



**US Army Corps
of Engineers**®
New England District
**696 Virginia Road
Concord, MA 01742-2751**

PUBLIC NOTICE

Comment Period Begins: September 18, 2018
Comment Period Ends: October 18, 2018
File Number: NAE-2005-1142
In Reply Refer To: Lindsey Lefebvre
Phone: (978) 318-8295
E-mail: Lindsey.E.Lefebvre@usace.army.mil

The District Engineer is soliciting comments on the 35 projects which have applied for funding through New Hampshire's In Lieu Fee ("ILF") program, the Aquatic Resource Mitigation Fund ("ARM Fund"). The sponsor for the program is the New Hampshire Department of Environmental Services ("DES"). The program serves as an alternative form of compensation for impacts to aquatic resources authorized by the New England District Army Corps of Engineers (Corps) and/or the DES. These projects were submitted in response to the 2018 Request for Pre-Proposals ("RFPP") and approved for development of full proposals to be considered for funding.

The RFPP includes the criteria used to evaluate projects, the information required for a proposal, and other related information. DES and the Corps reviewed the RFPPs and invited those meeting the criteria to submit full applications. The RFPP, ARM Fund application, current amount of funds available for release, and additional information can be found at the ARM Fund website:

<http://des.nh.gov/organization/divisions/water/wetlands/wmp/index.htm>

The proponent for any proposed project that needs a Department of the Army permit or authorization will apply for it independently of this project review process.

Attached are the service area funds available, resources impacted by permitted activities that have paid into the ARM Fund, and proposed project descriptions and locus maps for the ARM Fund applications.

The decision whether to approve funding for projects will be based on an evaluation of each proposed activity and how and where it will compensate for aquatic resources lost through authorizations issued under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act. The decision will reflect the national concern for no net loss of aquatic resources. The benefit that may reasonably accrue from each proposal must be balanced against its reasonably foreseeable detriments and/or its appropriateness considering the ecological needs of the service area in which it is located.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to determine the most appropriate projects to receive funding from the ARM Fund. Any comments received will be provided to the Site Selection Committee which makes recommendations to the

Interagency Review Committee, including the Corps of Engineers, and will be considered in the evaluation of the projects and the determination of which will receive funding. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat ("EFH").

The District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

SECTION 106 COORDINATION

Based on his initial review, the District Engineer has determined that the proposed projects may affect properties in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the proposal review process.

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers, has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, that might occur at the project sites. It is our preliminary determination that the proposed activity for which funding is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate federal Agency concur with our determination.

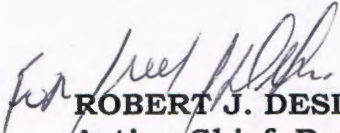
The State of New Hampshire has an approved **Coastal Zone Management Program**. Coastal Zone Management consistency will be required for some of the individual proposals and by this public notice we are requesting the state provide any applicable comments at this time.

CENAE-R
FILE NO. NAE-2005-1142

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Lindsey Lefebvre at (978) 318-8295, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts, or at the email address noted above.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the projects. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record.



ROBERT J. DESISTA
Acting Chief, Regulatory Division

If you would prefer not to continue receiving Public Notices, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____

ANDROSCOGGIN RIVER

2011 DISBURSAL OF \$89,000 TO 1 PROJECT

2015 DISBURSAL OF \$61,000 TO 1 PROJECT

PERMIT #	TOWN	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY WETLAND LOSS SQFT	STREAM LOSS LF	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2015 CARRY OVER FUNDS									\$480.00		
2007-2429	Berlin	Wetland: Subdivision lot impact.	PFO	Wildlife habitat.	Payment based on lots sold.				\$1,000.00		1/17/2017
2016-2506	Gorham	Stream: NHDOT bridge rehab, repair the toe walls and abutments.	R2UB1, R4SB3	Shoreline anchoring, bank impacts.				80	\$19,603.20	\$3,267.20	2/22/2017
TOTALS								80	\$21,083.20	\$3,267.20	
GRANT TOTALS								80	\$17,816.00		

SACO RIVER

2013 DISBURSAL OF \$46,000 TO 1 PROJECT

PERMIT #	TOWN	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY WETLAND LOSS SQFT	STREAM LOSS LF	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2015 CARRY OVER FUNDS		Wetland & Stream	R3UB1H, PFO1E, R4SB3	Fish habitat; water quality.	Intermittent stream impacts.	9,497		329	\$22,947.16		
TOTALS						9,497		329	\$22,947.16	\$0.00	
GRANT TOTALS						9,497		329	\$22,947.16		

PEMIGEWASSET - WINNIPESAUKEE RIVERS

2009-2013 DISBURSAL OF \$658,000 TO 7 PROJECTS

2014 DISBURSAL OF \$64,236 TO 1 PROJECT

2016 DISBURSAL OF \$107,500 TO 1 PROJECT

PERMIT #	TOWN	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY WETLAND LOSS SQFT	STREAM LOSS LF	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
CARRY OVER FUNDS				Fisheries habitat.					\$25,849.83		
2016-1465	Thornton	Stream: Repair culverts on Route 3, repair slope drain and outlet protection on I-93.	R2UB1 and bank area	Fisheries habitat, shoreline anchoring.				21	\$5,040.00	\$840.00	10/17/2016
2016-790	Gilford	Stream: NHDOT box culvert replacement within prime wetland.	R2UB1 & 2, prime wetland	Fisheries habitat, shoreline anchoring.				134	\$32,260.80	\$5,376.80	1/20/2017
2017-2402	Franklin, Tilton, Belmont, Laconia	Wetland: Eversource transmission line/reliability project.	PEM, PSS	Wildlife habitat.	Also conserved Sanborn Family Trust property.	1,526	262,435		\$48,296.39	\$10,277.17	12/4/2017
TOTALS						1,526	262,435	155	\$111,447.02	\$16,493.97	
GRANT TOTALS						1,526	262,435	155	\$94,953.05		

SALMON FALLS - PISCATAQUA RIVERS

2010 DISBURSAL OF \$1,546,511 TO 8 PROJECTS

2 PROJECTS DECLINED FUNDING +\$96,000

2011 DISBURSAL OF \$40,000 TO Berry Brook

2014 DISBURSAL OF \$336,000 TO 4 PROJECTS; 1 PROJECT DECLINED FUNDING: +\$100,000

2012 DISBURSAL OF \$9,000 TO 1 PROJECT

2015 DISBURSAL OF \$473,500 TO 3 PROJECTS

2013 DISBURSAL OF \$175,000 TO 2 PROJECTS

2016 DISBURSAL OF \$270,460 TO 5 PROJECTS

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016 CARRY OVER FUNDS									\$379.47	\$0.00	
2015-3344	Hampton	Wetland: Assisted living facility within off-ramp to Liberty Lane.	PFO1E	Wildlife habitat; water quality.		21,218			\$102,426.08	\$17,071.01	7/7/2016
2015-3065	Dover	Wetland: Commercial lot re-development at existing Macintosh College.	PEM1F, PEM1Fh, PFO1A	Marginal wetlands created through overexcavation - some water quality.		24,454			\$118,047.29	\$19,674.55	7/8/2016
2016-603	Hampton/ Hampton Falls	Wetland: NHDOT pavement, bridge deck, joint repairs, and culvert replacement.	E1UB1,2; R2UB1, 2S; PEM1E	Fisheries habitat.	Prime wetland impacts.	2,128			\$20,545.07	\$3,424.18	9/23/2016
2016-524	Epping	Wetland: Retain 21,419 sq.ft. for parking areas at New England Dragway.	PFO1/4E	Water quality.	Also conserved land adjacent to Piscassic River.	21,419			\$76,308.54	6937.14	11/10/2016

SALMON FALLS - PISCATAQUA RIVERS (continued)

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2014-2959	Newington	Wetland: Expansion of an existing facility and road.	PSS1E	Water quality.		34,487			\$151,269.89	25211.65	11/16/2016
2015-1595	Portsmouth	Wetland: NHDOT improvement to Route 1 Bypass & Market St. for sidewalk and closed drainage system.	PEM1EX, previously developed tidal buffer zone	Shoreline anchoring		938			\$4,975.88	\$452.35	12/2/2016
2016-1701	Stratham	Wetland: Expansion at existing chocolate factory - parking and road widening.	PFO1E	Wildlife habitat; water quality.		20,327			\$102,828.70	\$17,138.12	4/17/2017
2016-3261	Portsmouth/Newington	Wetland: Pease Dev. Authority to clear trees.	PSS1E, PEM1E, PFO1E,	Wildlife habitat; water quality.			111,009		\$91,891.52	15313.62	9/7/2017
2017-1619	Portsmouth/Greenland	Wetland: Eversource line reconstruction, pole replacement for 1.66 miles.	PEM, PSS prime wetland buffer	Wildlife habitat; water quality.	Ports-mouth prime wetland impacts.	1,580	296,467		\$166,810.58	27814.55	10/11/2017
2016-333	Rochester	Wetland & Stream: Commercial Development.	PSS1E, PFO1E, R4SB1,2	Wildlife habitat; water quality; flood storage; shoreline stabilization.	Some on-site stream improvements completed.	73,760		230 perennial, 750 intermittent	\$676,234.67	\$112,705.78	11/6/2017
2017-1592	Rochester	Stream: NHDOT arch culvert replacement.	R2UB12, PSS1E	Fish and wildlife habitat.				95	\$23,278.80	\$3,879.80	12/14/2017
TOTALS						200,311	407,476	325 P, 750 I	\$1,534,996.49	\$249,622.75	
GRANT TOTALS						200,311	407,476	325 P, 750 I	\$1,285,373.74		

MERRIMACK RIVER

2009 DISBURSAL OF \$567,400 TO 4 PROJECTS

2012 AWARD RETURNED \$4,061.25

2010-2012 DISBURSAL OF \$2,156,628.75 TO 7 PROJECTS

2015 DISBURSAL OF \$915,270 TO 4 PROJECTS

2013 DISBURSAL OF \$65,400 TO 1 PROJECT

2016 DISBURSAL OF \$1,315,240 TO 7 PROJECTS (Oyster River withdrawn)

2014 DISBURSAL OF \$422,70 TO 3 PROJECTS

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016 CARRY OVER FUNDS									\$11,074.00		
2014-3446	London-derry, Salem, Windham, Derry, Manchester	Stream: NHDOT I-93 northern section improvements.	PFO1A, IE, 4; PEM1C, 1E, 1F, 1G, 1H; PSS1E; OW; R4SB, R2UB	Wildlife habitat; water quality; flood storage; shoreline stabilization.	Wetland impacts addressed in 2016 awards. General preference for CTAP ** towns.			4039 perennial & 4,135 intermittent	\$828,744.96		2/17/2016
2012-3271	Hooksett	Wetland: Pike Industries expansion of quarry.	PFO1A, IE, 4; PSS1E;	Wildlife habitat.	Also conserved 140 ac parcel; on-site turtle mgmt work.	212,137			\$180,000.00		7/13/2016
2016-1817	Weare	Stream: NHDOT culvert replacement and 79 feet of retaining wall replacement.	R4SB4, bank	Shoreline anchoring.				66	\$15,840.00	\$2,640.00	7/29/2016
2016-495	Concord	Stream: NHDOT Slipline culvert and replacement of culverts under Interstate 393.	R2UBH,	Shoreline anchoring.				170	\$40,800.00	6,800	9/9/2016

MERRIMACK RIVER (continued)

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016-147	Chichester	Wetland & Stream: NHDOT Route 4/9/202 culvert extensions and replacements for roadway improvements.	R2UB1 and bank area	Stream bank impacts.		889	2,965	178	\$42,720.00	\$7,120.00	9/9/2016
2015-2336	London-derry, Windham, Hudson and Pelham	Wetland & Stream: Eversource and National grid to construct 17.9 miles of new overhead 345kV line and relocate 7.6 miles of an existing 115kV line.	PFO, PEM/PSS, R2UB2		Also conserved 5.53 ac in Pelham.	4,428	385,896	17	\$646,875.40	\$107,812.56	10/6/2016
2016-123	Barnstead	Wetland & Stream: NHDOT widening of Rt 28 and intersections for safety purposes.	R2UB1, PSS1, PFO1, PEM1, R2UB2, PUB2Hx	Water quality; stream bank impacts.		31,136		112	\$145,005.29	\$24,167.55	12/12/2016
2016-3357	Weare	Wetland: Eversource 34.5 kV 3271 utility line clearing.	PFO, PEM/PSS, R2UB2	Wildlife habitat; water quality; flood storage; shoreline stabilization.	Goffstown prime wetlands; vernal pool impact. Also conser-ved Musquash property.		157,135		\$15,550.70		3/6/2017

MERRIMACK RIVER (continued)

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016-3014	Manchester	Wetland: Subdivision road and lot development.	PSS1C, PFO1C	Wildlife habitat; water quality; flood storage; shoreline stabilization.	Isolates vernal pool and secondary impacts to buffer.	8,227	397		\$25,293.63	\$4,215.60	7/7/2017
2016-2893	Bedford	Wetland & Stream: NHDOT Route 114 widening.	PEM1, PFO1, PSS1, PUB3/PAB4, R2UB3	Wildlife habitat; water quality; flood storage; shoreline anchoring.	On-site measures included to reduce impacts to streams.	153,994		717	\$954,706.95	\$159,117.82	7/21/2017
2016-1425	Bedford	Wetland & Stream: Commercial development for a Mini-Cooper dealership.	R4SB3Ar/PSS1A	Water quality.	Includes 2 years of monitoring of water quality measures.	7,595		385	\$83,901.07	\$27,967.02	9/7/2017
2016-1953	Londonderry	Manchester Airport clearing trees to runway approach.								\$16,544.84	11/16/2017
2017-864	Bow	Stream: Culvert replacement at Dunklee Road.	R2UB3	Stream bank impacts.				32	\$7,841.28	\$1,306.88	11/27/2017
** CTAP Communities include: Allenstown, Atkinson, Auburn, Bedford, Bow, Candia, Chester, Concord, Danville, Deerfield, Derry, Dunbarton, Fremont, Goffstown, Hampstead, Hooksett, Hudson, Litchfield, Londonderry, Manchester, Pelham, Pembroke, Raymond, Salem, Sandown, and Windham.											
TOTALS						418,406	546,393	4,943 P, 4,908 I	\$2,998,353.28	\$357,692.27	
GRANT TOTALS									\$2,640,661.01		

LOWER CONNECTICUT RIVER

2010 DISBURSAL OF \$83,467 TO 2 PROJECTS

2014 DISBURSAL OF \$255,000 TO 2 PROJECTS

2012 DISBURSAL OF \$570,797 TO 2 PROJECTS

2015 DISBURSAL OF \$510,000 TO 2 PROJECTS

BLACK HILL FOREST DECLINED FUNDS OF \$182,530

2016 DISBURSAL OF \$260,500 TO 2 PROJECTS

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016 CARRY OVER FUNDS									\$9,177.17		
2015-2423	Troy	Wetland: Town Pond project for recreation.	PUB	Fisheries habitat.	Shoreline enhancement completed.	5,330			\$19,126.14	\$3,187.69	5/14/2016
2017-270	Keene	Wetland: Retirement community with parking and utilities.	PFO, PUB3, R4SB3 (drainage ditch)	Marginal wetlands with limited flood storage.	Also conserved 23 acres on site; no cut buffer to Black Brook.	34,810			\$77,378.61	\$12,896.44	6/29/2017
2015-2877	Swanzey	Stream: NHDOT bridge scour repair and canoe access.	R2UB2	Shoreline stabilization.				10	\$2,450.40	408	9/27/2017
2017-911	Roxbury Sullivan	Wetland & Stream: NHDOT bridge replacement, re-align intersections, widen roadway.	PEM, PFO, PSS1E, R3UB1, R4SB3	Water quality; shoreline anchoring; flood storage.		37,732		1,887.00	\$598,511.77	\$96,927.05	12/14/2017
2017-1405	Lebanon	Wetland & Stream: NHDOT project on I-89 for pipe repair/replacemnt.	R2UB1, R3UB1 & 2, R4UB3	Shoreline anchoring.			20,299	212	\$51,948.48	\$8,658.08	12/14/2017

LOWER CONNECTICUT RIVER (continued)

PERMIT #	LOCATION	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY IMPACTS LOSS SQ FT	STREAM LOSS LIN FEET	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2017-1302	Walpole-Charlestown	NHDOT project to reconstruct/ widen Route 12A with stormwater management.	PEM1E, PEM, PFO, POW, PSS/PFO, R2UB, R4SB3, R3UB1	Wildlife and fisheries habitat, shoreline anchoring, stream impacts.		25122	101536	4880	\$1,287,621.45	\$214,603.57	1/30/2018
TOTALS						102,994	121,835	6,989.00	\$2,046,214.02	\$336,681.23	
GRANT TOTALS						102,994	121,835	6,989.00	\$1,709,532.79		

CONTOOCCOOK RIVER

2013 DISBURSAL OF \$14,623.31 TO 1 PROJECT
2015 DISBURSAL OF \$150,000 TO 1 PROJECT
2016 DISBURSAL OF \$24,000 TO 1 PROJECT

PERMIT #	TOWN	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY WETLAND LOSS SQFT	STREAM LOSS LF	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016 Carry over funds									\$40.49		
TOTALS									\$40.49		
GRANT TOTALS									\$40.49		

MIDDLE CONNECTICUT RIVER

2013 DISBURSAL OF \$120,000 TO 2 PROJECTS
2014 GRANT ROUND YIELDED NO APPLICATIONS
2015 DISBURSAL OF \$100,000 TO 1 PROJECT
2016 DISBURSAL OF \$252,240 TO 1 PROJECT

PERMIT #	TOWN	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY WETLAND LOSS SQFT	STREAM LOSS LF	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016 Carry over funds				Wildlife habitat, water quality.					\$115,501.03		
TOTALS									\$115,501.03		
GRANT TOTALS									\$115,501.03		

UPPER CONNECTICUT RIVER

2010 DISBURSAL OF \$148,000 TO 1 PROJECT
2015 DISBURSAL OF \$5,000 TO 1 PROJECT
2016 DISBURSAL OF \$94,800 TO 2 PROJECTS

PERMIT #	TOWN	PROJECT TYPE and DESCRIPTION	COWARDIN CLASS	PRIMARY F/V's	OTHER ISSUES	WETLAND LOSS SQFT	TEMPORARY WETLAND LOSS SQFT	STREAM LOSS LF	PAYMENT AMOUNT	ADMIN FEE	DEPOSIT DATE
2016-1493	Stewartston	Stream: Replace Route 145 bridge over Bishop Brook, widen span and replace culvert.	R4SB3 and bank area	Fisheries habitat, shoreline anchoring.				95	\$22,800.00	\$3,800.00	11/29/2016
TOTALS								95	\$22,800.00	\$3,800.00	
GRANT TOTALS								95	\$19,000.00		

SACO RIVER SERVICE AREA
(Available funding \$41,600)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
World Fellowship Center on Whitton Pond & Chocorua River/Upper Saco Valley Land Trust	Albany	\$41,600

World Fellowship Center on Whitton Pond & Chocorua River/Albany

The Upper Saco Valley Land Trust (USVLT) seeks \$41,600 to purchase three separate conservation easements and two deed-restricted areas, totaling approximately 422 acres, of the World Fellowship Center (WFC) campus in Albany. The aquatic resources of the World Fellowship Center include: 3,150 feet of shoreline on the 167-acre Whitton Pond, 2,200 linear feet of the Chocorua River, four pond-wetland complexes, one large and two small river floodplain wetlands, and two or more vernal pools. The undeveloped shoreline around Whitton and Back Ponds and the riparian forest and wetlands along the Chocorua River represent 76 acres of state's Highest Ranked Habitat, as identified by the NH Wildlife Action Plan (WAP). The property also influences important water supply lands with just over thirty-four acres of High Priority Water Supply Lands (HPWSL) are found where the Chocorua River flows through the property, while an additional 21.8 acres of HPSWL intersect the property in its northwest corner. Eleven acres of a Wellhead Protection Area for a community water supply also extend into the WFC property. The site has potential to support rare plants and natural communities, such as the small-whorled pogonia, boreal transitional dwarf heath shrub bog and northern white cedar-hemlock-red maple swamp, as identified in NH TNC's 2009 conservation plan for their Whitton Pond- Chain of Ponds Priority Area. There are nesting sites for the Common Loon (NH threatened species) documented as a continuous breeding resident of Whitton Pond for over 100 years—one of the longest occupied sites in the state. The project will provide an expansion of a contiguous network of conserved lands, comprised of 1,300 acres immediately around Whitton Pond and connectivity to the 229,827-acre White Mountain National Forest.

PEMIGEWASSET-WINNIPESAUKEE RIVER SERVICE AREA
(Available funding \$94,000)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Great Meadow Phase II/Tuftonboro Conservation Commission	Tuftonboro	\$76,500

Great Meadow Phase II/Tuftonboro

The Tuftonboro Conservation Commission will use the \$76,500 ARM Funds to work with the Tuftonboro Board of Selectmen, the Tuftonboro Planning Board, private residents, land conservation organizations, private consultants, and private landowners to protect the "Great Meadow," the largest wetland complex in the town. This 509-acre wetland contains most of the headwaters of the third order Melvin River, which is the largest inflow stream to Moultonborough Bay on Lake Winnepesaukee. It also overlies the largest stratified drift aquifer in the town, with transmissivity yields of over 4,000 acre-feet per day. The 50-acre Michael Phelps property and the 90-acre Sargent property abut the 204-acre, seven-lot town property, all of which overlies the Great Meadow wetland and aquifer. Roughly one tenth of the Phelps lot and one third of the Sargent lot include the Great Meadow wetland, yet over two-thirds of these two lots overlie the aquifer. Both lots include deeded access to potential public well fields on the town properties in the Great Meadow. Based on the reserved right the town controls for developing such water withdrawals, these two lots appear to be critical for this to be realized in the future. The two properties also contain an intact aquatic resource buffer of over 11,000 feet of wetland edge. This buffer is entirely undeveloped and has been managed for timber in the recent past. Wetland wildlife habitat is exceptional, as is the underlying ecological integrity of the two parcels that lie within a 2600-acre unfragmented forest block and much of the Great Meadow lies within Tier 1 or Tier 2 WAP habitat, with > 20% of the two properties falling within Tier 1.

PEMIGEWASSET-WINNIPESAUKEE & SALMON FALLS - PISCATAQUA RIVER SERVICE AREAS

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Birch Ridge Community Forest Project	New Durham	\$350,000

Birch Ridge Community Forest Project/New Durham

The Birch Ridge Community Forest Project (BRCF) proposes to use \$350,000 of ARM Funds in a collaborative effort to permanently conserve 2,019 acres that forms the southern viewshed and 12% of the watershed of Merrymeeting Lake in New Durham. Owned by Dillon Investments LLC, the property is undergoing an aggressive timber harvest in preparation for a likely development sale. Alarmed by the potential watershed impact of development, the Merrymeeting Lake Association (MMLA) secured a purchase agreement earlier this year with a \$200,000 non-refundable deposit and April 2019 closing date. Now the Birch Ridge Community Forest Partnership, which includes SELT, MMRG and MMLA, is working with the Town of New Durham to perform due diligence and to raise funds for the total project cost of \$2,794,000. A conservation easement and a community forest management plan will provide specific protection for aquatic resources. Following the timber harvest, management will focus on habitat improvement, stream and wetland buffer enhancement, trail improvements, and general timber stand improvement. The BRCF property encompasses 2,019 acres extending from the Merrymeeting River to Rattlesnake Mountain, Mt. Eleanor, Birch Ridge, and reaches southward to Coldrain Pond and the Ela River. Straddling two watersheds, 1,311 acres drains north to Merrymeeting Lake in the Pemigewasset/Winnepesaukee watershed and 708 acres drains south to the Salmon Falls/Piscataqua watershed. Most of the property is identified in the NH WAP as Highest Ranked in NH or in the Biological Region. BRCF’s outstanding aquatic resources include over 60 wetlands and 31 documented vernal pools totaling ~125 acres. These range from a 37-acre wetland complex with rare peatland communities around Coldrain Pond to small vernal pools with documented wood frog and spotted salamander egg masses. Within the Winnepesaukee watershed, the property includes ~9.5 miles of wetland frontage and ~1.2 miles of intermittent streams. Within the Salmon Falls watershed, the property includes ~8.4 miles of wetland frontage, ~1,028 linear feet of perennial streams, and ~1 mile of intermittent streams. The property composes 12% of the Merrymeeting Lake watershed. There are three immediate opportunities for wetland restoration and enhancement projects that will enhance the integrity of vernal pools and wetlands, one of which is in the Salmon Falls watershed and two in the Winnepesaukee watershed.

SALMON FALLS - PISCATAQUA RIVER SERVICE AREA
(Available funding TIDAL: \$20,500; NONTIDAL: \$1,239,500)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Bailey Brook Preservation Project/Rye Conservation Commission	Rye	\$75,000
Berry Brook Watershed Stream Restoration & Culvert Removal/UNH Stormwater Center & City of Dover	Dover	\$276,968
Governor’s Run – Sanderson (Lamprey River)/Southeast Land Trust	Epping	\$200,000
Hampton - Taylor River Watershed Land Conservation/Town of Hampton	Hampton	\$88,000
Lamprey River Shoreline/The Nature Conservancy	Durham	\$100,000
Living Shoreline Creation at Cutts Cove/City of Portsmouth	Portsmouth	\$274,757
Living Shoreline for Wagon Hill Farm/Town of Durham	Durham	\$295,350
Lubberland Creek Acquisition/The Nature Conservancy	Durham	\$100,000
Lubberland Creek Restoration Project/Town of Newmarket	Newmarket	\$200,000
Mathes Family Limited Partnership/Southeast Land Trust	Epping	\$158,000

Mullen Tract (Brown Brook Conservation Initiative)/Southeast Land Trust	Fremont	\$122,130
Odiorne Point State Park Critical Wetland & Buffer Restoration/Rockingham County Conservation District	Rye	\$34,270

Bailey Brook Preservation Project/Rye

The Rye Conservation Commission seeks \$75,000 to purchase and protect a 79+/- acre tract of land with aquatic resources and upland buffers all located in the Bailey Brook Watershed. This parcel will be permanently protected through a conservation easement held by the NRCS –WRE program, with restrictions related to protecting and restoring wetlands. The management of this parcel would be overseen by NRCS, and will include funding for restoration components. This is part of an impressive block of relatively unfragmented forest and freshwater wetland habitats spanning from North Hampton to Rye. This parcel includes approximately 1,732 linear ft. of Bailey Brook, and 1,610 linear ft. of an unnamed stream as well as both of their extensive upland buffers. This parcel directly abuts three other protected parcels including: Independence Farm easement (Rye); Rand Forest; and the Metalious easement (North Hampton). This parcel contains approximately 5.5 +/- acres of the Highest Ranking Habitat in the Biological Region, and 65.8+/- acres of supporting landscapes. In addition, almost the entire acreage falls within the Rye Wellhead Protection Area that is situated between Garland, South and West Roads. The permanent protection of this area is of foremost importance for wellhead and water resource protection. The 2018 Natural Heritage Bureau datacheck reveals that this conservation effort would potentially protect and/or enhance a historically documented rare orchid, the dragon’s mouth (*Arethusa bulbosa*) that is found in peatland habitats. Additionally, three documented vernal pools were located on this site in April 2018, the most southerly vernal pool found to be extremely productive. Planned monitoring, vegetative management, and educational opportunities will benefit from existing woods roads on the property. The woods roads also directly connect to the SELT trails, allowing almost 173 +/- acres to be accessed for passive recreation from South and West Roads.

Berry Brook Watershed Stream Restoration & Culvert Removal/Dover

The University of New Hampshire Stormwater Center will partner with the City of Dover to utilize \$276,968 of ARM Funds to restore and reconnect an urban stream, through geomorphic stream restoration, removal of aquatic organism passage barriers, and buffer development. The project will significantly restore and enhance 0.3 acres of stream and floodplain in the Berry Brook watershed in Dover. Through these efforts a 200 linear foot section of highly eroded stream will be restored thereby improving aquatic functions, restoring flood plain and flood storage capacity and enhancing sediment and nutrient retention. The proposed improvements are based on years of activity within the watershed by the project partners. In addition to stream and buffer restoration of the 1st order stream an existing instream culvert will be removed and an upstream hanging culvert restored reconnecting a tributary to Berry Brook and to the Cocheco River. This project aims to restore and reconnect roughly 2,650 linear feet of upland stream and wetland complexes. The 1st order stream is a tributary to the main stem of the Cocheco River, home to many diadromous fish species (American eel, shad, herring, and brook trout). Because it is a first order stream, it has tremendous potential for reestablishment of local species. Through the intensive monitoring efforts associated with this project it is anticipated that the wetland and stream complexes throughout the 186 acre Berry Brook watershed will be removed from the NHDES 303d list and attain full designated use status. For long-term maintenance, this project will rely on the commitment and investment of the City of Dover. The City has demonstrated long-term vested interests in maintaining and building upon the proposed improvement.

Governor’s Run – Sanderson (Lamprey River)/Epping

Southeast Land Trust of NH seeks \$200,000 of ARM Funds to conserve approximately 18 acres in Epping that includes 1,015 linear feet of 2 tributary streams to the Lamprey River and 2,800 linear feet along the western bank of the Lamprey. The Lamprey River is one of two federally designated Wild and Scenic Rivers in NH. The Property includes nearly 3.41-acres of important high value wetlands and floodplains, including 2 documented vernal pools

and 1 probable vernal pool. The Lamprey River Advisory Committee has documented occurrences of wood turtle (Species of Special Concern) on the Property. The Property also includes 15.6 acres of a high transmissivity aquifer, is in a Town of Epping Well Head Protection Area and is in the Source Water Protection Area for the Durham-UNH Water System. The Property will be conserved permanently through the conveyance of the Property to SELT for its conservation ownership and management. Although not contiguous to conservation land, across the Lamprey River is an undeveloped property that is a high priority for conservation which then abuts SELT's 530-acre Mast Road Natural Area. Approximately 99% of the Property is designated as Highest Ranking Habitat in the Biological Region with the remaining 1% as Highest Ranking Habitat in the State. The Property is within a "High Priority" site for Blanding's turtles identified in the "Conservation Plan for Blanding's Turtle and Associated Species of Conservation Need in the Northeastern United States" and is a priority site for NHFG. Approximately 14.59-acres of surrounding upland natural buffers will be conserved through this project. The Property is within a 780-acre NHFG mapped unfragmented forest block that with the completion of this project will result in approximately 53% of the block conserved.

Hampton – Taylor River Watershed Land Conservation/Hampton

The Hampton Conservation Commission seeks \$88,000 of funds to purchase and permanently protect 70 acres of land in the Taylor River watershed. This parcel is part of a 1,200 acre block of relatively unfragmented forest and freshwater wetland habitats spanning across Hampton and Hampton Falls. It abuts two of the largest conservation easements and prime wetlands totaling 700 acres. The NHFG WAP identifies this parcel as Tier 1 and Tier 2 habitat with 56 acre of supporting landscape. The project will protect 5,139 linear feet of Ash Brook, 841 linear feet of Taylor River, and 4,050 linear feet of an unnamed stream. It would increase connectivity of a relatively pristine riparian system, including over 10,000 linear feet of streams and upland buffers. A variety of fish species will be conserved including American Eel, Redfin Pickerel, both species of special concern as well as plant species. Several plans and studies have identified the Taylor River complex as important including the 2006 Land Conservation Plan for NH's Coastal Watersheds, the Hampton-Hampton Falls Prime Wetland Study, and master plans.

Lamprey River Shoreline/Durham

The Nature Conservancy (TNC) seeks \$100,000 of ARM Funds to acquire the 10.5-acre Lamprey River Shoreline tract along the Lamprey River in Durham, adding it to TNC's abutting 233-acre Lamprey River Preserve. The property includes 1,660 feet of frontage on the Lamprey River and nearly an acre of floodplain forest and wetland habitat along the river. The project will protect wetland wildlife habitat, fish and aquatic habitat and help protect the water quality of the Lamprey River and Great Bay by preventing other uses or development of the parcel. With its extensive river frontage and high bluffs, the tract is a local scenic and recreational resource. Connected to nearly 1500 acres of other protected land, it is an important link in a block of conserved properties. Due to its valued resources and importance as a tributary to the Great Bay National Estuarine Research Reserve, the lower Lamprey has been designated a federal Wild and Scenic River through the National Park Service. The Lee and Durham sections of the river are State-designated under the NH Rivers Management and Protection Program. A large percentage of the land in the river's corridor is undeveloped, yielding water of sufficient quality to be used as a reserve water supply for the Town of Durham. The project tract along the river is ranked as Tier 1 wildlife habitat by the NH Wildlife Action Plan (WAP). The remainder of the tract is ranked as Tier 2 or 3. The NH Natural Heritage Bureau (NHB) has documented 15 rare species and 1 exemplary natural community on or within a mile of the tract. The property is also within an important Blanding's turtle protection area identified by the Northeast Blanding's Turtle Working Group, a cooperative project of the US Fish and Wildlife Service and the NH Fish and Game Department.

Living Shoreline at Cutts Cove/Portsmouth

The University of New Hampshire seeks \$274,757 of funds to continue restoration of the living shoreline at Cutts Cove in Portsmouth. The southern shoreline of Cutts Cove consisted of approximately 1,000 feet of large rip rap that

extends from above spring tide to low tide. A pre-existing salt marsh lay seaward of a small portion of the rip-rap. The entire shoreline is fronted by mudflats. In summer 2016 a previous ARM grant supported construction of 60,000 square feet (sf) of mudflats enhancement with oyster shell and in summer 2017, 200 feet of the rip rap was removed and replaced by new salt marsh and tidal buffer. This ARM grant application is to complete the restoration of the approximately 600 feet of remaining rip rap shoreline. Elevations that can support salt marsh grading into the upland will be converted from rip-rap to salt marsh and tidal buffer zone where the marsh is capable of migrating in the future. The existing rip rap prevents salt marsh as well as salt marsh migration. Over 50 adults and 80 fifth-grade students helped plant the marsh last year. We will extend the educational opportunities to local schools and the public to this part of the marsh and work with the City to develop long-term permanent signage about this restoration for the new city park to be built landward of the project. The project proposed in this application will create 17,597 sf of salt marsh and 4,281sf of tidal buffer, all capable of accommodating landward marsh migration in the face of sea level rise. As the project applicant, UNH will oversee all aspects of the restoration, monitoring, and reporting; extending the previous work at the site by the team.

Living Shoreline for Wagon Hill Farm/Durham

The Town of Durham seeks \$295,350 to manage a rapidly eroding shoreline at Wagon Hill Farm (WHF) on the tidal Oyster River by restoring salt marsh habitat and minimizing erosion using state-of-the-science best management practices. A 0.36 acre living shoreline will be constructed and monitored to restore lost and degraded salt marsh, address erosion, prepare for sea-level rise and educate planners and the public. Restoration will provide ecosystem services including high quality habitat, nitrogen cycling, carbon storage, and enable marsh migration. A monitoring plan will address erosion, structural and biological components of the living shoreline. Approximately 296 feet of shoreline, from the artificial beach area to a historic crib pier, will be regraded, and planted to restore 15,700ft² of salt marsh and tidal buffer. A cross-section of the new marsh will begin with a rock sill to protect the low marsh edge, grade up into irregularly flooded high marsh and extend into a tidal buffer zone allowing marsh migration as sea-level rises. As one of the few public access points on Little Bay, the project will provide an excellent educational opportunity; signs will explain the history, project importance, wetland resources, and guide public use to minimize erosion along the entire shoreline by restricting and redirecting pedestrians, dogs, and boats. The project will control and restrict public access using fencing, maintaining water access at a defined location and providing an observation platform that overlooks the project and River. Stormwater runoff, also cited as an erosional stressor, will be treated by a system designed to hold and denitrify runoff.

Lubberland Creek Acquisition/Durham

The Nature Conservancy seeks \$100,000 to acquire the 30-acre Lubberland Creek Acquisition parcel in the heart of the Crommet Creek Conservation Area (CCCA) in Durham, and provide permanent protection by adding it to TNC's abutting 282-acre Lubberland Creek Preserve. The CCCA comprises 4,922 acres in Durham and Newmarket, of which nearly half is protected through conservation ownership or restriction. It is the largest block of natural lands in the immediate Great Bay watershed and NH's North Atlantic Ecoregion, and includes the entire watershed of two tidal creeks, Lubberland and Crommet, that flow directly into the Great Bay estuary. The CCCA has been identified as a "core conservation focus area" in the *Land Conservation Plan for the Coastal Watershed* (Zankel et al. 2006), and is a protection priority by the Great Bay Resource Protection Partnership due to its size, the diversity of habitats and wildlife it supports and its integral role in protecting the water quality of the Great Bay. The tract is also part of the Great Bay National Estuarine Research Reserve. The NH WAP ranks the entire tract as Tier 1, highest ranked in the State, and it is within an important Blanding's turtle protection area identified by the Northeast Blanding's Turtle Working Group, a cooperative project of the US Fish and Wildlife Service and the NH Fish and Game Department. The Lubberland Creek tract is surrounded by and connects over 2,100 acres of other conservation land in the CCCA. The Lubberland Creek property contains 12.36 acres of Appalachian rich swamp wetlands, including a 0.6-acre freshwater marsh. The tract abuts and includes part of a 40-acre ponded marsh in a matrix of wetlands and forest. One potential vernal pool is located on the tract.

Lubberland Creek Restoration Project/Newmarket

The Town of Newmarket and The Nature Conservancy (TNC) seek \$200,000 of ARM Funds for the restoration of Bay Road's crossing of Lubberland Creek in Newmarket. The project will achieve three primary goals: (1) to restore aquatic connectivity at the system's tidal/freshwater interface allowing diadromous fish passage at the perched Bay Road culvert, (2) to enhance the resilience of Lubberland Creek salt marsh, Great Bay estuary's second largest contiguous salt marsh and documented exemplary natural community, by removing the existing tidal restriction at Bay Road with a structure that will allow upstream salt marsh migration, and (3) to remediate the flood hazard of this road-stream crossing, which overtops during flood events and thereby compromises public safety and contributes excess sediments and nutrients to Great Bay. The Town of Newmarket will lead project management and construction efforts; TNC is responsible for post-construction monitoring. Lubberland Creek is a high quality first order stream that runs from the interior of the largest unfragmented forest block proximal to Great Bay to its outlet in the Estuary. It is a low gradient system with beaver ponds and large freshwater marshes that support abundant fish and wildlife. Nearly 60% of the project's watershed is conserved or publicly owned, providing significant protections to the watershed's aquatic resources. The Lubberland Creek wetlands immediately upstream of Bay Road are designated as prime by the Town of Newmarket. The entire Lubberland Creek riparian corridor and associated wetlands are identified by New Hampshire's Wildlife Action plan as Tier 1 and align with core conservation focus areas identified by the Land Conservation Plan for New Hampshire's Coastal Watersheds. Lubberland Creek currently passes through a 36-inch squashed, corrugated metal pipe at Bay Road. To accommodate sea level rise and 100-year storm events (using National Research Council sea level rise scenarios and Northeast Regional Climate center data, respectively) the replacement box culvert will span 16 feet. The invert will drop approximately three feet to restore full aquatic organism passage from its current barrier status, with a vertical structural span of nine feet.

Mathes Family Limited Partnership (Lamprey River)/Epping

The Southeast Land Trust seeks \$158,000 in ARM Funds to protect approximately 129.6 acres in Epping located on the east side of Diamond Hill Road and the west bank of the Lamprey River. The parcel encompasses 2,330 linear feet of a tributary stream to the Lamprey River and 4,560 linear feet along the western bank of the Lamprey. The Lamprey River is one of two federally designated Wild and Scenic Rivers in NH. The Property includes nearly 40.4-acres of important high value wetlands and floodplains, including 3 documented vernal pools and there is habitat on the Property to support nearby known occurrences of 3 rare turtle species. The Property is also within a NHDES Hydrologic Area of Concern and is in the Source Water Protection Area for the Durham-UNH Water System. The Property will be conserved permanently through the conveyance of a Wetlands Reserve Easement (WRE) to the Natural Resources Conservation Services (NRCS), followed by the conveyance of the WRE encumbered Property to SELT for its conservation ownership and management. After the acquisition is complete NRCS will undertake wetland and habitat restoration activities with the consultation and advice from the NH Fish & Game Department. This restoration work is not being used as ARM project eligibility or ARM funding. Conserving this parcel will create a contiguous block of 640-acres of conservation land, not including conservation land across the Lamprey River or Route 125. Approximately 70.5% of the Property is identified as WAP Tier 1 with the remaining 29.5% designated as Tier 2 habitat. The Property is within a "High Priority" site for Blanding's turtles identified in the "Conservation Plan for Blanding's Turtle and Associated Species of Conservation Need in the Northeastern United States" and is a priority site for NHEFG. The Property is within a 1,670-acre NHEFG mapped unfragmented forest block that with the completion of this project will result in approximately 56% of the block conserved.

Mullen Tract (Brown Brook Conservation Initiative)/Fremont

Southeast Land Trust of NH seeks \$122,130 of funds for the proposed 33.8 acre conservation parcel that includes 1,290 linear feet of a tributary to Brown Brook, a tributary to the Piscassic River. The Property includes nearly 12.5-acres of important high value wetlands, including 12.1-acres of Prime Wetlands, and 1 documented vernal pool. In addition the Property is entirely Tier 1 or Tier 2 habitat identified in the Wildlife Action Plan and the landowner has

documented occurrences of Blanding’s turtle (S1) on the Property. The Property also includes 2.3 acres of a high transmissivity aquifer which extends onto adjoining conservation land. The Property will be conserved permanently through the conveyance of a Wetlands Reserve Easement (WRE) to the Natural Resources Conservation Services (NRCS), followed by the conveyance of the WRE encumbered Property to SELT for its conservation ownership and management. Conserving this parcel will create a contiguous block of 218-acres of conservation land and is within a 3,325-acre NHFG mapped unfragmented forest block that with the completion of this project will result in approximately 29% of the block conserved. In addition, after the acquisition is complete NRCS will undertake wetland and habitat restoration activities. This restoration work is not being used as ARM project eligibility or ARM funding. Approximately 39% of the Property is identified as WAP Tier 1 with the remaining 61% designated as Tier 2 habitat. The Property is within a “High Priority” site for Blanding’s turtles identified in the “Conservation Plan for Blanding’s Turtle and Associated Species of Conservation Need in the Northeastern United States” and is a priority site for NHFG. After the acquisition is complete NRCS will undertake wetland and habitat restoration activities with the consultation and advice from the NH Fish & Game Department. The restoration activities discussed to date include invasive species management, re-establishment of riparian buffers through the planting of trees/shrubs, maintenance of early successional habitat, and creating turtle nesting habitat focused on Blanding’s turtle.

Odiorne Point State Park Critical Wetland & Buffer Restoration/Rye

Rockingham County Conservation District seeks \$34,270 for proposed restoration of 6+/- ac of glossy buckthorn swamp and 6.5+/- ac adjacent invaded uplands that border two noteworthy wetlands. Of the 12.5+/- ac project, 5+/- ac will be new restoration and 7.5 +/- ac are in areas where restoration has been initiated through funding from a NHCP grant (federal dollars). That grant had a limited amount of funding available and focused heavily on the initial treatment and removal of mature glossy buckthorn biomass. This left only a minimal level of funding available to devote to replanting and retreatment. The current proposal would complement and extend that initial effort. Glossy buckthorn has been linked to reduced vegetative biodiversity through resource competition and allelopathy (e.g., Frappier et al. 2004, Izhaki 2002). It also produces a chemical defense compound (emodin) that has been reported to have negative impacts on aquatic and terrestrial wildlife (e.g., Sacerdote & King 2014, Izhaki 2002). These potential impacts are important because the targeted buckthorn areas border highly valuable wetlands that could be affected by these compounds through falling leaf matter, roots, and soil leaching. Long-term success of the project is grounded in ecological theory (e.g., Gotelli 1991). Because the park is essentially an island, regional dispersal and propagule pressure (over which we have relatively little control) have much less importance than local dispersal and local propagule pressure (which we can strongly control). The objective of this project is to restore and enhance ecological integrity and wildlife habitat values to two highly noteworthy wetland systems.

MERRIMACK RIVER SERVICE AREA
(Available funding \$1,792,000)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Brox Community Lands Conservation Easement/Milford Conservation Commission	Milford	\$20,000
Piscataquog South Branch Connectivity Project/Francestown Land Trust	Francestown	\$118,975
Robert French Fee/Piscataquog Land Conservancy	Weare	\$185,000
Stillhouse Forest/Society for the Protection of NH Forests	Canterbury & Northfield	\$150,000

Brox Community Lands Conservation Easement/Milford

The Milford Conservation Commission proposes to use \$20,000 of ARM Funds to permanently protect about 75 acres of the Brox Community Lands and its natural resources with a Conservation Easement. The MCC needs to protect this unique property from an unpredictable future. The Community Lands consist of a mix of waterbodies

with the associated marsh and shrub wetland habitats and vernal pools, a large open sand pit (due to past and present sand and gravel mining operations), and undisturbed forested areas. The wetlands and water bodies represent about a third of the area, around 45 acres. The wildlife habitats of the property have been ranked as "Highest Ranked Habitat in the Biological Region" by the NH WAP. The largest waterbody within the Brox property is about 35 acres of open water impounded by a beaver dam across Birch Brook. The beaver impoundment has supported many Great Blue Herons, and this has given rise to the Heron Pond name. As a wetland, Heron Pond and its associated wetlands/vernal pools are subject to a degree of protection, under State and Federal regulations, as well as being in the jurisdiction of the NH Department of Environmental Services (NHDES), and the US Army Corps of Engineers (ACOE). Wildlife inhabiting the area is, to one degree or another, dependent upon the dry, forested uplands surrounding the wetlands. As well as the area's high habitat ranking, the following state listed species have been sighted there: Blanding's turtle (*Emydoidea blandingii*) (endangered), Spotted turtle (*Clemmys guttata*) (threatened), and Eastern Hognose snake (*Heterodon platirhinos*) (endangered). The permanent protection of the Brox Community Lands will be effected via a CE, which the MCC intends to secure in association with the NH Fish and Game, who will hold and administer the CE, as per its provisions.

Piscataquog South Branch Connectivity Project/Francestown

The Francestown Land Trust will utilize the \$118,975 of ARM Funds to protect and connect land along the South Branch of the Piscataquog River and its tributaries. In this phase of the initiative connectivity of protected lands along the South Branch will be provided by: (1) Purchase a 12+ acre property along the west side of the South Branch to protect in perpetuity (Connard, Lot 34 on attached maps) and (2) Protect in perpetuity 11.6 acres along the east side of the river, opposite the Connard parcel, as a conservation easement donated by landowners in support of this project (Murphy, Lot 34.1 on attached maps). The Connard property contains upland and riparian forests and a 1.46-acre Red Maple-Black Ash Swamp. The Murphy CE will protect upland forest, a floodplain forest containing 4.22 acres of Red Maple-Black Ash Swamp, vernal pools, and an intermittent stream that flows from the wetlands into the South Branch. The project will permanently protect a buffer of riparian and upland forests along approximately 2,000 feet of the Piscataquog South Branch. This section of river is also listed as Wild Eastern Brook Trout Habitat. Approximately 18 acres in this project area are classified as the highest ranked habitat in NH (Tier 1), as defined by NH WAP. Based on the presence of pollution intolerant aquatic insects, the water quality in this section of the South Branch is excellent. The NH Natural Heritage Bureau reports that one endangered and one species of special concern have been found in the vicinity of the project area.

Robert French Fee/Weare

The Piscataquog Land Conservancy proposes to use \$185,000 of ARM Funds to protect 205 acres of exemplary aquatic resources and upland buffer. The target property contains 22.58 acres of wetlands, comprised of a string of beaver-impounded wetlands that run north-south down the center of the property, and at least 11 vernal pools scattered across the remainder of the tract. The largest of the pools is a .65-acre black gum-red maple basin swamp that features trees approximately 400 years in age. The property also includes a 4,700-foot riparian corridor along Bartlett Brook, which flows north through the property's beaver ponds and meadows towards the main branch of the Piscataquog River. The headwaters of Bartlett Brook are designated a High Quality Water and Outstanding Resource Water by NHDES. The property's wetlands provide habitat for a number of wildlife species, notably various waterfowl species, otter, mink, and beaver. Its riparian and pool wetland vegetation likely supports rare turtle species, and the Wood Turtle has been documented within one mile of the property. The quality of the land's habitat is supported by the N.H. Wildlife Action Plan, which designates 88 acres of the property as Tier 1, and another 74 acres as Tier 2. The remaining 43 acres is classified as Supporting Landscape that buffers the highest quality habitat. The primary goals of the project are to protect the property's central wetland complex, vernal pools, and buffering forested uplands, and expand the permanent protection of Bartlett Brook from its existing 2,700 ft. in the downstream Weare Bartlett Town Forest to 7,300 ft. (1.4 mi.). This would represent 88% of Bartlett Brook's total length of 1.6 mi. The project would also link 473 acres of previously unconnected conservation land: 263 acres to the

north owned by the Town of Weare and NEFF, and 210 acres to the southeast owned by PLC and the Town of Weare.

Stillhouse Forest/Canterbury & Northfield

The Society for the Protection of New Hampshire Forests (Forest Society) is working to use the \$150,000 of ARM Funds to purchase the 215 +/- acre "Stillhouse Forest" from a Canadian timber company which placed the land on the open market last year. The parcel has over a mile of undeveloped frontage on the Merrimack River in Canterbury and Northfield, NH. The land will be acquired as a permanently protected property that will remain open to the general public for passive recreational activities. This ecologically rich property has 20 acres of wetlands, two significant oxbows that support high quality silver maple floodplain forest, a mile long perennial stream containing native brook trout, exceptional riparian wildlife habitat, several rare or threatened species, two exemplary natural communities, and 14 confirmed vernal pools. Specifically, the NH Natural Heritage Bureau reports that the property contains the pygmy snaketail dragonfly, bald eagles and wood turtles. The property contains excellent habitat with approximately 38% of the property is categorized within NH Fish & Game's Wildlife Action Plan as "Tier 1 or Tier 2" habitat. The two possible exemplary natural communities include the dry river bluff natural community and the silver maple-false nettle-sensitive fern floodplains which contain the vernal pools and silver maples that are hundreds of years old. Stillhouse Forest is located directly across from Penacook & Boscawen Water Precinct's three main drinking water wells. According to DES DataMapper, the wells are classified as a Major Community Water System serving a local population of 3,800. The Stillhouse property is entirely within the Source Water Protection Area and approximately 80% of the land is within the Wellhead Protection Area for these community drinking water wells.

MERRIMACK RIVER (CTAP) SERVICE AREA
(Available funding \$828,000)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Country Hill Estates Parcel Preservation/City of Concord	Concord	\$350,000
Donald Street Water Quality Improvement Project/Town of Bedford	Bedford	\$520,000
Jennings CE/Piscataquog Land Conservancy	Goffstown	\$94,000
Parker Farm's Forest/Society for the Protection of NH Forest	Auburn	\$375,000

Country Hill Estates Parcel Preservation/Concord

The City of Concord Conservation Commission (the "Commission") has applied for \$350,000 to protect two parcels of land off District 5 Road in perpetuity. The Commission proposes to acquire the 227.39 acres of undeveloped forested upland and wetland through fee simple acquisition and to protect the land through deed restrictions. The property is undeveloped with the exception of several stone walls from historic agricultural use and an unmaintained dirt road/trail which is the former extension of District 5 Road into Hopkinton. This portion of the road was discontinued in 1953. Approximately 175 acres of the property is within the Merrimack River Watershed; the northwest corner of the property is in the Contoocook River Watershed. The protection of this property will add to a large block of conservation land, including the adjacent 546 acre Rossvie Farm. There are approximately 27 acres of forested scrub-shrub and riverine/upper perennial wetlands associated with two streams. Multiple potential vernal pools and ephemeral pools were observed north of Ash Brook. The major wetland drainage areas also provide great habitat for amphibians. The current owners purchased the property with the intent of creating a large single-family development. Under the current City regulations, the site could potentially support up to 40 single family house lots or 100 residential condominium units, including new roadways and other site improvements that would impact wetland and upland habitat. While the current owners no longer wish to develop the site, the threat of future development remains unless the property is permanently protected. The Wildlife Action Plan (WAP) identifies the majority of the subject property as Highest Ranked Habitat in the State and the remainder of the

property as Highest Ranked Habitat in the Region. Further, the entire property is located within the Higher Scoring Conservation Focus Area (CFA) and the High Scoring CFA as identified in the Merrimack Valley Regional Strategic Conservation Plan.

Donald Street Water Quality Improvement Project/ Bedford

The Town of Bedford is proposing a water quality improvement project in the McQuesten Brook watershed in conjunction with improvements to Town roads. There are no current stormwater treatment facilities implemented within the project area. Proposed work will include the installation of deep sump catch basins, underdrain, permanent erosion control measures, and a gravel wetland treatment pond located on Parcel 43-36 (1 Dery Street), a 0.4-acre parcel that the Town proposes to purchase. Pending further engineering studies, additional treatment may also be possible off Swan Avenue. In addition, the Town proposes to secure a conservation easement on approximately 2.5 acres of Parcel 44-1 (11 Curtis Court), adjacent to two tributaries of McQuesten Brook. Two unnamed, first order streams flow through the project area. These streams converge within the proposed conservation easement before outletting into McQuesten Brook approximately 3,200' to the southeast. Approximately 0.5 acres of wetlands associated with the unnamed streams are located in the easement area. The McQuesten Brook watershed supports wild Eastern brook trout, listed as a Species of Greatest Conservation Need in the NH Wildlife Action Plan (WAP) and considered a high priority fish species for NH Fish & Game. This species requires cold, well-oxygenated, clean streams. The brook trout population in McQuesten Brook is within the 95th percentile for brook trout density in NH and is considered a high-quality, naturally reproducing population. The NH WAP identifies a block of unfragmented habitat just to the north of the project at the headwaters of the two tributaries, as well as approximately 400' south of the proposed conservation easement. The entire watershed is located within a Source Water Protection Area and portions are underlain by a stratified drift aquifer.

Jennings/Goffstown

The Piscataquog Land Conservancy seeks \$94,000 of ARM Funds to permanently protect 52+/- acres of exemplary aquatic resources and upland buffer via the purchase of a conservation easement. The target property contains approximately 11.6 +/- acres of wetlands, comprised of 10.2 acres of prime wetland in Paige Hill Marsh and an additional 1.29 acres along Harry Brook. The property also includes approximately 1,380 feet of riparian corridor: 560 feet of Harry Brook and 820 feet of a tributary of Harry Brook that flows through Paige Hill Marsh. The segment of Harry Brook is designated by NHDES as a High Quality Water. Our wetland assessment indicates one probable vernal pool east of Harry Brook. The property's wetlands and riparian corridors provide habitat for a variety of wildlife species, and the Spotted Turtle and Northern Black Racer has been documented within 1 mile of the property. The quality of the land's habitat is supported by the N.H. Wildlife Action Plan, which designates 20 acres of the property (40%) as Tier 1 wildlife habitat, and another 5 acres (10 %) as Tier 2. The remaining 26 acres is classified as Supporting Landscape. The project would fill a gap in over three miles of contiguous protected land along Harry Brook. The PLC CE would cover the eastern portion of Paige Hill Marsh, and the Town of Goffstown is currently under contract to purchase the 50 acre tract to the west of the Jennings tract. The town has already purchased the 10 acre tract to the west, connecting Jennings with PLC's Porritt tract. Taken together, conserving these properties will nearly complete the protection of the Paige Hill Marsh prime wetland. The Town is also in negotiations for the tract just to the north, and if they are successful, which would give complete protection to the marsh.

Parker Farm's Forest Easement/Auburn

The Forest Society and Manchester Water Works (MWW) seek \$375,000 of ARM Funds to conserve the majority of the last undeveloped parcel of land on Lake Massabesic not owned by MWW. Lake Massabesic is the surface water drinking source for over 165,000 residents of the City of Manchester and surrounding towns. The proposed easement will conserve 2,050 feet of undeveloped shoreline providing a critical forested buffer to Lake Massabesic. Much of the property supports a mature, Appalachian oak-pine forest and hemlock-beech-oak-pine forest. The land contains 4.9 acres of wetlands and several intermittent and ephemeral drainage ways which drain towards the lake. Many of these drainage ways support bench wetlands on hydric soils. The most extensive of these wetland systems

feeds into a large wetland complex along the shores of Massabesic Lake in the southern part of the property. 25% of the land (primarily shoreline) is classified as Tier 1 wildlife habitat "Best in the State" according to the NH WAP and it has been identified as having Tier 1 and Tier 2 Conservation Focus Area of the Merrimack Valley Regional Strategic Conservation Plan. If conserved, the property will add to the thousands of contiguous acres of MWW land around the lake and further guarantee undeveloped shoreline by another 2,050 feet. An easement on this land would guarantee a 100-foot uncut forested buffer along this critical shoreline and a 50-foot buffer along the land's wetlands.

LOWER CONNECTICUT RIVER SERVICE AREA
(Available funding \$1,700,000)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Cranberry Bog Culvert Replacement and Stream Restoration/Town of Winchester	Winchester	\$215,488
Fitzwilliam NH Route 119 Culvert Replacement & Stream Passage Improvement/NHDOT	Fitzwilliam	\$250,000
Granite Lake Headwaters/Harris Center for Conservation Education	Stoddard	\$200,000
Jones Culvert Replacement and Stream Restoration/Town of Winchester	Winchester	\$263,270
North Branch Sugar River Land Conservation Project – Ruger Property Acquisition/NHFG	Newport, Croydon, Grantham	\$475,000
Thompson Brook Restoration/Cheshire County Conservation District	Surry	\$74,195
Tunis District – Headwater & Wetland Protection Project/Upper Valley Land Trust	Hanover	\$299,644.75

Cranberry Bog Culvert Replacement and Stream Restoration/Winchester

The Town seeks \$215,488 to replace the failing Cranberry Bog culvert, provide for 2.68 miles of stream connectivity both upstream and downstream of the new culvert, address a perched culvert condition, and improve the stream to enhance aquatic habitat. The existing culvert is considered a Tier 3 crossing and is located on Snow Brook which flows to the Ashuelot River under Back Ashuelot Road. The existing culvert is a 48" x 60' long corrugated metal pipe. The pipe is rusted and corroded and subject to structural collapse. The Town is recommending a 5' x 12' x 60' long closed bottom pre-cast concrete box structure be installed in accordance with the NH Stream Crossing guidelines. The project will improve hydraulic capacity and flood resiliency by increasing the height and span of the new culvert to match existing bankfull widths within the stream channel. The work includes wetland restoration and will create 4 ft. wide floodplain benches on both sides of the stream and stabilize a total of 160 sq.ft. of the upstream bank and 610 sq.ft. of the downstream bank by installing biodegradable coir fabric, and replanting native species.

Fitzwilliam NH Route 119 Culvert Replacement & Stream Passage Improvement/Fitzwilliam

The NH Department of Transportation seeks \$250,000 of ARM Funds for a culvert replacement and stream passage improvement project in the Town of Fitzwilliam. The proposed project is located on NH Route 119 about 10 feet west of Holman Road. Kemp Brook flows under NH Route 119 through two structures at this location. The first of which is a 4.5'x4' stone box culvert. The second crossing consists of a 60" steel corrugated pipe (CMP). These two culverts act like a "twin" structure where the pipes are placed side by side. The overall goal for this replacement is to address a deteriorating State asset that is in an overall poor condition and is sensitive to failure, as well as improve hydraulic capacity and geomorphic compatibility of the stream crossing, while also opening the crossing up to more connectivity and supporting wildlife passage. The crossing has been scored as having reduced aquatic organism

passage (AOP), partially geomorphically compatible, and in poor condition. The proposal is to replace the twin structure with a single span 5'x 10' precast box with natural bottom fill which is a more practicable and cost effective alternative. By replacing and upsizing this crossing, the brook's connectivity, geomorphic compatibility, aquatic organism passage, and overall structure condition will be improved.

Granite Lake Headwaters/Stoddard

The Harris Center for Conservation Education seeks \$200,000 of ARM funds to permanently conserve a 515-acre parcel in Stoddard known as the Granite Lake Headwaters. This property is located south of Route 9, in a rural zone with a 2-acre minimum lot size. It directly abuts 2,275 contiguous acres of land conserved by the Harris Center. In addition, it's adjacent to an 11,500-acre corridor of protected land that stretches in an unbroken belt from Stoddard south to Peterborough. The protection of this parcel will also provide negotiating leverage with an abutting landowner who has expressed interest in conserving 350 acres to the south, pending protection of the Granite Lake Headwaters. Once the Granite Lake Headwaters property has been protected, 30 percent of the Granite Lake watershed will be conserved. This mostly upland parcel has several deeply incised drainages on its steep northwestern and southeastern slopes. The property contains two confirmed natural vernal pools. The first order streams flow across the property for more than three miles. Two of these streams (totaling more than a mile) flow west into Nye Meadow, a 45-acre natural wetland protected by NH Audubon, and then into Granite Lake, a 238-acre cold-water lake managed by NH Fish and Game for its lake trout population. This portion of the property is part of the Lower Connecticut River watershed. Three other streams flow east through conservation land that was protected via an ARM grant in 2015 and then into Bailey Brook, through Robb Reservoir, and into the North Branch and Contoocook Rivers.

Jones Culvert Replacement and Stream Restoration/Winchester

The Town seeks \$263,270 to replace the failing Jones culvert and provide stream restoration and stream passage improvements to enhance geomorphic compatibility, hydraulic capacity, flood resiliency and aquatic organism passage. The Jones culvert is considered a Tier 3 stream crossing and is located on an unnamed stream which flows to the Ashuelot River under Back Ashuelot Road. The existing stream crossing consists of an old undersized 6 x 6 stone and concrete box culvert. The culvert is approximately 28 feet long and crosses under the road at a skewed angle. It is showing signs of downstream bank scouring causing extensive undermining at the wing walls and the bottom of the box is eroding and mostly gone. The funds will replace the culvert with a 5 ft. x 12 ft. wide pre-cast concrete box 29.5 ft. long to be installed in accordance with the NH Stream Crossing guidelines and restore the stream which has been identified as a cold water tributary to the Ashuelot River. The region is identified as an important conservation focus area and conservation target by the Ashuelot River Watershed Conservation Plan. Restoration includes stabilizing a total of 300 sq.ft. area of upstream and downstream bank and to replanting native species.

North Branch Sugar River Land Conservation Project – Ruger Property Acquisition/Newport, Croydon & Grantham

The New Hampshire Fish and Game Department is requesting \$475,000 to be used for costs associated with the fee acquisition of two properties totaling 3,181 acres known as the Ruger lands within the watershed of the North Branch of the Sugar River. The project will permanently protect 416.81 acres of diverse wetlands habitat plus 28 vernal pools and 10.85 miles of stream centerlines running through the property; expand the extent of protected lands in a 48,750 acre unfragmented block of natural land cover; conserve 1,906 acres of tier 1 & 2 Wildlife Action Plan habitat; and provide habitat for numerous wildlife species including at least 12 species of greatest conservation need (SGCN). Both parcels are fully within a Source Water Protection Area for public drinking water, 454 acres of the Brighton Forest parcel have been identified as High Priority Water Supply Lands and the Loverin Hill parcel contains 10.35 acres of stratified drift aquifer. The Brighton Forest parcel (1,905 acres) has 713.2 acres of NH Wildlife Action Plan (WAP) highest ranked wildlife habitat in the state, 366 acres of highest ranked habitat in the biological region, and 767 acres of supporting habitat which together cover 94% of the parcel. While the parcel is dominated by

Northern Hardwood-Conifer forests it also contains a variety of other habitat types including approximately 40 acres of managed shrubland under an existing powerline right-of-way, 14.6 acres of old field, and 237.67 acres of a variety of wetland types including a 132 acre marsh complex and 11 documented vernal pools. There are 6.97 miles of stream centerlines flowing through the property including Dodge Brook and its tributaries. The Loverin Hill parcel has 532.2 acres of NH Wildlife Action Plan (WAP) highest ranked wildlife habitat in the state, 294.5 acres of highest ranked habitat in the biological region and 390 acres of supporting habitat which together cover 98.2% of the parcel

Thompson Brook Restoration/Surry

The Cheshire County Conservation District proposes to use \$74,195 for a proposed stream passage improvement project to provide aquatic organism passage that is currently restricted and will be improved to fully passable by all organisms. There will be approximately two and a half miles of upstream, barrier free, aquatic habitat reopened by this project. In 2011 the Ashuelot River Stream Crossing Improvement Project (ARSCIP) prioritized stream restoration locations in the Ashuelot River Watershed of Southwestern NH with an overarching goal of reconnecting 15 miles of upstream habitat and spawning grounds for brook trout and other aquatic organisms. The Project identified twenty three priority Ashuelot River sub-watersheds. This group of watersheds was then narrowed down to seven priority sub-watersheds and specific culvert crossings were selected and ranked based on the primary objective of opening upstream habitat for aquatic organisms. Ultimately, Thompson Brook sub-watershed was identified as the third highest priority sub-watershed in the Ashuelot River Watershed due to the amount of high quality cold water habitat throughout this stream network. The majority of Thompson Brook consists of excellent brook trout thermal refugia and spawning habitat. The project that we would like to propose for ARM funding is to work with the community and partners to restore the box culvert barrier for fish passage using a backwatering technique at this priority site. NH Fish and Game has completed fish surveys and identified Eastern Brook Trout on site. The project team's goal is to recreate access to this tributary stream by retrofitting a severely perched box culvert, owned and maintained by NHDOT. The restoration includes two components: 1) redirect high energy stormwater flows away from the confluence of the tributary outflow and 2) to create a step pool structure to restore aquatic passage over the perched outflow end of the box culvert. Once the energy in Thompson Brook is directed away for the tributary's outflow, the approach would be to create a series of three to four step pools, using large native stone, to create a series of stable grade controls to rise up to meet the elevation of the outlet lip of the box culvert. Once that elevation is achieved, it will allow most aquatic species to move up stream through the culvert even during relatively low flow conditions. The rest of the tributary's upper stream reaches maintain deep natural pools, protected by rock and large wood that offers excellent habitat features for brook trout, sculpin, and dace. Additionally, boulder clusters on the upstream side of the confluence and root wad revetments on the downstream side, will be added to help divert and dissipate high flow energy while at the same time creating excellent holding areas and overhead cover for the fish

Tunis District – Headwater & Wetland Protection Project/Hanover

The Upper Valley Land Trust seeks \$299,644.75 to complete the Tunis project which will result in the permanent protection of 337± acres of headwater wetlands, streams, and uplands east of Moose Mountain, providing critical connectivity between the Appalachian Trail Corridor (AT), Hanover Town Forest lands, and other conserved properties. The Tunis property sits at 1100 feet near the top of the Mascoma River Watershed, to the east of Moose Mountain, and includes varied topography with uplands and basins draining to three different 1st order streams, including Tunis Brook, Straw Brook, and Goose Pond Brook. The property will be purchased and will be managed for ecological, educational, and recreational purposes, ensuring the long term protection of its natural communities and water features. These properties include several amphibian-rich wetlands, including 30 acres of Black Ash-Northern Hardwood-Conifer Swamp - an S2 natural community in NH, several acres of wet meadow shrub and forested swamp, 3000 linear feet of intermittent streams, 1700 linear feet along Tunis Brook which hosts wild Eastern brook trout, and more than 30 amphibian breeding pools. This project is part of a larger two-phased project to protect 542± acres within a half mile radius. It lies within a 12,000± acre unfragmented forest block home to bear and moose and other wide-ranging species. Approximately 96% of the property is NH WAP ranked habitat, with 178

acres of Tier 1 significance, 100 acres of Tier 2 significance, and 50 acres of Tier 3 supporting landscape. Water resources on the Tunis land are hydrologically connected to the Mascoma River, a designated river under the NH Rivers Management Protection Program, and the project lies within the same HUC 10 watershed as the impact area. From a water supply perspective, the Tunis lands are located within the Lebanon Water Dept. Source Water Protection Area. The extent of the Lebanon SWPA is defined by sub-watershed (12-digit) level digital hydrologic unit boundaries that directly influence drinking water supply, and the Tunis lands are located entirely within the 13,372 acre Goose Pond Brook subwatershed.

LOWER CONNECTICUT & CONTOOCCOOK RIVER SERVICE AREAS
(Available funding \$40)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Bearce/Monadnock Conservancy	Jaffrey & Rindge	\$142,000

Jaffrey & Rindge; Bearce/Monadnock Conservancy

The Monadnock Conservancy proposes to use \$142,000 of funds to permanently protect the Bearce property with a conservation easement. This easement will protect 61 acres of wetland; 139 acres of upland; approximately 9,241 feet of streams; and 1 confirmed vernal pool. Approximately 200 acres in size, half of the property is located in Jaffrey with the other half located in Rindge. This land sits in both the Lower Connecticut River watershed and Contoocook River watershed. The height of land is Peabody Hill where the Bearce house is located; the land then slopes southerly into Rindge where there is a large wetland complex. The easement will allow for forest management and agriculture and include a 100 foot buffer in order to protect the aquatic resources. The land is quite developable with abundant road frontage on two Class V roads (500 feet Chadwick Road, ~2,800 feet on the south side of Peabody Hill Rd., and ~2,000 feet on the north side of Peabody Hill Rd.). There is also about 2,100 feet of frontage on both sides of Mower Road (Jaffrey)/Old Jaffrey Road (Rindge), which is a Class VI road. The Bearce property contains 55 acres of Supporting Landscape (28% of the property) as defined by the NH Wildlife Action Plan (2015 data). The Bearce property is directly adjacent to the Monadnock Conservancy’s 77-acre Mountain Brook Reservoir property. The Bearce parcel is within a 1,521-acre forested block, as identified by The Nature Conservancy.

MIDDLE CONNECTICUT RIVER SERVICE AREA
(Available funding \$115,000)

PROJECT NAME/APPLICANT	TOWN	FUNDS REQUESTED
Childs Brook Habitat Restoration Project/Ammonoosuc Chapter 554 Trout Unlimited	Bath	\$45,000
Jean Chamberlin North/Ammonoosuc Conservation Trust	Bath	\$35,000
Jean Chamberlin South/Ammonoosuc Conservation Trust	Haverhill	\$30,200
Neil Chamberlin Conservation Area/Ammonoosuc Conservation Trust	Bath	\$50,300

Childs Brook Habitat Restoration Project/Bath

The Ammonoosuc Chapter 554 Trout Unlimited seeks \$45,000 of funds for a project that will restore three severely degraded and undersized perched culverts that are passage barriers to all aquatic organisms with the exception of some adult salmonids. All proposed crossing replacements will meet the NH Stream Crossing Guidelines. The goal is to enable complete aquatic passage to occur for the 2020 fall spawning of wild brook trout. Aquatic organism passage will go from limited to fully passable during both high and low flow conditions and natural flow regimes will be restored by opening access to 6.84 miles of upstream barrier free aquatic habitat. The project drainage area equals 7.1 square miles, roughly 18 % of the town. If the proposed project is selected for funding and successfully

completed the following results will be achieved: Restore connectivity of 6.84 miles of valuable wild brook trout habitat so trout can access spawning and forage areas and thermal refuge from warm summer temperatures; prevent soil aggradation and deposition, and perching of the culverts by restoring the natural stream flow regime; restore riparian buffers (future grants) to stabilize stream banks and increase shade cover yielding a decrease in summer water temperature through less solar thermal radiation; protect the town's aquatic resources and headwater streams; ensure the townspeople have properly designed stable road infrastructure so stream crossings do not fail with the next extreme storm/flood event; and be the catalyst for additional landowner education and outreach to apply conservation practices on abutting properties to benefit the entire brook and adjoining wetlands.

Jean Chamberlin North Conservation Area/Bath

ACT is seeking \$35,000 to conserve two properties held by the same owner (Jean Chamberlin – she is also the mother of the owner of the land in our third application). This application is for the northern parcel owned by Jean. The family wishes to conserve this land as a way of maintaining the family's long connection to the town of Bath, to farming, and to the Ammonoosuc and Connecticut rivers. As part of this conservation project, 1.14 acres of riparian lands would be planted with native trees and restored to increase wooded buffer widths to at least 50 feet. This is a conservation easement project where the family will continue to lease it as hayland to a local farmer (whose land is also conserved). If conservation is not successful, the family will sell this land, which has good development potential. This project will protect land near the confluence of the Connecticut and Ammonoosuc rivers and will demonstrate that conservation of agricultural land can also achieve strong riparian protection. If successful, this project will add to a potential conservation area of over 500 acres near the confluence of these rivers. The Jean Chamberlin North Conservation Area includes 1,138ft of frontage on the Ammonoosuc River with a mostly wooded riparian forest buffer. The Conservation Area also includes 3 acres of Flood Hazard Area associated with the Ammonoosuc River, including one acre in the 100-year zone and two acres in the 500-year zone. The Jean Chamberlin North property contains 10 acres of the Active River Area along the Ammonoosuc – land identified in the 2013 Ammonoosuc River Corridor Management Plan as highly in need of protection throughout the watershed. The 10-acre Conservation Area is a High Priority Water Supply Land and is entirely within the Woodsville Water Supply Intake Protection Area. The Conservation Area is located approximately 525ft from the Woodsville Community Water Supply (CWS) intake, which serves 2075 people. The riparian Conservation Area is also located within two water supply watersheds.

Jean Chamberlin South Conservation Area/Haverhill

ACT is applying for \$30,200 to conserve two properties held by the same owner (Jean Chamberlin – she is also the mother of the owner of the land in the Neil Chamberlin application). This application is for the southern parcel owned by Jean. The family wishes to conserve this land as a way of maintaining the family's long connection to the area, to farming, and to the Connecticut and Ammonoosuc rivers. They are agreeable to riparian restoration as part of this conservation project and 1.5 acres of riparian lands would be planted with native trees and shrubs to increase wooded buffer widths to at least 50ft and increase overall riparian tree cover. This is a conservation easement project where the family will continue to lease it as hayland to a local farmer (whose land is also conserved). If the conservation project is not successful, the family plans to sell Jean's land upon her death. Because Haverhill has no zoning, this property, while long used as a hayfield, could be sold for development. This project will protect land near the confluence of the Connecticut and Ammonoosuc rivers and will demonstrate that conservation of agricultural land can also achieve strong riparian protection. If successful, this project will add to a potential conservation area of over 500 acres near the confluence of the rivers. This land has significant wetlands features, is in a flood hazard zone, is in an active river area, includes ~23 acres of Tier I grassland habitat, some of the highest quality grassland habitat in the state, and is a High Priority Water Supply land and is located approximately 1590ft from the Woodsville Community Water Supply (CWS) intake, which serves 2075 people. The riparian Conservation Area is also located within two water supply watersheds. In addition to supplying Woodsville Water and Light, the Ammonoosuc River is major tributary to the broader Upper Connecticut, which is the water supply watershed for the Cheshire County Complex.

Neil Chamberlin Conservation Area/Bath

ACT seeks \$50,300 for this conservation easement project and retain one house lot. If the project is not successful, the owner plans to sell the six developable lots already approved by the town. The proposed conservation area includes Connecticut River shoreland, is on the Connecticut River National Scenic Byway, and its extensive road frontage and level fields make it very developable. The parcel includes sensitive natural communities, wetlands, vernal pools, and riparian buffers as well work to address forestry and agricultural goals. ACT will work with the landowner to accomplish steps for erosion control, such as creating water bars on forest trails and installing culverts at stream crossings. The project protects significant riverine wetland habitats, including 2,409 feet of riparian frontage on the Upper Connecticut River and supports continuous riparian forest with wooded buffer widths exceeding 100 feet. As part of the Conservation Area, a 1.9-acre River Buffer Area (RBA) is being proposed. The Conservation Area also includes 3,837 feet of 1st order streams. The parcel contains 25-acres of Tier III grassland habitat, which supports and buffers the adjacent highest ranked grassland habitat. On the steep slope east of Route 134, The Conservation includes ~30-acres of Tier II (highest quality in the surrounding region) rocky/talus slope. The proposed conservation area is within a known area for a federally endangered species, includes significant active river area, includes Tier 1 wildlife habitat as described by NH Fish & Game, and includes approximately 4 acres of High Priority Water Supply land. The far northeast corner of the Conservation Area drains towards the Ammonoosuc and is within the Woodsville Water and Light water supply watershed, a High Priority Water Supply Land. The property is ~2600ft from the Woodsville Water Supply Intake Protection Area. If successful, this project will add to a conserved area of over 500 acres near the confluence of the Connecticut and Ammonoosuc rivers.

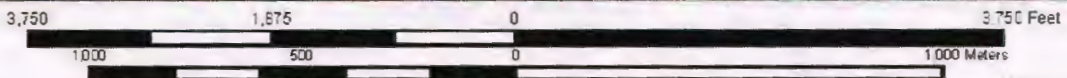
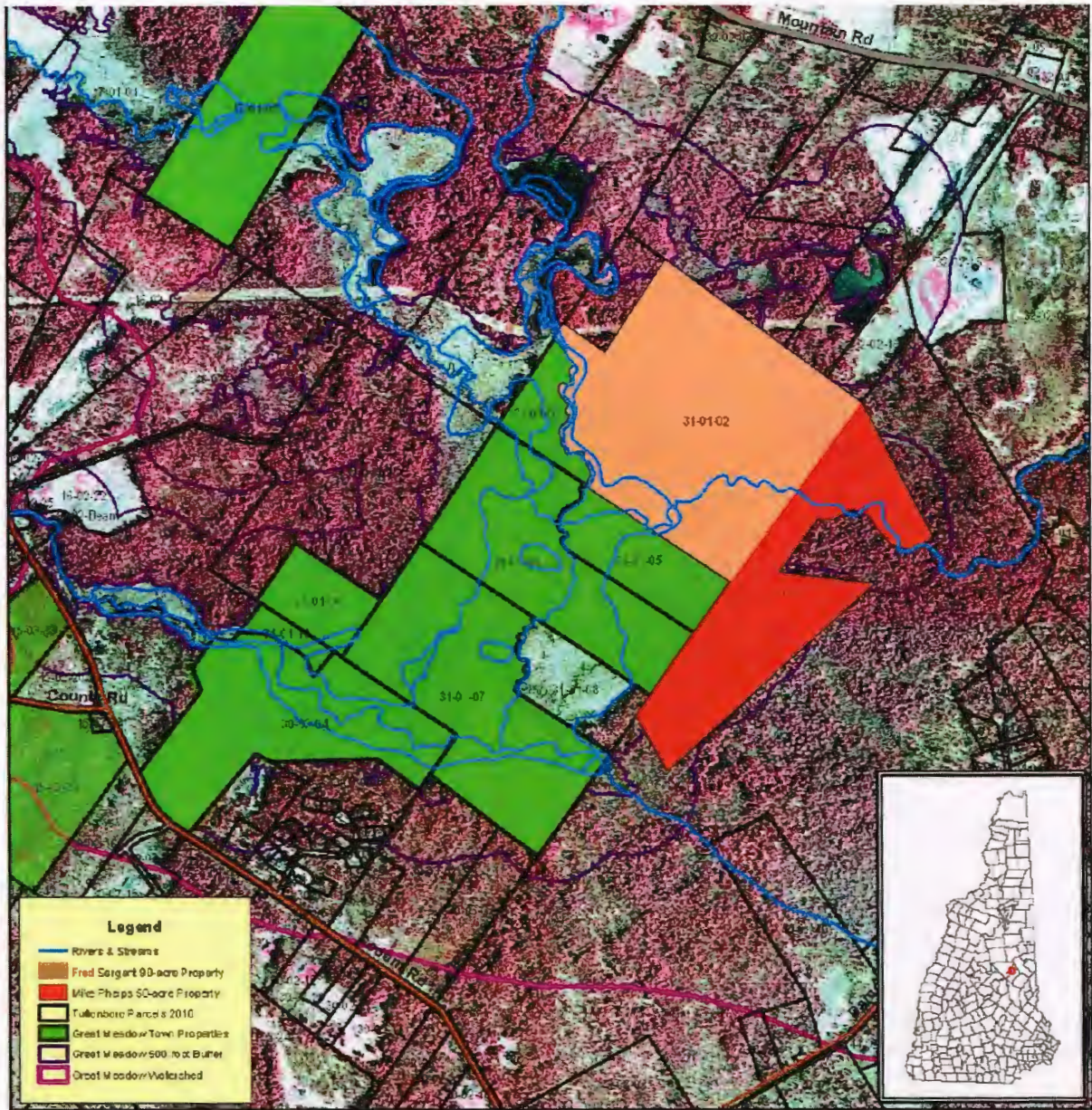
SACO RIVER SERVICE AREA

World Fellowship Center on Whitton Pond & Chocorua River/Albany



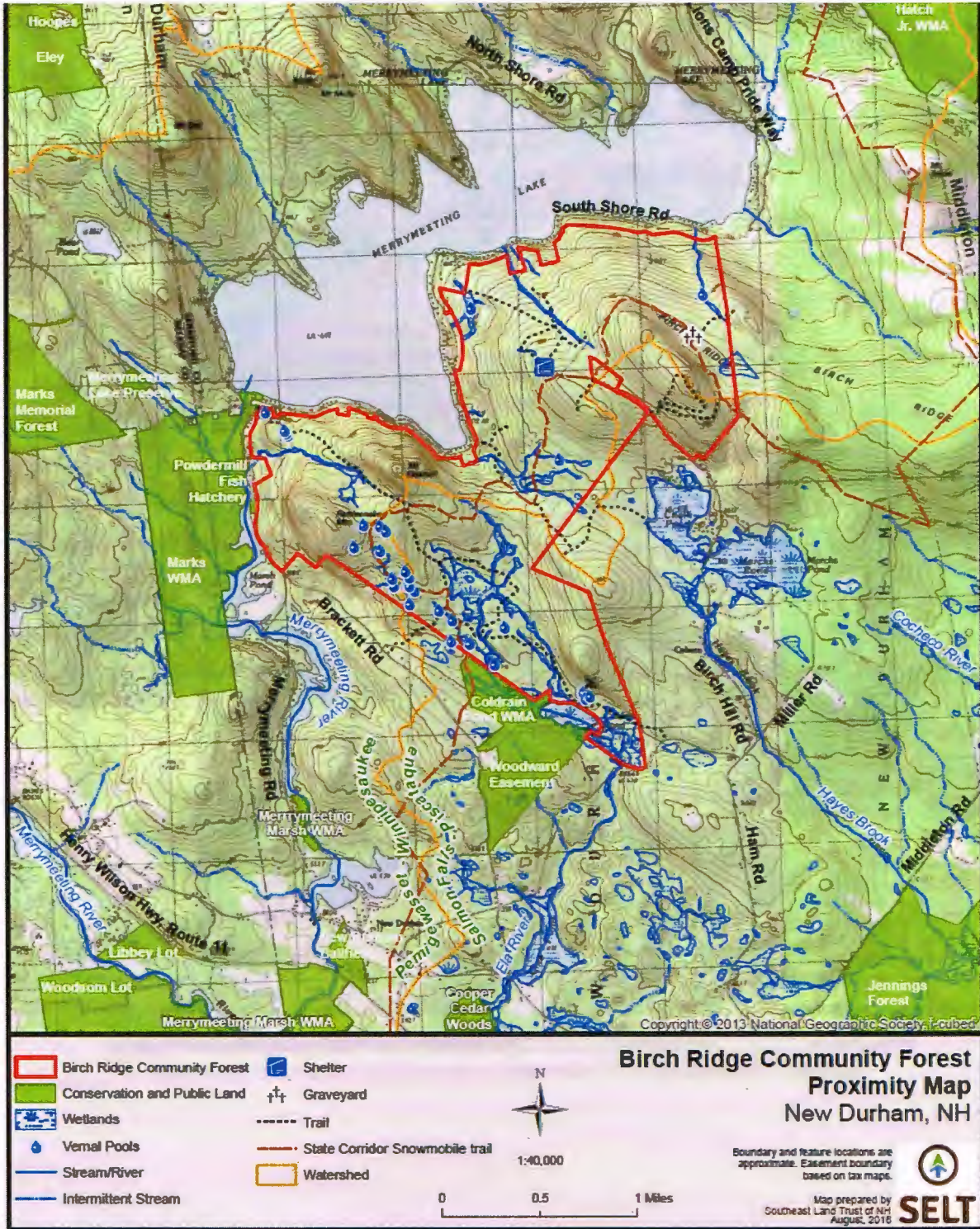
PEMIGEWASSET-WINNIPESAUKEE RIVER SERVICE AREA

Great Meadow Phase II/Tuftonboro



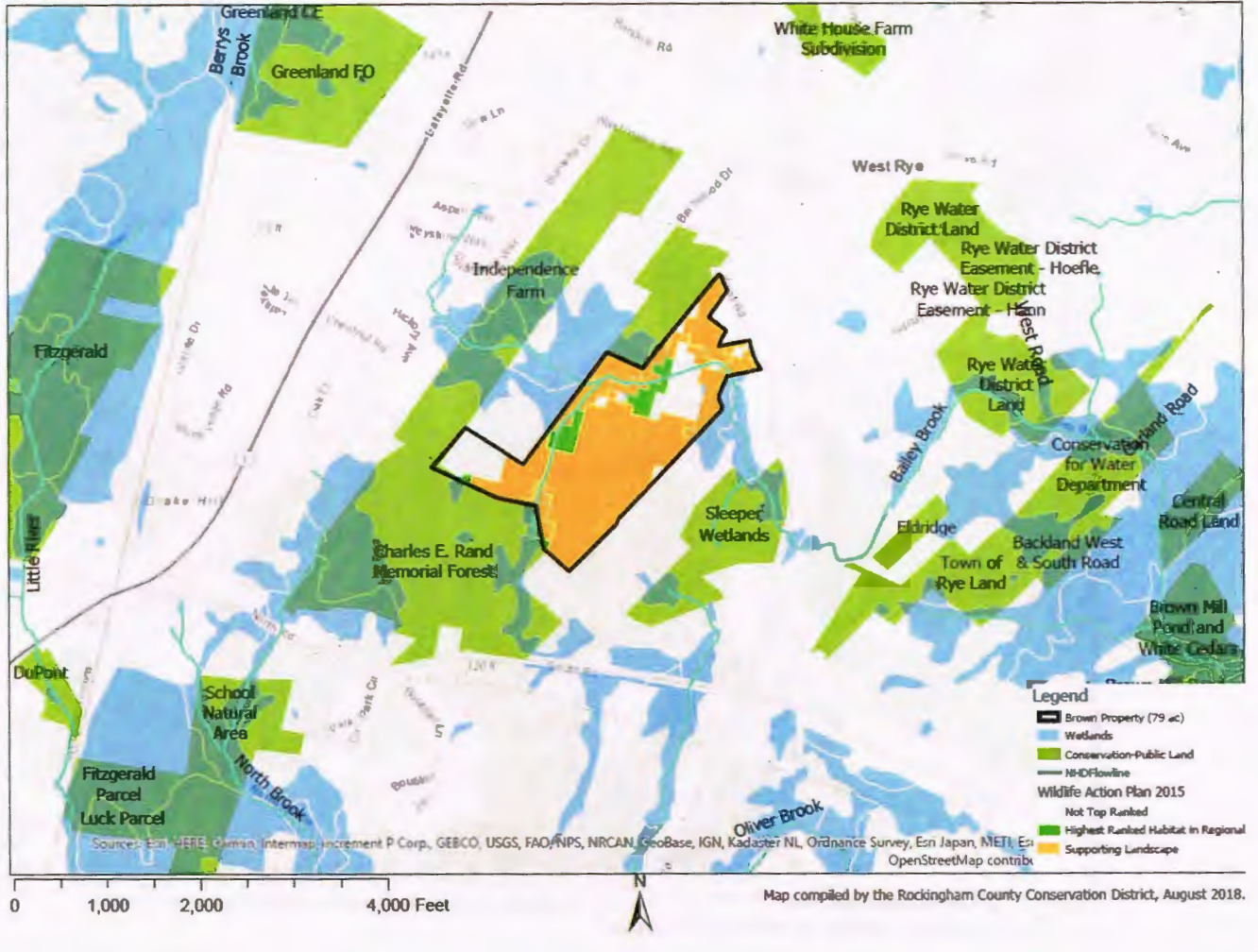
PEMIGEWASSET-WINNIPESAUKEE & SALMON FALLS – PISCATAQUA RIVER SERVICE AREAS

Birch Ridge Community Forest Project/New Durham



SALMON FALLS – PISCATAQUA RIVER SERVICE AREA

Bailey Brook Preservation Project/Rye



Berry Brook Watershed Stream Restoration & Culvert Removal/Dover

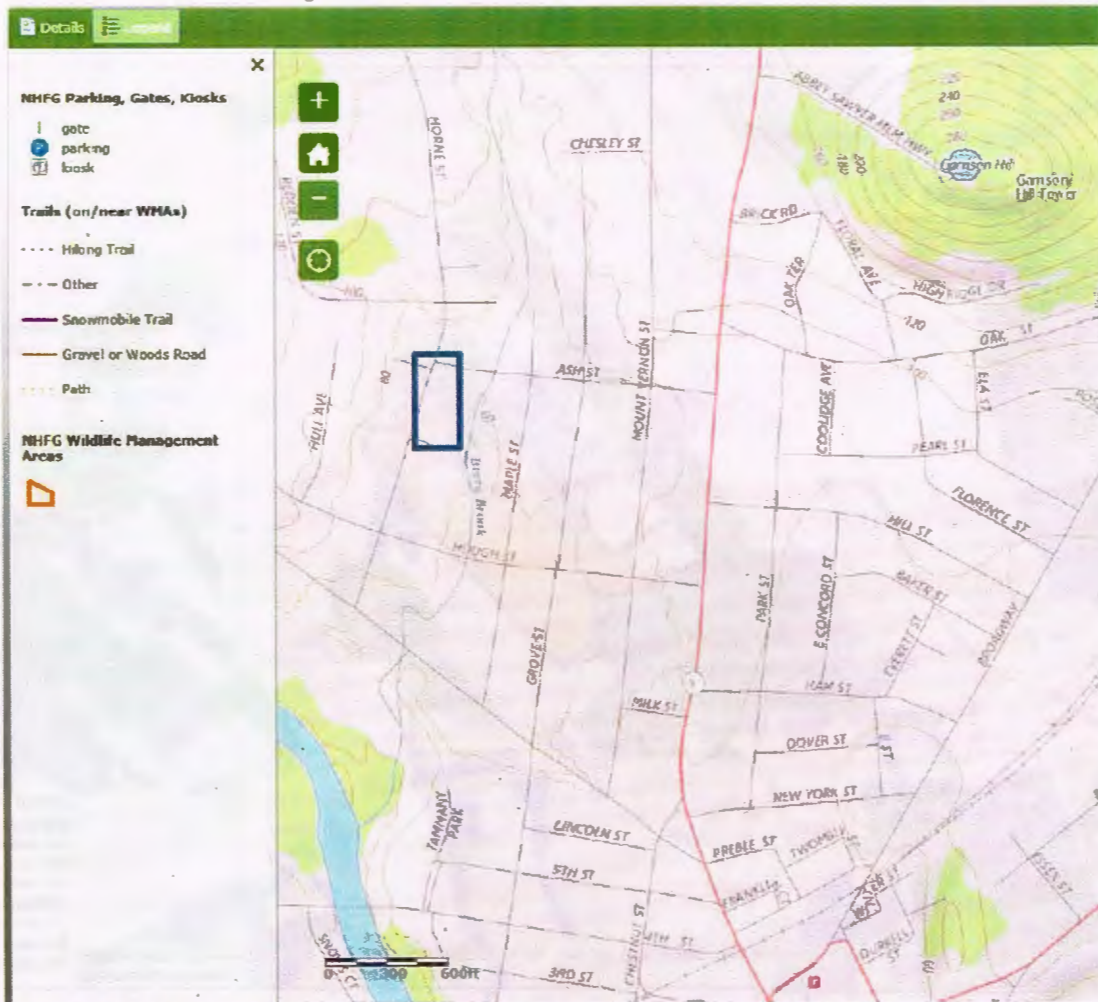
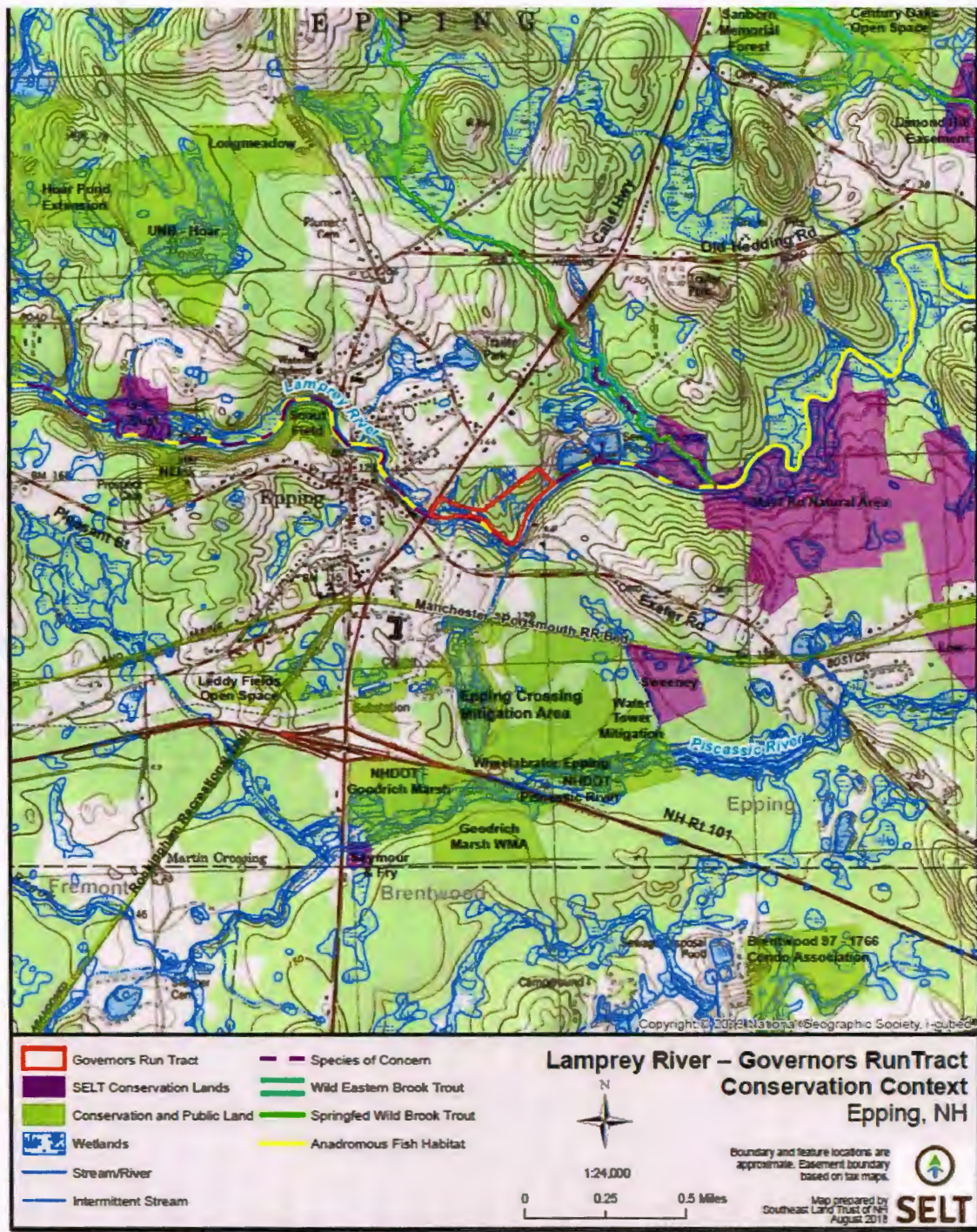
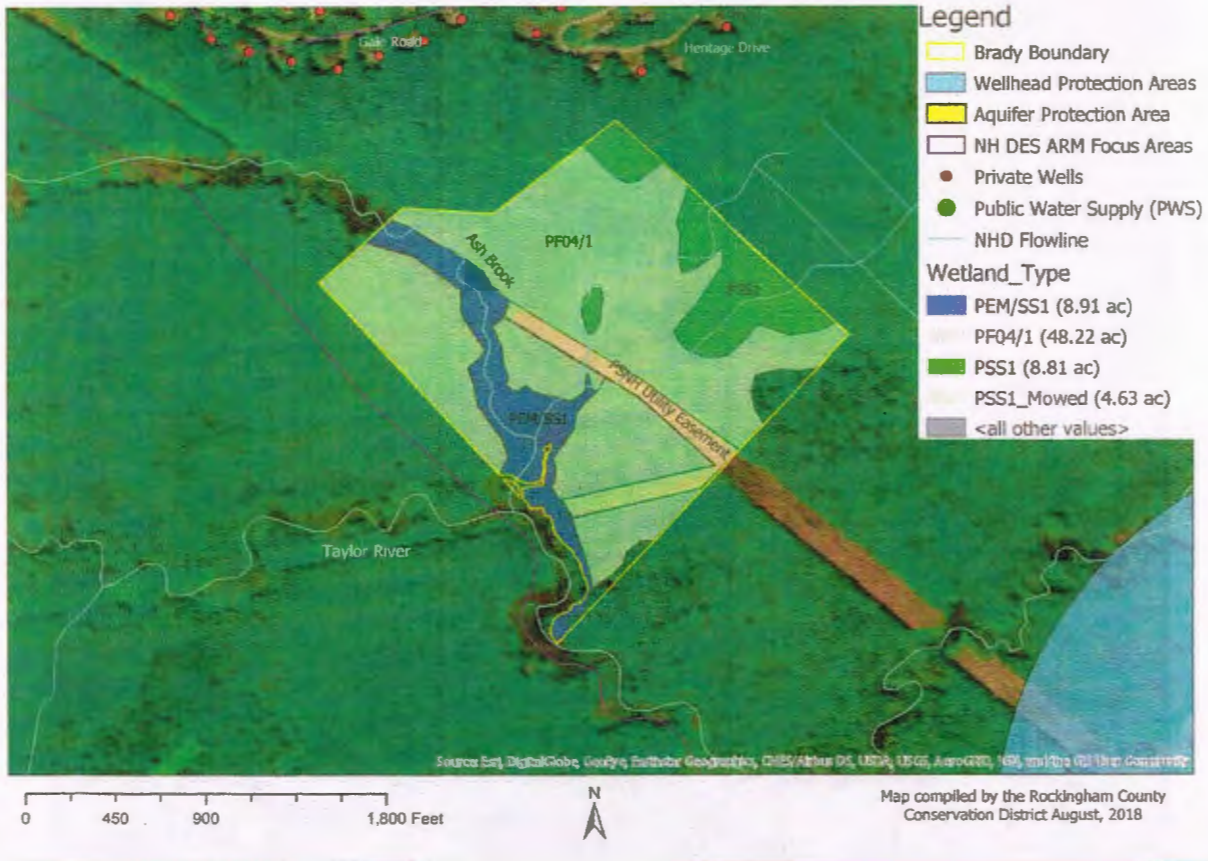


Figure 2: USGS topographic map identifying the subject property (blue rectangle). This map also includes the NH Fish & Game Wildlife Action Plan data layer.

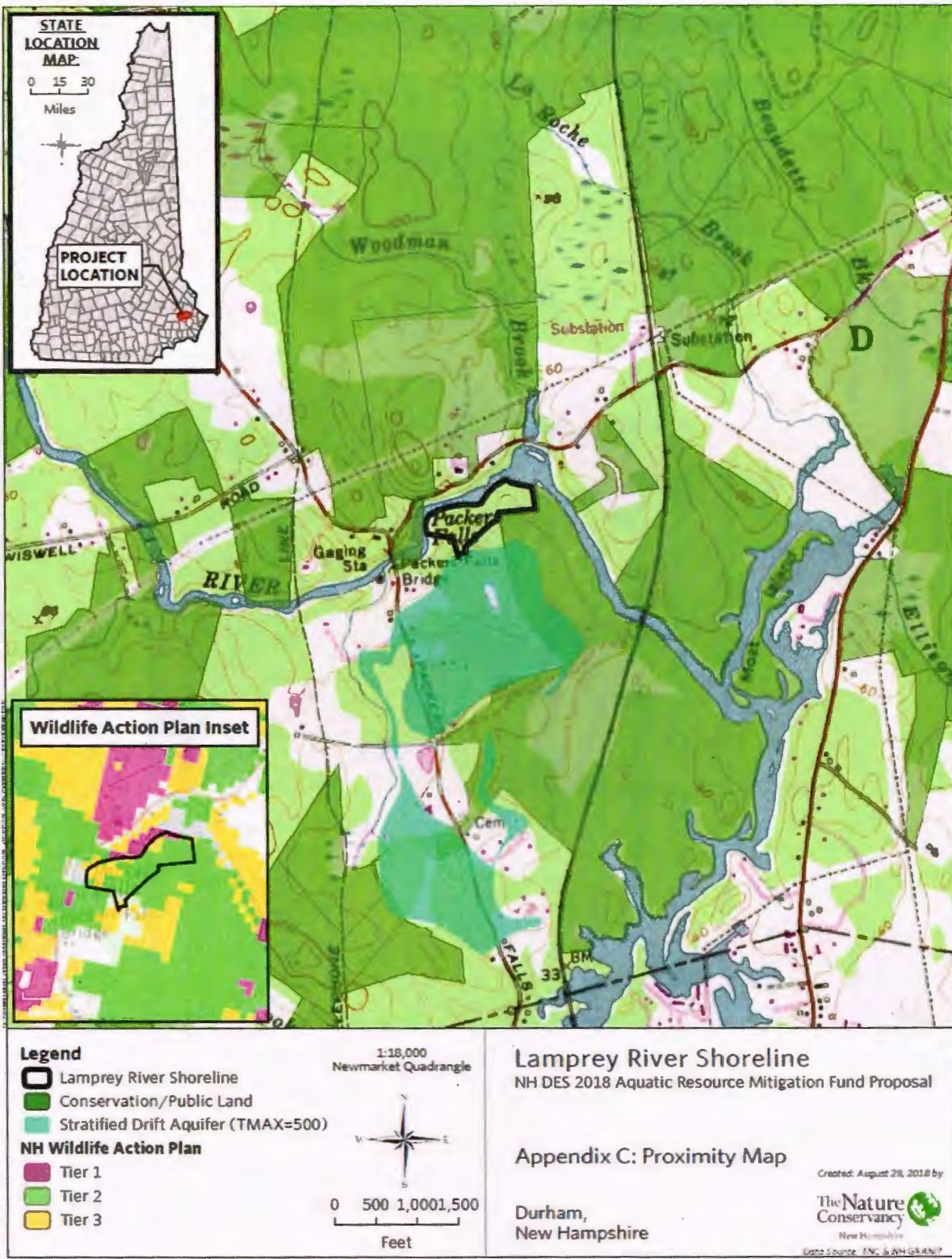
Governor's Run – Sanderson (Lamprey River)/Epping



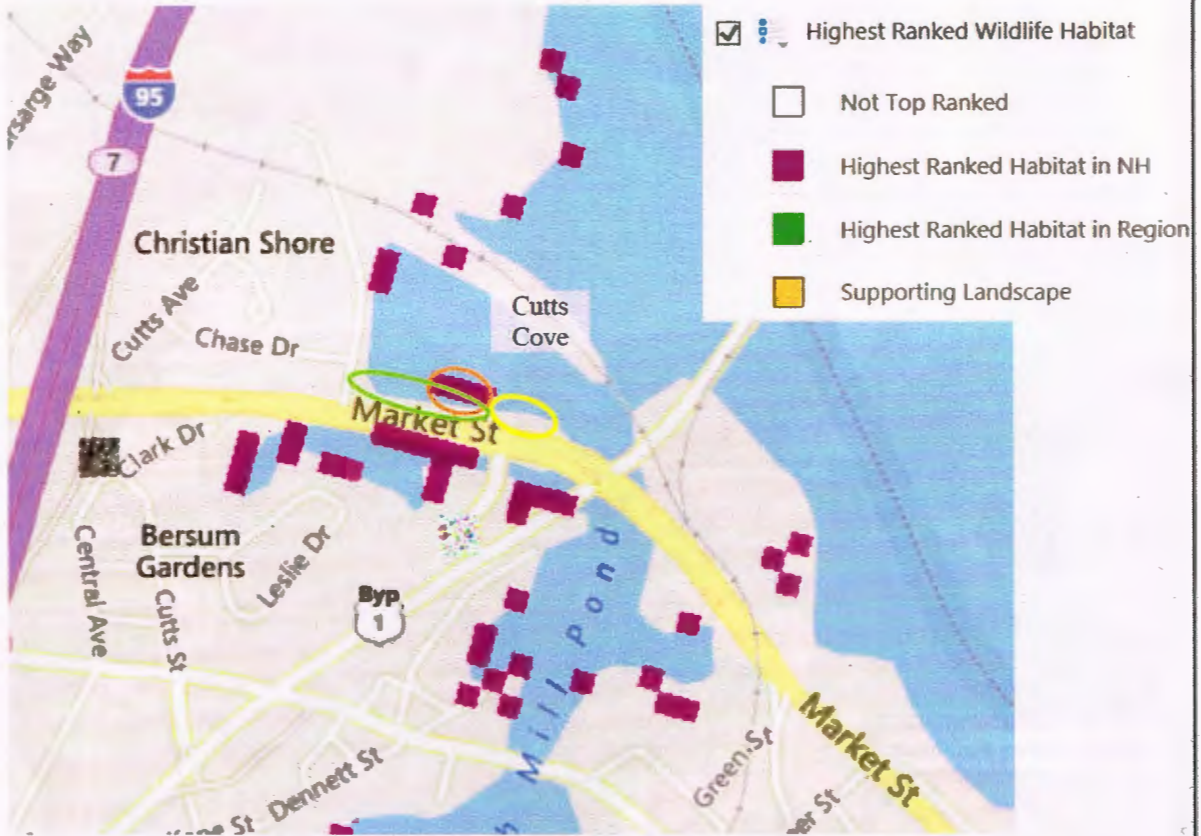
Hampton – Taylor River Watershed Land Conservation/Hampton



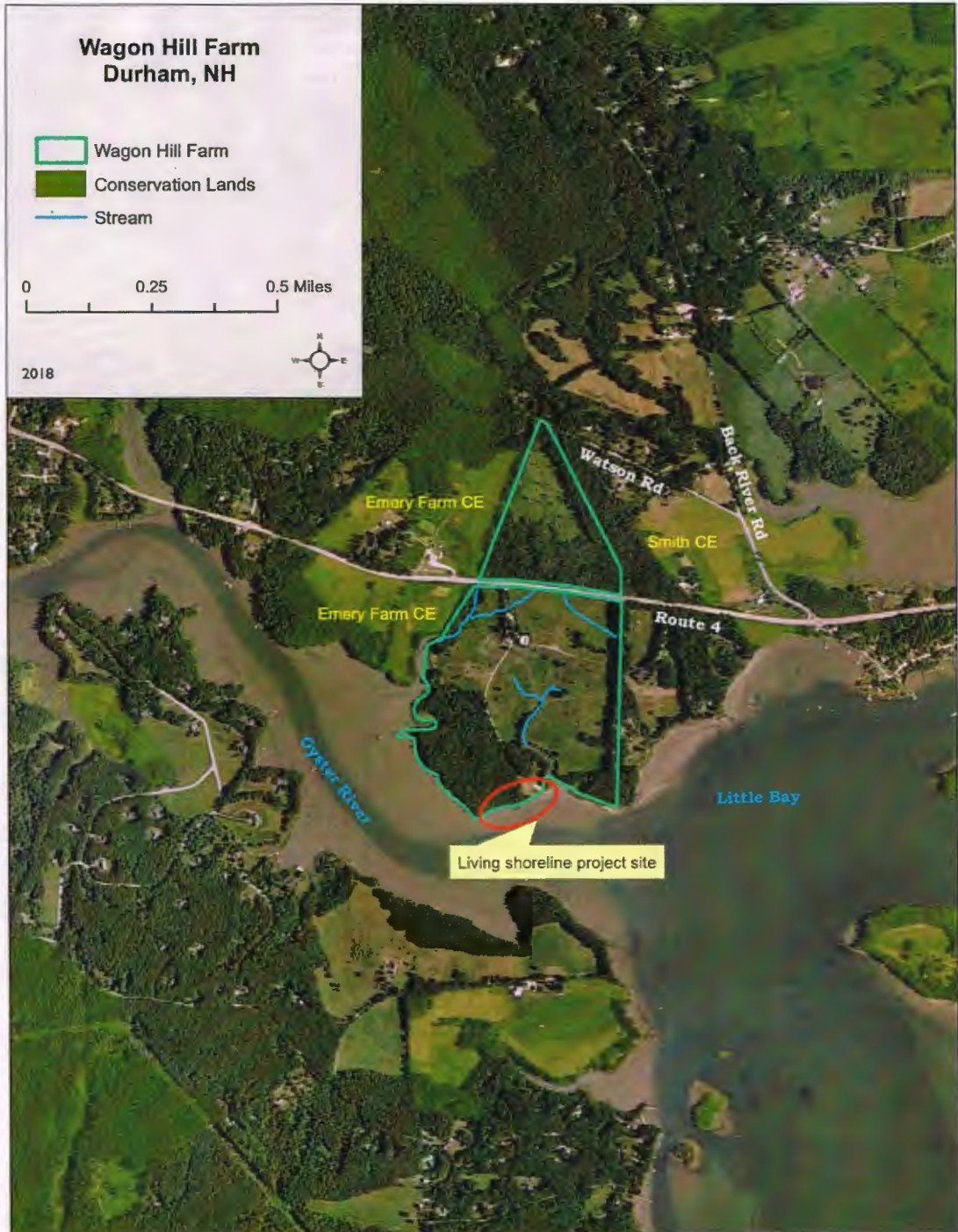
Lamprey River Shoreline/Durham



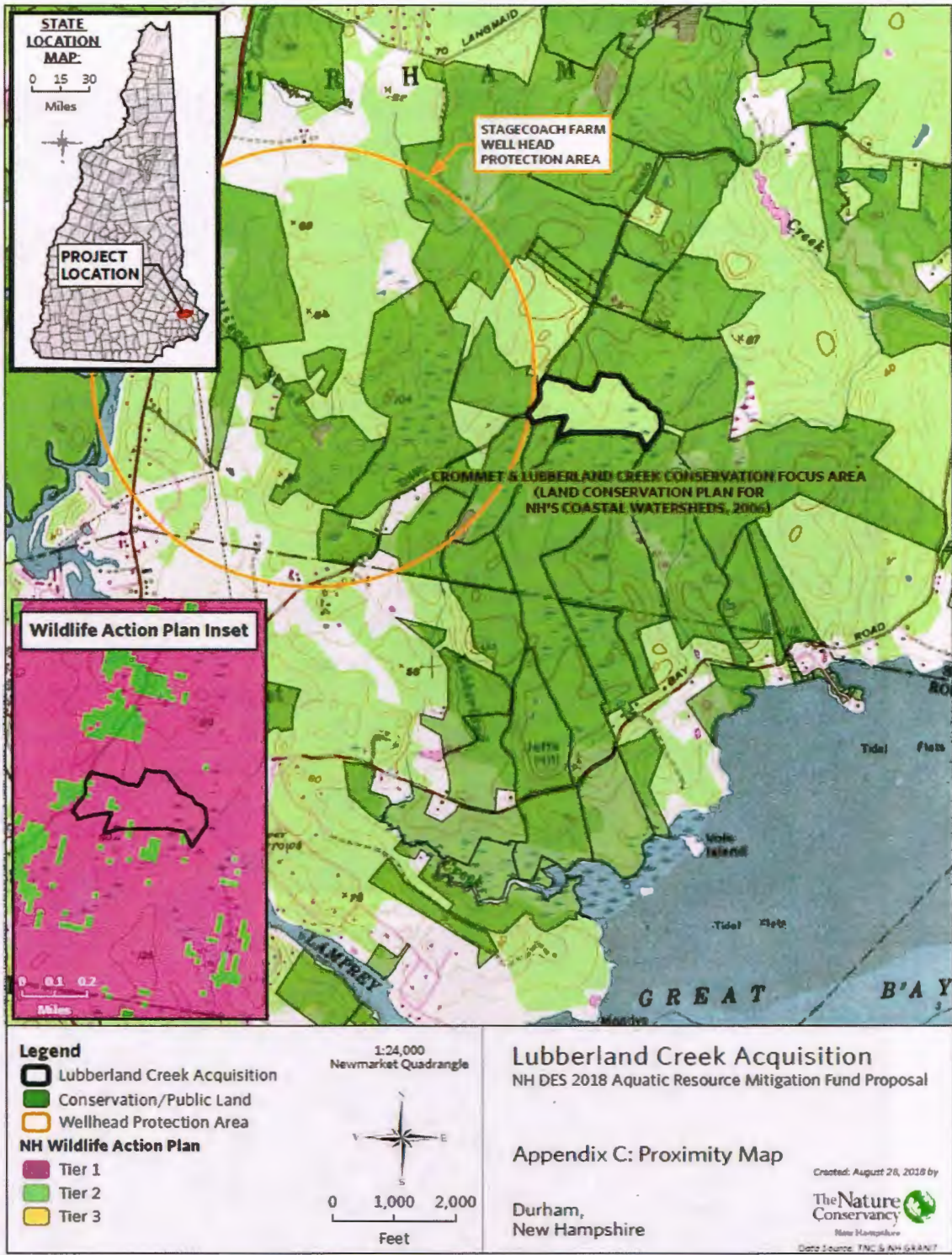
Living Shoreline Creation at Cutts Cove/Portsmouth



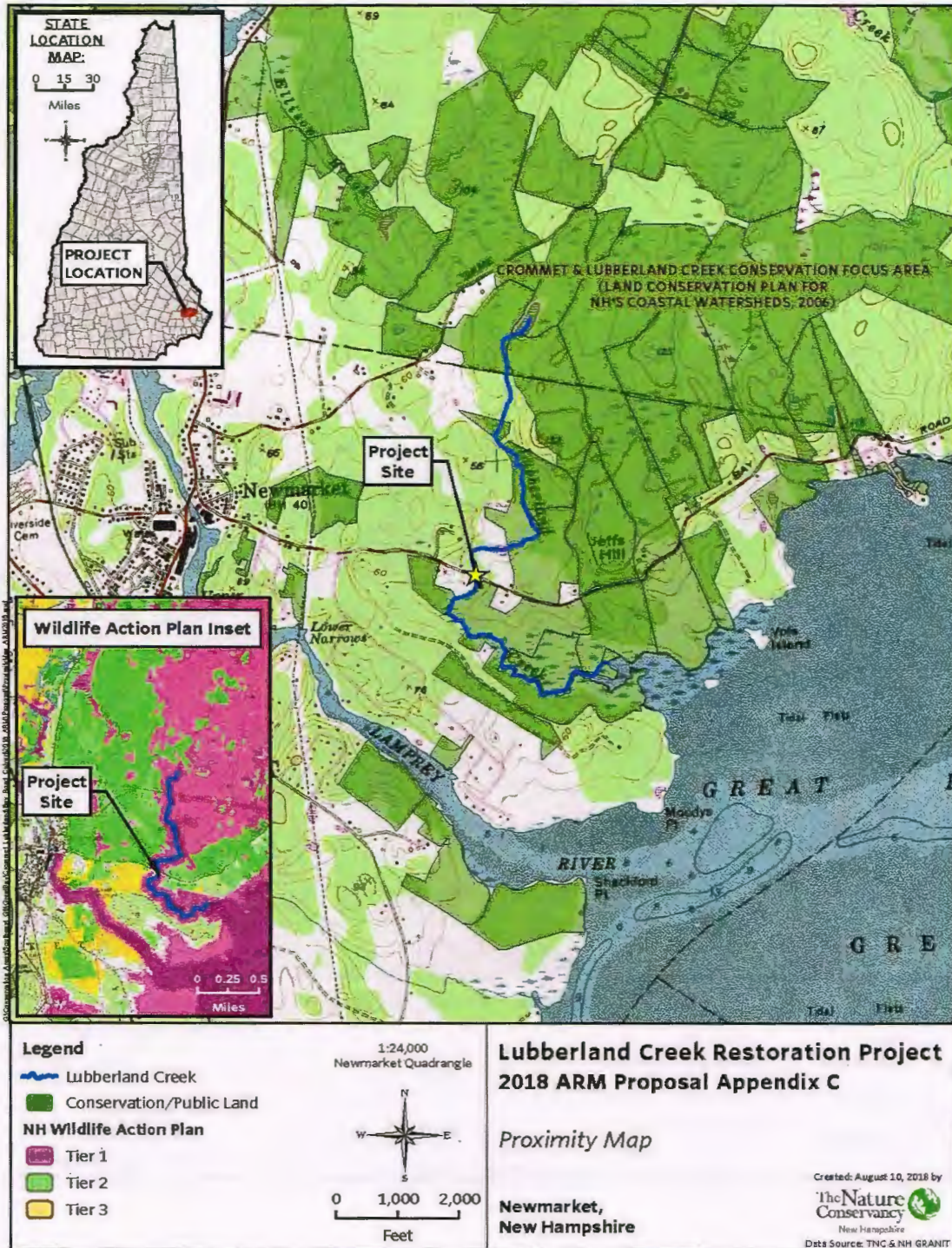
Living Shoreline for Wagon Hill Farm/Durham



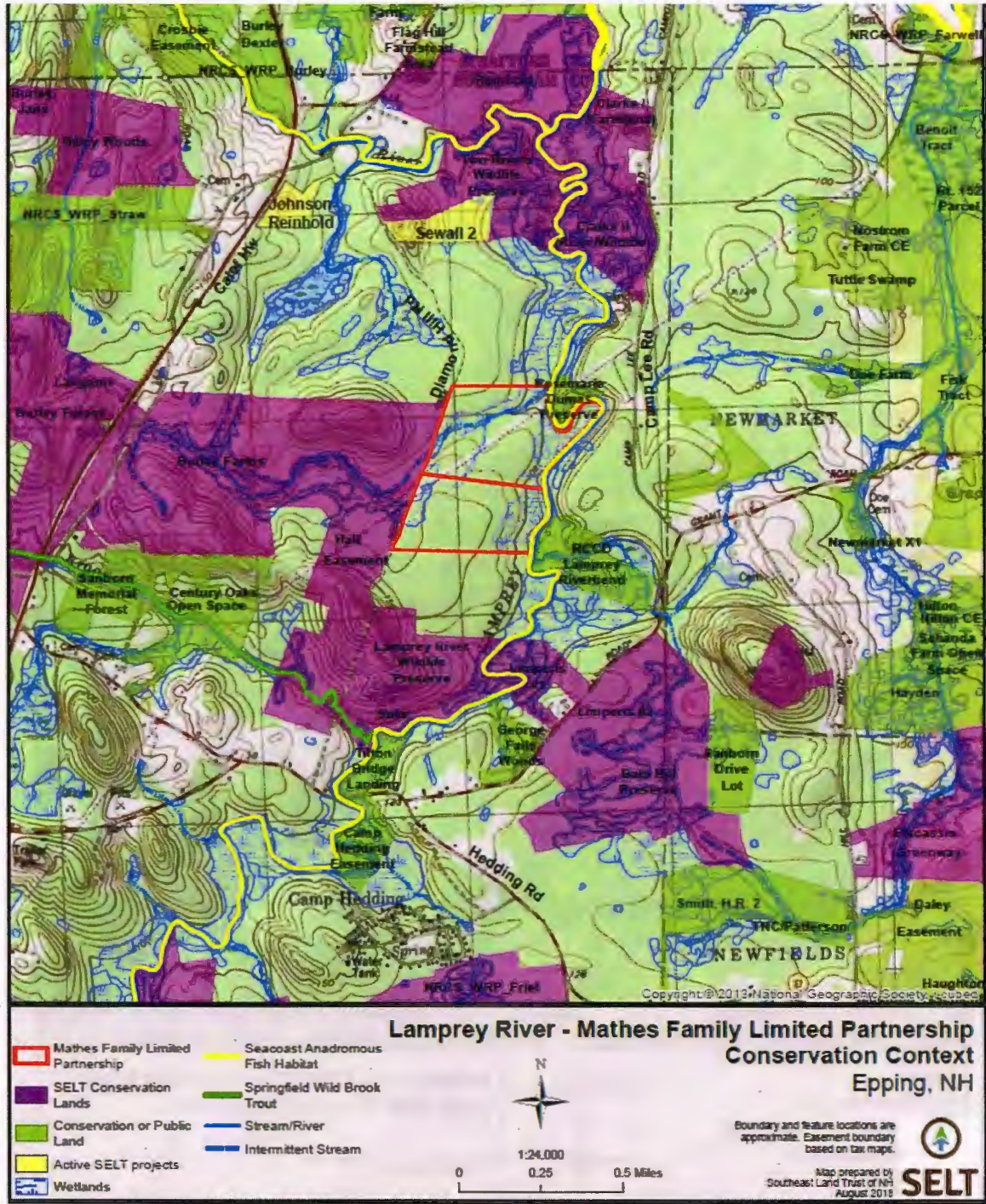
Lubberland Creek Acquisition/Durham



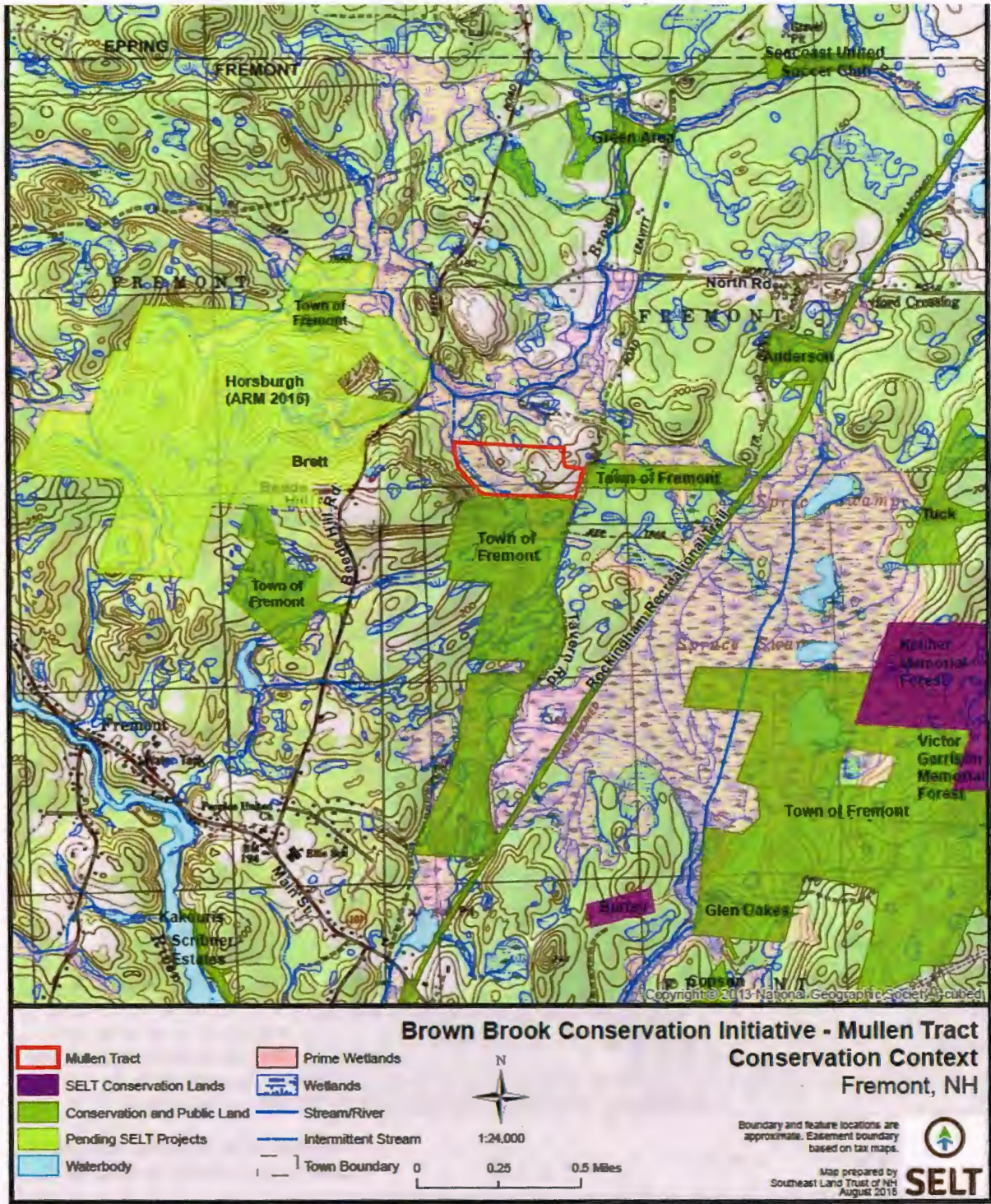
Lubberland Creek Restoration Project/Newmarket



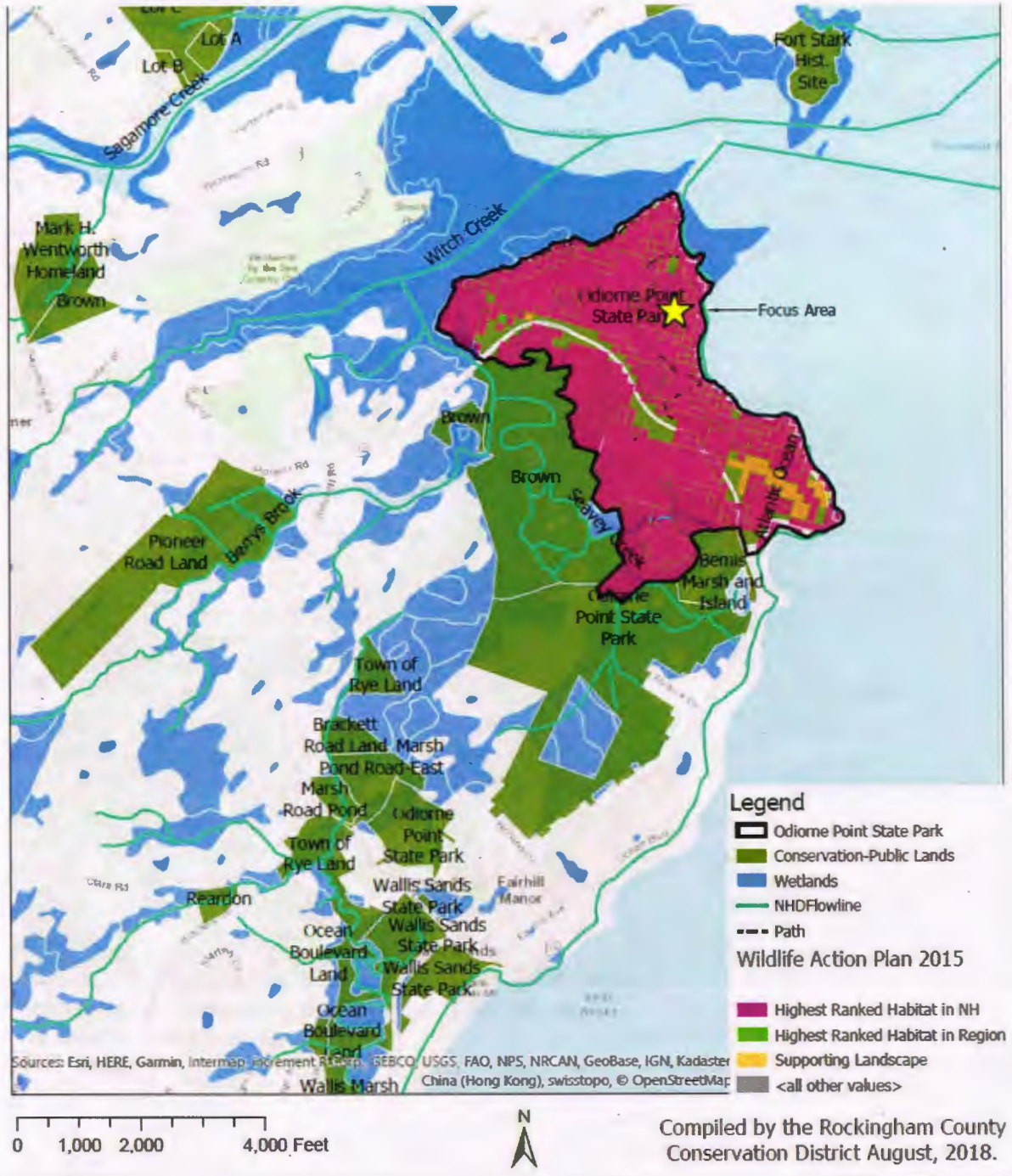
Mathes Family Limited Partnership (Lamprey River)/Epping



Mullen Tract (Brown Brook Conservation Initiative)/Fremont



Odiorne Point State Park Critical Wetland & Buffer Restoration/Rye



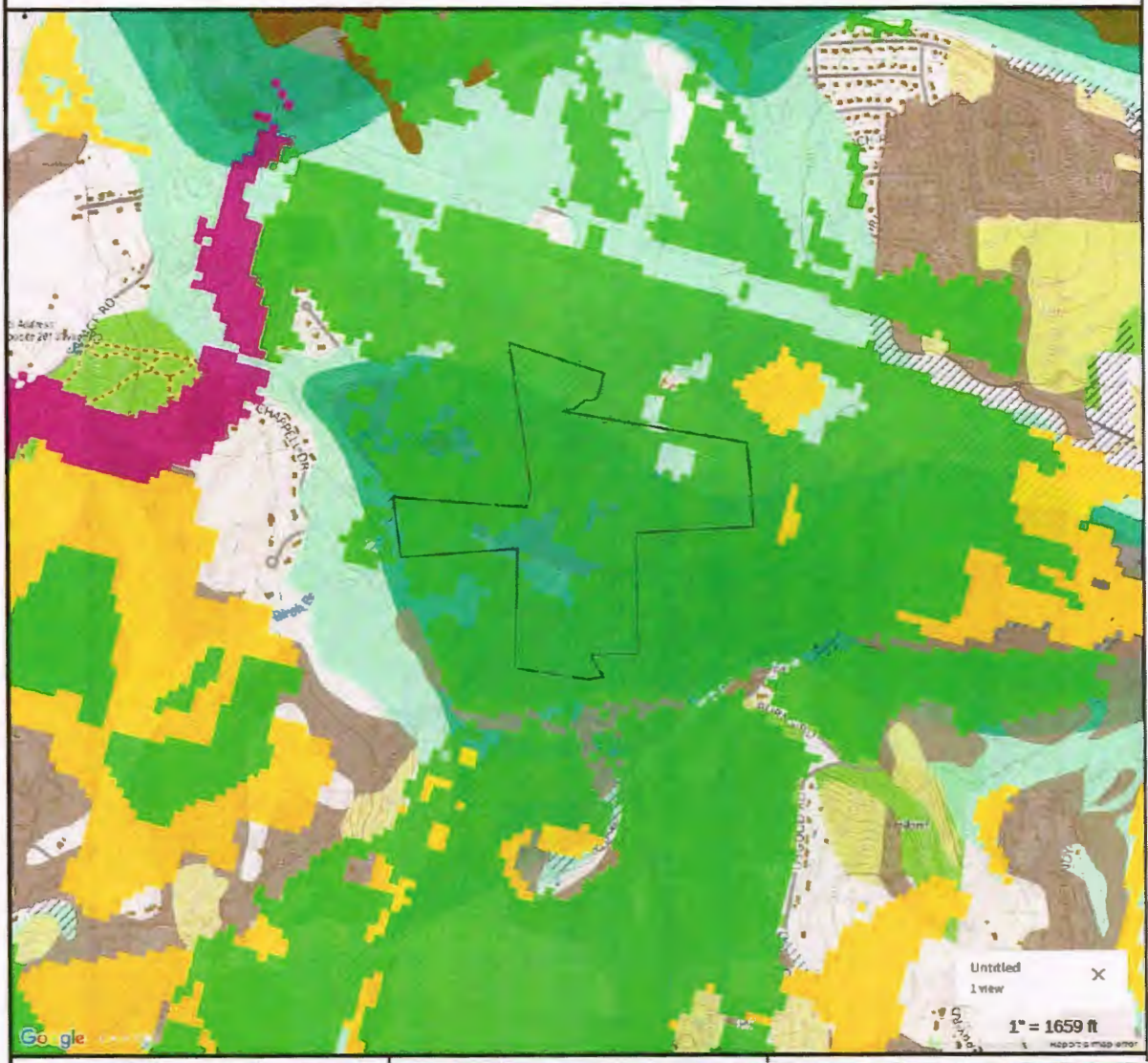
MERRIMACK RIVER SERVICE AREA

Brox Community Lands Conservation Easement/Milford

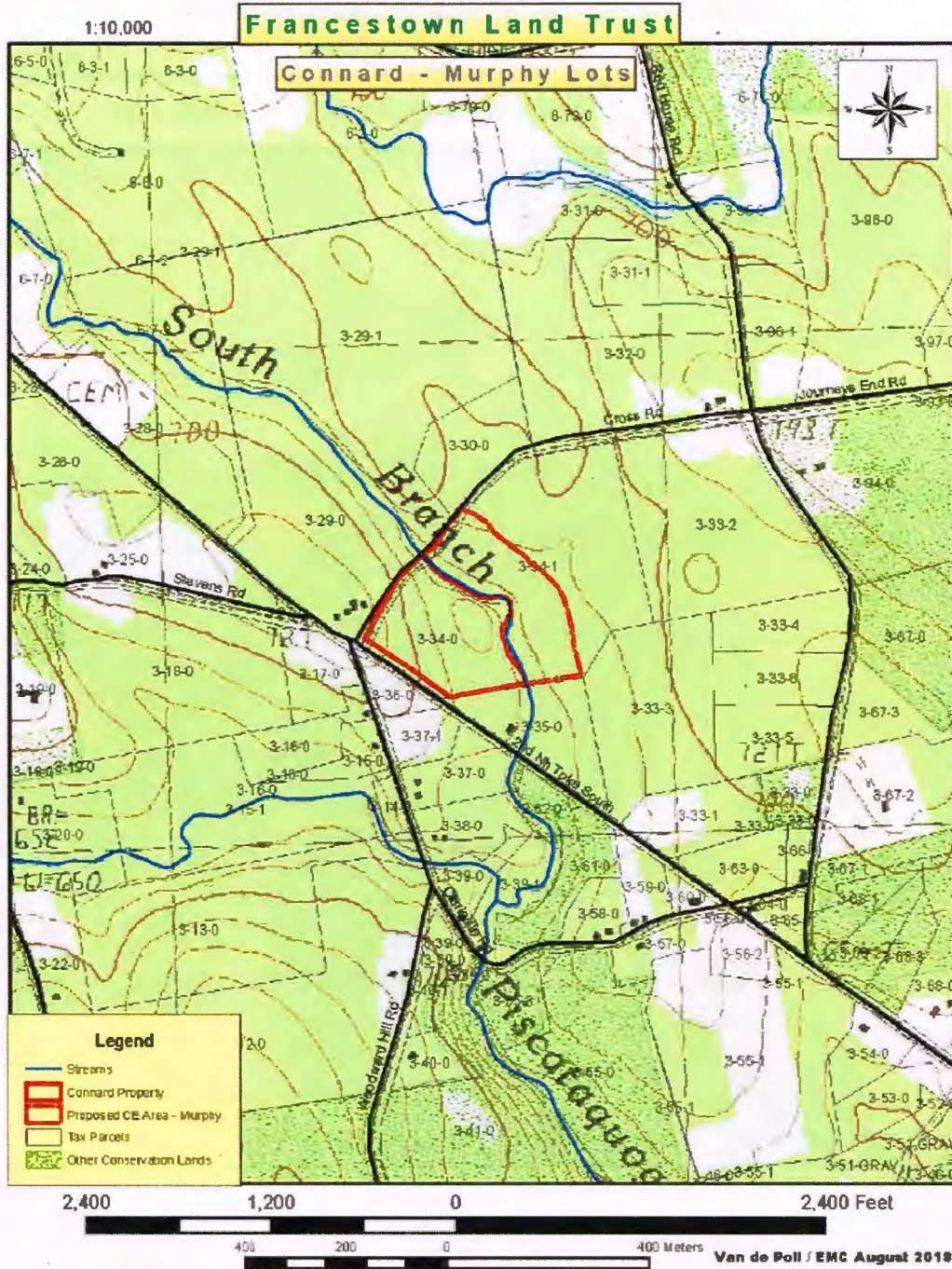
Nashua Regional Planning Commission

August 30, 2018

APPENDIX C: Brox Community Land M38L58 Proximity Map



Piscataquog South Branch Connectivity Project/Francestown



Robert French Fee/Weare



-  Potential/Probable Vernal Pools
-  Streams
-  PLC - French Project
-  Conserved/Public Land
-  NWI Headwater Wetlands - 19 ac.
-  Hydric Soils - additional 15 ac.
-  6,790 ac. Unfragmented Forest

D: Site Map

Robert French Preserve
204.86 Acres
Weare, NH

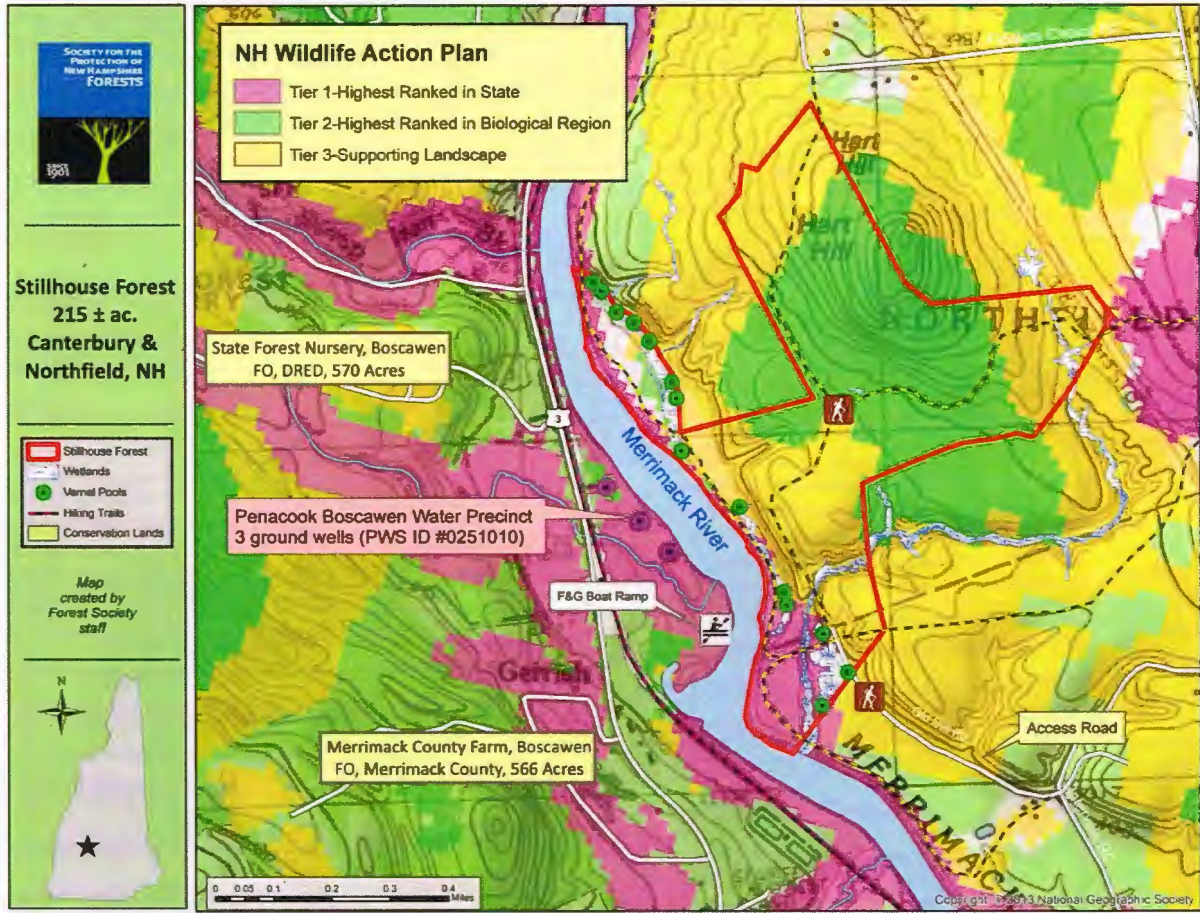


8/13/2018

Map Preparer: T.E. Jones



Stillhouse Forest/Canterbury & Northfield



MERRIMACK RIVER (CTAP) SERVICE AREA

Country Hill Estates Parcel Preservation/Concord

Country Hill Estate Proximity Map



Concord
Conservation
Commission
41 Green St
Concord, NH
(603) 225-8515

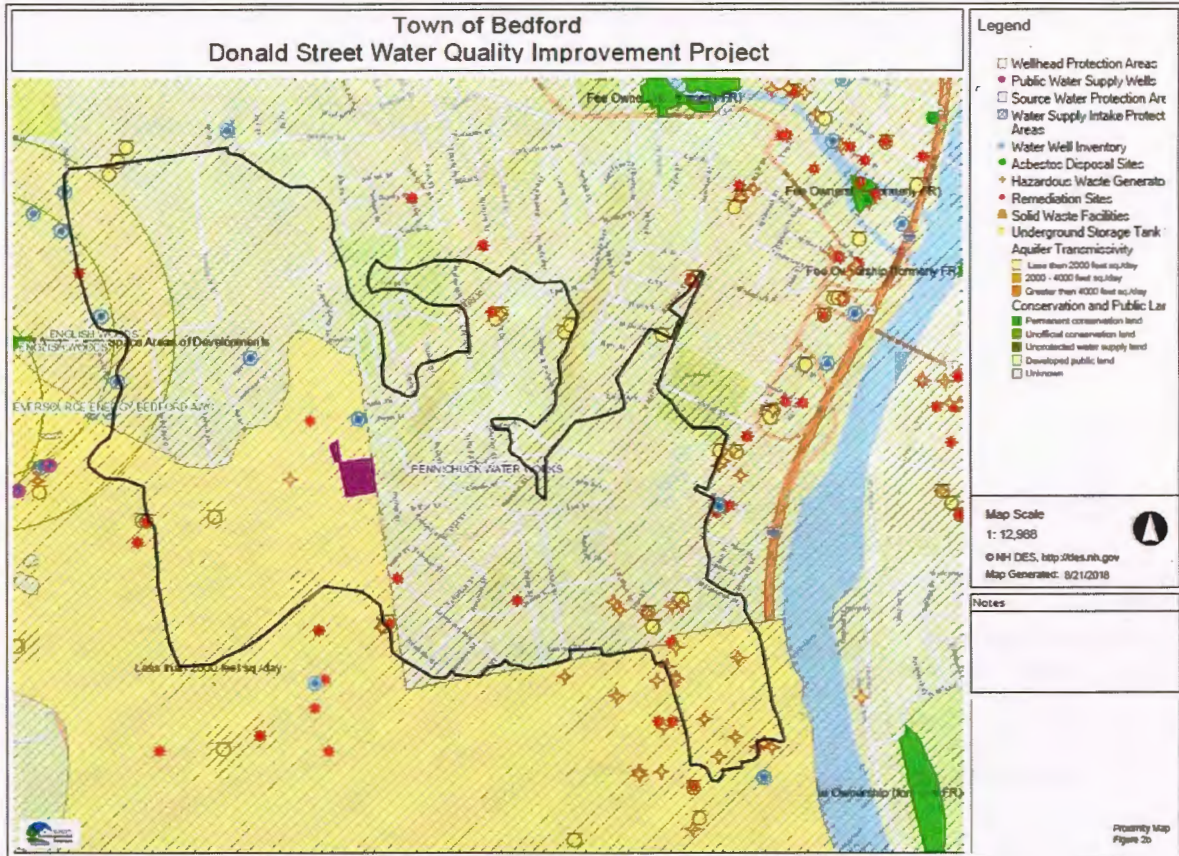
Legend

- Streams
- Wellhead Protection Areas
- Country Hill Estate Lots
- Watershed Boundary
- Protected Lands
- Wildlife Action Plan Tiers**
- 1 Highest Ranked Habitat in New Hampshire
- 2 Highest Ranked Habitat in Biological Region
- 3 Supporting Landscapes

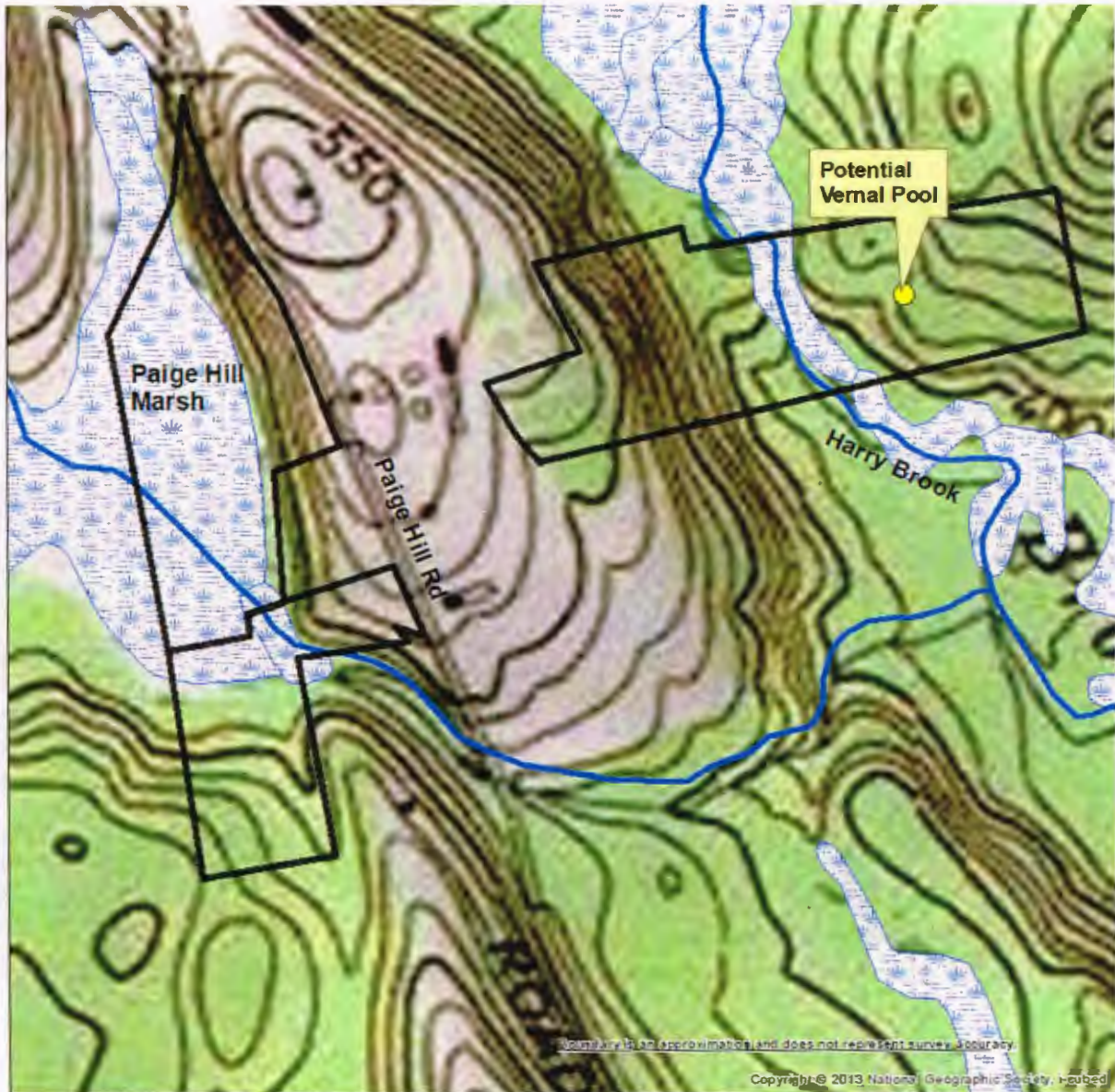






0 250 500 750 1000 1250 1500 1750 2000 2250 2500 Feet

Donald Street Water Quality Improvement Project/Bedford



Jennings CE/Goffstown




-  Jennings CE - 52 ac.
-  Potential Vernal Pool
-  Streams
-  NWI Wetlands - 11.6 ac

Appendix D: Site Map

Jennings CE
52 +/- Acres
Goffstown, NH



0 210 420 Feet


8/23/2018

Map Preparer: T.E. Jones

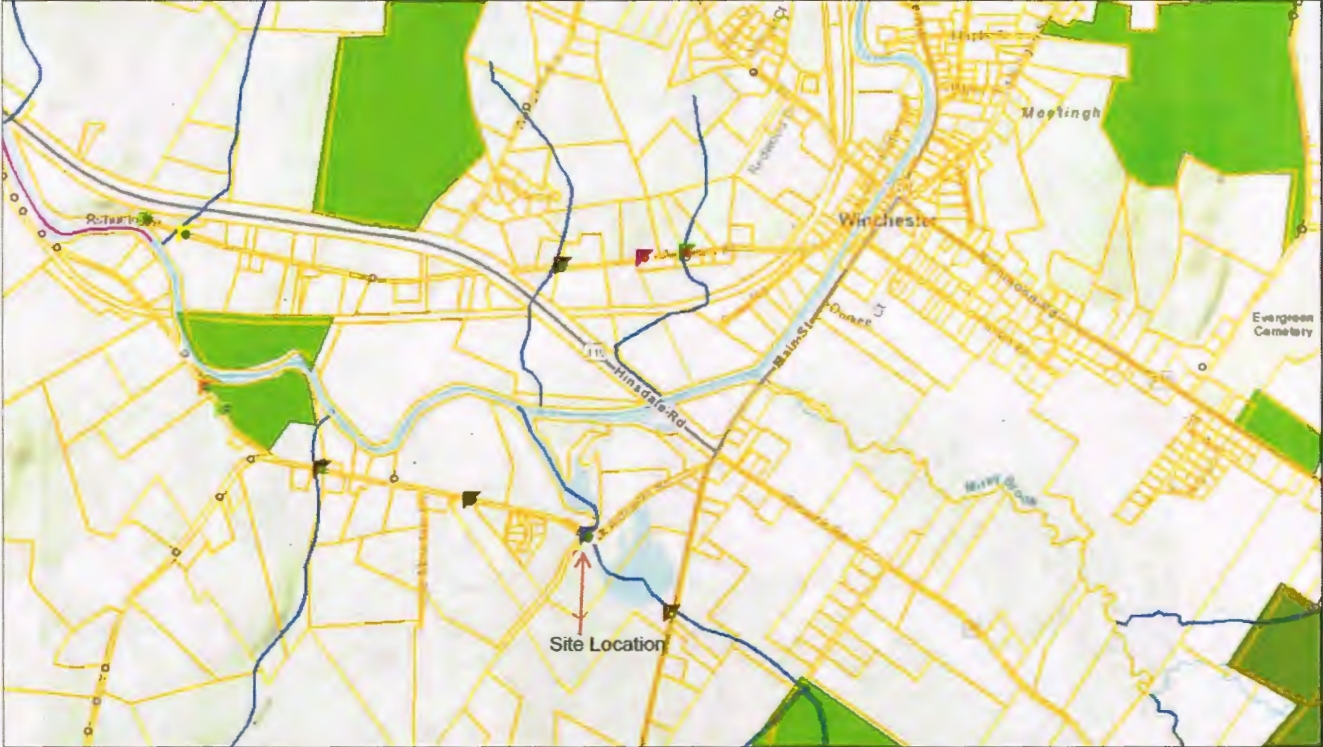


Parker Farm's Forest Easement/Auburn

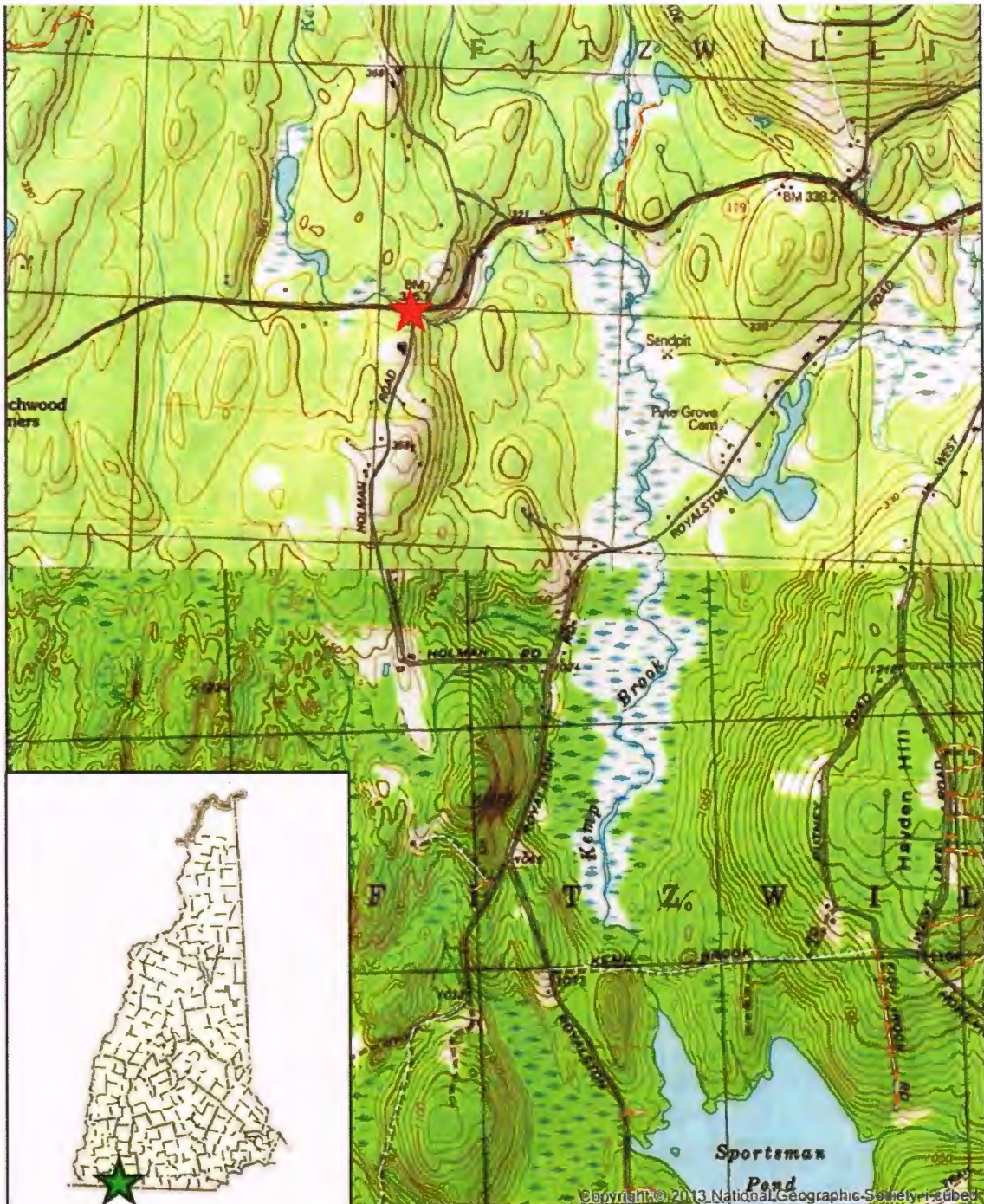


LOWER CONNECTICUT RIVER SERVICE AREA

Cranberry Bog Culvert Replacement and Stream Restoration/Winchester



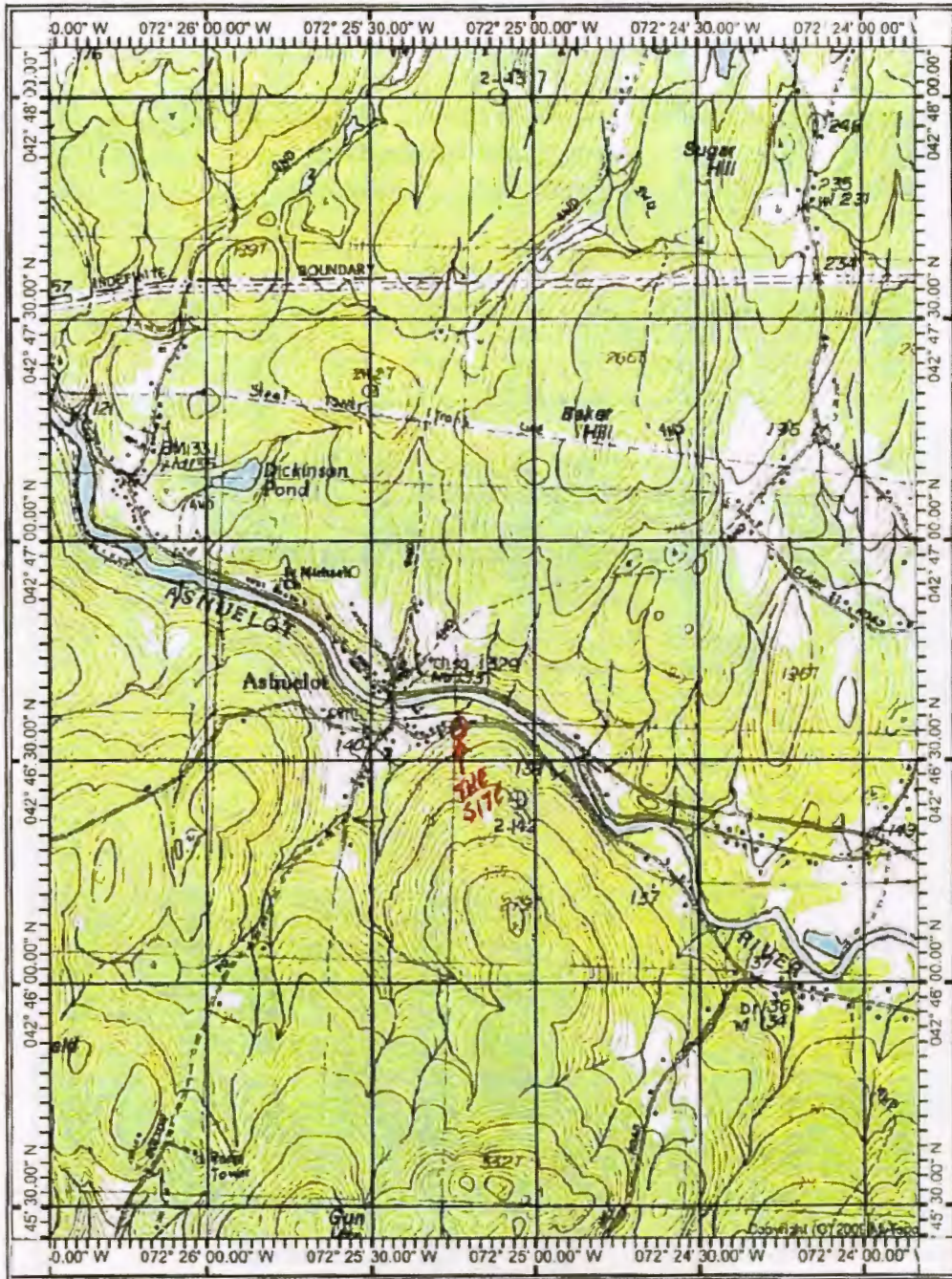
Fitzwilliam NH Route 119 Culvert Replacement & Stream Passage Improvement/Fitzwilliam



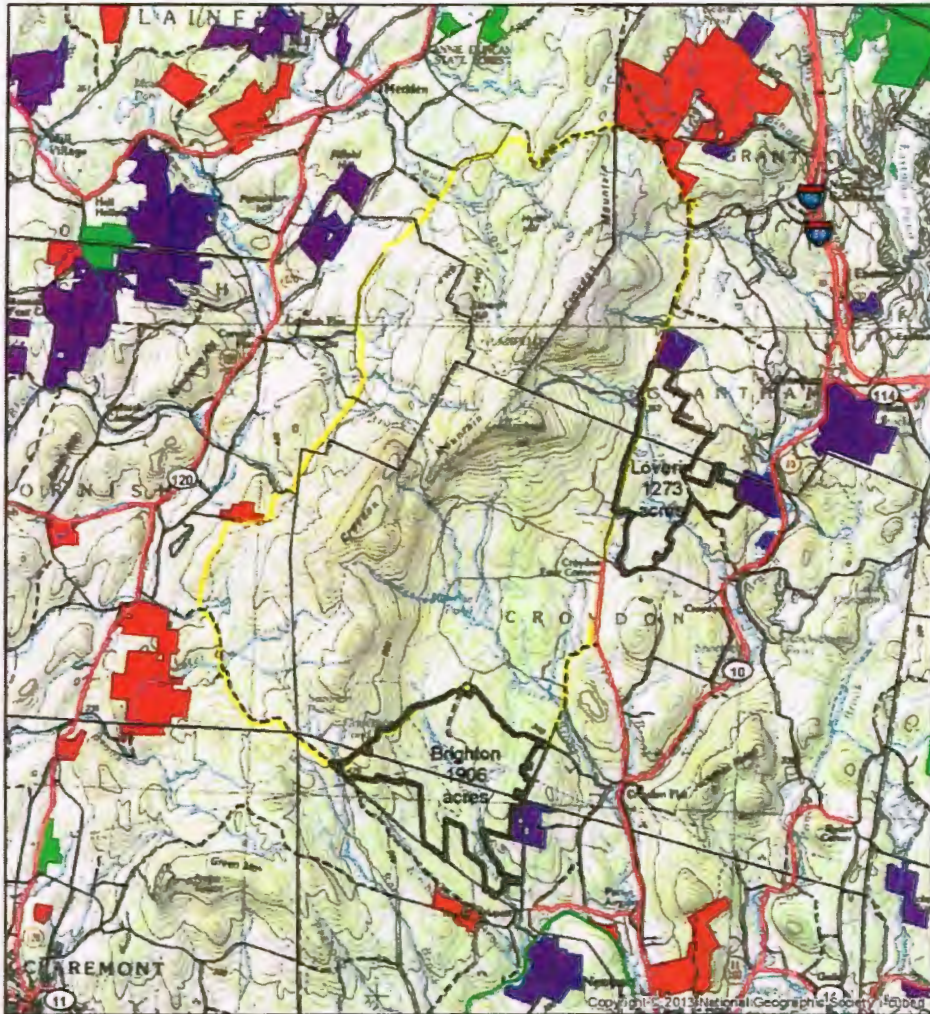
Granite Lake Headwaters, Stoddard



Jones Culvert Replacement, Winchester



**North Branch Sugar River Land Conservation Project – Ruger Property Acquisition/
Newport, Croydon & Grantham**



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**CONSERVATION/PUBLIC LAND
by Primary Protecting Agency**

- Town/County
- State Agency
- Private Organization
- Corbin perimeter fence (approximate)



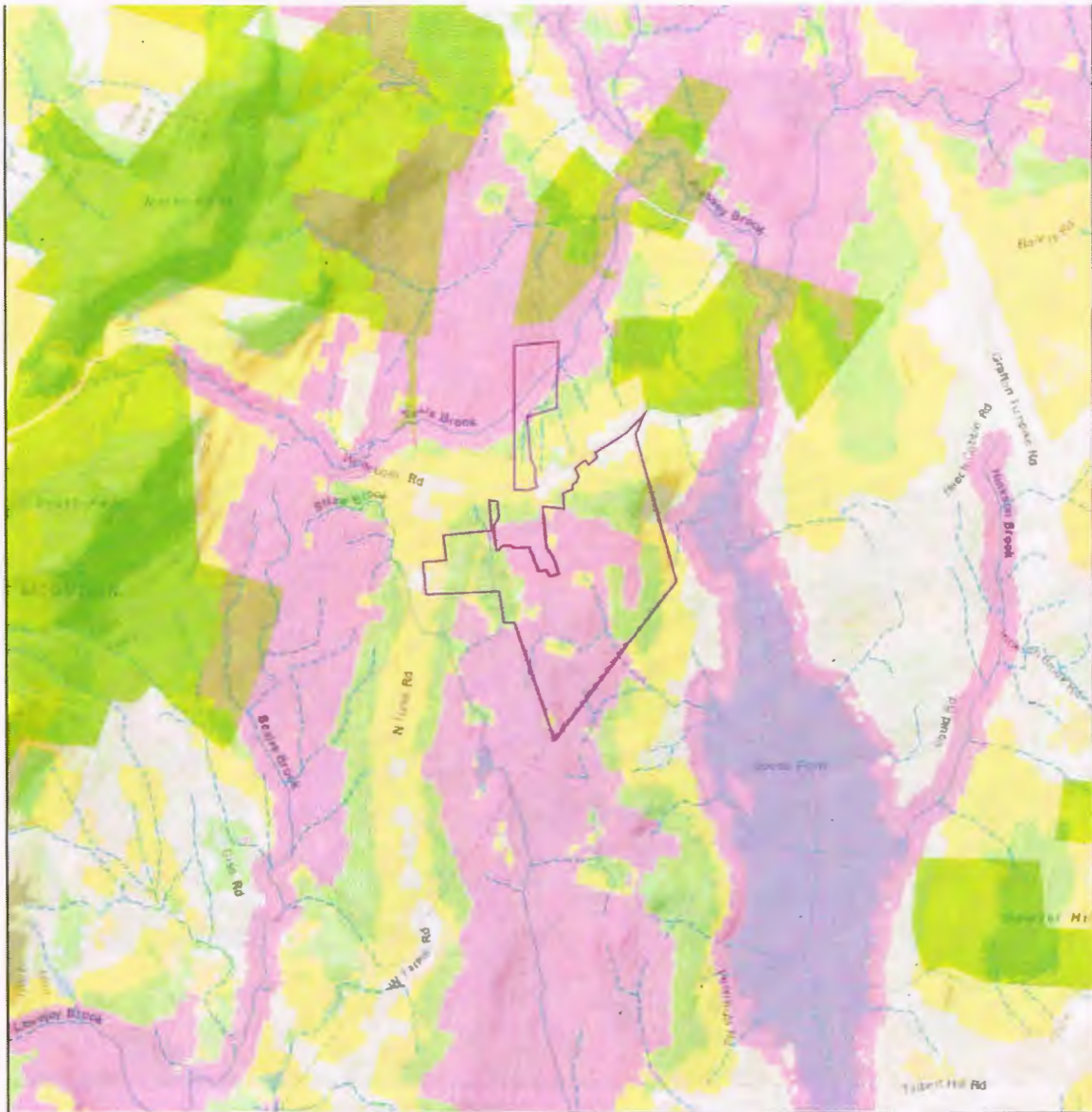
0 0.5 1
Miles
NHFG: 8/27/2018



Thompson Brook Restoration/Surry



Tunis District – Headwater & Wetland Protection Project

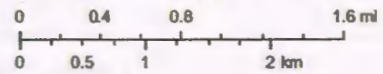


8/29/2018, 1:05:02 PM

1:48,000

- Tunis_ARM-focus-parcels_outline
- WAP 2015: Highest Ranked Wildlife Habitat**
- Not Top Ranked
- Highest Ranked Habitat in NH
- Highest Ranked Habitat in Region
- Supporting Landscape

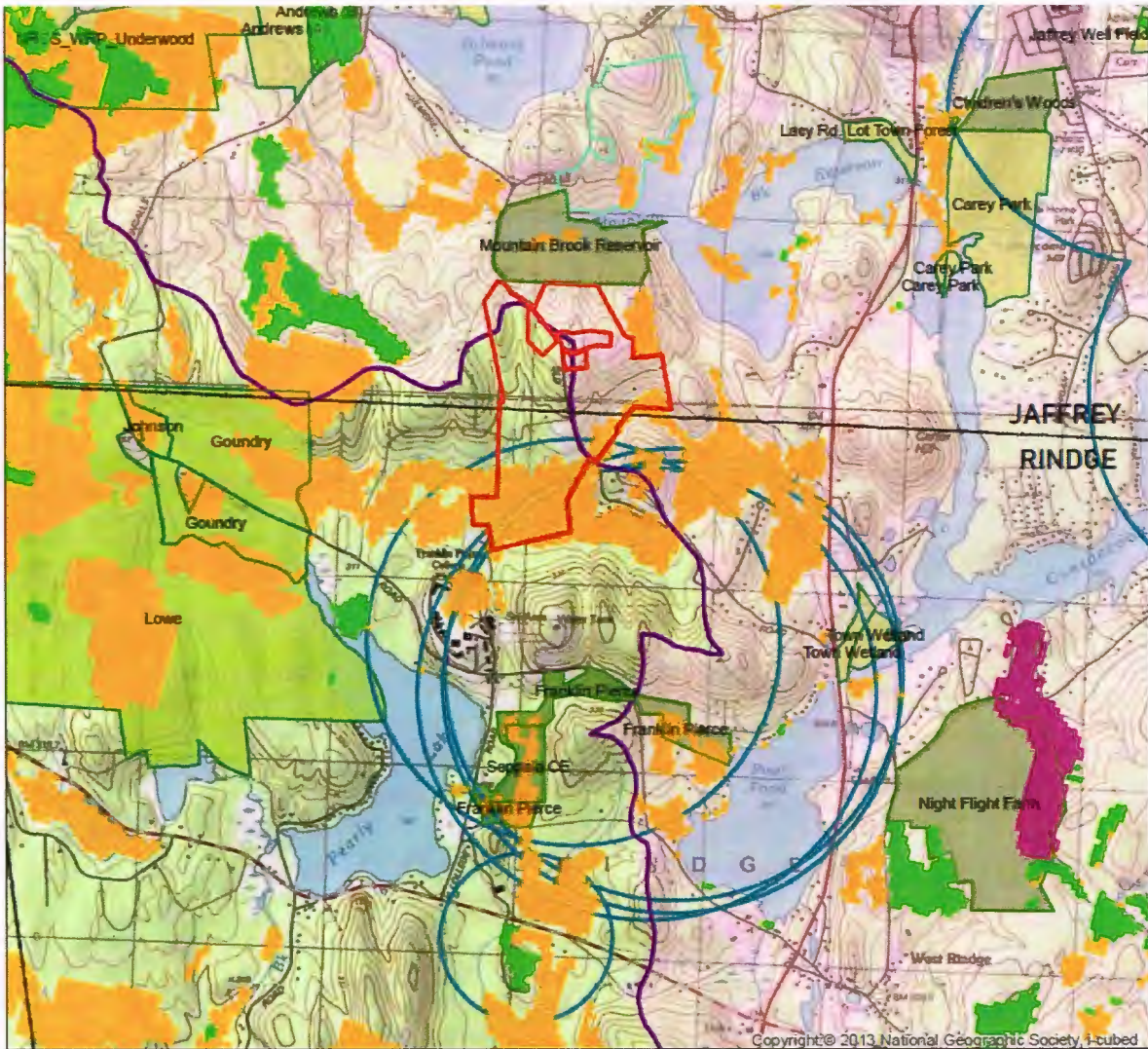
- Conservation and Public Lands**
- Permanent conservation land
 - Unofficial conservation land
 - Unprotected water supply land
 - Developed public land
 - Unknown



Sources: Esri, HERE, Garmin, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, © OpenStreetMap contributors, and the GIS User Community

LOWER CONNECTICUT & CONTOOCOOK RIVER SERVICE AREAS

Bearce/Jaffrey & Rindge



NAD 83 - NH State Plane
 A. McBride, 8/24/18
 Source: GRANIT & SWRPC

Note: Map is not survey accurate.

- Bearce property
- Conservancy CE in progress
- Town Boundaries
- Wellhead Protection Areas
- Source Water Protection Area
- Monadnock Conservancy Lands
- Other Protected Lands

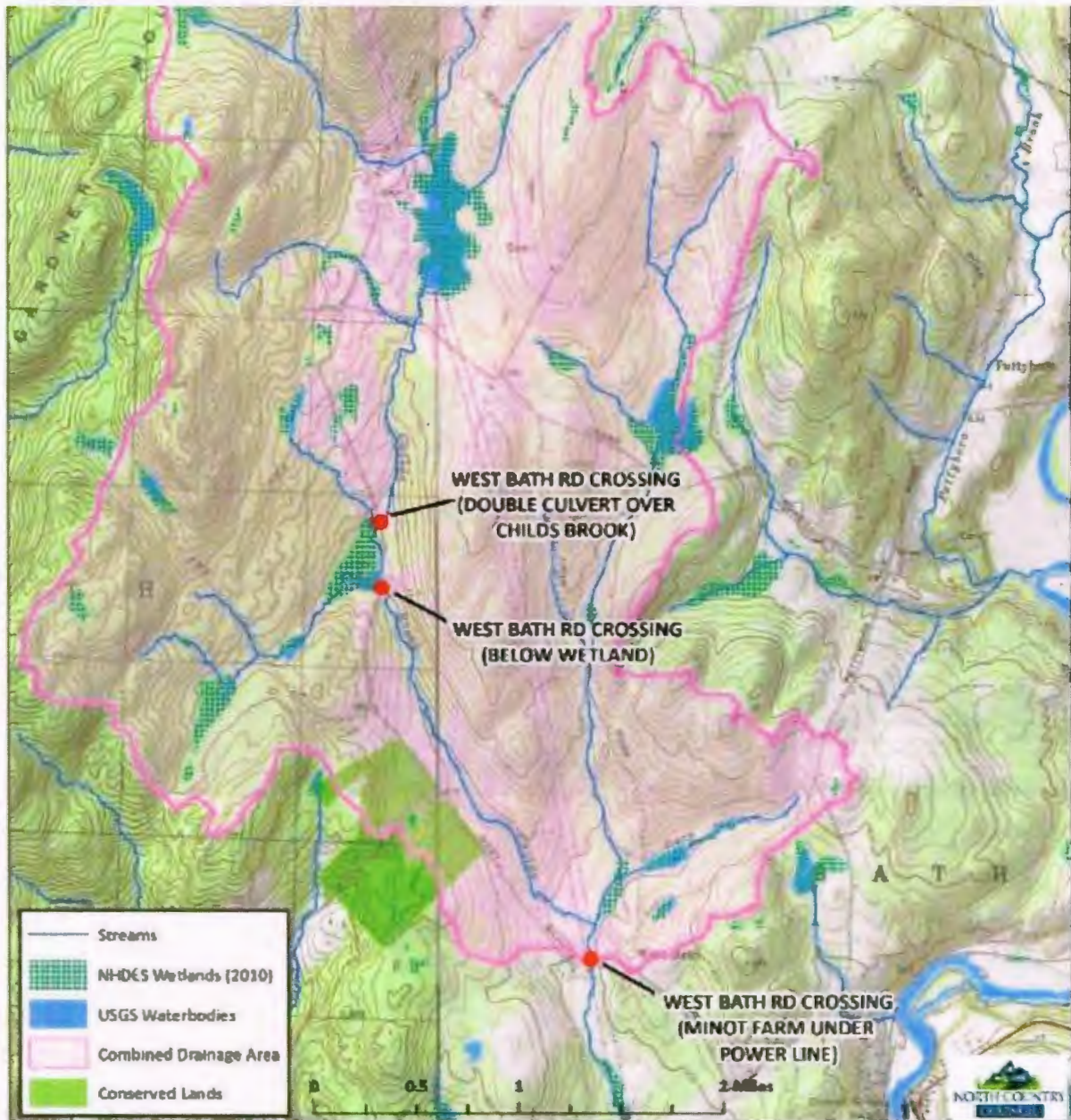
- Wildlife Action Plan Tiers**
- 1 Highest Ranked Habitat in New Hampshire
 - 2 Highest Ranked Habitat in Biological Region
 - 3 Supporting Landscapes



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MIDDLE CONNECTICUT RIVER SERVICE AREA

Child's Brook Habitat Restoration Project/Bath



Jean Chamberlin North Conservation Area/Bath



Jean Chamberlin South Conservation Area/Haverhill



Neil Chamberlin Conservation Area/Bath

