

USACE Update Report



U.S. ARMY



US Army Corps
of Engineers®
New England District

Vermont



Current as of September 30, 2023

BUILDING STRONG®

Mission

The missions of the New England District (District) of the U.S. Army Corps of Engineers (USACE) include flood risk management protection, emergency preparedness and response to natural disasters and national emergencies, environmental remediation and restoration, natural resource management, streambank and shoreline protection, navigation maintenance and improvement, support to military facilities and installations, and engineering and construction support to other government agencies. The six New England states cover 66,000 square miles, with 6,100 miles of coastline, 170 federal navigation projects (13 deep draft commercial waterways), 13 major river basins, and thousands of miles of navigable rivers and streams. The District operates and maintains 31 dams, three hurricane barriers and the Cape Cod Canal.

Through its Regulatory program, the District processes nearly 2,500 applications per year for work in waters and wetlands of the six-state region. The District employs about 500 professional civilian employees with about 300 stationed at our headquarters in Concord, Massachusetts. Other USACE employees serve at project sites and offices throughout the region.

Both the USACE New England and New York districts provide service to the residents of the Green Mountain state. The New England District is responsible for all civil works activities within the Connecticut River Basin, while the New York District handles activities in the Lake Champlain drainage area (<https://www.nae.usace.army.mil/>). The New England District is responsible for the entire state for the Regulatory and Defense Environmental Restoration Programs, all Emergency Operations, and is the USACE lead for the Planning Assistance to States Program. This division of responsibility between the New York and New England districts is seamless to our stakeholders. Unless specifically noted, all activities included in this report are managed by the New England District.

For more information on the District, visit our website at www.nae.usace.army.mil or check us out on X at twitter.com/corpsnewengland or on Facebook at facebook.com/CorpsNewEngland.

Environmental Restoration

LAKE CHAMPLAIN WATERSHED ENVIRONMENTAL ASSISTANCE PROGRAM, VT & NY – The Lake Champlain watershed covers 8,234 square miles in Vermont, New York and Quebec, Canada. There are 11 major tributaries draining into the lake, ranging from 20 miles to 102 miles in stream length. In December 2000, Public Law 106-541, the Water Resources Development Act (WRDA) of 2000 was

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signed by the President. Section 542 of WRDA 2000 authorized the Secretary of the Army to establish a program for providing environmental assistance to non-federal interests in the Lake Champlain Watershed through USACE. Congress is authorized to appropriate funding for this program; \$4.53 million for this program has been received to date. The goal of the Lake Champlain Watershed Environmental Assistance program is to provide assistance with planning, designing and implementation of large-scale projects that protect and enhance water quality, water supply, ecosystem integrity and other related issues within the watershed. The Lake Champlain Basin Program (LCBP) is the administrative partner of USACE to implement this program under the terms of the General Management Plan. The USACE New York District is currently implementing two projects in the Lake Champlain watershed, identified a third for consideration, and are working with the LCBP to identify new projects: 1) Bartlett Brook Tributary and Bartlett Brook North, South Burlington, Vermont; design and environmental assessment; and construction completion to reduce pollution, flooding and runoff; and 2) A feasibility study of an invasive species barrier for New York state canals, partnering with the New England Interstate Water Pollution Control Commission (NEIWPC), was initiated in 2017. For more information on these projects, visit the USACE New York District website at <https://www.nan.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/487633/fact-sheet-lake-champlain-watershed-environmental-assistance-program-vermont-ne/>.

Waterbury Dam Risk Assessment Study. An initial risk assessment study was conducted under the Lake Champlain program, Section 542 of the Water Resources Development Act of 2000, as amended. The non-federal sponsor for the 542 study was the state of Vermont, Department of Environmental Conservation. This effort was cost-shared study (65% federal / 35% non-federal sponsor).

The Waterbury Dam impounds Waterbury Reservoir, located in Waterbury, Vermont, along the Little River, a tributary to the Winooski River, within the Lake Champlain Watershed. Waterbury Dam is an earthen dam designed for downstream flood risk management. It also provides water for power generation by Green Mountain Hydro and the reservoir is used for recreation, with two state campgrounds and three public boat launches. It was constructed by the Civilian Conservation Corps under the direction of USACE in 1938. The dam is owned and operated by the state of Vermont. The current operation of the Waterbury Dam is potentially contributing to water quality issues. Specifically, since the tainter gates cannot currently be operated as designed, pool levels and release schedules are suboptimal for the purpose of maintaining water quality and fish habitat. The gate and spillway cannot be considered in isolation from the broader issues of dam safety. The risk assessment was completed in 2021 and recommended a Dam Safety Modification Study (DSMS) be undertaken. The DSMS is on-going (see Special Studies below for status).

Navigation on Lake Champlain

GORDON'S LANDING, VT – The existing project (adopted in 1887) provides for a rock breakwater, 800 feet long, extending from the shoreline out to the 16-foot contour of Lake Champlain. The breakwater protects a local cross-lake commercial ferry landing from wind and wave action, and ice flows. Because of its age, the seaward head segment of the rock breakwater is in need of rebuilding and repair. Work

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would include a detailed assessment of the breakwater with subsequent engineering and design work for the award of a construction contract to rehabilitate the breakwater. Repairs to the breakwater are necessary for public safety to provide safe transit for commercial trucks, vehicles and passengers that use the ferries year-round to travel between Vermont and New York. The breakwater has experienced considerable subsidence and deterioration and can no longer adequately protect the harbor (and commercial ferry landing) from wave and ice flow damage. Currently, the Gordon's Landing Breakwater does not adequately protect the ferry landing from wave and ice overtopping. Since 1891, deterioration has lowered the breakwater's crest elevation by 2 feet across its entire length. Comparison of the 2009 and 2019 surveys shows the breakwater has lost an additional 1-4 feet of crest along its lakeward sections in the past 10 years, as a chain reaction of armor dislodging and core material loss unravels the rubble mound structure.

In the Section 216 Initial Appraisal Report signed on June 19, 2020, the New York District recommended a feasibility study under Continuing Authorities Program Section 107. The project was included within the CAP database and recommended as a FY21 CAP Section 107 new start. The District had communicated with the Vermont Agency of Natural Resources and the Vermont Department of Transportation at the time of the IAR development concerning the possibility of serving as the non-Federal sponsor, but a NFS has not been identified at this time. The breakwater is located in a historically significant area necessitating extensive cultural resources investigation and documentation prior to awarding a repair contract. For more information, visit <https://www.nan.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/487455/fact-sheet-gordons-landing-vt/>.

NARROWS OF LAKE CHAMPLAIN, VT & NY – The project (adopted in 1917) provided for a channel 12 feet deep and generally 200 feet wide from Whitehall, New York, to Benson Landing. It included the installation of fender booms at Putts Rock, Putts Leap, Narrows near Dresden, Pulpit Point and Cedar Mountain. The length is about 13.5 miles. The existing project is about 77% complete, with a channel 12 feet deep and 150 feet wide having been excavated throughout the entire length of the improvement, except at the elbow, where the width is 110 feet. Fender booms have been placed at the elbow and opposite of the Delaware and Hudson railroad trestle. The uncompleted work is inactive. During fiscal year 2018, the requested \$45,000 was used to perform caretaker status work, including hydrographic surveys and minor channel maintenance activities and inspection of fender booms. During fiscal year 2017, \$45,000 was used to perform project condition surveys and minor maintenance to the east side fender boom anchoring system. Maintenance dredging of the channel was last performed during fiscal year 2002. The condition survey of the project channel was completed in FY2022 and a fender boom inspection is planned for FY2023. For more information, visit the New York District website at <https://www.nan.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/487515/fact-sheet-narrows-of-lake-champlain-new-york-and-vermont/>.

Support to the U.S. Environmental Protection Agency (EPA)

SUPERFUND ASSISTANCE – The District provides support to the U.S. Environmental Protection Agency (EPA) Region I's (New England) Superfund program. This includes responsibility for the design

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and/or construction execution of remediation projects. In addition, the District is providing technical assistance upon request to EPA New England for other federal-lead projects assigned by EPA to private firms as well as for some potentially responsible party (PRP) remediation.

ELY MINE SUPERFUND SITE, VERSHIRE, VT – The Ely Copper Mine is an abandoned copper mine located in Vershire, Vermont, and encompasses approximately 350 acres where historic mining activities took place. This includes about 30 acres of waste material containing an estimated 172,000 tons of waste rock, tailings, ore roast beds, slag heaps and smelter wastes. The site also includes over 3,000 linear feet of Underground Mine Workings along with the associated shafts and adits. No buildings remain at the site. Remnant foundations, pads, and stone walls, including a 1,400-foot-long smoke flue, demark the location of the former site structures including a former flotation mill and the smelter plant.

The contemplated work is associated with Operable Units (OU) 1, 2 and 3. OU1 includes areas that are the primary source of the surface water and sediment contamination to Ely Brook, Pond 4, Pond 5 and Schoolhouse Brook. OU2 includes the Underground Workings on the southern side of Dwight Hill and approximately 12 shafts, adits, vents or other openings. OU3 includes the Underground Workings on the northern side of Dwight Hill. There are no surface features in OU3. The selected remedy for OU1 is a comprehensive approach that addresses all current and potential future risks caused by contaminated soil, waste rock, tailings, surface water, and sediment in the OU1 area of the site. Specifically, this remedial action includes: the excavation of about 107,000 cubic yards (cy) of contaminated waste rock, soil, and sediment with the consolidation of this material under a cover system in an on-site containment cell; and the excavation of about 4,000 cubic yards of contaminated tailings from the Tailings Area (TA) and consolidation under a cover system.

The selected remedy for OU2/OU3 includes a passive surface water treatment system to treat the discharge from the Main Adit without changing the air flow in the Main Shaft and the permanent closure of the Deep Adit by filling in-place with grout and/or flowable fill to reduce or eliminate Acid Mine Drainage. The other mine features will be filled unless they are determined to be hibernacula for the state or federally listed threatened or endangered bats. USACE recently conducted a Sources Sought to identify contractors interested in this work. Based on those responses, USACE concluded that the contract for this work will be solicited as a Small Business set-aside. Due to the complexities associated with this site, a best-value procurement is planned.

On Sept. 14, 2023, USACE issued a Pre-Solicitation Notice in advance of an early October Request For Proposals for a Single Award Task Order Contract (SATOC), Indefinite Delivery/Indefinite Quantity (ID/IQ) contract for Remediation Services at the Ely Copper Mine. The total acquisition value of the contract awarded under this solicitation is not to exceed \$40 million and will have a five-year ordering period. This will be a Small Business Set-Aside, Best Value Trade-off award. The NAICS code for the work is 562910 (size standard is 1,000 employees). Contract award of the Base ID/IQ Contract and Seed Task Order is scheduled for April 2024 with Seed Task Order construction completion in 2026.

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Defense Environmental Restoration Program/Formerly Used Defense Sites

This Congressionally directed program (PL 98-212) provides for an expanded effort in environmental restoration. It emphasizes the identification, investigation, and prompt cleanup of hazardous and toxic waste; unexploded ordnance; and unsafe buildings, structures and debris at current and former military facilities. Site and project eligibility investigations have been completed at all 13 formerly used defense sites in Vermont, which includes nine where no work was found to be necessary. Work is complete at all properties where remediation was necessary.

Planning Assistance

Cost-sharing (50/50) for the Section 22, Planning Assistance to States Program has presented challenges to the state of Vermont in identifying funds that would be used for the non-federal contribution. The state's interest in the program continues, and it plans to identify future needs within the state of Vermont. For more information on Planning Assistance to states, visit the District website at <https://www.nae.usace.army.mil/Missions/Public-Services/Planning-Assistance-to-States/>.

Flood Plain Management

VERMONT SILVER JACKETS TEAM – Quarterly Vermont Silver Jackets (SJ) meetings are held virtually. The FY22 High Water Mark Project is ongoing as the team determines locations for the signs. The FY23 Hazard Mitigation Plan Update Project for High Hazard Dams is ongoing with review and technical assistance from FEMA. Also, the additional FY23 North Springfield Dam Risk Communication plan is in progress. For more information, visit <https://silverjackets.nfrmp.us/State-Teams/Vermont>.

Flood Risk Management

WINOOSKI RIVER, MONTPELIER, VT – A reconnaissance study on flood damage reduction in Montpelier, Vermont, was authorized under Section 309(I) of the 1992 WRDA. A recommended report was completed in 1996 and updated in 2009. In 2010, a feasibility cost-sharing agreement (FCSA) was executed with the city of Montpelier with support from the state of Vermont. The focus of the study is to mitigate potential flood damages resulting from ice jams on the Winooski River in downtown Montpelier. Alternatives involving ice piers were ranked highest during the 1996 reconnaissance report and will be reviewed in greater detail during the feasibility phase.

Existing conditions, surveys, and hydrologic and hydraulic models have been completed and updated by the CRREL in Hanover, New Hampshire. The project has been unfunded since 2010. The sponsor has advanced some work as per the FCSA and project management plan to bring the study into a cost-share balance. The total cost of the study is \$1.5 million and is cost-shared 50/50 with the city of Montpelier

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and the state of Vermont. For more project information, visit the New York District website at: <https://www.nan.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/487643/fact-sheet-winooski-river-montpelier/>.

WEST RIVER FLOOD CONTROL PROJECT, WESTON, VT – A series of flood events from 1927 through 1955 led the Vermont Commissioner of Water Resources to request federal assistance to alleviate periodic flooding, and ultimately led to the construction of this project between 1956 and 1957 under the authority of Section 208 of the Flood Control Act of 1950. The original project extended from a stone-filled timber crib dam at the old mill operated by the Vermont Guild upstream in the village of Weston, and included deepening and widening of the river channel, clearing the streambed and adding stone slope protection.

Flood damages sustained by the project in 1973 resulted in a rehabilitation of the project to its pre-flood conditions. However, damages subsequently sustained from Hurricane Belle in 1976 resulted in extensive damages that required additional rehabilitation assistance and modifications that included a gabion wall for additional erosion protection. The town of Weston requested federal assistance for the rehabilitation of the improvement project on Aug. 7, 2023, to address flood damages resulting from rain events in July 2023 under the PL84-99 Emergency Assistance program. An initial damage assessment was conducted, and the New England District is preparing a Project Information Report (PIR) to ascertain whether federal assistance is warranted.

Special Studies

AQUATIC PLANT CONTROL PROGRAM, LAKE CHAMPLAIN – Authorized by the River and Harbor Act of 1958, the aquatic plant control program (APC) for Lake Champlain authorizes USACE to cooperate with other federal and non-federal agencies in comprehensive programs for the control of invasive aquatic plants, which have adverse effects on navigation and the ecosystem. The APC for the state of Vermont is in the Lake Champlain basin. Lake Champlain is located between New York on the west and Vermont on the east. Approximately 1,615 acres of aquatic plants, water chestnuts and Eurasian watermilfoil infest the Lake Champlain Basin. Un-harvested acreage of these foreign plants is a constant source of future infestation and requires removal since they have adverse effects on navigation and the ecosystem, especially native aquatic plants.

In 2016, six Lake Champlain basin lakes hosted four APC projects – Lake Bomoseen, Caspian Lake, Lake Iroquois, and the Lake Catherine three-lake system. Areas of interest to target are coordinated between partners and updated as the control efforts evolve in order to maximize effectiveness and meet the project goals. Some \$500,000 of fiscal year 2017 federal funds are being used by New York District to continue the APC with the state of Vermont in the Lake Champlain Basin. APC project partnership agreements are executed annually. For more information, visit the New York District webpage at <https://www.nan.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/487394/fact-sheet-aquatic-plant-control-program-vt/>.

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WATERBURY DAM, DAM SAFETY MODIFICATION STUDY - The Waterbury Dam, Dam Safety Modification Study is being performed by the New England District under the authority provided in Section 1177 of the Water Resources Development Act of 2016, as amended. The study is being conducted under a project partnership agreement between USACE and the Vermont Department of Environmental Conservation. This effort is a cost-shared study (50% federal / 50% non-federal sponsor).

Waterbury Dam impounds Waterbury Reservoir, located in Waterbury, Vermont, along the Little River, a tributary to the Winooski River, within the Lake Champlain Watershed. Waterbury Dam is an earthen dam designed for flood risk reduction. In addition, it provides water for power generation and its reservoir is used for recreation. It was constructed by the Civilian Conservation Corps under the direction of the U.S. Army Corps of Engineers in 1938, and then transferred to the state of Vermont. The purpose of the DSMS is to identify and evaluate alternative risk management measures and prepare a decision document and associated environmental documentation that recommends a plan for the modification and rehabilitation of Waterbury Dam. The study is on-going and will be completed in October 2024.

Interagency and International Support

SUPPORT TO THE U.S. DEPARTMENT OF VETERANS AFFAIRS – The District has teamed up with a sister federal agency in an effort to improve the care service members are receiving at military hospitals. The U.S. Department of Veterans Affairs (VA) and USACE entered into an interagency agreement in 2001 for the goods and services USACE may provide to the VA when needed. These include project management, design services, construction management services, environmental services, preliminary technical investigations, surveying, and historical presentation compliance at VA facilities. In 2008, the VA started exercising its agreement with the District and is now supporting the VA with services at several facilities in New England. Current or recent projects are in Massachusetts, Rhode Island and Connecticut.

Flood Risk Management Dams, Recreation and Natural Resources Management

The District constructed, operates and maintains five flood risk management project dams in Vermont. In addition to flood risk management activities, the District also manages the natural resources at these projects for multiple uses such as recreation and wildlife management. Information on each is provided below. The District is responsible for the conservation of natural resources held in public trust at civil works water resources projects. Recreation areas at the 31 federal flood risk management projects and the Cape Cod Canal within New England are managed for multiple uses. In some areas, management is delegated to the states for specific purposes, e.g., campgrounds, wildlife management and forestry. Recreation areas at these facilities are generally open from mid-May to mid-September. The District works with state and local officials and the public to ensure that the District projects meet their recreation and natural resources needs. For more information, visit the District website at www.nae.usace.army.mil and select “recreation,” or go to <https://www.nae.usace.army.mil/Missions/Recreation/Vermont/>.

BALL MOUNTAIN LAKE DAM on the West River in Jamaica, VT, was constructed at a cost of \$11 million in 1961. The 915-foot-long, 265-foot-high dam can impound a 54,600-acre foot reservoir, which is equivalent to 17.8 billion gallons of water. During the 1987 floods, Ball Mountain Dam utilized 100 percent of its storage capacity and prevented damages of \$18.3 million. Since it was placed in operation in 1961, it has prevented damages of \$185.4 million. The reservoir area offers recreational opportunities, including swimming, picnicking, fishing, hunting, canoeing, nature study and camping at Winhall Brook Camping Area in South Londonderry. This popular camping area offers 111 sites for tent or recreational vehicle (RV) campers; some sites have hookups and others have lean-to shelters for rent. Ball Mountain welcomes more than 130,000 visitors each year. For more information, call (802) 874-4881 or visit the District website at <https://www.nae.usace.army.mil/Missions/Recreation/Ball-Mountain-Lake/>.

NORTH HARTLAND LAKE DAM on the Ottauquechee River in Hartland, VT. was completed in 1961 at the cost of \$7.3 million. The 1,640-foot-long, 185-foot-high earthen structure can impound a 1,100-acre lake capable of storing 23.2 billion gallons of water, and the facility has prevented damages to date of \$163.5 million. More than 377,000 visitors annually enjoy picnicking, swimming, fishing, hunting, hiking and snowmobiling. The District and the state of Vermont are partners in the management of part of the reservoir. Vermont manages Quechee Gorge State Park in the upper third of the reservoir and provides a campground, picnic facilities and trails for the visiting public. North Hartland Lake has a large day-use area with three pavilions available for a nominal fee, a developed beach area and boat launch, picnic facilities and trails.

The District also maintains the **Quechee Gorge Visitor Center**. In conjunction with the Hartford Chamber of Commerce, the District helps staff the center and offers expertise about the local area. For more information, call (802) 295-2855 or visit <https://www.nae.usace.army.mil/Missions/Recreation/North-Hartland-Lake/>.

NORTH SPRINGFIELD LAKE DAM on the Black River in North Springfield, VT, was completed in 1960 at the cost of \$6.8 million. The 2,940-foot-long, 120-foot-high earthen dam can impound a 1,200-acre lake, capable of storing 16.5 billion gallons of water. Nearly \$134.8 million in flood damages have been prevented by the North Springfield Dam. Picnicking, swimming, hiking, hunting, fishing and snowmobiling are enjoyed at the 1,372 acres of land and water by more than 30,000 visitors each year. For more information, call (802) 886-2775 or visit the District website at <https://www.nae.usace.army.mil/Missions/Recreation/North-Springfield-Lake/>.

TOWNSHEND LAKE DAM on the West River in Townshend, VT, is 1,700 feet long, 133 feet high and cost \$7.4 million to construct. Its lake can hold a 33,700-acre foot reservoir with a capacity to store 11 billion gallons of water. During the 1987 floods, the dam utilized 100% of its storage capacity and prevented damages of \$14.2 million. Since it was placed in operation in 1961, it has prevented damages of \$149.1 million. The reservoir area offers recreational opportunities, including swimming, picnicking, fishing, hunting, canoeing, boating and nature study and annually attracts nearly 81,000 visitors. Townshend Lake, in conjunction with Ball Mountain Lake, provides scheduled white-water releases. More than 800 canoeists, kayakers and rafters take advantage of the event.

A \$480,200 contract to paint the spillway bridge at the Townshend Dam was awarded on Sept. 24, 2018. Work consists of the construction of an access system to allow for access to the bridge substructure; preparation of steel surfaces by solvent cleaning and abrasive blasting; application of base and top coats of paint; replacing several nuts and bolts; application of sealant to the concrete approach slab on both approaches; replacing the damaged guardrail support posts, concrete and guardrail on the south side of the east end of the bridge, where it joins Highway 30; and installing grout around the west bearing pad. The work to complete this painting project started in late April 2019 and was completed by late July 2019.

A \$237,690 contract for valve removal and v-notch weir installation at the Townshend Dam was awarded on Sept. 20, 2018. Work involves the excavation and removal of seven cast iron valves ranging in depth from 2-8 feet, which connect the relief well system to a below-ground collector pipe that outlets to a small pond on the downstream side of the dam. The valves will be replaced with sections of steel free-flowing pipe.

In addition, the construction of a reinforced concrete outlet structure that has a central dividing wall and a v-notch weir for both of the collector pipes also will be required. The contractor will connect the toe drain collector pipe to the new outlet structure. No other work will be required on the toe drain collector pipe, which runs parallel to the dam and outlets to the small pond. In addition to the outlet work construction, the pond will be dewatered and one foot of material will be dredged from the area. All of the above work took place at the toe of the dam on the downstream side. As of mid-July 2019, this work was substantially complete.

For more information about the Townshend Lake Dam, call (802) 365-7703 or visit the District website at <https://www.nae.usace.army.mil/Missions/Recreation/Townshend-Lake/>.

UNION VILLAGE DAM, a dry-bed reservoir project on the **Ompompanoosuc River in Thetford, VT**, is a 1,100-foot long, 170-foot-high earthen structure capable of storing 12.3 billion gallons of water in a 740-acre lake. Construction on the \$4.1 million dam was completed in 1950, and since that time, the facility has prevented damages of more than \$64.8 million. More than 41,000 visitors annually enjoy picnicking, including a pavilion which can be reserved for a nominal fee, swimming, hiking, fishing, hunting and snowmobiling available on Union Village's 991 acres of land and water. For more information, call (802) 649-1606 or visit <https://www.nae.usace.army.mil/Missions/Recreation/Union-Village-Dam/>.

In addition, the **New York District** designed three dams in the Lake Champlain drainage area during the mid-1930s (<https://www.nan.usace.army.mil>). These include **EAST BARRE DAM on the Jail Branch of the Winooski River in Barre**; **WATERBURY DAM on the Little River in Waterbury**; and **WRIGHTSVILLE DAM on the North Branch of the Winooski River in Montpelier**. These dams were constructed by the Civilian Conservation Corps under the direction of the USACE New York District, and all are operated and maintained by the state of Vermont. A dam risk assessment study for the Waterbury Dam is underway at the District.

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Regulatory Activities

STATUS OF PROGRAM – Department of the Army permits are required from USACE under Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection, Research and Sanctuaries Act. USACE reviews permit applications for work affecting navigable waters under its Section 10 authority and the discharge of fill material into all waters, including inland wetlands, under Section 404. A list of monthly general and individual permit authorizations can be found on the District website at <https://www.nae.usace.army.mil/Missions/Regulatory/permits-Issued/>. Relevant environmental documents are available upon written request. For information about USACE jurisdiction of wetlands and whether a permit is required for your work in Vermont, contact the Regulatory Division at either 978-318-8860 or 802-872-2893; by email: cenae-r-vt@usace.army.mil; or visit the District website at <https://www.nae.usace.army.mil/Missions/Regulatory/>.

GENERAL PERMITS – The District has comprehensive Regional General Permits (RGPs) in place for each of the six New England states that provide protection to the aquatic environment and the public interest while effectively authorizing activities that have no more than minimal individual and cumulative environmental effects. Up to 98% of all permits issued in New England are RGPs. Work eligible under the RGPs is generally approved in less than 60 days. The District has issued the statewide Vermont General Permits (GPs) for minimal impact activities to waters of the United States. The GPs became effective on Dec. 6, 2022, and are organized into 21 activity-specific GPs. The current Vermont GPs are available on the District website at <https://www.nae.usace.army.mil/Missions/Regulatory/State-General-Permits/Vermont-General-Permit/>.

VERMONT IN-LIEU FEE PROGRAM – Generally, projects impacting more than 0.11 acres of wetland may be required to provide compensatory mitigation to offset the loss of functions and services of aquatic resources. On Jan. 6, 2011, USACE signed an in-lieu fee (ILF) instrument with Ducks Unlimited (DU) to establish a program that provides an alternative to permit applicants for compensatory mitigation. Instead of doing mitigation themselves, for which the applicant is responsible in perpetuity, applicants can pay a fee based on the area and type of their impact to aquatic resources. The fee is deposited into an account held by DU, which is then used to develop ecologically meaningful wetland restoration, rehabilitation, creation, and/or preservation projects selected based on a watershed approach. Funds are differentiated by watershed so that functions and services lost will be compensated for in the same watershed. To date, about 44.995 credits have been sold through the DU-VT-ILF Program. In sum, DU has protected four properties in three service areas (Richelieu, Connecticut, St. Francois) totaling 734.24 acres.

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