STATE OF VERMONT

2018

303(d) LIST OF IMPAIRED WATERS

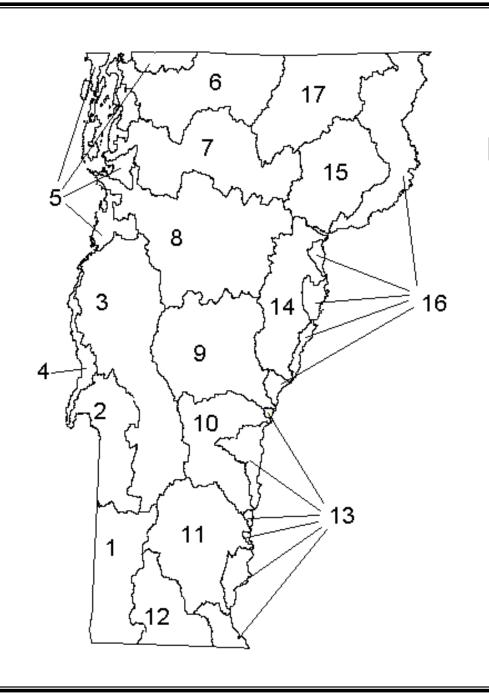
PART A - IMPAIRED SURFACE WATERS IN NEED OF TMDL

September 2018

(Approved by EPA Region 1 September 5, 2018)

Prepared by:

Vermont Department of Environmental Conservation Watershed Management Division 1 National Life Drive, Main 2 Montpelier, VT 05620-3522



Major Vermont River Basins

- 1. Battenkill
- 2. Poultney-Mettawee
- 3. Otter Creek
- 4. Lower Lake Champlain
- 5. Upper Lake Champlain
- 6. Missisquoi
- 7. Lamoille
- 8. Winooski
- 9. White
- 10. Ottauquechee
- 11. West
- 12. Deerfield
- 13. Lower Connecticut
- 14. Wells, Waits, Ompompanoosic
- 15. Passumpsic
- 16. Upper Connecticut
- 17. Lake Memphremagog

PART A – IMPAIRED WATERS IN NEED OF A TMDL (303d LIST)

Part A of the 2018 List of Waters identifies impaired surface waters where a total maximum daily load (TMDL) is required. Part A of the List has been prepared in accordance with the Vermont Surface Water Assessment and Listing Methodology, current EPA Guidance and the Environmental Protection Regulations 40 CFR 130.7. A TMDL is deemed necessary for these waters (unless remediation will be completed prior to the scheduled TMDL) in order to establish the maximum limit of a pollutant that may be introduced into the water and still ensure the Water Quality Standards are attained and maintained.

Explanation of Column Headings for Part A

<u>Waterbody ID</u> - An alphanumeric code used to spatially locate designated surface waterbodies. For example, VT01-02 and VT01-03L05 represent a river and a lake waterbody, respectively, located in Vermont river basin #01. River basin #01 includes the Batten Kill, Hoosic and Walloomsac rivers; there are 17 river basins for planning purposes identified in Vermont. A statewide map has been included that names these 17 river basins and identifies their approximate boundaries.

<u>Segment Name/Description</u> - The name of the river/stream segment or lake/pond. Entries denoted by "**" indicate newly identified impairments since the 2016 list.

<u>Pollutant(s)</u> - The pollutant or pollutants that cause a violation of the Vermont Water Quality Standards.

<u>Use(s) Impaired</u> - An indication of which designated or existing uses are impaired. The following conventions are used to represent a specific use:

AES – aesthetics FC - fish consumption

ALS - aquatic life support DWS - drinking water supply

AWS - agricultural water supply CR - contact recreation (i.e. swimming)

2CR - secondary contact recreation (fishing, boating)

<u>Surface Water Quality Problem</u> - A brief description of the problem found in the particular segment.

<u>TMDL Completion Priority</u> - An indication of priority as to when TMDLs will be completed (H=high 1-3 years, M=medium 4-8 years, L=low 8+ years).

	Lakes and Ponds	Streams and Rivers	Total
Total number of impairment entries listed in Part A:	18(4)	84 (2)	102

Number in parentheses () represents new Part A listings since the 2016 listing cycle.

Part A. Waters appearing below have documentation and data indicating impairment and do not meet VT Water Quality Standards according to the methodology described in the Vermont Surface Water Assessment and Listing Methodology. Required or needed pollution controls have yet to be fully implemented and further pollutant loading determinations (i.e. TMDLs) are necessary - unless remediation will be completed prior to the scheduled TMDL.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Pollutant(s)	Use(s) Impaired	Surface Water Quality Problem(s)	TMDL Priority
VT01-02	01	HOOSIC RIVER, ENTIRE 7 MILE LENGTH IN VERMONT	PCBs	FC	ELEVATED LEVELS OF TOXIC CONTAMINANT IN BROWN TROUT	L
	02	LADD BROOK, MOUTH TO RM 0.4	SEDIMENT	ALS	INDICATION OF SEDIMENT STRESS; POTENTIAL IMPACTS FROM ERODING GRAVEL ROADS	M
VT01-03	01	BARNEY BROOK, MOUTH TO RM 1.5	SEDIMENT, IRON	ALS, AES	DOWNSTREAM OF LANDFILL, HAZ SITE, AND CONSTRUCTED WETLANDS; SILT AND IRON PRECIPITATE CAUSING FISH/INVERT IMPACTS	M
VT01-05	01	LYE BROOK, RM 2.5 TO HEADWATERS (4.5 MILES)	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT01-06	01	BRANCH POND BROOK (POND TO ROARING BRANCH)	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
	02	FAYVILLE BRANCH, RM 3.7 TO HEADWATERS	ACID	ALS	ACIDIFICATION, ACID DEPOSITION	M
VT01-06L04		LOST POND (Sunderland)	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT02-02	01	HUBBARDTON RIVER, TRIB #7, BELOW WWTF DISCHARGE	NUTRIENTS	ALS	BENSON WWTF, AG RUNOFF POSSIBLE SOURCES; MONITORING & ASSESSMENT REQUIRED	M
VT02-03	01	CASTLETON RIVER, FAIR HAVEN	E. COLI	CR	WWTF PUMP STATION OVERFLOWS	L
VT02-05	02	UNNAMED TRIB TO INDIAN RIVER	METALS (IRON, ZINC)	ALS	PAWLET LANDFILL LEACHATE, MONITORING TO CONTINUE TO BETTER ID SOURCE LOCATION	L
	04	METTAWEE RIVER, FLOWER BROOK CONFLUENCE DOWNSTREAM 4.3 MI.	E. COLI	CR	CONSISTENTLY ELEVATED E. COLI	L
VT03-01	02	LOWER OTTER CREEK, BELOW VERGENNES WWTF (APPROX 7 MILES)	E. COLI	CR	PERIODIC & RECURRING OVERFLOWS AT PUMP STATIONS WITHIN THE COLLECTION SYSTEM	L

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VT03-05	01	OTTER CREEK, VICINITY OF RUTLAND CITY WWTF	E. COLI	CR, AES	RUTLAND CITY WWTF COLLECTION SYSTEM PASSES CSOs	L
VT03-12	02	HALNON BROOK, TRIBUTARY #1	NUTRIENTS	ALS	ELEVATED NUTRIENTS AFFECT AQUATIC BIOTA	M
VT03-14	01	EAST CREEK, MOUTH TO 0.2 MI (BELOW CSO DISCHARGE PTS #2 AND #9)	E. COLI	CR, AES	RUTLAND CITY COLLECTION SYSTEM CSO	L
	04	**TENNEY BROOK, MOUTH TO RM 1.0	UNDEFINED	ALS	FAILED BIO CRITERIA; STRESSORS INCLUDE TEMPERATURE, NUTRIENTS AND DEVELOPED LAND RUNOFF	L
VT04-01L01	01, 02, 03, 04	OTTER CREEK SECTION - LAKE CHAMPLAIN (Ferrisburg)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT04-01L02	01, 02, 03	PORT HENRY SECTION - LAKE CHAMPLAIN (Ferrisburg)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT04-02L01	01, 02	SOUTHERN SECTION - LAKE CHAMPLAIN (Bridport)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-01	01	ROCK RIVER - MOUTH TO VT/QUE BORDER (3.6 MILES)	NUTRIENTS, SEDIMENT	AES, AH	ALGAL GROWTH; AGRICULTURAL RUNOFF	M
	02	ROCK RIVER, UPSTREAM FROM QUE/VT BORDER (APPROX 13 MILES)	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF; NUTRIENT ENRICHMENT	Н
	03	SAXE BROOK (TRIB TO ROCK RIVER) FROM MOUTH UPSTREAM 1 MILE	NUTRIENTS	ALS	AGRICULTURAL RUNOFF	M
VT05-04L01	01, 02, 03	NORTHEAST ARM - LAKE CHAMPLAIN (Swanton)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-04L02	01, 02	ISLE LAMOTTE - LAKE CHAMPLAIN (Alburg)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L

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Waterbody ID	ADB Code(s)	Segment Name/ Description	Pollutant(s)	Use(s) Impaired	Surface Water Quality Problem(s)	TMDL Priority
VT05-07	01	RUGG BROOK, FROM MOUTH TO APPROX 3.1 MILES UPSTREAM	NUTRIENTS, SEDIMENT, E. COLI	ALS, CR, AES	AGRICULTURAL RUNOFF	Н
	03	JEWETT BROOK (3.5 MILES)	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF	Н
	04	MILL RIVER, FROM ST. ALBANS BAY TO 1.8 MILES UPSTREAM	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF, STREAMBANK EROSION	Н
	05	STEVENS BROOK, MOUTH UPSTREAM 6.5 MILES	NUTRIENTS, SEDIMENT, E. COLI	ALS, CR, AES	AGRICULTURAL RUNOFF; MORPHOLOGICAL INSTABILITY, ST ALBANS CSO	Н
	06	STEVENS BROOK, LASALLE ST DOWNSTREAM 0.5 MI	METALS (Cd, Ba, CN, Zn)	ALS, CR	SED CONTAMINATION FROM ST ALBANS GAS AND LIGHT HAZ WASTE SITE	L
VT05-07L01	01, 02	ST. ALBANS BAY - LAKE CHAMPLAIN (St. Albans)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-09L01	01, 02, 03	MALLETTS BAY - LAKE CHAMPLAIN (Colchester)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-10L01	01, 02, 03	BURLINGTON BAY - LAKE CHAMPLAIN (Burlington)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-10L02	01, 02	MAIN SECTION - LAKE CHAMPLAIN (South Hero)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-11	06	MCCABES BROOK, MOUTH TO RM 1.4	NUTRIENTS	ALS	INCLUDES ABOVE AND BELOW WWTF; POSSIBLE TOXIC IMPACT BELOW WWTF; UNSTABLE CHANNEL ABOVE	M
VT05-11L01	01, 02, 03	SHELBURNE BAY - LAKE CHAMPLAIN (Shelburne)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT06-04	01	BERRY BK, MOUTH UP TO AND INCLUDING NO. TRIB (APPROX. 1 MI)	SEDIMENT, NUTRIENTS	ALS, AES	AGRICULTURAL RUNOFF, AQUATIC HABITAT IMPACTS	Н

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VT06-04	02	GODIN BROOK	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF, AQUATIC HABITAT IMPACTS	Н
	03	SAMSONVILLE BROOK	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF, AQUATIC HABITAT IMPACTS	M
	04	TROUT BROOK, UPSTREAM FROM MOUTH FOR 2.3 MILES	NUTRIENTS	ALS	AGRICULTURAL RUNOFF	Н
VT06-05	02	WANZER BROOK (MOUTH TO RM 4.0)	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF	Н
VT06-08	03	MUD CREEK, FROM VT/QUE BORDER UP TO RM 6.5 (APPROX. 3.2 MILES)	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF; NUTRIENT ENRICHMENT, MACROINVERT IMPACTS	Н
	04	COBURN BROOK (MOUTH TO RM 0.2)	NUTRIENTS	ALS	AGRICULTURAL ACTIVITY AND RUNOFF	Н
	05	BURGESS BROOK, RM 4.9 TO 5.4	SEDIMENT	ALS, CR, AES	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
	06	BURGESS BROOK TRIBUTARY# 11, MOUTH TO RM 0.5	SEDIMENT	ALS, CR, AES	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
	09	SOUTH MOUNTAIN BRANCH (TRIB # 7) (2.2 MI.)	SEDIMENT	ALS	MACROINVERT. IMPACTS; POTENTIAL SEDIMENT FROM ROADS, DEVELOPMENT	M
	10	ACE BROOK, RM0.7 TO HEADWATERS (1.0 MI.)	SEDIMENT	ALS	APPARENT SEDIMENT DISCHARGES AND HYDRO CHANGE FROM LOGGING ACTIVITY	L
VT07-01	03	LAMOILLE RIVER TRIB #4, RM 0.4 TO RM 0.7	METALS	ALS	MACROINVERT IMPACTS FROM OLD MILTON LANDFILL (Pb, Zn, Cu, Fe)	M
VT07-03	01	DEER BROOK, MOUTH TO 2.5 MILES UPSTREAM	SEDIMENT	ALS	EROSION FROM STORMWATER DISCHARGES; CORRODING ROAD CULVERTS; BMPs IMPLEMENTED	M

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Waterbody ID	ADB Code(s)	Segment Name/ Description	Pollutant(s)	Use(s) Impaired	Surface Water Quality Problem(s)	TMDL Priority
VT07-03L01		**HALFMOON POND (Fletcher)	PHOSPHORUS	AES	EXTREMELY ELEVATED TP; AGRICULTURAL INFLUENCES	L
VT07-08	01	RODMAN BROOK, MOUTH TO RM 0.6	IRON	ALS, AES	IMPACTS FROM LANDFILL LEACHATE; BIO COMMUNITY IMPROVING; MONITORING TO CONTINUE	M
VT07-13	01	TRIB #10 TO BREWSTER RIVER (1 MILE)	METALS (IRON)	AES, ALS	IRON SEEPS ON STREAMBANK; BMPs IN PLACE; MACROINVERTS FAIR 2013	L
VT07-15	01	HUTCHINS BROOK, RM 2.0 TO 3.0	SEDIMENT	ALS, AES, CR	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
	02	HUTCHINS BROOK TRIBUTARY #4, MOUTH TO RM 0.3	SEDIMENT	ALS, AES, CR	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
VT08-01	01	WINOOSKI RIVER, MOUTH TO WINOOSKI DAM (~10.5 MILES)	E. COLI	CR	BURLINGTON CSOs	L
VT08-02	03	MUDDY BROOK TRIBUTARY #4 AND TRIB TO TRIB #4	CHLORIDE	ALS	ELEVATED INSTREAM CHLORIDE LEVELS	L
	08	SUNNYSIDE BROOK (TRIB #8 TO SUNDERLAND BROOK) (1.2 MI.)	CHLORIDE	ALS	CHLORIDE CRITERIA EXCEEDED; IMPACTS TO MACROINVERTS.	Н
VT08-02L01		SHELBURNE POND (Shelburne)	PHOSPHORUS	ALS, CR, 2CR	EXCESSIVE ALGAE AND NATIVE PLANT GROWTH CAUSES PERIODIC LOW D.O./FISH KILLS	L
VT08-05	01	WINOOSKI RIVER ABOVE MONTPELIER WWTF DISCHARGE	E. COLI	CR	MONTPELIER WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT08-07	01	WINOOSKI RIVER, PLAINFIELD RM 70.7 TO RM 71.4	E. COLI	CR	CONSISTENTLY ELEVATED E. COLI	L
	02	WINOOSKI RIVER, MARSHFIELD, RM 72.8 UP TO CONFLU WITH MOLLYS BROOK	E. COLI	CR	CONSISTENTLY ELEVATED E COLI, IMPAIRMENT CONTINUES UPSTREAM INTO VT08-09	L

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Waterbody ID	ADB Code(s)	Segment Name/ Description	Pollutant(s)	Use(s) Impaired	Surface Water Quality Problem(s)	TMDL Priority
VT08-08	02	**BLANCHARD BROOK, MOUTH TO RM 0.4	UNDEFINED	ALS	FAILED BIOCRITERIA; STRESSORS INCLUDE TEMPERATURE, CHLORIDE, SEDIMENT, NUTRIENTS AND DEVELOPED LAND RUNOFF	L
VT08-09	02	WINOOSKI RIVER, CABOT, CONFLUENCE MOLLYS BROOK UP TO RM 83.8	E. COLI	CR	CONSISTENTLY ELEVATED E. COLI; CONTINUATION OF DOWNSTREAM IMPAIRMENT FROM VT08-07	L
VT08-11L02	02	WATERBURY RESERVOIR (Waterbury)	SEDIMENT	ALS, AES	SEDIMENTATION, TURBIDITY	L
VT08-12	01	INN BROOK, RM 0.3 TO 0.6	IRON	ALS, AES	IRON SEEPS ORIGINATING FROM DISTURBED SOILS	L
VT08-13	01	LOWER NORTH BRANCH, WINOOSKI RIVER (APPROX 1 MILE)	E. COLI	CR	MONTPELIER WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT08-16	01	GUNNER BROOK, BELOW FARWELL ST. DUMP (APPROX 0.5 MILE)	METALS (Cu, Fe), NUTRIENTS, SEDIMENT	AES, ALS, CR	FARWELL ST. LANDFILL LEACHATE, SURFACE RUNOFF FROM DEVELOPED AREA	M
VT08-17L01		**BEAVER POND (ROXBURY)	ACID	ALS	ATMOSHHERIC DEPOSITION; EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	M
VT08-20	01	CLAY BROOK, RM 1.8 TO RM 2.3	STORMWATER, IRON	ALS, AES	STORMWATER RUNOFF, EROSION FROM CONSTRUCTION ACTIVITIES & GRAVEL PARKING LOT; INCREASED PEAK STORMWATER FLOWS	L
VT09-04	01	FIRST BRANCH WHITE RIVER, MOUTH TO RM 15.2	E. COLI	CR	CONSISTENTLY ELEVATED E.COLI	L
VT09-05	01	SECOND BRANCH WHITE RIVER, MOUTH TO RM 9.8	E. COLI	CR	CONSISTENTLY ELEVATED E. COLI	L
VT09-06	01	SMITH BROOK (MOUTH TO RM 0.3)	IRON	ALS, AES	APPARENT LEACHATE FROM ADJACENT OLD DUMP	M
	02	THIRD BRANCH WHITE RIVER, MOUTH TO RM 4.3	E. COLI	CR	CONSISTENTLY ELEVATED E. COLI	L

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Waterbody ID	ADB Code(s)	Segment Name/ Description	Pollutant(s)	Use(s) Impaired	Surface Water Quality Problem(s)	TMDL Priority
VT10-04	01	SMALL STREAM TO OTTAUQUECHEE RIVER (BRIDGEWATER)	METALS (Fe)	ALS, AES	BRIDGEWATER LANDFILL; LEACHATE ENTERING SURFACE WATER	M
VT10-06	01	ROARING BROOK, RM 3.5 TO RM 4.2	STORMWATER	AES, ALS	STORMWATER RUNOFF, LAND DEVELOPMENT; EROSION	L
	02	E. BRANCH ROARING BROOK, RM 0.1 TO RM 0.6	STORMWATER, IRON	AES, ALS	STORMWATER RUNOFF, LAND DEVELOPMENT, EROSION	L
VT10-11	01	BLACK RIVER; FROM MOUTH TO FELLOWS DAM (~ 4.6 ML)	E. COLI	CR	COMBINED SEWER OVERFLOWS	L
VT11-10	01	WEST RIVER, BELOW BALL MOUNTAIN DAM TO TOWNSHEND DAM (9 MILES)	TEMPERATURE	2CR	ELEVATED TEMPERATURES AFFECT FISHERY	L
VT11-15	03	BALL MOUNTAIN BROOK, ABOVE NORTH BRANCH CONFLUENCE	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
	04	BEAR CREEK BROOK, RM 0.7 TO HEADWATERS	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
	05	KIDDER BROOK, CONFLUENCE OF SUN BOWL BROOK TO HEADWATERS	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT12-03	01	EAST BRANCH DEERFIELD RIVER, BELOW SOMERSET DAM, 5.2 MILES	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT12-04	01	UPPER DEERFIELD RIVER, BELOW SEARSBURG DAM, 3.6 MILES	ACID	ALS	ATMOSPHERIC DEPOSITION; CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT12-05	01	NO. BRANCH DEERFIELD RIVER, TANNERY BRK RD TO 0.2 MI ABOVE SNOW LAKE	STORMWATER, TEMPERATURE	AES, ALS	STORMWATER RUNOFF, LAND DEVELOPMENT & CONSTRUCTION RELATED EROSION; INCREASED TEMP BELOW POND	L
	03	IRON STREAM, TRIB TO JACKS BROOK (0.3 MILE)	IRON	ALS	LAND DEVELOPMENT, SOURCE(S) NEED FURTHER ASSESSMENT	M

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VT12-05	06	ELLIS BROOK, MOUTH TO RM 0.5	NUTRIENTS	ALS	POSSIBLE IMPACTS FROM NBFD WWTF, AG AND CHANNEL ALTERATIONS; HIGH ALGAL COVER	М
VT13-06	01	NEAL BROOK, MOUTH TO RM 0.4	METALS	ALS	MACROINVERT. IMPACTS FROM LANDFILL DRAINAGE	E M
VT13-10	01	COMMISSARY BROOK TRIB, MOUTH TO RM 0.2	SEDIMENT	AES, ALS	BANK FAILURE AND EROSION DUE TO PAST CLAY MINING	L
VT13-13	01	CROSBY BROOK, MOUTH TO RM 0.7	SEDIMENT	ALS	HABITAT ALTERATIONS DUE TO SEDIMENTATION, CHANNELIZATION AND BUFFER LOSS	M
VT13-16	01	NEWTON BROOK, MOUTH TO RM 2.0	SEDIMENT, NUTRIENTS	ALS	AGRICULTURAL ACTIVITY	M
VT14-02	02	COPPERAS BROOK (1 MILE)	METALS, ACID	AES, ALS, CR, 2CR, FC	HIGH METALS IN DRAINAGE FROM ABANDONED ELIZABETH MINE & FROM TAILINGS PILES	L
	04	LORDS BROOK, HEADWATER TRIBUTARY #2 AND TRIB 2-TRIB 1	METALS	ALS	ABANDONED MINE DRAINAGE BELOW "SOUTH CUT" AND "SOUTH MINE"	L
VT14-03	03	SCHOOLHOUSE BROOK AND TRIBUTARY	METALS, ACID	AES, ALS	HIGH METALS IN DRAINAGE FROM ABANDONED ELY MINE	M
VT14-05	01	PIKE HILL BROOK, FROM MOUTH TO 4 MILES UPSTREAM	METALS	AES, ALS	HIGH METALS IN DRAINAGE FROM ABANDONED PIKE HILL MINE & TAILINGS	M
	02	TABOR BRANCH TRIBUTARY #6, MOUTH TO RM 0.1	UNDEFINED	ALS	AGRICULTURAL RUNOFF	M
VT14-06	01	COOKVILLE TRIB #4, RM 1.0 TO 1.7	METALS	ALS	ACID MINE DRAINAGE ASSOCIATED WITH PIKE HILL MINE	L
VT15-01	01	PASSUMPSIC RIVER, TREMONT STREET DNWSTRM 5 MILES THROUGH ST J.	E. COLI	CR	ST. JOHNSBURY WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L

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VT15-04	01	LOWER SLEEPERS RIVER IN ST. JOHNSBURY	E. COLI	CR	ST. JOHNSBURY WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT16-13L04		UNKNOWN POND (Ferdinand)	ACID	ALS	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	M
VT17-02	01	STEARNS BROOK TRIBUTARY (HOLLAND)	NUTRIENTS	ALS	AGRICULTURAL RUNOFF	M
VT17-08	01	ROARING BROOK, MOUTH TO RM 2.4	NUTRIENTS	ALS	MACROINVERT. IMPACTS FROM POSSIBLE AG RUNOFF	M
VT17-09L01		**WALKER POND (Coventry)	PHOSPHORUS	AES	EXTREMELY ELEVATED TP; AGRICULTURAL INFLUENCES	L
VT17-10L02		**MUD POND (Craftsbury)	PHOSPHORUS	AES	EXTREMELY ELEVATED TP; AGRICULTURAL INFLUENCES	L

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STATE OF VERMONT

2018

LIST OF PRIORITY SURFACE WATERS

PART B. IMPAIRED SURFACE WATERS - NO TOTAL MAXIMUM DAILY LOAD DETERMINATION REQUIRED

Vermont Department of Environmental Conservation Watershed Management Division One National Life Drive, Main 2 Montpelier, VT 05620-3522

www.watershed management.vt.gov

Overview

All waters listed in **Part B** are assessed as "impaired" and do not require development of a TMDL as described in 40 CFR 130.7. Impaired waters that do not need a TMDL are those where other pollution control requirements (such as best management practices) required by local, state or federal authority are expected to address all water-pollutant combinations and the Water Quality Standards are expected to be attained in a reasonable period of time. These waters correspond to Category 4b of EPA's Consolidated Assessment Listing Methodology.

Explanation of Column Headings

<u>Waterbody ID</u> - An alphanumeric code used to spatially locate designated surface waterbodies. For example, VT01-02 and VT01-03L05 represent a river and a lake waterbody, respectively, which are located in Vermont river basin #01. River basin #01 includes the Batten Kill, Hoosic and Walloomsac rivers; there are 17 river basins for planning purposes identified in Vermont. A statewide map has been included that names these 17 river basins and identifies their approximate boundaries.

ADB Code(s) – Assessment Database segment code used for EPA tracking purposes. If blank, Waterbody ID represents entire ADB code.

Segment Name/Description - The name of the river/stream segment or lake/pond.

<u>Pollutant(s)</u> - The pollutant or pollutants that cause a violation of the Vermont Water Quality Standards (VTWQS).

<u>Use(s) Impaired</u> - An indication of which designated or existing uses are impaired. The following conventions are used to represent a specific use:

AES - aesthetics

ALS or AH - aquatic life (biota and/or habitat) support

AWS - agricultural water supply

2CR - secondary contact recreation (fishing, boating)

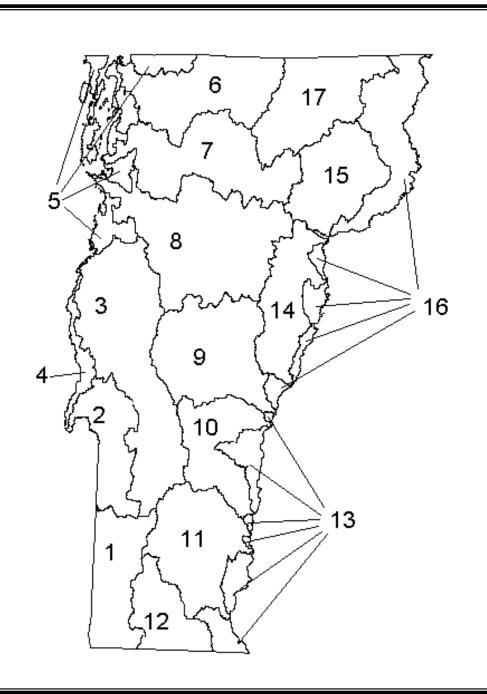
FC - fish consumption

DWS - drinking water supply

CR - contact recreation (i.e. swimming)

<u>Surface Water Quality Problem(s)</u> - A brief description of the problem found in the particular segment.

Rationale - A narrative summary explaining why a TMDL determination is not needed to correct the specific impairment



Major Vermont River Basins

- 1. Battenkill
- 2. Poultney-Mettawee
- 3. Otter Creek
- 4. Lower Lake Champlain
- 5. Upper Lake Champlain
- 6. Missisquoi
- 7. Lamoille
- 8. Winooski
- 9. White
- 10. Ottauquechee
- 11. West
- 12. Deerfield
- 13. Lower Connecticut
- 14. Wells, Waits, Ompompanoosic
- 15. Passumpsic
- 16. Upper Connecticut
- 17. Lake Memphremagog

Part B. Waters appearing below have documentation and data indicating impairment and do not meet VT Water Quality Standards. However, according to USEPA Listing Guidance, these waters do not require a TMDL because other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters.

Waterbody	ADB	Segment Name/	Pollutant(s)	Use(s)	Surface Water
ID	Code(s)	Description		Impaired	Quality Problem(s)
VT05-10L01	04	BURLINGTON BAY - LAKE CHAMPLAIN - PINE STREET BARGE CANAL (Burlington)	PRIORITY & NONPRIORITY ORGANICS, METALS, OIL, GREASE, PCBs	ALS, CR, 2CR	CONTAM'N FROM COAL TAR IN SEDIMENTS OF PINE ST BARGE CANAL (SITE #770042)

No TMDL is necessary for this impairment as authority and legal means are available and in place to address the source of impairment. The authority and legal means that are available to DEC and the US EPA are considered sufficient to attain Water Quality Standards in the future. DEC authority is under 10 VSA 6603 and 6610a. US EPA authority is CERCLA (42 USC section 9601 - 9675).

The Pine Street Barge Canal Coordinating Council (PSBC Council) is overseeing implementation of the May 1998 Cleanup Plan. Cleanup Plan was reviewed and approved by EPA. Personnel from DEC's Hazardous Materials Division participate with and serve on the Council.

This is an EPA Superfund site designated under CERCLA. There are legal requirements in place that apply to the source of the pollutants contributing to the impairment. The performance standards identified in the Statement of Work are sufficient to remediate the problem and are consistent with VT Water Quality Standards when implementation of the remediation/clean-up plan is complete.

An extensive water quality monitoring plan is in-place to track effectiveness of pollution controls implemented and compliance with VT Water Quality Standards.

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Part B. Waters appearing below have documentation and data indicating impairment and do not meet VT Water Quality Standards. However, according to USEPA Listing Guidance, these waters do not require a TMDL because other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters.

Waterbody	ADB	Segment Name/	Pollutant(s)	Use(s)	Surface Water
ID	Code(s)	Description		Impaired	Quality Problem(s)
VT06-08	07	SOUTH MOUNTAIN BRANCH, TRIBUTARY #3 (MOUTH TO RM 0.5)	SEDIMENT	ALS	EROSION FROM PARKING AREAS AND ON-MOUNTAIN ACTIVITIES

No TMDL is necessary as DEC has the authority and legal means available to eliminate the sources causing this impairment. The authority and legal means that are available to DEC are sufficient to attain WQS and enable DEC to utilize enforcement authority as it exists under 10 VSA 1272.

The South Mountain Branch is a tributary Jay Branch and is located in the town of Jay. The streams within the watershed are managed as Class B waters, with cold water fishery. South Mountain Branch, Tributary #3 enters the South Mountain Branch at about RM 2.3, and drains the south side of Jay Peak mountain and portions of the Stateside lodge and parking area.

Based on biomonitoring conducted by Jay Peak Resort (JPR) and VTDEC that was initiated in 2011, Tributary #3 to South Mountain Branch shows noncompliance with VTWQS biocriteria. Indications from habitat assessments and water quality monitoring, impacts due to sediment appear to be the primary stressor. As reported in the 2012 update of the water quality remediation plan prepared for JPR, multiple problematic sediment sources have been identified as potential sites for remedial measures.

VTDEC issued a follow-up \$1272 Order in 2014 to have JPR revisit the original WQRP and identify, prioritize and implement an additional suite of remedial actions to be completed in two years. Additionally, as a result of private party appeals of several stormwater permits in 2014, JPR entered into a settlement agreement that establishes WQS compliance dates with interim targets, a mechanism by which additional BMPs are implemented and a monitoring plan.

Watershed BMP implementation has continued in this watershed over the past several years, but the biomonitoring conducted in 2016 and 2017 failed to show compliance with the VTWQS. Tributary #3 to South Mountain Branch continues to remain impaired. According to the WQRP, large-scale BMPs will be scheduled to be implemented in the watershed and biomonitoring will continue for the next several years to track the stream condition.

VT07-01 01 LOWER LAMOILLE RIVER FROM CLARKS FALLS LOW D.O. ALS 3 DAMS (CLARKS, MILTON, PETERSON) CREATE D.O. DAM TO ROUTE 2 BRIDGE (6 MILES) PROBLEMS DOWNSTREAM

No TMDL is necessary for this impaired segment as DEC has the authority and legal means available to address the dissolved oxygen (D.O.) problem found below the Clarks Falls hydroelectric facility. The authority and legal means that are available to DEC are sufficient to attain Water Quality Standards in the near future.

A new federal license for the Lamoille River Hydroelectric Project was issued in June 2005. Articles 407 and 408 address post-licensing water quality monitoring and D.O. enhancement, respectively. The new license provides for conservation flows that may improve the D.O. regime sufficiently to obviate the need for specific mechanical enhancements, such as turbine aspiration. FERC approved the licensee's water quality monitoring and dissolved oxygen enhancement plan on December 5, 2006, although the licensee elected to initiate sampling in Summer 2006. Because of higher than normal flows in 2006, sampling continued in 2007. Conditions were again somewhat atypical in 2007 because the Milton Station was off line, resulting in highly reoxygenated flows entering Peterson impoundment. Consequently, the Department has asked CVPS to continue sampling in summer 2008 before it determines whether there is sufficient data to conclude that the post-licensing operational changes have achieved compliance with the Water Quality Standards. If the data indicates that standards are not being met, the licensee must propose and implement enhancement measures.

Currently, sufficient data has not been collected to make a final WQS determination; however, the operational changes have occurred to address the potential low dissolved oxygen condition.

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Part B. Waters appearing below have documentation and data indicating impairment and do not meet VT Water Quality Standards. However, according to USEPA Listing Guidance, these waters do not require a TMDL because other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters.

Waterbody	ADB	Segment Name/	Pollutant(s)	Use(s)	Surface Water
ID	Code(s)	Description		Impaired	Quality Problem(s)
VT08-02	07	UNNAMED TRIB TO WINOOSKI RIVER	METALS (Fe)	ALS	SO. BURLINGTON LANDFILL LEACHATE ENTERING SURFACE WATER

No TMDL is necessary for this impairment as DEC has the authority and legal means available to address the source causing this particular impairment. The authority and legal means that are available to DEC are sufficient to attain Water Quality Standards.

This is a small stream that is pumped around the South Burlington Landfill. Leachate-contaminated seeps at the base of the landfill have in the past drained into a wetland area connected to the stream. Currently, curtain drains are in place and leachate is pumped, collected and transported to a permitted wastewater treatment facility. The landfill facility was ordered by DEC to be closed with capping. Capping occurred in 1992. The facility has a post-closure court order requiring water quality monitoring and maintenance of the site. Water quality sampling is conducted semiannually to determine effectiveness of treatment. Water quality improvement is expected over time as water quality treatment and site management continues. Through 2017, surface water quality sampling locations indicate that iron concentrations remain above the VTWOS for the protection of aquatic biota.

VT08-08 01 MUDDY BROOK (0.1 MILE) METALS (Fe) ALS CV LANDFILL: LEACHATE ENTERING SURFACE WATER

No TMDL is necessary for this impairment as DEC has the authority and legal means available to address the source causing this particular impairment. The authority and legal means available to DEC are sufficient to attain Water Quality Standards and have been implemented.

This is a small stream that flows around the Central Vermont Landfill. Until summer 2001, leachate had entered the stream from seeps located along the side slopes of the landfill. The Landfill was ordered by DEC to be closed and capped in 1993. Due to the slumping of the capping soils in 2001, the original clay cap was removed, the landfill was re-graded and a synthetic cap was installed along with a new toe drain and gas collection system. The landfill facility has a post-closure court order requiring water quality monitoring and maintenance of the site. Currently the amount of water collected in the drains is significantly less than previously reported. Through October 2015. monitoring data continues to show sporadic but inconsistent compliance with the VTWQS. However, of the four samples collected in 2016 and 2017, iron only exceed the WOS criteria once.

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Part B. Waters appearing below have documentation and data indicating impairment and do not meet VT Water Quality Standards. However, according to USEPA Listing Guidance, these waters do not require a TMDL because other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters.

Waterbody	ADB	Segment Name/	Pollutant(s)	Use(s)	Surface Water
ID	Code(s)	Description		Impaired	Quality Problem(s)
VT08-12	04	WEST BRANCH LITTLE RIVER, RM 7.5 TO 8.0	UNDEFINED	ALS	IMPACTS TO MACROINVERT. COMMUNITY; POTENTIAL SOURCES INCLUDE HYDROLOGIC MODIFICATION, SEDIMENT, LOW pH

No TMDL is necessary for this impairment as VTDEC has the authority and legal means available to address the source causing this particular impairment. The authority and legal means that are available to DEC are sufficient to attain Water Quality Standards.

The mid-upper reaches of the West Branch Little River, located in the town of Stowe, Vermont, is a small, cold water, Class B stream and drains the eastern reaches of Mt Mansfield. Much of the mid-upper reaches of the stream receive, either directly or through tributaries, runoff from the developed areas of the Stowe Mountain Resort (SMR).

The Agency placed the reach between rivermile (RM) 7.5 and 8.0 of West Branch Little River on Part C of the 2002 Vermont List of Priority Waters, thereby identifying it as in need of further assessment to determine compliance with the VTWQS. The site has been re-evaluated with each subsequent biennial listing cycle, with consistently marginal attainment. In 2012, based on biomonitoring data collected between 2008 - 2011, the Agency determined that the West Branch Little River from RM7.5 to RM8.0 was no longer in compliance with the VTWQS for aquatic life support due to undefined stresses.

Through comments submitted during the draft 303(d) List comment period, SMR proposed it take a series of steps to: 1) investigate potential sources contributing to the impairment, 2) develop and prioritize actions to remediate the problematic areas, and 3) implement the necessary actions to remediate the water quality impairment. On May 3, 2012, DEC issued an order pursuant to 10 V.S.A. §1272 ordering SMR to: 1) by May 30, 2012, conduct a field investigation, develop or improve existing hydrologic models and submit recommendations to eliminate the identified impairment, and 2) by September 30, 2012, complete approved remediation measures and submit proposed monitoring plan for approval.

In late 2012, all agreed upon BMP measures were completed by SMR and biomonitoring results from 2012 also indicated compliance with the VTWQS for a single year. However, subsequent biomonitoring in 2014 reveled a slight decrease in water quality from 2012 to just below levels of compliance. Monitoring continued in 2015 and 2016 with similar results at both RM 7.5 and RM 8.0 and that sediment and possibly hydrologic stress (high flows) continue to limit the aquatic biota from attaining compliance. Additional assessments to identify potential new BMPs should be considered in light of the most recent monitoring results.

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Part B. Waters appearing below have documentation and data indicating impairment and do not meet VT Water Quality Standards. However, according to USEPA Listing Guidance, these waters do not require a TMDL because other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters.

Waterbody	ADB	Segment Name/	Pollutant(s)	Use(s)	Surface Water
ID	Code(s)	Description		Impaired	Quality Problem(s)
VT08-16	02	TRIB (#23) TO STEVENS BR, BELOW WIILIAMSTOWN WWTF OUTFALL (0.5 MI)	NUTRIENTS	ALS	TREATED EFFLUENT DISCHARGE TO SMALL RECV'ING WATER

No TMDL is necessary as DEC has the authority and legal means available to address the municipal source causing this impairment. The authority and legal means that are available to DEC are sufficient to attain WQS. DEC has NPDES discharge permitting authority under the delegation agreement with EPA. Delegation of NPDES permitting authority means that DEC has adequate authority and legal mechanisms to execute enforcement. Authority to order correction resides within 10 VSA 1272.

Recent biological monitoring downstream of the discharge in 2002 and 2005 indicates considerably improved invertebrate and fish communities, at times exceeding minimum criteria. Sampling in 2010 showed a slight decline in macroinvertebrate community composition as compared to immediately upstream. However, as a result of a VTDEC wastewater facility inspection in 2009, a project to remove sludge in the lagoon and completely replace the aerations systems was scheduled. The project work was completed after the 2010 biomonitoring.

Future biomonitoring will indicate the effectiveness of the lagoon upgrade work.

In 2015 and 2016, planning at the Williamstown WWTF proposes to move the discharge outfall out of the small tributary (#23) to the larger Stevens Branch directly. This redirection of the outfall should eliminate the impairment in the tributary while maintaining water quality in the Stevens Branch. The outfall relocation occurred in December 2016. Follow-up monitoring will need to be conducted to verify that the impairment has been eliminated; however, biomonitoring conducted in 2015 (pre-outfall relocation) showed compliance with the biocriteria so there is high confidence that post-relocation monitoring will show consistently improving water quality and compliance with the WQS.

VT11-15 06 NO. BRANCH, BALL MTN BROOK, STRATTON MANGANESE AES CONTRIBUTIONS/RELEASES OF REDUCED Mn FROM RESERVOIR SEDIMENT COATING STREAM SUBSTRATE ("BLACK ROCKS")

Conditions created by the installed diversion around the pond have resulted in an elimination of the problematic Mn discharge. Staining of the substrate is no longer occurring. Historical staining from previous Mn discharge remains but no further remediation actions are necessary or planned.

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STATE OF VERMONT

2018

LIST OF PRIORITY SURFACE WATERS

PART D. IMPAIRED SURFACE WATERS WITH COMPLETED AND APPROVED TMDLs

Vermont Department of Environmental Conservation Watershed Management Division One National Life Drive, Main 2 Montpelier, VT 05620-3522

www.watershedmanagement.vt.gov

Overview

All waters identified on **Part D** are assessed as impaired and have completed and approved TMDLs in place. If future assessments show the impairment has been eliminated, the water will no longer be tracked on Part D. These waters correspond to Category 4a of EPA's Consolidated Assessment Listing Methodology.

Explanation of Column Headings

<u>Waterbody ID</u> - An alphanumeric code used to spatially locate designated surface waterbodies. For example, VT01-02 and VT01-03L05 represent a river and a lake waterbody, respectively, that is located in Vermont river basin #01. River basin #01 includes the Batten Kill, Hoosic and Walloomsac rivers; there are 17 river basins for planning purposes identified in Vermont. A statewide map has been included that names these 17 river basins and identifies their approximate boundaries.

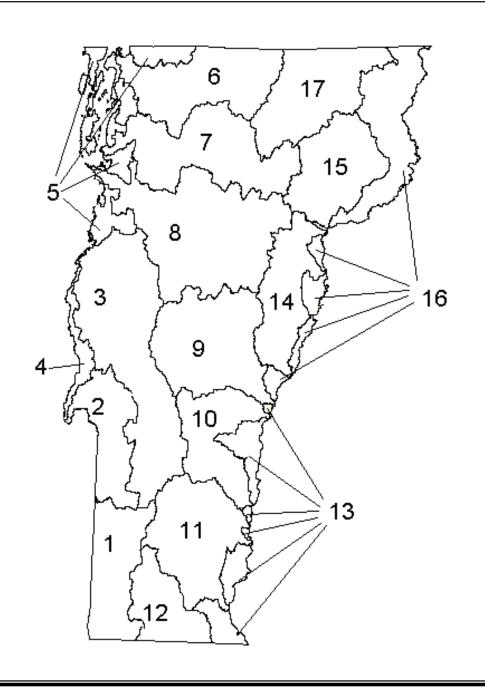
Name - The name of the river/stream segment or lake/pond.

ADB Code(s) – Assessment Database segment code used for EPA tracking purposes. If blank, Waterbody ID represents entire ADB code.

Pollutant - The pollutant for which the TMDL was completed.

<u>Previously Identified Problem</u> - A brief description of the water quality problem associated with the particular segment.

Status – Gives the TMDL information and the date of EPA approval.



Major Vermont River Basins

- 1. Battenkill
- 2. Poultney-Mettawee
- 3. Otter Creek
- 4. Lower Lake Champlain
- 5. Upper Lake Champlain
- 6. Missisquoi
- 7. Lamoille
- 8. Winooski
- 9. White
- 10. Ottauquechee
- 11. West
- 12. Deerfield
- 13. Lower Connecticut
- 14. Wells, Waits, Ompompanoosic
- 15. Passumpsic
- 16. Upper Connecticut
- 17. Lake Memphremagog

Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT01-05L01		BOURN POND (Sunderland)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT01-05L10	1	LITTLE MUD (Winhall)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 20, 2004
VT01-05L11		LYE BROOK - N (Sunderland)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT01-05L12		LYE BROOK - S (Sunderland)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT01-06L01		BRANCH POND (Sunderland)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT01-06L02		BEEBE POND (Sunderland)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 20, 2004

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT02-01	01, 02	POULTNEY RIVER, MOUTH UPSTRM TO CARVERS FALLS (10.4 MILES)	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT02-05	03	FLOWER BROOK, MOUTH TO RM 0.5	E. COLI	ELEVATED E. COLI MONITORING RESULTS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-01	01	OTTER CREEK, MOUTH OF MIDDLEBURY RIVER TO PULP MILL BRIDGE (4.0 MI)	E. COLI	AGRICULTURAL RUNOFF, POSSIBLE FAILED SEPTIC SYSTEMS, MIDDLEBURY CSOs	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-01	02	LOWER OTTER CREEK, MOUTH UPSTREAM TO VERGENNES DAM (APPROX 7.6 MILES)	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT03-06	01	MOON BROOK, MOUTH TO RM 2.9 (INCLUDING MUSSEY BROOK)	STORMWATER	STORMWATER RUNOFF; EROSION	EPA APPROVED TMDL FEBRUARY 19, 2009
VT03-06	01	MOON BROOK, RM 1.8 TO RM 2.9	TEMPERATURE	ELEVATED INSTREAM TEMPERATURES; IMPOUNDMENTS AND LACK OF SHADING	Thermal TMDL completed by VTDEC and approved by EPA Region 1, May 2018
VT03-06	02	MUSSEY BROOK, UPSTREAM FROM MOUTH TO RM1.2	STORMWATER	STORMWATER RUNOFF; EROSION	EPA APPROVED TMDL (as part of Moon Bk. TMDL) FEBRUARY 19, 2009
VT03-06	02	MUSSEY BROOK, RM 0.1 TO RM 0.5	TEMPERATURE	ELEVATED INSTREAM TEMPERATURES. TROUT AVOIDANCE OF STREAM REACHES	Thermal TMDL completed by VTDEC and approved by EPA Region 1, May 2018

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT03-07	01	LITTLE OTTER CREEK, MOUTH UPSTRM TO FALLS/LEDGE WEST RT 7 (CIRCA 1 MI)	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE; FISH PRESENT ONLY SEASONALLY; EXTREMELY LOW #s	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT03-07	01, 03	LITTLE OTTER CREEK, MOUTH TO RM 7.8	E. COLI	ELEVATED E. COLI MONITORING RESULTS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-07	02	LITTLE OTTER CREEK, RM 15.4 TO RM 16.4	E. COLI	AGRICULTURAL RUNOFF	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-08	01	LEWIS CREEK, PARSONAGE BRIDGE RD (LCR19.5) TO COVERED BRDG (LCR7.3)	E. COLI	AGRICULTURAL RUNOFF	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-08	02	POND BROOK, FROM LEWIS CREEK CONFLUENCE UPSTREAM (1.5 MILES)	E. COLI	AGRICULTURAL RUNOFF	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-09	01	LOWER DEAD CREEK, FROM MOUTH UPSTREAM (APPROX 3 MILES)	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT03-11L01		NORTH POND (Bristol)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT03-11L02		GILMORE POND (Bristol)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT03-12	01	MIDDLEBURY RIVER, FROM MOUTH UPSTREAM 2 MILES	E. COLI	AGRICULTURAL RUNOFF, LIVESTOCK, POSSIBLE FAILED SEPTIC SYSTEMS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT03-14L03		CHITTENDEN RESERVOIR (Chittenden)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT03-18L02		GRIFFITH LAKE (Peru)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT03-18L03		BIG MUD POND (Mt. Tabor)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT03-18L06		LONG HOLE (Mt. Tabor)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT03-18L07		LITTLE MUD (Mt. Tabor)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT04-01L01	01, 02, 03, 04	OTTER CREEK SECTION - LAKE CHAMPLAIN (Ferrisburg)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT04-01L01	01, 02, 03, 04	OTTER CREEK SECTION - LAKE CHAMPLAIN (Ferrisburg)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT04-01L02	01, 02, 03	PORT HENRY SECTION - LAKE CHAMPLAIN (Ferrisburg)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT04-01L02	01, 02, 03	PORT HENRY SECTION - LAKE CHAMPLAIN (Ferrisburg)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT04-02L01	01, 02	SOUTHERN SECTION (A) - LAKE CHAMPLAIN (Bridport)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT04-02L01	01, 02	SOUTHERN SECTION - LAKE CHAMPLAIN (Bridport)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT04-04L05	01, 02	SOUTHERN SECTION (B) - LAKE CHAMPLAIN (Bridport)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT05-01L01	01, 02	MISSISQUOI BAY - LAKE CHAMPLAIN (Alburg)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-01L01	01, 02	MISSISQUOI BAY - LAKE CHAMPLAIN (Alburg)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-02L01	01, 02, 03, 04	LAKE CARMI (Franklin)	PHOSPHORUS	ALGAE BLOOMS	EPA APPROVED TMDL APRIL 13, 2009
VT05-04L01	01, 02, 03	NORTHEAST ARM - LAKE CHAMPLAIN (Swanton)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-04L01	01, 02, 03	NORTHEAST ARM - LAKE CHAMPLAIN (Swanton)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-04L02	01, 02	ISLE LAMOTTE - LAKE CHAMPLAIN (Alburg)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-04L02	01,02	ISLE LAMOTTE - LAKE CHAMPLAIN (Alburg)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-07	02	RUGG BROOK, RM 3.1 TO RM 5.3	STORMWATER	STORMWATER RUNOFF	EPA APPROVED TMDL FEBRUARY 19, 2009

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT05-07	07	STEVENS BROOK, RM 6.5 (PEARL ST) TO RM 9.3	STORMWATER	STORMWATER RUNOFF, EROSION/SEDIMENTATION, MORPHOLOGICAL INSTABILITY	EPA APPROVED TMDL FEBRUARY 19, 2009
VT05-07L01	01, 02	ST. ALBANS BAY - LAKE CHAMPLAIN (St. Albans)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-07L01	01, 02	ST. ALBANS BAY - LAKE CHAMPLAIN (St. Albans)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-09	01	INDIAN BROOK, RM 5.8 (SUZIE WILSON RD) TO RM 9.8	STORMWATER	STORMWATER RUNOFF, LAND DEVELOPMENT, EROSION	EPA APPROVED TMDL AUGUST 21, 2008
VT05-09	02	DIRECT SMALLER DRAINAGES TO INNER MALLETTS BAY	E. COLI	URBAN RUNOFF, POTENTIAL FAILED/FAILING SEPTIC SYSTEMS; INCLUDES SMITH HOLLOW BROOK & CROOKED CREEK	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT05-09L01	01, 02, 03	MALLETTS BAY - LAKE CHAMPLAIN (Colchester)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-09L01	01, 02, 03	MALLETTS BAY - LAKE CHAMPLAIN (Colchester)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-10	01	ENGLESBY BROOK	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT05-10	01	ENGLESBY BROOK, MOUTH TO RM 1.3	STORMWATER	STORMWATER RUNOFF, BLANCHARD BEACH CLOSURE	EPA APPROVED TMDL SEPTEMBER 30, 2007
VT05-10L01	01, 02, 03	BURLINGTON BAY - LAKE CHAMPLAIN (Burlington)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-10L01	01, 02, 03, 04	BURLINGTON BAY - LAKE CHAMPLAIN (Burlington)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-10L02	01, 02	MAIN SECTION - LAKE CHAMPLAIN (South Hero)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-10L02	01, 02	MAIN SECTION - LAKE CHAMPLAIN (South Hero)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-11	01	MUNROE BROOK, MOUTH TO RM 2.8 (INCLUDING NORTH TRIB.)	STORMWATER	STORMWATER RUNOFF, EROSION, LAND DEVELOPMENT	EPA APPROVED TMDL AUGUST 21, 2008
VT05-11	02	BARTLETT BROOK, MOUTH TO RM 0.7	STORMWATER	STORMWATER RUNOFF, LAND DEVELOPMENT, EROSION	EPA APPROVED TMDL SEPTEMBER 30, 2007
VT05-11	03	POTASH BROOK	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT05-11	03, 07	POTASH BROOK, MOUTH TO RM 5.2	STORMWATER	STORMWATER RUNOFF, LAND DEVELOPMENT, EROSION	EPA APPROVED TMDL DECEMBER 19, 2006
VT05-11	04	LAPLATTE RIVER, AT MOUTH	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT05-11	04, 08	LAPLATTE RIVER FROM HINESBURG TO MOUTH (10.5 MILES)	E. COLI	AGRICULTURAL RUNOFF	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT05-11	05	MUD HOLLOW BROOK, FROM MOUTH TO 3 MILES UPSTREAM	E. COLI	AGRICULTURAL RUNOFF, STREAMBANK EROSION	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT05-11L01	01, 02, 03	SHELBURNE BAY - LAKE CHAMPLAIN (Shelburne)	PHOSPHORUS	P ENRICHMENT	EPA APPROVED LAKE CHAMPLAIN PHOSPHORUS TMDL JUNE 2016
VT05-11L01	01, 02, 03	SHELBURNE BAY - LAKE CHAMPLAIN (Shelburne)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT06-01	01	MISSISQUOI RIVER, MOUTH UPSTRM TO SWANTON DAM (APPROX 8 MILES)	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT06-04	01	BERRY BROOK, MOUTH UP TO AND INCLUDING N. TRIB (APPROX. 1 MILE)	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT06-04	02	GODIN BROOK	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT06-04	03	SAMSONVILLE BROOK	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT06-06L01		KINGS HILL POND (Bakersfield)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT07-01	01, 02	LAMOILLE RIVER, MOUTH TO CLARKS FALLS DAM (8.5 MILES)	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT07-03L03	01, 02	ARROWHEAD MOUNTAIN LAKE (Milton)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT07-13L02		LAKE-OF-THE-CLOUDS (Cambridge)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT08-01	01	WINOOSKI RIVER, MOUTH TO WINOOSKI DAM	MERCURY	ELEVATED LEVELS OF Hg IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT08-02	01	ALLEN BROOK	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT08-02	01	ALLEN BROOK, RM 2.4 TO RM 5.0 (Talcott Rd)	STORMWATER	STORMWATER RUNOFF, LAND DEVELOPMENT; EROSION	EPA APPROVED TMDL AUGUST 21, 2008
VT08-02	04	SUNDERLAND BROOK, RM 3.5 (RT. 7) TO RM 5.3	STORMWATER	STORMWATER RUNOFF, LAND DEVELOPMENT; EROSION	EPA APPROVED TMDL AUGUST 21, 2008
VT08-02	05	CENTENNIAL BROOK, MOUTH TO RM 1.2	STORMWATER	STORMWATER RUNOFF, LAND DEVELOPMENT; EROSION	EPA APPROVED TMDL SEPTEMBER 30, 2007
VT08-02	06	MOREHOUSE BROOK, MOUTH TO RM 0.6	STORMWATER	STORMWATER RUNOFF, EROSION	EPA APPROVED TMDL SEPTEMBER 30, 2007
VT08-09		WINOOSKI RIVER - CABOT VILLAGE	E. COLI	RESIDENTIAL DIRECT DISCHARGES &/OR FAILED SEPTIC SYSTEMS	EPA APPROVED TMDL MARCH 8, 2001
VT08-10	01	HUNTINGTON RIVER, VICINITY OF BRIDGE STREET IN HUNTINGTON	E. COLI	ELEVATED E. COLI LEVELS DETECTED AT SEVERAL SAMPLING STATIONS	EPA APPROVED TMDL SEPTEMBER 30, 2011

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT08-18	01	MAD RIVER, MOUTH TO MORETOWN (6.2 MILES)	E. COLI	POSIBLE FAILING SEPTIC SYSTEMS AND OTHER UNKNOWN SOURCES; ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT09-07L01		SKYLIGHT POND (Ripton)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 20, 2004
VT11-08L01		SUNSET LAKE (Marlboro)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT11-15	02	STYLES BROOK (2 MILES)	SEDIMENT	LAND DEVELOPMENT, HYDROLOGIC MODIFICATION	EPA APPROVED TMDL JUNE21, 2002
VT11-15L01		FORESTER POND (Jamaica)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT11-15L02	:	LITTLE POND (Winhall)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 20, 2004

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ADI ID Cod		Pollutant	Previously Identified Problem	Status
VT11-16L01	STRATTON POND (Stratte	on) ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT11-17 01	WEST RIVER, APPROX 1 BELOW TO 0.5 MILE ABO LONDONDERRY		POSSIBLE SEPTIC SYSTEM DISCHARGES	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT11-18L06	MOSES (Weston)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT12-01L01	HARRIMAN RESERVOIR (Whitingham)	R MERCURY	ELEVATED LEVEL OF MERCURY IN ALL FISH EXCEPT BROWN BULLHEAD	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-01L04	SHERMAN RESERVOIR	(Whitingham) MERCURY	ELEVATED LEVEL OF MERCURY IN ALL FISH EXCEPT BROWN BULLHEAD	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-02L02	HOWE POND (Readsboro)) ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT12-02L03	STAMFORD POND (Stam	aford) ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT12-03	01	EAST BRANCH DEERFIELD RIVER, BELOW SOMERSET DAM	MERCURY	ELEVATED LEVELS OF Hg IN ALL FISH	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-03L01		GROUT POND (Stratton)	MERCURY	ELEVATED LEVEL OF MERCURY IN ALL FISH EXCEPT BROWN BULLHEAD	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-03L01		GROUT POND (Stratton)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT12-03L02	2	SOMERSET RESERVOIR (Somerset)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT12-03L02	2	SOMERSET RESERVOIR (Somerset)	MERCURY	ELEVATED LEVEL OF MERCURY IN ALL FISH EXCEPT BROWN BULLHEAD	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-04	01	UPPER DEERFIELD RIVER, BELOW SEARSBURG DAM	MERCURY	ELEVATED LEVELS OF Hg IN ALL FISH	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-04L01		ADAMS RESERVOIR (Woodford)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT12-04L02		LOST POND (Glastenbury)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 20, 2004
VT12-04L04		LITTLE POND (Woodford)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT12-04L05		SEARSBURG RESERVOIR (Searsburg)	MERCURY	ELEVATED LEVEL OF MERCURY IN ALL FISH EXCEPT BROWN BULLHEAD	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT12-05	02	NO. BRANCH, DEERFIELD RIVER, VICINITY OF WEST DOVER	E. COLI	HIGH E.COLI LEVELS; CAUSE(S) & SOURCE(S) UNKNOWN; NEEDS ASSESSMENT	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT12-05L01		HAYSTACK POND (Wilmington)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT12-07L01		SOUTH POND (Marlboro)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003
VT13-14	01	WHETSTONE BROOK - BRATTLEBORO	E. COLI	SOURCES UNKNOWN, POTENTIALLY FAULTY SEWER LINE/SEPTIC SYSTEM	EPA APPROVED TMDL SEPTEMBER 30, 2011

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name	Pollutant	Previously Identified Problem	Status
VT13-16L01		LILY POND (Vernon)	ACID	ATMOSPHERIC DEPOSITION; EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	TMDL APPROVED BY USEPA REGION 1 ON SEPTEMBER 27, 2012
VT14-03	01	OMPOMPANOOSUC RIVER, USACOE BEACH AREA TO BRIMSTONE CORNER (9.8 MI)	E. COLI	ELEVATED E. COLI LEVELS	EPA APPROVED TMDL SEPTEMBER 30, 2011
VT14-07L01		LEVI POND (Groton)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 20, 2004
VT14-07L02		TICKLENAKED POND (Ryegate)	PHOSPHORUS	ALGAE BLOOMS, HIGH pH, LOW D.O.; MANURE RUNOFF	EPA APPROVED TMDL NOVEMBER 30, 2009
VT16-04L01		MOORE RESERVOIR (Waterford)	MERCURY	ELEVATED LEVELS OF MERCURY IN ALL FISH	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT16-05L01		COMERFORD RESERVOIR (Barnet)	MERCURY	ELEVATED LEVELS OF MERCURY IN ALL FISH	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007
VT16-11L01		UNKNOWN POND (Averys Gore)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003

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Part D. Waters in this section are assessed as impaired and have completed and EPA-approved TMDLs.

Waterbody ID	ADB Code(s)	Name		Previously Identified Problem	Status	
VT17-01L01	01, 02	LAKE MEMPHREMAGOG (Newport)	PHOSPHORUS	EXCESSIVE ALGAE GROWTH, NUTRIENT ENRICHMENT	Total phosphorus TMDL was completed by VTDEC and approved by EPA Region 1, September 2017	
VT17-02L06		DUCK POND (Holland)	ACID	ATMOSPHERIC DEPOSITION: EXTREMELY SENSITIVE TO ACIDIFICATION; EPISODIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003	
VT17-03L03		HALFWAY POND (Norton)	ACID	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	EPA APPROVED TMDL SEPTEMBER 30, 2003	
VT17-04L04	01, 02, 03	LAKE SALEM (Derby)	MERCURY	ELEVATED LEVELS OF MERCURY IN WALLEYE	EPA APPROVED REGIONAL MERCURY TMDL ON DECEMBER 20, 2007	

2018 Part D List of Waters - Final Page 17 of 17

STATE OF VERMONT

2018

LIST OF PRIORITY SURFACE WATERS

PART E. SURFACE WATERS ALTERED BY AQUATIC INVASIVE SPECIES

Vermont Department of Environmental Conservation Watershed Management Division One National Life Drive, Main 2 Montpelier, VT 05620-3522

www.watershedmanagement.vt.gov

Overview

Waters appearing in **Part E** are assessed as "altered." They represent situations to be given priority for management where aquatic habitat and/or other designated uses are not supported due to the presence of invasive aquatic species. These waters correspond to Category 4c of EPA's Consolidated Assessment Listing Methodology.

Explanation of Column Headings

<u>Waterbody ID</u> - An alphanumeric code used to spatially locate designated surface waterbodies. For example, VT01-02 and VT01-03L05 represent a river and a lake waterbody, respectively, which are located in Vermont river basin #01. There are 17 river basins for planning purposes identified in Vermont. A statewide map has been included that names these 17 river basins and identifies their approximate boundaries.

<u>Segment Name/Description</u> - The name of the river/stream segment or lake/pond.

<u>Use(s) Impacted</u> - An indication of which designated or existing uses are impacted by invasive aquatic species. The following conventions are used to represent a specific use:

AES - aesthetics

ALS or AH - aquatic life (biota and/or habitat) support

AWS - agricultural water supply

2CR - secondary contact recreation (fishing, boating)

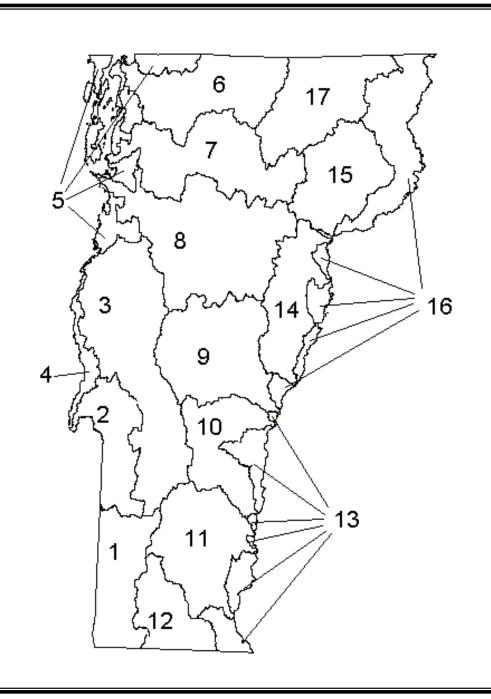
FC - fish consumption

DWS - drinking water supply

CR - contact recreation (i.e. swimming)

<u>Surface Water Quality Problem</u> - A brief description of the type of invasive aquatic species affecting the segment.

<u>Current Status/Management or Control Activity</u> - An indication of the current status of the problem and/or any recent or on-going management or control efforts.



Major Vermont River Basins

- 1. Battenkill
- 2. Poultney-Mettawee
- 3. Otter Creek
- 4. Lower Lake Champlain
- 5. Upper Lake Champlain
- 6. Missisquoi
- 7. Lamoille
- 8. Winooski
- 9. White
- 10. Ottauquechee
- 11. West
- 12. Deerfield
- 13. Lower Connecticut
- 14. Wells, Waits, Ompompanoosic
- 15. Passumpsic
- 16. Upper Connecticut
- 17. Lake Memphremagog

Part E. Waters appearing below are altered by aquatic invasive species. These are priority waters for management action.

Waterbody ID	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status/Management or Control Activity
VT01-03L05	PARAN, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-01	LOWER POULTNEY RIVER	AES, ALS, CR, 2CR	LOCALLY ABUNDANT WC GROWTH.	
VT02-02L04	BURR POND (SUDBURY)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-02L05	HORTONIA, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-02L06	BLACK POND (HUBBARDTON)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-03L01	ECHO LAKE (HUBBARDTON)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-03L02	BEEBE POND (HUBBARDTON)	AES, ALS, CR, 2CR	ABUNDANT EWM GROWTH.	
VT02-03L05	BOMOSEEN, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH, ZM AND AC ALSO PRESENT.	
VT02-05L01	LILY POND (POULTNEY)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-05L02	LITTLE POND (WELLS)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT02-05L03	ST. CATHERINE, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT03-04L04	FERN LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT03-04L05	DUNMORE, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	
VT03-06L01	BEAVER POND (Proctor)	AES, ALS, CR, 2CR	ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT03-07L01	VERGENNES WATERSHED (Bristol)	AES, ALS, CR, 2CR	ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT03-08L02	CEDAR LAKE	AES, ALS, CR, 2CR	ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT03-10L01	RICHVILLE POND	AES, ALS, CR, 2CR	ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT03-17L01	STAR LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.

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Part E. Waters appearing below are altered by aquatic invasive species. These are priority waters for management action.

Waterbody ID	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status/Management or Control Activity
VT04-01L01	CHAMPLAIN, LAKE - OTTER CREEK	AES, ALS, CR, 2CR	EWM, ZM, AND WC INFESTATION.	ACTIVE HAND-PULLING EFFORTS FOR WATER CHESTNUT. ZM ARE UBIQUITOUS.
VT04-01L02	CHAMPLAIN, LAKE - PORT HENRY	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	NO ACTIVE MANAGEMENT. ZM ARE UBIQUITOUS.
VT04-02	WHITNEY CREEK	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM AND WC GROWTH.	ACTIVE HAND-PULLING EFFORTS FOR WATER CHESTNUT.
VT04-02L01	CHAMPLAIN, LAKE - SOUTH LAKE	AES, ALS, CR, 2CR	EWM, ZM, AND WC INFESTATION.	ACTIVE MECHANICAL HARVESTING AND HAND-PULLING EFFORTS FOR WATER CHESTNUT. ZM ARE UBIQUITOUS.
VT04-03	EAST CREEK, ORWELL	AES, ALS, CR, 2CR	LOCALLY ABUNDANT WC GROWTH.	ACTIVE HAND-PULLING EFFORTS FOR WATER CHESTNUT.
VT05-01L01	CHAMPLAIN, LAKE - MISSISQUOI BAY	AES, ALS, CR, 2CR	EWM, VLM, ZM, AND WC INFESTATION.	ACTIVE HAND-PULLING EFFORTS FOR WATER CHESTNUT. ZM ARE UBIQUITOUS.
VT05-02L01	CARMI, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES MECHANICAL HARVESTING EFFORTS.
VT05-04L01	CHAMPLAIN, LAKE - NORTHEAST ARM	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	NO ACTIVE MANAGEMENT. ZM ARE UBIQUITOUS.
VT05-04L02	CHAMPLAIN, LAKE - ISLE LAMOTTE	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	SOME MECHANICAL HARVESTING OF ALL NUISANCE VEGETATION. ZM ARE UBIQUITOUS.
VT05-07L01	CHAMPLAIN, LAKE - ST. ALBANS BAY	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	SOME MECHANICAL HARVESTING OF ALL NUISANCE VEGETATION. ZM ARE UBIQUITOUS.
VT05-09L01	CHAMPLAIN, LAKE - MALLETS BAY	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	NO ACTIVE MANAGEMENT. ZM ARE UBIQUITOUS.
VT05-09L02	INDIAN BROOK RESERVOIR (ESSEX)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	HERBICIDES PREVIOUSLY USED TO CONTROL EWM.
VT05-10L01	CHAMPLAIN, LAKE - BURLINGTON BAY	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	NO ACTIVE MANAGEMENT. ZM ARE UBIQUITOUS.

2018 Part E List of Waters - Final

Part E. Waters appearing below are altered by aquatic invasive species. These are priority waters for management action.

Waterbody ID	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status/Management or Control Activity
VT05-10L02	CHAMPLAIN, LAKE - MAIN LAKE	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	NO ACTIVE MANAGEMENT. ZM ARE UBIQUITOUS.
VT05-11L01	CHAMPLAIN, LAKE - SHELBURNE BAY	AES, ALS, CR, 2CR	EWM AND ZM INFESTATION.	NO ACTIVE MANAGEMENT. ZM ARE UBIQUITOUS.
VT05-11L02	IROQUOIS, LAKE	AES, ALS, CR, 2CR	ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES HERBICIDES, DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT06-05L01	METCALF POND	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT06-05L02	FAIRFIELD SWAMP POND	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT06-05L03	FAIRFIELD POND	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT07-03L03	ARROWHEAD MOUNTAIN LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	LOCALLY ABUNDANT GROWTH. NO ACTIVE MANAGEMENT.
VT07-08L02	ELMORE, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT08-02L01	SHELBURNE POND	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT10-01L01	DEWEYS MILL POND	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES BENTHIC BARRIERS AND HAND-PULLING.
VT10-02L03	PINNEO, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	MANAGEMENT PLAN PROPOSED THAT INCLUDES HERBICIDES.
VT12-01L02	SADAWGA POND	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT13-02	CONNECTICUT RIVER (HOYT'S LANDING, WILDER DAM, TRANSCANADA LAUNCH)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.
VT13-08L01	MILL POND (WINDSOR)	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	NO ACTIVE MANAGEMENT.

2018 Part E List of Waters - Final

Part E. Waters appearing below are altered by aquatic invasive species. These are priority waters for management action.

Waterbody ID	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status/Management or Control Activity
VT14-03L01	FAIRLEE, LAKE	AES, ALS, CR. 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES HERBICIDES, DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT16-20L01	MOREY, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES HERBICIDES, DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT17-04L05	DERBY LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT17-07L01	WILLOUGHBY, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES DOSH, BENTHIC BARRIERS, AND HAND-PULLING.
VT17-10L01	ELIGO, LAKE	AES, ALS, CR, 2CR	LOCALLY ABUNDANT EWM GROWTH.	ONGOING MANAGEMENT PLAN THAT INCLUDES DOSH, BENTHIC BARRIERS, AND HAND-PULLING.

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STATE OF VERMONT

2018

LIST OF PRIORITY SURFACE WATERS

PART F. SURFACE WATERS ALTERED BY FLOW REGULATION

Vermont Department of Environmental Conservation Watershed Management Division One National Life Drive, Main 2 Montpelier, VT 05620-3522

www.watershedmanagement.vt.gov

Overview

Waters appearing in **Part F** of the Vermont Priority Waters List are assessed as "altered." They represent priority management situations where aquatic habitat and/or other designated uses have been altered by flow regulation. Alterations arise from flow fluctuation, obstructions, or other manipulations of water levels that originate from hydroelectric facilities, dam operations or water withdrawals for industrial or municipal water supply or snowmaking purposes. These waters correspond to Category 4c of EPA's Consolidated Assessment Listing Methodology.

Explanation of Column Headings

<u>Waterbody ID</u> - An alphanumeric code used to spatially locate designated surface waterbodies. For example, VT01-02 and VT01-03L05 represent a river and a lake waterbody, respectively, which are located in Vermont river basin #01. There are 17 river basins for planning purposes identified in Vermont. A statewide map that names these 17 river basins and identifies their approximate boundaries has been referenced earlier.

Segment Name/Description - The name of the river/stream segment or lake/pond.

<u>Use(s) Impacted</u> - An indication of which designated or existing uses are impacted by flow alteration. The following conventions are used to represent a specific use:

AES - aesthetics

ALS or AH - aquatic life (biota and/or habitat) support

AWS - agricultural water supply

2CR - secondary contact recreation (fishing, boating)

FC - fish consumption

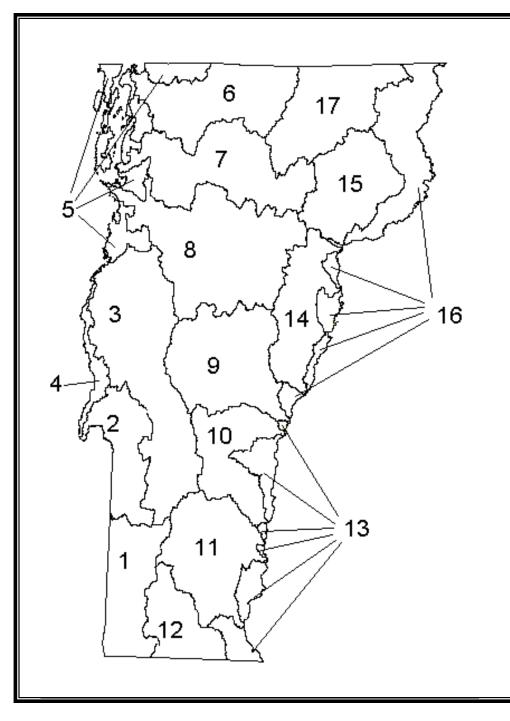
DWS - drinking water supply

CR - contact recreation (i.e. swimming)

<u>Surface Water Quality Problem</u> - A brief description of the type of flow regulation problem affecting the segment. Situations with a threat to water quality are so noted.

<u>Current Status/Management or Control Activity</u> - An indication of current situation and/or recent or on-going management or control efforts.

<u>Projected WQS Compliance Year</u> - For those entries altered by flow regulation and that are associated with hydropower production, the year of facility compliance with the Vermont Water Quality Standards is provided as a projection (estimate).



Major Vermont River Basins

- 1. Battenkill
- 2. Poultney-Mettawee
- 3. Otter Creek
- 4. Lower Lake Champlain
- 5. Upper Lake Champlain
- 6. Missisquoi
- 7. Lamoille
- 8. Winooski
- 9. White
- 10. Ottauquechee
- 11. West
- 12. Deerfield
- 13. Lower Connecticut
- 14. Wells, Waits, Ompompanoosic
- 15. Passumpsic
- 16. Upper Connecticut
- 17. Lake Memphremagog

Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
VT01-03	02	BASIN BROOK	ALS	POSSIBLE LACK OF MINIMUM FLOW BELOW WATER SUPPLY WITHDRAWAL POINT	WSID #5017 - NORTH BENNINGTON WATER DEPT; SERVES AS BACK UP SUPPLY SOURCE TO GRAVEL WELL FIELD. PERMIT DOWN TO 3.0 MGD FROM 4.0 MGD	
	03	BOLLES BROOK/ROARING BRANCH, INTAKE TO CITY STREAM CONFLUENCE	ALS	POSSIBLE LACK OF MINIMUM FLOW BELOW WATER SUPPLY WITHDRAWAL POINT	WSID #5016 - BENNINGTON WATER DEPT; ASSESSMENT OF WATER WITHDRAWAL IMPACT DIFFICULT GIVEN LOW PRODUCTIVITY & LOW pH	
VT01-05		HOPPER BROOK	ALS	ARTIFICIAL FLOW REGIME AND CONDITION BY HYDRO OPERATIONS MAY ALTER AQUATIC HABITAT	UNLICENSED HYDROELECTRIC PROJECT	2022
VT01-05L02		LAKE MADELEINE	ALS	WATER LEVEL FLUCTUATION ALTERS AQUATIC HABITAT	UNLICENSED HYDRO FACILITY	2022
VT02-03	02	LAKE BOMOSEEN OUTLET STREAM (0.4 MI)	ALS	FLOW FLUCTUATION AND NO MINIMUM FLOW BELOW THE LAKE BOMOSEEN DAM USED TO MANAGE WATER LEVEL	WATER LEVELS REQUIRED BY WATER RESOURCES BOARD ISSUED MAY 1983	
VT03-04	01	LEICESTER RIVER, FROM DAM ON LAKE DUNMORE TO 1.0 MILE DOWNSTREAM	ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BY HYDRO	UNLICENSED FACILITY	2019
	01	LEICESTER RIVER, FROM SALISBURY DAM TO 5 MILES DOWNSTREAM	ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BY HYDRO	UNLICENSED FACILITY	2019
	01		ALS	POSSIBLE DOWNSTREAM FISH PASSAGE PROBLEM AT DAM (THREAT)	UNLICENSED FACILITY	2019
VT03-04L05		LAKE DUNMORE (Salisbury)	ALS	WATER LEVEL MGMT BY HYDRO ALTERS AQUATIC BIOTA	LAKE ASSOC. HAS WATER LEVEL AGREEMENT W/GMP	2019
VT03-12	03	SOUTH BRANCH, MIDDLEBURY RIVER (1.4 MILES)	ALS	ARTIFICIAL FLOW CONDITION, INSUFFICIENT FLOW BELOW SNOW BOWL SNOWMAKING WATER WITHDRAWAL	PARTIAL SUPPORT 1.4 MI (6.0 MI TOTAL LENGTH)	
VT03-14	02	EAST CREEK, CHITTENDEN RESERVOIR TO 4 MILES DOWNSTREAM	ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BY DAM; ONLY LOCAL DRAINAGE BELOW	UNLICENSED FACILITY	2020

2018 Part F List of Waters - Final Page 1 of 9

Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
	02	EAST CREEK, FROM GLEN DAM TO 3.0 MILES DOWNSTREAM	ALS	POSSIBLE FISH PASSAGE PROBLEM AT DAM (THREAT)	UNLICENSED FACILITY	2020
	02		ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BY HYDRO	UNLICENSED FACILITY	2020
	02	EAST CREEK, FROM PATCH DAM TO 2.4 MILES DOWNSTREAM	ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BY HYDRO	UNLICENSED FACILITY	2020
	02		ALS	POSSIBLE FISH PASSAGE PROBLEM AT DAM (THREAT)	UNLICENSED FACILITY	2020
	03	MENDON BROOK (3.3 MILES)	ALS	ARTIFICIAL FLOW CONDITION, INSUFFICIENT FLOW BELOW PICO SNOWMAKING WATER WITHDRAWAL	PARTIAL SUPPORT 3.3 MI (6.9 MI TOTAL LENGTH)	2021
		TRIB TO EAST CREEK, HYDRO FACILITY TO EAST CK CONFLUENCE	ALS	LOW DO DOWNSTREAM OF HYDRO FACILITY	UNLICENSED FACILITY	2020
VT03-14L03		CHITTENDEN RESERVOIR (Chittenden)	ALS	WATER LEVEL FLUCTUATION BY HYDRO ALTERS AQUATIC BIOTA & WETLANDS	UNLICENSED FACILITY	2020
VT03-14L05		PATCH POND (Rutland)	ALS	WATER LEVEL FLUCTUATIONS MAY ALTER AQUATIC BIOTA	UNLICENSED FACILITY	2020
VT06-01	03	MISSISQUOI RIVER, BELOW HIGATE FALLS TO LOWER SWANTON DAM (7.3 MI)	ALS	ARTIFICIAL FLOW FLUCTUATING AND CONDITION BY HYDROPOWER PRODUCTION	FERC LICENSE EXPIRES IN 2024	
	02, 03	MISSISQUOI RIVER, SHELDON SPRINGS PROJECT TO LOWR SWANTON DAM (15.5MI)	ALS, 2CR	ARTIFICIAL FLOW FLUCTUATING AND CONDITION BY HYDROPOWER PRODUCTION	FERC LICENSE EXPIRES 2024	
VT06-02	01	MISSISQUOI RIVER, BELOW ENOSBURG FALLS DAM (0.1 MILE)	ALS	ARTIFICIAL FLOW REGULTATION & CONDITION BY HYDRO	FERC LICENSE EXPIRES IN 2023	2023

2018 Part F List of Waters - Final Page 2 of 9

Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	WQS Compliance Year
VT06-04		STANHOPE BROOK	ALS	POSSIBLE LACK OF MINIMUM FLOW BELOW WATER SUPPLY WITHDRAWL POINT	RICHFORD WATER SUPPLY	
VT06-08	08	JAY BRANCH (4.7 MILES)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW JAY PEAK SNOWMAKING WATER WITHDRAWAL	PARTIAL SUPPORT 4.7 MI (8.7 MI TOTAL LENGTH); JAY PEAK EVALUATING EXPANSION/ALTERNATIVES	
VT07-04	01	MID-LAMOILLE RIVER, IMMED. BELOW CADYS FALLS DAM (0.3 MILES)	AES	ARTIFICIAL DEWATERING OF FALLS BY HYDRO	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
	01		ALS	POSSIBLE FISH PASSAGE PROBLEM AT DAM; LACK OF FLOWS TO SUPPORT AQUATIC HABITAT	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
VT07-07		LAMOILLE RIVER - HARDWICK LAKE TO LAKE LAMOILLE IN MO'VILLE (15.7 MI)	AES, ALS	WOLCOTT DAM: IMPOUNDMENT WATER LEVEL FLUCTUATION BY HYDRO IMPAIRS AQUATIC HABITAT; EROSION (THREAT)	UNLICENSED FACILITY	2024
			ALS	WOLCOTT DAM: POSSIBLE FISH PASSAGE PROBLEM AT DAM (THREAT)	UNLICENSED FACILITY	2024
			ALS	POSSIBLE FISH PASSAGE PROBLEM AT DAMS (THREAT)		2024
			AES, ALS, 2CR	HARDWICK LAKE DAM: ARTIFICIAL FLOW REGIME DOWNRIVER		2024
			AES, ALS, 2CR	BELOW MORRISVILLE DAM: NO FLOW IN BYPASS IMPAIRS AESTHETICS, RECREATION, HABITAT	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
			AES, ALS, 2CR	WOLCOTT DAM: ARTIFICIAL & POOR FLOW REGIME DOWNSTREAM (THREAT)	UNLICENSED FACILITY	2024
VT07-07L01		LAKE LAMOILLE (Morristown)	ALS	WATER LEVEL FLUCT'N BY HYDRO MAY ALTER AQUATIC HABITAT	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
VT07-08	02	ELMORE POND BROOK-FROM DAM TO 2.2 MILES DOWNSTREAM	ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BY DAM	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018

Projected

2018 Part F List of Waters - Final Page 3 of 9

Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
VT07-08L02		LAKE ELMORE (Elmore)	ALS	WATER LEVEL FLUCT'N BY HYDRO MAY ALTER AQUATIC HABITAT	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
VT07-13	02	UNNAMED BROOK, TRIB TO BREWSTER RIVER (1 MILE)	ALS	ARTIFICIAL FLOW CONDITION, INSUFFICIENT FLOW BELOW MORSE RESERVOIR, USED FOR DOMESTIC WATER	NON-SUPPORT 1.0 MI (2.7 MI TOTAL LENGTH); DOMESTIC WATER USE	
VT07-18	01	GREEN RIVER, DOWNSTREAM FROM RESERVOIR 4.7 MILES	ALS	ARTIFICIAL FLOW REGIME AND CONDITION BY HYDRO OPERATIONS ALTERS AQUATIC HABITAT	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
VT07-18L03		GREEN RIVER RESERVOIR	ALS	WATER LEVEL FLUCTUATION AND WINTER DRAWDOWN ALTERS AQUATIC HABITAT	APPLICANT APPEALED SECTION 401 WQ CERT.; ENVIRONMENTAL COURT HEARING SCHEDULED FOR EARLY 2018	2018
VT07-21L05		HARDWICK LAKE (Hardwick)	AES, ALS, 2CR	WATER LEVEL FLUCT'N BY HYDRO ALTERS AQUATIC HABITAT & WETLANDS	NO LONGER MANAGED FOR HYDRO; LAKE DRAINED DURING FALL WINTER FOR ICE CONTROL	2024
VT08-04	01	JOINER BROOK (2.9 MILES)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW BOLTON VALLEY SNOWMAKING WATER WITHDRAWAL	NON-SUPP 2.9 MI (5.7 MI TOTAL LENGTH)	
VT08-05	02	WINOOSKI RIVER AT MIDDLESEX #2 DAM	AES	ARTIFICIAL DEWATERING OF BYPASS BY HYDRO	UNLICENSED FACILITY	2022
	02	WINOOSKI RIVER, IMPOUNDMENT OF MIDDLESEX #2 HYDRO (2 MILES)	AES, ALS	WATER LEVEL FLUCTUATION BY HYDRO CAUSES IMPOUNDMENT STREAMBANK EROSION	UNLICENSED FACILITY	2022
VT08-06	01	TYLER BRK (O.1 MI) & MERRIAM BRK (0.1 MI), THATCHER BROOK TRIBS	ALL USES	ARTIFICIAL & INADEQUATE FLOW CONDITION BELOW WATERBURY VILLAGE PUBLIC WATER SUPPLY WITHDRAWAL POINT	WSID #5284 - WATERBURY VILLAGE WATER	
VT08-09	01	MOLLYS FALLS BROOK (2 MILES)	ALL USES	ARTIFICIAL FLOW CONDITION CREATED BY HYDRO; BYPASSES ONE OF VT'S HIGHEST WATERFALLS. ELEVATED DOWNSTREAM TEMPS.	UNLICENSED FACILITY; OWNER FILING APPLICATION FOR CERTIFICATE OF PUBLIC GOOD WITH PUC IN EARLY 2018 TO REPAIR SPILLWAY AT THE MOLLYS FALLS DAM	2018
	01	SUCKER BROOK BELOW PEACHAM POND (1 MILE)	ALL USES	ARTIFICIAL FLOW REGULATION & CONDITION BELOW HYDRO DAM	UNLICENSED FACILITY; OWNER FILING APPLICATION FOR CERTIFICATE OF PUBLIC GOOD WITH PUC IN EARLY 2018 TO REPAIR SPILLWAY AT THE MOLLYS FALLS DAM	2018

2018 Part F List of Waters - Final Page 4 of 9

Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Complianc Year
VT08-09L03		PEACHAM POND (Peacham)	ALS	WATER LEVEL FLUCT'N BY HYDRO-RELATED DAM MAY ALTER AQUATIC HABITAT	UNLICENSED FACILITY; OWNER FILING APPLICATION FOR CERTIFICATE OF PUBLIC GOOD WITH PUC IN EARLY 2018 TO REPAIR SPILLWAY AT THE MOLLYS FALLS DAM	2018
VT08-09L05		MOLLYS FALLS RESERVOIR (Cabot)	ALS, CR, 2CR	WATER LEVEL FLUCT'N BY HYDRO ALTERS AQUATIC HABITAT & RECREATION	UNLICENSED FACILITY; OWNER FILING APPLICATION FOR CERTIFICATE OF PUBLIC GOOD WITH PUC IN EARLY 2018 TO REPAIR SPILLWAY AT THE MOLLYS FALLS DAM	2018
VT08-11	01	LOWER LITTLE RIVER BELOW HYDRO DAM (2.6 MILES)	ALL USES	ARTIFICIAL FLOW REGIME IN THE WINTER	NEW TURBINE RUNNER AND BYPASS FLOW VALVE WILL BE OPERATIONAL IN MAY 2018; WINTER DRAWDOWN WILL CONTINUE UNTIL TANNER GATES ARE REPLACED	2022
/T08-11L02		WATERBURY RESERVOIR (Waterbury)	ALL USES	WINTER DRAWDOWN ALTERS ALL USES	NEW TURBINE RUNNER AND BYPASS FLOW VALVE WILL BE OPERATIONAL IN MAY 2018; WINTER DRAWDOWN WILL CONTINUE UNTIL TANNER GATES ARE REPLACED	2022
VT08-16	03	BENJAMIN FALLS BROOK (POND BROOK) FROM BERLIN POND TO MOUTH	ALS, AES	ARTIFICIAL DEWATERING OF BROOK BY MONTPELIER & BERLIN WATER SUPPLY WITHDRAWALS	WSID #5272	
/T08-20	02	MILL BROOK (2.1 MILES)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW MAD RIVER GLEN SNOWMAKING WATER WITHDRAWAL	PARTIAL SUPPORT 2.1 MI (5.9 MI TOTAL LENGTH)	
	03	SLIDE BROOK (0.8 MILE)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW MT. ELLEN SNOWMAKING WATER WITHDRAWAL	NON-SUPPORT 0.8 MI (3.4 MI TOTAL LENGTH)	
/T09-06	03	LOWER FLINT BROOK	ALS	ARTIFICIAL FLOW REGULATION; POSSIBLE LACK OF MINIMUM FLOW BELOW FISH HATCHERY WITHDRAWAL	ACOE 404 AND SECTION 401 WQ CERT NEEDED FOR HATCHERY INTAKE. FLOW STUDY UNDERWAY.	
VT10-01	01	LOWER OTTAUQUECHEE RIVER, BELOW NO. HARTLAND DAM (0.9 MILE)	AES, ALS, 2CR	ARTIFICIAL FLOW REGULATION & CONDITION	FLOW REGULATION LARGELY CONTROLLED BY HYDRO FACILITY. FERC LICENSE EXPIRES IN 2021	2021

2018 Part F List of Waters - Final Page 5 of 9

Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
VT10-01	02	LOWER OTTAUQUECHEE RIVER, BELOW OTTAUQUECHEE WOOLEN MILL DAM (0.1 MI)	AES	ARTIFICIAL FLOW CONDITION, DEWATERING OF FALLS BY HYDRO		2032
VT10-02L01		NORTH HARTLAND RESERVOIR (Hartland)	ALS, 2CR	ANNUAL WATER LEVEL FLUCTUATIONS ALTER AQUATIC HABITAT	DAM NOW USED FOR HYDROPOWER; OPERATED UNDER FERC LICENSE EXPIRING IN 2021	2021
VT10-13	01	BLACK RIVER, BELOW NORTH SPRINGFIELD RESERVOIR (3.7 MILES)	ALS	ARTIFICIAL FLOW REGULATION & CONDITION BY DAM	USACOE DAM; NO CONSERVATION FLOW BASED ON ANY BIOLOGICAL/WQ CRITERIA	
VT10-13L02		NORTH SPRINGFIELD RESERVOIR (Springfield)	ALS	WATER LEVEL FLUCTUATION ALTERS AQUATIC HABITAT	USACOE DAM; NO CONSERVATION FLOW BASED ON ANY BIOLOGICAL/WQ CRITERIA	
VT10-16L03		STOUGHTON POND (Weathersfield)	ALS	WATER LEVEL FLUCTUATION ALTERS AQUATIC HABITAT	USACOE DAM; NO CONSERVATION FLOW BASED ON ANY BIOLOGICAL/WQ CRITERIA	
VT11-07	02, 07	WEST RIVER, MOUTH TO GRASSY BROOK (12 MILES)	AH, 2CR	WIDE SHALLOW CHANNEL, LOSS OF RIPARIAN VEGETATION, USACOE DAM OPERATION		
VT11-08	01	STICKNEY BROOK (2.5 MILES)	ALS, 2CR	ARTIFICIAL FLOW CONDITION, SEASONALLY DEVOID OF FLOW BELOW DIVERSION DAM; DREDGING	WSID # 5290 - BRATTLEBORO WATER DEP'T; WATER SUPPLY RESERVOIR ABOVE DAM	
VT11-10	01	WEST RIVER, BELOW BALL MTN DAM TO TOWNSHEND DAM IMPOUNDMENT (9 MILES)	ALL USES	ARTIFICIAL FLOW REGIME AT DAM	NO MINIMUM FLOW BY USACE BASED ON ANY BIOLOGICAL/WQ CRITERIA. STRUCTURAL STUDY COMPLETE, NO ACTION PLANNED	
	02	WEST RIVER, TOWNSHEND DAM TO GRASSY BROOK	AH, 2CR	USACE DAM OPERATION, IMPOUNDED WATERS RELEASE RESULTS IN ELEVATED TEMPS		
VT11-10L01		BALL MOUNTAIN RESERVOIR (Jamaica)	AES, ALS	WATER LEVEL FLUCTUATION ALTERS AQUATIC HABITAT	NO MINIMUM FLOW BY USACE BASED ON ANY BIOLOGICAL/WQ CRITERIA. STRUCTURAL STUDY COMPLETE, NO ACTION PLANNED	

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Part F. Waters appearing below are altered by flow regulation. These are priority waters for management action.

Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
VT11-10L01		BALL MOUNTAIN RESERVOIR (Jamaica)	ALS	UP & DOWNSTREAM FISH PASSAGE AT DAM - ESP. DIADROMOUS	DOWNSTREAM PASSAGE PROVIDED THROUGH FISH PASSAGE FACILITIES; UPSTREAM PASSAGE NOT PROVIDED; ACOE NOT OPERATING TRAP AT TOWNSHEND DAM	
VT11-10L02		TOWNSHEND RESERVOIR (Townshend)	ALS	WATER LEVEL FLUCTUATION ALTERS AQUATIC HABITAT	USACOE DAM; NO CONSERVATION FLOW BASED ON ANY BIOLOGICAL/WQ CRITERIA	
VT11-16	02	MILL BROOK (1.6 MILES)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW BROMLEY SNOWMAKING WATER WIHDRAWAL	PARTIAL SUPPORT 1.6 MI (8 MI TOTAL LENGTH)	
	03	TRIB TO MILL BROOK (2.2 MILES)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW BROMLEY SNOWMAKING WATER WITHDRAWAL	NON-SUPPORT 0.7 MI, PARTIAL SUPPORT 1.5 MI (2.5 MI TOTAL LENGTH).	
VT11-18L01		HAPGOOD POND (Peru)	ALS	ANNUAL DRAWDOWNS ALTER AQUATIC HABITAT		
VT12-01	01	LOWER DEERFIELD RIVER BELOW HARRIMAN RESERVOIR (3.5 MILES)	ALS	LOW TEMPERATURE HYPOLIMNETIC WATER RELEASE FROM RESERVOIR	401 CERTIFICATION ISSUED (1/95); FERC LICENSE ISSUED (4/97); DFW EVALUATING THE EFFECTS OF RELEASE	
VT12-05	07	COLD BROOK (0.58 MILES)	ALS	ARTIFICIAL & INSUFFICIENT FLOW BELOW HERMITAGE SNOWMAKING WITHDRAWAL	COMPLIANCE SCHEDULE ESTABLISHED AS PART OF ACT 250 PROCESS TO BRING THE WITHDRAWAL INTO COMPLIANCE	
VT13-01		CT RIVER, WILDER DAM TO ASCUTNEY VILLAGE (20.5 MILES)	ALS	ARTIFICIAL FLOW CONDITION, FLUCTUATING FLOWS ASSOCIATED WITH HYDROPOWER PRODUCTION	FERC LICENSE EXPIRES IN 2018	2020
VT13-02		CT RIVER, ABOVE BELLOWS FALLS DAM (21.5 MILES)	ALS	WATER LEVEL FLUCTUATION AT DAM; DEWATERED SHORELINES/WETLANDS	FERC LICENSE EXPIRES IN 2018	2020
		CT RIVER, ABOVE BELLOWS FALLS DAM, SPRINGFIELD	AES, ALS	RESERVOIR WATER LEVEL FLUCTUATION AT DAM; DESTABIL/ERODING STREAMBANKS	OBSERVED IMPACTS TO "SKITCHEWAUG" ARCHEOLOGICAL SITE; SITE RIP-RAPPED; FERC LICENSE EXPIRES IN 2018	2020
VT13-03		CT RIVER, BELOW BELLOWS FALLS DAM (24 MILES)	ALS	ARTIFICIAL FLOW CONDITION, FLUCTUATING FLOWS BY HYDROPOWER PRODUCTION	FERC LICENSE EXPIRES IN 2018	2020
VT13-04		CT RIVER, ABOVE VERNON DAM	ALS	WATER LEVEL FLUCTUATION AT DAM; DEWATERED SHORELINE/WETLANDS	FERC LICENSE EXPIRES IN 2018	2020

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Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
VT13-05		CT RIVER, BELOW VERNON DAM (5.5 MILES)	ALS	ARTIFICIAL FLOW CONDITION, FLUCTUATING FLOWS BY HYDROPOWER PRODUCTION	FERC LICENSE EXPIRES IN 2018	2020
VT13-10		ELLIS BROOK, FARR (?) BROOK BELOW MINARDS POND	ALS	POSSIBLE LACK OF MINIMUM FLOW BELOW WATER SUPPLY WITHDRAWAL POINT (THREAT)	WSID #5298 - BELLOWS FALLS WATER DEPT	
VT14-04	01	WAITS RIVER, BELOW BRADFORD DAM (0.3 MILE)	AES, ALS	ARTIFICIAL FLOW CONDITION, POOR FLOW REGIME IN DAM'S BYPASS SEGMENT	FERC EXEMPTION	2022
VT14-07	01	WELLS RIVER, BELOW DAM AT BOLTONVILLE (0.4 MI)	AES, ALS, 2CR	ARTIFICIAL FLOW CONDITION, POOR FLOW AND PHYSICAL ALTERATIONS IN HYDROELECTRIC DAM BYPASS SEGMENT	FERC EXEMPTION	2024
VT14-09		SOUTH PEACHAM BK AND STEVENS RIVER (BELOW HARVEY'S LAKE 4.9 MI.)	ALS	DAM MANAGEMENT ALTERS AQUATIC HABITAT	TOWN IS WORKING WITH NGO AND CONSULTANTS ON FEASIBILITY ANAYSIS OF DAM REMOVAL	
VT14-09L05		HARVEYS LAKE (Barnet)	ALS	WATER LEVEL MGMT MAY ALTER AQUATIC HABITAT	TOWN IS WORKING TOWARDS DAM REMOVAL AND PLACEMENT OF WEIR TO STABILZE WATER LEVEL	
VT15-01		PASSUMPSIC RIVER, BELOW GREAT FALLS DAM (0.1 MILES)	ALS	ARTIFICIAL FLOW REGIME AND CONDITION BY HYDRO OPERATIONS; ALTERS AQUATIC HABITAT IN BYPASS REACH	FERC LICENSE EXPIRES IN 2019; CONSERVATION FLOW FOR BYPASS REACH BEEN ESTABLISHED. WILL BE INCLUDED IN 401 WATER QUALITY CERT.	2019
VT16-07	01	CONNECTICUT RIVER, ABOVE WILDER DAM TO BRADFORD (APPROX 30 MILES)	ALS	RESERVOIR WATER LEVEL FLUCTUATION AT DAM; DESTABILIZING/ERODING STREAMBANKS UPSTREAM	EXPOSURE & EROSION ARCHEOL FEATURES KNOWN AS "LONG HOUSES"; ALSO "STOCKING" SITE	2020
VT17-01L01		LAKE MEMPHREMAGOG	ALS	WATER LEVEL FLUCTUATION BY HYDRO MAY ALTER AQUATIC HABITAT AND DEWATER WETLANDS AND SHORELINE	DEC IS A PARTY TO REGULAR MEETINGS WHICH INCLUDES INTERNATIONAL JOINT COMMISSION, CANADIAN ENVIRONMENTAL REGULATORY AUTHORITIES AND MUNICIPALITIES TO DISCUSS WAYS TO IMPROVE THE WATER QUALITY OF THE LAKE	

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Waterbody ID	ADB Code(s)	Segment Name/ Description	Use(s) Impacted	Surface Water Quality Problem	Current Status or Control Activity	Projected WQS Compliance Year
VT17-03	02	AVERILL CREEK DOWNSTREAM FROM DAM ON GREAT AVERILL LAKE (5.4 MILES)	ALS	ARTIFICIAL FLOW CONDITION BY HYDRO CREATES POOR FLOW REGIME	UNLICENSED FACILITY; PUC HEARING TO BE HELD FALL 2018	2018
	03	AVERILL CREEK DOWNSTREAM FROM DAM ON LITTLE AVERILL LAKE (1 MILE)	ALS	ARTIFICIAL FLOW CONDITION BY HYDRO CREATES POOR FLOW REGIME	UNLICENSED FACILITY; PUC HEARING TO BE HELD FALL 2018	2018
	01	COATICOOK RIVER BELOW NORTON POND DAM (3 MILES)	ALS	ARTIFICIAL FLOW CONDITION BY HYDRO CREATES POOR FLOW REGIME	UNLICENSED FACILITY; PUC HEARING TO BE HELD FALL 2018	2018
VT17-03L01		LITTLE AVERILL POND (Averill)	ALS, 2CR	WATER LEVEL FLUCTUATION BY HYDRO ALTERS FISHERY, RECREATION & ENDANGERED SPECIES	UNLICENSED FACILITY; PUC HEARING TO BE HELD FALL 2018	2018
VT17-03L02		GREAT AVERILL POND (Norton)	ALS, 2CR	WATER LEVEL FLUCTUATION BY HYDRO ALTERS AQUATIC HABITAT, RECREATION	UNLICENSED FACILITY; PUC HEARING TO BE HELD FALL 2018	2018
VT17-03L04		NORTON POND (Norton)	AES, ALS, 2CR	WATER LEVEL FLUCTATION BY HYDRO ALTERS AQUATIC HABITAT, RECREATION, AESTHETICS	UNLICENSED FACILITY; PUC HEARING TO BE HELD FALL 2018	2018
VT17-05	01	UNNAMED BROOKS, TRIBS TO CLYDE RIVER	ALS	POSSIBLE LACK OF MINIMUM FLOW BELOW WATER SUPPLY WITHDRAWAL POINT	WSID #5105; BRIGHTON	
VT17-08L03		SHADOW LAKE (Glover)	AES, ALS	WATER LEVEL FLUCTUATION (SEASONAL DRAWDOWN) MAY ALTER AQUATIC HABITAT AND AESTHETICS		
VT17-10	01	SEAVER BROOK	ALS	LACK OF MINIMUM FLOW BELOW WATER WITHDRAWAL FOR PRIVATE PONDS IMPAIRS 0.3 MILES; STRUCTURE PREVENTS FISH PASSAGE	DEC AND DFW IN PROCEEDING TO ESTABLISH MINIMUM FLOW AND RESTORE FISH PASSAGE	

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