basins) up to standards by 12/31/25 and Class 4 Very High Priority segments up to standards by 12/31/28.</b></p>	<p>All</p>	<p>ACRPC, CCRPC, NRPC, NRCD</p>	<p>CWF: VTrans; grant-in-aid</p>
<p><b>11. Provide technical assistance to road crews on culvert replacements, and installation and road maintenance BMPs:</b></p> <p><b>a. Hold one training annually</b></p>	<p>All</p>	<p>Vermont River and Roads workshops; DEC; VTrans and county road foreman workshops, MRGP workshops</p>	

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<b>12. Promote best winter ice and snow management practices on public and private roads and parking lots by providing technical assistance</b>	All with focus on Englesby Brook, Potash Brook	LC Sea Grant, WNRCD, NRPC, CCRPC	LCBP, Watershed Grants
<b>13. Identity priority stormwater management projects</b> a. <b>Support development of a Stormwater Master Plan (SWMP) for the impervious areas draining to Keeler Bay and Georgia shoreline. Also identify contributing stormwater from other landuses as well as IDDE outcomes</b>	Keeler Bay, Georgia shoreline	FNLC, GINRCD	CWF
<b>14. Assist municipalities in meeting the April 1, 2021 deadline for development of Phosphorus Reduction Plans</b>	MS4s, Milton	NRPC, CCRPC, NRCDs	CWF, VTrans
<b>15. Support implementation of priority projects, based on cost benefit of phosphorus removal, identified in SWMPs and Phosphorus Reduction Plans</b>	Towns with stormwater master plans, PRP or similar noted in Table 14	FNLC, LCA, WNRCD, NRPC, CCRPC, LCBP	SRF, CWF, LCBP
<b>16. Encourage adoption of residential and landscaping practices by providing technical assistance and using social marketing practices</b>	All.	CCRPC, NRPC, FNLC, FNCRD, WNRCD, LCA, LC Sea Grant, LCBP, SAAWA	LCBP
<b>17. Assist landowners in managing stormwater off private roads and making progress in priority areas:</b> a. <b>Develop methods and tools to inventory private roads</b>	Priority HUC12s are identified in Table 19 or road erosion inventory results	CCRPC, NRPC, FNLC, FNCRD, WNRCD, LCA, LC Sea Grant, LCBP	LCBP

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<b>b. Complete pilot inventory for private roads</b>			
<b>18. Assist municipalities with obtaining “Three-acre” permit* coverage and making progress in priority areas</b>	Municipalities. Following lake segment by 2021: Main, Burlington, Shelburne Bay	DEC	CWSRF, CWF
<b>19. Assist schools with obtaining “Three-acre” permit* coverage and making progress in priority areas.</b>	Following lake segment by 2021: Main, Burlington, Shelburne Bay	DEC, FNLC	LCBP, CWF
<b>20. Facilitate public private partnership to improve stormwater management of large parcels that fall under the three-acre permit by conducting a pilot project</b>	Private lands, whose runoff contributes to public land stormwater issues	DEC, CCRPC, NRPC	CWF
<b>21. Ensure wastewater treatment facility (WWTF) meet their TMDL allocations and optimize phosphorus reductions through facility operations by providing financial and technical assistance to municipalities *</b>	Hinesburg (high priority), Burlington, Shelburne	DEC WID, LCBP	CWSRF, CWF, LCBP
<b>22. Assist communities in addressing inadequate individual onsite wastewater treatment on small, challenging sites through the planning and development of solutions, including community wastewater systems or innovative/alternative onsite systems in addition to use of WWTF:</b> <ul style="list-style-type: none"> <li><b>a. Continue to support Colchester’s access to State Revolving Loan Funds and related funds to support the preferred solution to documented failing septic systems in Malletts Bay,</b></li> </ul>	Interested community including Colchester, Lake Iroquois, and Champlain Islands	DEC WID, WNRCD, LCBP	CWSRF, EPA Engineering Planning Advance

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<p>which may include construction of the Malletts Bay Sewer Project.</p> <p>b. Discuss support available through the ANR Village Wastewater Solutions Initiative with one priority municipality annually.</p>			
<b>RIVERS</b>			
<p><b>23. Identify river and floodplain restoration opportunities through geomorphic assessments:</b></p> <p>a. Update existing stream geomorphic assessments where community interest exists.</p> <p>b. Develop a stream geomorphic assessment for Jewett Brook</p> <p>c. Develop Functioning Floodplain criteria</p>	<p><b>St. Albans Bay, Jewett Brook, Lake Champlain, Malletts Bay, LaPlatte River, Hoisington Brook.</b> When criteria developed, river segments meeting Functioning Floodplain criteria</p>	<p>DEC, FWD, TNC, FNLC, LCA, NRPC, FNRCD, CCRPC, LCBP,</p>	<p>CWF, LCBP, WISPr</p>
<p><b>24. Support floodplain restoration*, including nature-based floodplain restoration practices:</b></p> <p>a. Provide trainings annually</p>	<p><b>St. Albans Bay and Jewett Brook(critical), Lake Champlain, LaPlatte River (upper), Hoisington Brook, Malletts Bay</b></p>	<p>DEC, TNC, USFWS, VLT</p>	<p>CWF, USFW, WISPr</p>
<p><b>25. Support reforestation of riparian buffers*</b></p>	<p>All</p>	<p>FNRCD, WNRCD, LC Sea Grant's Watershed Forest Partnership, USFWS, VLT</p>	<p>CWF, LCBP, USFWS, Watershed grants, WISPr</p>

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<p><b>26. Support municipal efforts to increase number of geomorphologically compatible culvert and bridges:*</b></p> <p>a. Meeting with municipalities to review opportunities and assist with funding through capital budget development</p>	All	VTrans, ACRPC, NRPC, CCRPC, LCA, FNRCD, WNRCD, TNC (for AOP), USFWS (for priority AOP)	federal hazard mitigation funds, Municipalities, USFWS, VTrans grants, <a href="#">SWG</a> , <a href="#">Great Lakes Fisheries Trust</a>
<p><b>27. Remove nonfunctional dams that will result in ecological benefits where there is landowner interest</b></p>	See Table 18	VT Dam Task Force, DEC, FWD, FNRCD, USFWS (for priority AOP)	CWF, CWSRF, LCBP, USFWS, Watershed Grant
<p><b>28. Provide assistance to towns to increase adoption of local protection to protect and improve surface water quality and decrease fluvial erosion *</b></p> <p>a. Work with towns identified in Table 8</p>	See towns listed in Table 8	DEC, NRPC, CCRPC, ACRPC, LCBP	ACCD, LCBP
<b>FORESTS</b>			
<p><b>29. Provide technical and financial assistance to landowners to address erosional features on logging roads and landings. Prioritize based on contribution of erosion features to water quality impairment using ANR assessment tools*</b></p>	<b>Mill River, Malletts Creek, LaPlatte River,</b>	DFPR	RCPP, CWF
<p><b>30. Increase usage of forest skidder bridges*</b></p>	<b>Mill River, Malletts Creek, LaPlatte River</b>	DFPR,	DFPR, CWF
<p><b>31. Increase number of forest management plans that include Ecologically Sensitive Treatment Areas*.</b></p>	All	DFPR	

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<b>32. Hold workshops or provide other technical assistance to sugaring operations on AMP compliance, and benefits of adopting forest management plans.*</b>	Malletts Creek, LaPlatte, Mill River	DFPR, UVM extension	DFPR
<b>LAKESHORE</b>			
<b>33. Support community efforts to manage and control invasive species</b>	Where community interest exists	DEC, FWD, LCA, LCC, LCBP	DEC AIS Grant-in-Aid, LCBP, Watershed Grants
<b>34. Increase number of boat launch sites with stewards who provide education and outreach efforts to reduce spread of AIS</b>	All public boating accesses (8 currently exist)	DEC, LCBP, LCA	LCBP
<b>35. Hold workshops and trainings to promote lake-friendly shoreline property maintenance</b>	Lake Iroquois, Lake Champlain shoreline	DEC, FWD, LC Sea Grant, WNRCD, NRPC, LCBP	LCBP
<b>36. Stabilize eroding shorelines or gullies by addressing stormwater runoff followed by use of bioengineering techniques where necessary.</b>	Lake Iroquois, Georgia shorelines, Island shorelines and <a href="#">see VT Geologic Survey Land slide Inventories</a>	DEC, watershed and lake groups, LC Sea Grant, VYCC,	CWF, LCBP
<b>37. Promote improved maintenance of on-site wastewater systems: Conduct septic socials</b>	Lake Iroquois; Georgia shorelines, Island shorelines	DEC, WNRCD, FNLC	DEC, LCBP, LC Sea Grant,



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<b>WETLANDS</b>			
<b>38. Conserve wetlands</b>	Wetlands adjacent to WMAs for EPA funding: Black Creek, Malletts Creek and Mud Creek, Maquam.	DEC, FWD, TNC, USFWS, LCBP, FNRCD, WNRCD	EPA, USDA, RCPP, LCBP, <a href="#">Act 76</a> CWF, WISPr
<b>39. Restore wetland*.</b>	See above. Islands, Use site prioritization map to prioritize restoration sites: <a href="#">DEC RCPP Wetland Restoration Site Prioritization Map</a>	DEC, FWD, TNC, USFWS, LCBP, FNRCD, WNRCD	USDA, USFWS, RCPP, LCBP, <a href="#">Act 76</a> CWF, WISPr
<b>PROTECTION</b>			
<b>40. Support conservation easements or land purchases that protect existing condition of surface waters by protecting natural communities as well as river corridors</b>	Specific waterbodies: Trout River, Upper LaPlatte River, including Lake Iroquois and see Table 7.	Town, LIA, DFRP. LCBP	Federal town forest land program, CWSRF and WISPr, LCBP, CWF
<b>41. Provide technical support to parties interested in submitting petitions for wetlands that meet Class I criteria.</b>	Mud Creek	DEC, FWD, watershed groups	

\*With the passage of Act 76 in 2019, the Agency anticipates that CWSPs (and BWQCs) will be established in the North Lake Champlain Basin and will be actively developing and implementing non-regulatory (clean water) projects to meet LC P TMDL targets for the lake segments addressed in this plan and related high priority sub-basins and the attendant sector-based target allocations.