



BOXFORD SELECT BOARD

Monday, June 12, 2023

Town Hall 7A Spofford Road

Meeting Room 1

Remote option through Zoom:

<https://us02web.zoom.us/j/8157412201?pwd=WFIUWU1PS1c2NGNuZUJ3TERNbWpRQT09>

AGENDA

This meeting is audio and video recorded

6:30 PM Call to Order

6:35 PM Announcements

6:40 PM Reorganization of Select Board

- Election of Chair and Vice Chair/ Clerk

6:45 PM Recognition of Scouting Achievements

- Eagle Scout, Dennis Pyburn III

6:55 PM Meeting with Treasurer/ Collector Ellen Guerin

- Signing of General Obligation Bond Anticipation Notes
- Any other business before the Treasurer/ Collector and the Board not anticipated at the time of this posting.

7:05 PM Meeting with Recycling Committee

- Discussion on whether Town should endorse product stewardship state legislative bills
- Any other business before the Committee and the Board not anticipated at the time of this posting.

7:20 PM Meeting with Open Space Planning Committee

- Update on the Open Space and Recreation Plan process
- Upcoming June 22nd Public Hearing for plan
- Any other business before the Committee and the Board not anticipated at the time of this posting.

- 7:35 PM Meeting with Boxford Housing Partnership Committee**
- BHP expansion of membership request
 - Proposed Small Repair Grant Trustees
 - Any other business before BHP and the Board not anticipated at the time of this posting.

- 7:50 PM Report of the Town Administrator**
- Consider executing 1-year trash/ recycling collection contract with Waste Management
 - Purchase and Sale Agreement, 0 Herrick Road (Dorman Property)
 - Update of FY23 Performance Evaluation Process
 - FY2024 Appointments
 - Any other business to come before the Town Administrator and the Board not anticipated at the time of this posting.

- 8:05 PM Routines**
- Correspondence
 - Appointments
 - Approval of Minutes
 - School and Non-School Warrants

8:10 PM Any other business to come before the Board

- 8:15 PM Executive Session**
- To discuss strategy with respect to litigation if an open meeting may have a detrimental effect on the litigating position of the public body and the chair so declares; Andrews Farm Water Company

Adjourn

Next Meeting – June 26, 2023

New Call to Order

I call this meeting to order and inform all that this meeting is being video and audio recorded.

Pursuant to Chapter 2 of the Acts of 2023, this meeting will be conducted via remote hybrid means, in accordance with applicable law. This means that members of the public body as well as members of the public may access this meeting via virtual means in addition to in person through the remote participation link provided on this meeting's posting on the Town's website calendar. The website calendar also lists the specific ID number required for virtual attendance via Zoom along with phone numbers to dial into the meeting.

Additionally, the public is able to: Listen to and/or view this meeting via BCATv on FIOS channel #39 or Comcast Channel #22 or through the BCATv website; OR Participate in the meeting virtually.

Members please be aware that, if at least one member attends the meeting remotely, all votes must be roll call votes.

Boxford Park Program

The Boxford Park Program will run for 5 weeks
at the Spofford Pond School
Tuesday, Wednesday and Thursdays
9:30am – 12:30pm
beginning on Tuesday, June 27
for children entering Kindergarten – 6th grade
and CIT's entering grade 7 & 8



For more detailed information on the
program and to register your child,
please visit our website:

www.boxfordma.gov/BoxfordParkProgram

Boxford Athletic Association 32nd Annual 4th of July Road Race

Join us on Tuesday July 4th at 8:00am for the 32nd Annual Boxford July 4th Road Race. Set in the historic East Boxford Village, this wonderful family event includes something for everyone including a 2.5 and 5 mile competitive event, and the Boxford mile. All runners and walkers are encouraged to join in the fun!



For additional information and registration, please visit the Boxford Athletic Association website at

www.baasports.com

**TOWN OF BOXFORD
OPEN SPACE AND RECREATION PLAN COMMITTEE
PUBLIC HEARING**

on the

**DRAFT OPEN SPACE AND RECREATION PLAN
Meeting Room 1 (a.k.a. the Select Board's Meeting Room)**

June 22, 2023 at 7:00 p.m.

(Interested persons must be physically present at the meeting to participate)

To present the draft Open Space and Recreation Plan document and accompanying plans, and to solicit any comments from the public on the open space and recreational needs of the Town of Boxford. Comments received at the hearing will be considered and incorporated as appropriate in the final document to be submitted to the State for approval. All persons interested in Boxford's open spaces and recreational resources are encouraged to attend. Written comments may also be submitted to Ross Povenmire, Land Use Director, 7A Spofford Road, Boxford, MA 01921 or at rpoenmire@town.boxford.ma.us

Unanticipated items arising after the posting deadline at the discretion of the Chair



Summer BBQ's at the Council on Aging

Wednesday, June 28, 12:00PM
(And every other week beginning 7/12)

**RESERVATIONS ARE REQUIRED -
WALK INS WILL BE TURNED AWAY.**

We ask that you sign up ASAP.
Reservations need to be received no
later than 9am on the day before the
BBQ.

Price is \$5.00/pp. The menu consists of
hamburgers and hotdogs with at least
one type of salad.

The COA van is available at no cost for
any Boxford senior who wishes to take
advantage of this service.

Stiles Pond Beach

Stiles Pond Beach will be open
mid-June through Labor Day, 2023.

Membership costs are as follows:

Family: \$225

Individual: \$110

Senior: \$35

For registration, please visit the Boxford Athletic
Association website at www.baasports.com



Hope to see you at the pond!

The 10 Elm Committee

Invites Everyone to Come for...



Please Preregister

Family

MOVIE NIGHT

FREE
for Boxford
Residents

Saturday, June 17

The Center at 10 Elm, Boxford
Bring a blanket and picnic dinner for 5:00pm
Indoor movie will begin at 6:00pm

Bring your family and tell you friends:
let's enjoy an evening together at the
Community Center!

Featured Movie Title:

"The Bad Guys"

Rated Parental Guide (PG)

For more information contact 10elmcommittee@gmail.com



From: [Ellen Guerin](#)
To: [Matt Coogan](#)
Cc: [Brendan Sweeney](#)
Subject: Final Results - B.A.N. Sale
Date: Wednesday, June 7, 2023 4:01:33 PM
Attachments: [N-23-06-22 Boxford BAN Results.pdf](#)
[N-23-06-22 Boxford BAN MPL.pdf](#)

Matt,

Per the attached, three (3) bids were received on the bond anticipation note sold today. The highest bidder was Fidelity, offering a net interest cost of 3.8937%.

The note amount is \$1,211,801. It is a renewal of the one year note issued last June to finance the acquisition of the 27 Main Street property, design #2 for elementary school site renovations and the remaining project cost for the Center at 10 Elm. These projects will be permanently financed when this note comes due next June.

Bond counsel is drawing up the closing documents to be signed at the meeting of the Select Board on Monday, June 12th (6:50PM).

Ellen S. Guerin

Treasurer/Collector of Taxes
Town of Boxford
7A Spofford Road
Boxford, MA 01921

978-887-3673
978-887-3546 (fax)
eguerin@town.boxford.ma.us
www.town.boxford.ma.us

Messages to and from this e-mail account are subject to G.L. c66, s10, the Public Records Law.

Town of Boxford, Massachusetts

\$1,211,801 General Obligation Bond Anticipation Notes

Sale Date: 6/7/2023
Dated Date: 6/22/2023
Delivery Date: 6/22/2023
Due Date: 6/21/2024
Days Per Year: 360
Day Count: 359
Bank Qualified: Yes
Rating: None



Bidder	Underwriter	Principal	Coupon Rate	Premium	Interest	Net Interest	NIC	Prorata Premium	Prorata Interest	Award	Reoffering Yield
Fidelity Capital Markets	•	\$1,211,801	4.00%	\$1,284.51	\$48,337.40	\$47,052.89	3.8937%	\$1,284.51	\$48,337.40	\$1,211,801	
BNYMellon Capital Markets	•	\$1,211,801	5.00%	\$10,339.94	\$60,421.74	\$50,081.80	4.1444%				
Newburyport Five Cents Savings Bank		\$1,211,801	4.73%	\$0.00	\$57,158.97	\$57,158.97	4.7300%				
Award Totals								\$1,284.51	\$48,337.40	\$1,211,801	

Weighted Average Net Interest Cost: 3.8937%

MUNICIPAL PURPOSE LOAN

Town of Boxford, Massachusetts

\$1,211,801 General Obligation Bond Anticipation Notes



Sale Date: 6/7/2023
 Dated Date: 6/22/2023
 Delivery Date: 6/22/2023
 Due Date: 6/21/2024
 Bank Qualification: Yes

<u>Purpose</u>	<u>Vote Date(s)</u>	<u>Reference</u>	<u>Amount Authorized</u>	<u>Previous Issues</u>	<u>Bonds, Grants and/or Paydowns</u>	<u>Renewal This Issue</u>	<u>New This Issue</u>	<u>Total This Issue</u>	<u>Balance Unissued</u>	<u>Original Issue Date</u>	<u>Prorata Interest</u>	<u>Prorata Premium</u>
27 Main St. Purchase	6/26/2021	M.G.L. Ch.44, s.7(1)	\$465,000	\$438,167	\$26,833	\$438,167	\$0	\$438,167	\$0	6/23/2022	\$17,477.99	\$464.46
Cummings House Renovation & Restoration	6/26/2021	M.G.L. Ch.44, s.7(1)	\$3,258,634	\$612,634	\$2,646,000	\$612,634	\$0	\$612,634	\$0	6/23/2022	\$24,437.29	\$649.39
Additional Harry Lee Cole School & Spofford Pond School Site Renovations	6/26/2021	M.G.L. Ch.44, s.7(1)	\$336,000	\$161,000	\$175,000	\$161,000	\$0	\$161,000	\$0	6/23/2022	\$6,422.11	\$170.66
Totals			\$4,059,634	\$1,211,801	\$2,847,833	\$1,211,801	\$0	\$1,211,801	\$0		\$48,337.40	\$1,284.51

EXEMPT

VOTE OF THE SELECT BOARD

I, the Clerk of the Select Board of the Town of Boxford, Massachusetts, certify that at a meeting of the board held June 12, 2023, of which meeting all members of the board were duly notified and at which a quorum was present, the following votes were unanimously passed, all of which appear upon the official record of the board in my custody:

Voted: to approve the sale of the \$1,211,801 4.00 percent General Obligation Bond Anticipation Notes (the “Notes”) of the Town dated June 22, 2023, and payable June 21, 2024, to Fidelity Capital Markets, a division of National Financial Services LLC at par and accrued interest, if any, plus a premium of \$1,284.51.

Further Voted: that in connection with the marketing and sale of the Notes, the preparation and distribution of a Notice of Sale and Preliminary Official Statement dated May 23, 2023, as revised on May 24, 2023, and a final Official Statement dated June 7, 2023, each in such form as may be approved by the Town Treasurer, be and hereby are ratified, confirmed, approved and adopted.

Further Voted: that the Town Treasurer and the Select Board be, and hereby are, authorized to execute and deliver a significant events disclosure undertaking in compliance with SEC Rule 15c2-12 in such form as may be approved by bond counsel to the Town, which undertaking shall be incorporated by reference in the Notes for the benefit of the holders of the Notes from time to time.

Further Voted: that we authorize and direct the Town Treasurer to establish post issuance federal tax compliance procedures and continuing disclosure procedures in such forms as the Town Treasurer and bond counsel deem sufficient, or if such procedures are currently in place, to review and update said procedures, in order to monitor and maintain the tax-exempt status of the Notes and to comply with relevant securities laws.

Further Voted: that any certificates or documents relating to the Notes (collectively, the “Documents”), may be executed in several counterparts, each of which shall be regarded as an original and all of which shall constitute one and the same document; delivery of an executed counterpart of a signature page to a Document by electronic mail in a “.pdf” file or by other electronic transmission shall be as effective as delivery of a manually executed counterpart signature page to such Document; and electronic signatures on any of the Documents shall be deemed original signatures for the purposes of the Documents and all matters relating thereto, having the same legal effect as original signatures.

Further Voted: that each member of the Select Board, the Town Clerk and the Town Treasurer be and hereby are, authorized to take any and all such actions, and execute and deliver such certificates, receipts or other documents as may be determined by them, or any of them, to be necessary or convenient to carry into effect the provisions of the foregoing votes.

I further certify that the votes were taken at a meeting open to the public, that no vote was taken by secret ballot, that a notice stating the place, date, time and agenda for the meeting (which agenda included the adoption of the above votes) was filed with the Town Clerk and a copy thereof posted in a manner conspicuously visible to the public at all hours in or on the municipal building that the office of the Town Clerk is located or, if applicable, in accordance with an alternative method of notice prescribed or approved by the Attorney General as set forth in 940 CMR 29.03(2)(b), at least 48 hours, not including Saturdays, Sundays and legal holidays, prior to the time of the meeting and remained so posted at the time of the meeting, that no deliberations or decision in connection with the sale of the Notes were taken in executive session, all in accordance with G.L. c.30A, §§18-25 as amended.

Dated: June 12, 2023

Clerk of the Select Board

133340241v.1

From: [Sheridanik](#)
To: [Laura Dike](#); [Linda Shea](#); [Matt Coogan](#)
Cc: [Brendan Sweeney](#); [Georgia Cameron](#); [Joanna Daniel](#); [Barbara Jessel](#)
Subject: Re: Has Your Community, Committee or Organization Signed the Product Stewardship Endorsement Form?
Date: Tuesday, June 6, 2023 1:07:25 PM

External Sender

Matt,

See the Recycling Committee's recommendation to the Select Board:

"Passing Product Stewardship (PS) laws in Massachusetts are key to addressing our very real trash crisis (vanishing in-state disposal capacity) as well as our recycling crisis (what can and cannot be recycled). A hearing is anticipated to be held on June 14th that will cover product stewardship bills that the [Mass Product Stewardship Council](#) is tracking for paint, mattresses and packaging/printed paper. The Mass PSC is asking communities like ours to sign onto an endorsement form to show our support for Product Stewardship."

Karen Sheridan
Chair, Recycling Committee

On Tuesday, June 6, 2023 at 08:28:33 AM EDT, Matt Coogan <mcoogan@town.boxford.ma.us> wrote:

Hi Karen and all

The Select Board would give authorization for the Town to sign onto endorsing this legislature. They could take a vote at their meeting next Monday, June 12 to do so. If the Recycling Committee can formally submit a recommendation to the Select Board by email, I can include on their agenda for Monday night.

Thanks,

Matt

From: Laura Dike <ledike@comcast.net>

Sent: Tuesday, June 6, 2023 6:10 AM

To: Linda Shea <lsh316@gmail.com>

Cc: Sheridanjk <sheridanjk@aol.com>; Matt Coogan <mcoogan@town.boxford.ma.us>; Brendan Sweeney <bsweeney@town.boxford.ma.us>; Georgia Cameron <gpcameron@gmail.com>; Joanna Daniel <jrcorraro@gmail.com>

Subject: Re: Has Your Community, Committee or Organization Signed the Product Stewardship Endorsement Form?

External Sender

I concur. It's the only way to get the manufacturers to change and to stop laying the burden on us, the consumer and towns we live in. I hope that we will sign on in support.

Thx

Laura

Sent from my iPhone

On Jun 5, 2023, at 9:47 PM, Linda Shea <lsh316@gmail.com> wrote:

Thanks, Karen. Glad to see that Sharon has taken this on. We really do need to shift responsibility away from the local municipalities and the consumer. It is time for the producers to step up and consider the environmental/financial impact. Seems like an easy sell. Hope Matt and Brendan agree.

Sent from my iPhone

On Jun 5, 2023, at 9:11 PM, Sheridanjk <sheridanjk@aol.com> wrote:

Hi Matt and Brendan,

Can we get Boxford to sign onto the product stewardship bills for paint, mattresses and packaging and paper?

Thanks,

Karen

----- Forwarded Message -----

From: Sharon Kishida <sbkishida@gmail.com>

Sent: Monday, June 5, 2023 at 02:57:51 PM EDT

Subject: Has Your Community, Committee or Organization Signed the Product Stewardship Endorsement Form?

All:

Please take a few minutes to read below and take action to correct an unforgiving system that burdens municipalities with the cost of managing discarded products and packaging that you have no control over. Massachusetts municipalities are now paying extraordinary amounts for trash, recycling, and disposal of household and school trash. About half of all this waste consists of **packaging and printed paper**. The brand owners that ultimately put this stuff in our residents' trash and recycling containers currently have **no incentive** to reduce its volume, to use materials that don't contaminate and devalue our recycling streams, or to use recycled content. **We can change that by shifting the cost of managing it to the producers.**

Paint and mattresses are also problem items that we **have a real opportunity this legislative session** to offload from municipal and resident disposal budgets. Existing paint and mattress product stewardship systems are both funded and run by their industries and **well established in many other states**. I am particularly focused on getting a **Paint Stewardship** law passed since 10 states have already passed and successfully implemented - 5 of them our nearby, mostly abutting states (CT, RI, VT, NY, ME!) Passage of a paint product stewardship law is also a **priority** for the Mass Municipal Association (MMA). Recently **Representative Jennifer Armini** have signed on to support paint legislation and this week, **Senator Joan Lovely** also signed on as a co-sponsor! This happened because they heard from people like you urging them to support this legislation.

Mattress product stewardship laws have also been passed by CT, RI, ME. Packaging and paper laws operate in many countries, and have been enacted in ME, CA, CO, OR, with more coming.

I'm a member of the [Massachusetts Product Stewardship Council](#) (MassPSC),

a formal committee of MassRecycle. Its goal is to **shift the costs for end of life management from tax- and rate-payers to the companies that sell them**, through product stewardship legislation. The legislative session at Beacon Hill is heating up and **we need your help!** I am reaching out to you to collect [endorsements](#) for product stewardship legislation for these materials.

MassPSC will be sending a letter to the [Joint Committee on Environment and Natural Resources](#) with a list of supporters of product stewardship legislation by **June 13**, the day before it is anticipated to hold a public hearing on these and other bills. **Will your community sign on?** See link below. Several of us will also be testifying. I am planning to testify in person on June 14. Let me know if you are interested in joining me or submitting testimony (in person, by zoom or email).

34 [muni's and environmental groups](#) signed on to support EPR legislation last session. We're aiming to at least double that this year.

Will you add your support? **If so, please fill out this [form](#) by June 13.**

[Paint bill summary](#) [Mattress bill summary](#) [Packaging and printed paper bill summary](#)

Please do not hesitate to contact me with your questions, concerns. Again, we are hoping you can sign by June 13 (but you can send in after that too.) Please let me know if your community signs the resolution.

Sincere regards,

Sharon

Sharon Byrne Kishida
MassDEP, retired Northeast District 2 MAC
Mass Product Stewardship Council Member

sbkishida@gmail.com

978 317 9701



Town of
Boxford
Massachusetts

Town of Boxford
Open Space and Recreation Plan
Survey Results

April 12, 2023

1. How important is it to you that the Town has acquired land in the past for:



2. How important is it to you that the Town continues to acquire land for:



3. How important is it to you that the Town provide:



4. What elements or characteristics, if any, within Boxford do you feel are important contributors to the Town's scenic/rural quality?



1. How important is it to you that the Town has acquired land in the past for:	Protecting groundwater/drinking water resources		Protecting wildlife habitat		Protecting forests		Protecting farmland		Active recreation (organized sports)		Passive recreation (hiking/birding/etc.)		Protecting the town's scenic/rural quality	
Very Important	329	80.24%	250	60.98%	248	60.49%	177	43.17%	106	25.85%	216	52.68%	241	58.78%
Important	66	16.10%	116	28.29%	120	29.27%	140	34.15%	123	30.00%	150	36.59%	95	23.17%
Less Important	10	2.44%	35	8.54%	34	8.29%	72	17.56%	128	31.22%	29	7.07%	50	12.20%
Not Important	4	0.98%	8	1.95%	6	1.46%	18	4.39%	50	12.20%	12	2.93%	20	4.88%
No Opinion	1	0.24%	1	0.24%	2	0.49%	3	0.73%	3	0.73%	3	0.73%	4	0.98%

2. How important is it to you that the Town continues to acquire land for:	Protecting groundwater/drinking water resources		Protecting wildlife habitat		Protecting forests		Protecting farmland		Active recreation (organized sports)		Passive recreation (hiking/birding/etc.)		Protecting the town's scenic/rural quality	
Very Important	305	74.39%	232	56.59%	237	57.80%	167	40.73%	83	20.24%	198	48.29%	222	54.15%
Important	78	19.02%	112	27.32%	110	26.83%	118	28.78%	117	28.54%	130	31.71%	104	25.37%
Less Important	10	2.44%	40	9.76%	41	10.00%	87	21.22%	116	28.29%	52	12.68%	46	11.22%
Not Important	17	4.15%	26	6.34%	22	5.37%	35	8.54%	91	22.20%	28	6.83%	34	8.29%
No Opinion	0	0.00%	0	0.00%	0	0.00%	3	0.73%	3	0.73%	2	0.49%	4	0.98%

3. How important is it to you that the Town provide:	Parks and community gathering spaces		Paved bike paths		Bike lanes		Rail trail		Sidewalks in town centers		Sidewalks around schools		Sidewalks in neighborhoods		Community garden plots	
Very Important	148	36.10%	103	25.12%	86	20.98%	144	35.12%	91	22.20%	109	26.59%	64	15.61%	30	7.32%
Important	159	38.78%	78	19.02%	79	19.27%	148	36.10%	86	20.98%	131	31.95%	46	11.22%	83	20.24%
Less Important	76	18.54%	119	29.02%	126	30.73%	75	18.29%	103	25.12%	84	20.49%	106	25.85%	121	29.51%
Not Important	26	6.34%	107	26.10%	116	28.29%	40	9.76%	125	30.49%	79	19.27%	183	44.63%	166	40.49%
No Opinion	1	0.24%	3	0.73%	3	0.73%	3	0.73%	5	1.22%	7	1.71%	11	2.68%	10	2.44%

4. What elements or characteristics, if any, within Boxford do you feel are important contributors to the Town's scenic/rural quality?	Roadside trees		Open landscapes (fields, meadows, wetlands)		Forested landscapes		Lakes, rivers, and other water bodies		Rustic, natural stone walls		Historic districts		Farms		Narrow roadways		Space between neighbors		Civic buildings		Civic spaces (town green, parks)	
Very Important	178	43.41%	214	52.20%	224	54.63%	266	64.88%	194	47.32%	124	30.24%	141	34.39%	65	15.85%	215	52.44%	37	9.02%	92	22.44%
Important	155	37.80%	155	37.80%	139	33.90%	128	31.22%	143	34.88%	144	35.12%	164	40.00%	94	22.93%	126	30.73%	142	34.63%	184	44.88%
Less Important	58	14.15%	33	8.05%	41	10.00%	10	2.44%	59	14.39%	100	24.39%	79	19.27%	138	33.66%	43	10.49%	156	38.05%	97	23.66%
Not Important	16	3.90%	6	1.46%	3	0.73%	2	0.49%	12	2.93%	38	9.27%	23	5.61%	99	24.15%	23	5.61%	67	16.34%	36	8.78%
No Opinion	3	0.73%	2	0.49%	3	0.73%	4	0.98%	2	0.49%	4	0.98%	3	0.73%	14	3.41%	3	0.73%	8	1.95%	1	0.24%

5. Please identify the recreational activities which you or your family currently participate in or would like to participate in:

Please identify the recreational activities which you or your family currently participate in or would like to participate in:	Number of Responses	%
Birding	324	9.04%
Jogging	315	8.79%
Swimming	225	6.28%
Field Hockey	169	4.71%
Indoor Basketball	169	4.71%
Frisbee	168	4.69%
Tennis	152	4.24%
Canoeing/Kayaking/etc.	143	3.99%
Track and Field	139	3.88%
Ice Skating	137	3.82%
Sailing	136	3.79%
Fishing	132	3.68%
Cross Country Skiing	127	3.54%
Pickleball	126	3.51%
Outdoor Basketball	113	3.15%
Cross Country (running)	97	2.71%
Walking	95	2.65%
Mountain Biking	92	2.57%
Softball	88	2.45%
Golf	76	2.12%
Snow Shoeing	72	2.01%
Baseball	64	1.79%
Hunting	55	1.53%
Hiking	51	1.42%
Soccer	46	1.28%
Horseback Riding	45	1.26%
Lacrosse	37	1.03%
Frisbee Golf	31	0.86%
Cycling (road)	30	0.84%
Skateboarding	30	0.84%
Flag Football	24	0.67%
Football	23	0.64%
Playground	22	0.61%
Picnicking	22	0.61%
Ultimate Frisbee	10	0.28%

Others	Number of Responses	%
Dog Activities	6	0.17%
Meditating in the Woods	1	0.03%
Star Gazing	1	0.03%
Volleyball	1	0.03%
Yoga	1	0.03%
Pilates	1	0.03%
Tai Chi	1	0.03%
Drama Class	1	0.03%
Music Pavilion	1	0.03%
4-Wheeling	1	0.03%
Enjoying Wildlife	1	0.03%

6. How satisfied are you with the Town's number of recreational places for each of the age groups listed below:



7. How satisfied are you with the amenities available at the Town's recreational facilities (equipment, parking, shade, etc.) for each of the age groups listed below:



8. How satisfied are you with the condition of the Town's recreational fields and facilities for:



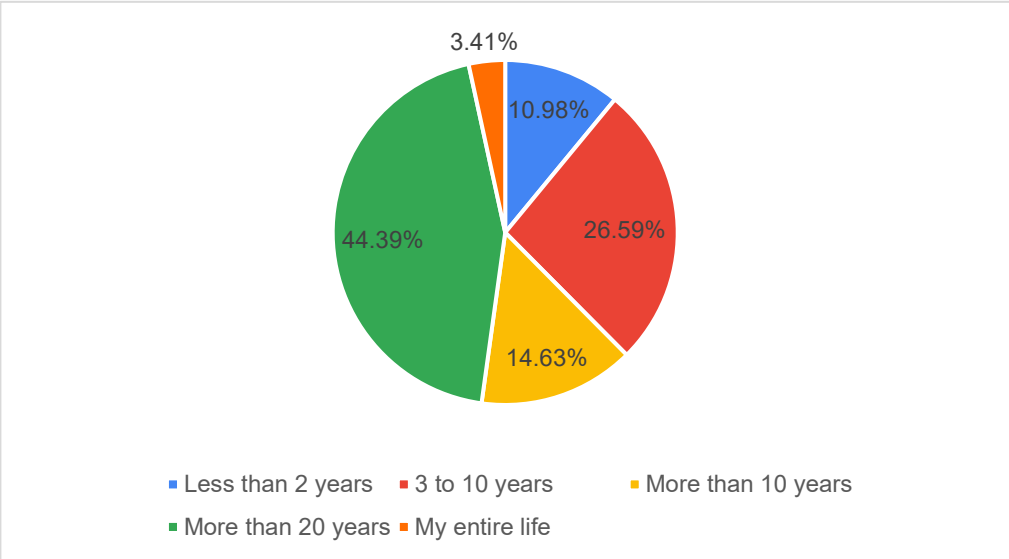
6. How satisfied are you with the Town's number of recreational places for each of the age groups listed below:	Toddlers (up to age 4)		Lower Elementary (grades K - 2)		Upper Elementary (grades 3 - 6)		Middle School (grades 7 - 8)		High School (grades 9 - 12)		Young Adults (19 - 25 years old)		Adults (26 - 64 years old)		Senior Citizens (65+ years old)		Persons with Disabilities	
	Very Satisfied	86	21.03%	89	21.76%	83	20.29%	78	19.07%	81	19.80%	79	19.32%	93	22.74%	106	25.92%	48
Satisfied	218	53.30%	244	59.66%	244	59.66%	209	51.10%	201	49.14%	202	49.39%	204	49.88%	208	50.86%	187	45.72%
Less Satisfied	80	19.56%	59	14.43%	65	15.89%	87	21.27%	89	21.76%	91	22.25%	87	21.27%	71	17.36%	121	29.58%
Not Satisfied	25	6.11%	17	4.16%	17	4.16%	35	8.56%	38	9.29%	37	9.05%	25	6.11%	24	5.87%	53	12.96%

7. How satisfied are you with the amenities available at the Town's recreational facilities (equipment, parking, shade, etc.) for each of the age groups listed below:	Toddlers (up to age 4)		Lower Elementary (grades K - 2)		Upper Elementary (grades 3 - 6)		Middle School (grades 7 - 8)		High School (grades 9 - 12)		Young Adults (19 - 25 years old)		Adults (26 - 64 years old)		Senior Citizens (65+ years old)		Persons with Disabilities	
	Very Satisfied	80	19.56%	79	19.32%	79	19.32%	74	18.09%	79	19.32%	80	19.56%	82	20.05%	91	22.25%	56
Satisfied	228	55.75%	241	58.92%	240	58.68%	229	55.99%	222	54.28%	217	53.06%	224	54.77%	220	53.79%	195	47.68%
Less Satisfied	73	17.85%	65	15.89%	67	16.38%	79	19.32%	77	18.83%	79	19.32%	81	19.80%	73	17.85%	114	27.87%
Not Satisfied	28	6.85%	24	5.87%	23	5.62%	27	6.60%	31	7.58%	33	8.07%	22	5.38%	25	6.11%	44	10.76%

9. How satisfied are you with the condition of the Town's recreational fields and facilities for:	Toddlers (up to age 4)		Lower Elementary (grades K - 2)		Upper Elementary (grades 3 - 6)		Middle School (grades 7 - 8)		High School (grades 9 - 12)		Young Adults (19 - 25 years old)		Adults (26 - 64 years old)		Senior Citizens (65+ years old)		Persons with Disabilities	
	Very Satisfied	85	20.78%	83	20.29%	86	21.03%	87	21.27%	92	22.49%	87	21.27%	86	21.03%	92	22.49%	59
Satisfied	225	55.01%	235	57.46%	220	53.79%	216	52.81%	219	53.55%	218	53.30%	222	54.28%	211	51.59%	199	48.66%
Less Satisfied	74	18.09%	67	16.38%	78	19.07%	76	18.58%	65	15.89%	74	18.09%	74	18.09%	81	19.80%	108	26.41%
Not Satisfied	25	6.11%	24	5.87%	25	6.11%	30	7.33%	33	8.07%	30	7.33%	27	6.60%	25	6.11%	43	10.51%

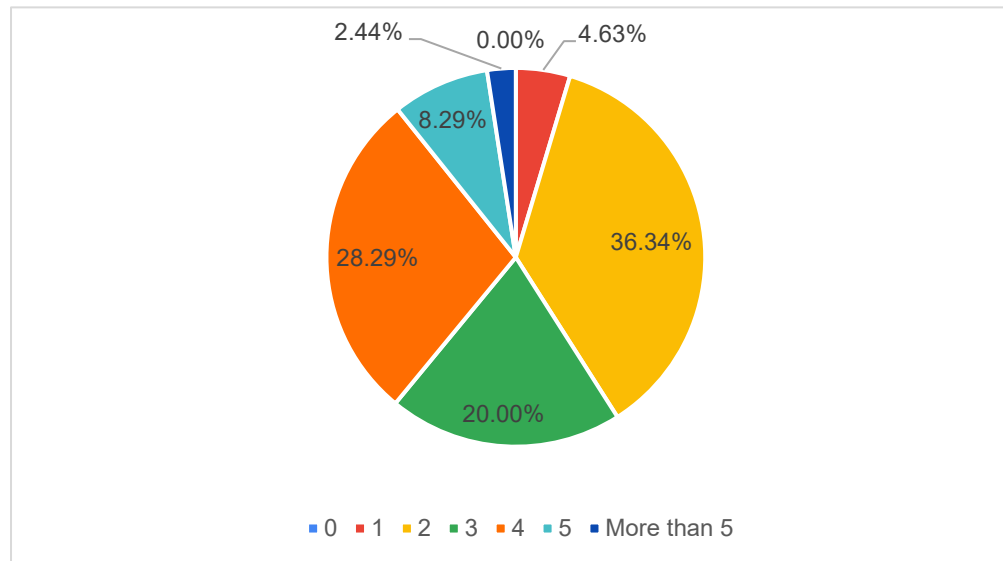
9. How many years have you lived in Boxford?

How many years have you lived in Boxford?	Number of Responses	%
Less than 2 years	45	10.98%
3 to 10 years	109	26.59%
More than 10 years	60	14.63%
More than 20 years	182	44.39%
My entire life	14	3.41%



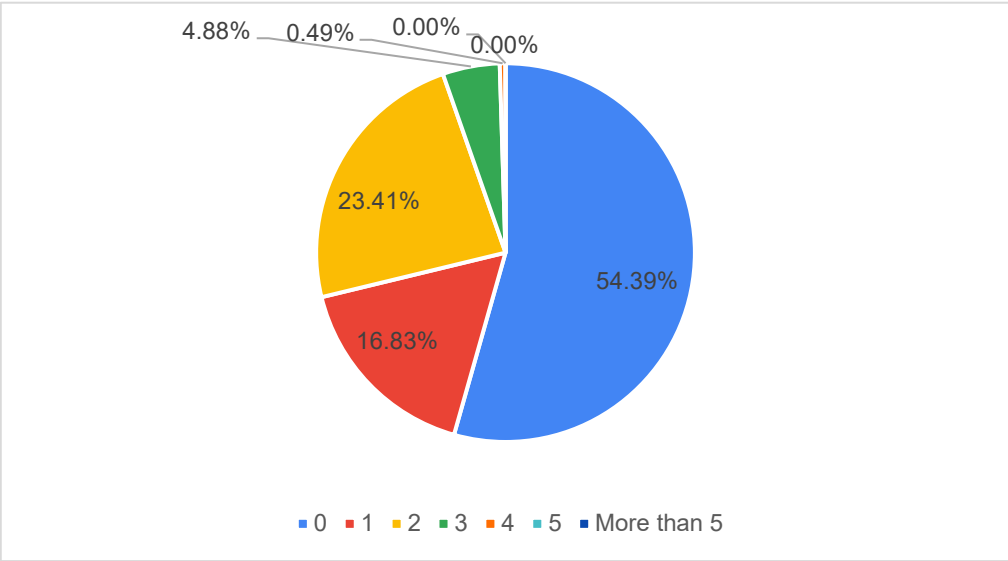
10. How many people reside in your household?

How many people reside in your household?	Number of Responses	%
0	0	0.00%
1	19	4.63%
2	149	36.34%
3	82	20.00%
4	116	28.29%
5	34	8.29%
More than 5	10	2.44%



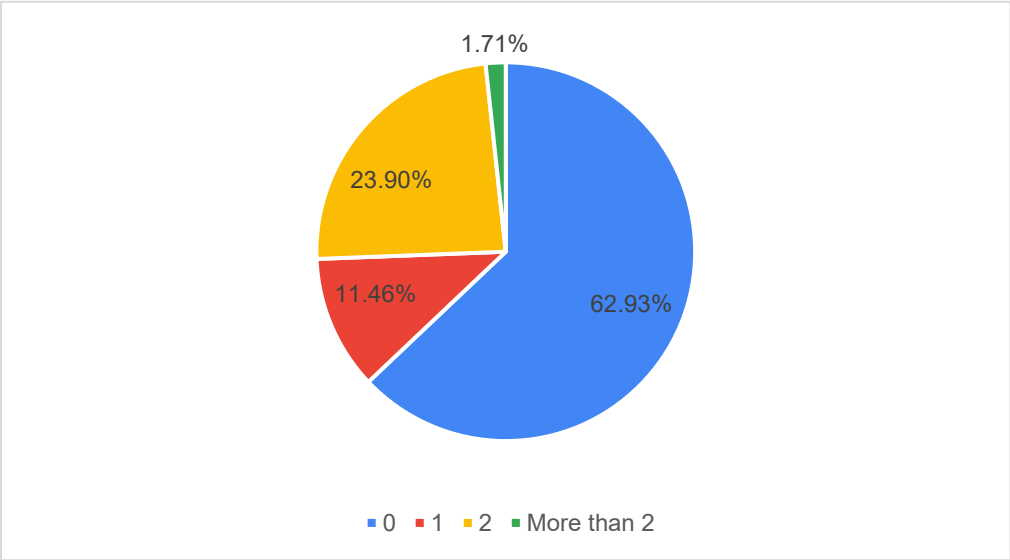
11. How many people in your household are children (18 or younger)?

How many people in your household are children (18 or younger)?	Number of Responses	%
0	223	54.39%
1	69	16.83%
2	96	23.41%
3	20	4.88%
4	2	0.49%
5	0	0.00%
More than 5	0	0.00%



12. How many people in your household are 65 or older?

How many people in your household are 65 or older?	Number of Responses	%
0	258	62.93%
1	47	11.46%
2	98	23.90%
More than 2	7	1.71%



13. Please feel free to share any additional information or ideas below.

I feel like I have filled this same survey out several times. There is zero chance of significant sidewalks in Boxford. While "sports fields" are nice and important, I am very much against the idea of dugouts, snack bars, etc that just result in more things to maintain. Playgrounds are now extremely expensive to build due to the surface requirements etc, I guess I am more of a back to basics person, but an open field, a bat, a baseball and a couple of bases ought to be plenty. Morse field in West Boxford used to be fine for baseball, now the BAA thinks it is not good enough. The baseball field at Stiles pond is often wet. Maybe we should fix the fields we already have before listening to the BAA complain that they do not have enough baseball fields. Perhaps the kids involved with the sports and their parents ought to be involved with actually improving the fields.

There should be a "No Opinion" column for the Satisfaction questions. We are retired and no grandchildren, so how would we know what the facilities for Toddlers are?

Boxford roads do not lend themselves to safe walking or bike riding.

Strongly believe there should be a side walk on ONE side of MAJOR ROADWAYS only in Boxford. Currently, it is extremely dangerous for people of ALL AGES to walk/hike/run/etc on the major connecting roadways (Georgetown Rd, Ipswich Rd, Main St, Topsfield Rd, Herrick Rd, etc.). This would be the MOST BENEFICIAL and UNIVERSAL improvement the town could make.

I enjoy the walking trails in Boxford

Replace park at Johnson field. People get hurt there.

There really is not anything for kids to do in town. Nothing except the parks at school which they're at every day anyway. And boyscout park is not fun for older kids and always has bees. The fields for baseball are embarrassing. Put in some things for kids like indoor/outdoor basketball, an arcade room with snack bar, indoor bouncy house, sidewalks so kids can walk or ride a bike to their local food store in the centers to meet friends. I do enjoy the trails so kudos to BTA/BOLT!

Installing benches in trail areas and public recreation areas would be beneficial

A town swimming pool would be awesome for those who cannot put one at their house. Elementary soccer fields are terrible.

The fields and playground behind town hall are very sub par.

We would love to see more inclusive and accessible environments and experiences for children and individuals with disabilities. Our daughter has Down syndrome and we are always wanting to build an inclusive community for her.

I love this town and hope it stays just as it is.

Maintenance of any park, field, recreational area and garden area in town is problematic. Ongoing maintenance is poor to nonexistent.

I would like sidewalks and shoulders where sidewalks are not feasible. It's impossible to walk anywhere in town. You have to choose between potentially being hit by a car or being bitten by a tick while catching poison ivy.

If buying more land means higher taxes then it is the wrong thing to do. This behavior will drive the elderly that love and live in this town out of town. Has anyone thought of reducing spending and therefore reduce taxes?

13. Please feel free to share any additional information or ideas below.

Would love to see sidewalks/hike/bike trails connecting the elementary schools to their surrounding areas. Specifically Spofford to the Library/Town Hall and Cole to Boxford Common and East Boxford Center/10 Elm - especially if there will be future children's/youth programming there. Would also love more playground/rec choices and more links throughout town to the Topsfield hike/bike trail so our older kids can ride to Topsfield Center, Library, and the new Pump Track there. There seems to be some issues with the upkeep of the Boyscout Park playground. There is always SO MUCH trash on the playground and during the late fall/winter there is no trash can either. I try to take a trashbag when we go and collect, but it really is pretty gross. Some of the equipment is broken/worn and I'd love to see it updated/expanded while keeping the original character. And finally, I'd love to see something done about the playground behind the Police Station. It would be a lovely little area for a playground, more tennis/basketball/pickleball courts and maybe an outdoor concert/gathering space for the library and community to use as well. If this area is supposed to be a town center (as home to the town hall and library) let's make it look and act like one so that it becomes a place people actually want to spend time. Thanks for listening and for all the work you do for Boxford! :)

We don't need to destroy any more land. Plenty of spaces not used as it is. Where are the select board? Where is the oversight? Why isn't the town administration fighting to protect land? You aren't representing me.

Great idea getting a survey with demographics. Boxford is a great town to raise your kids, and I think, move away when empty nesters. Having 2 in college and 2 in high school, that's our plan. It been a great 13 years with plans of another 6-8 more! Thank you

Why can't DPW provide trash cans in all parks and trailheads in town? It's ridiculous that we're the only town around that encourages littering and pet waste left for animals choke on.

no experience to make a statement on seniors or the disabled so mark not satisfied. there was no option to say not applicable.

would like to see better use of open spaces for recreation and/or sports

. Wild spaces are a schoolroom for developing life long values of respect for nature and regard for others and oneself.

Tennis courts could be better maintained. Nets are in bad shape. Power wash periodically for safety.

13. Please feel free to share any additional information or ideas below.

I feel it is very important to keep acquiring open space and forests, for all the obvious reasons, but also to try to mitigate against climate change. We are all on well water so are relying on clean, safe water, streams and brooks. We need to be protecting habitat and forests and encouraging a more climate friendly/healthy way of living in the suburbs.

If we are to develop housing it should be affordable housing, built in a "green" and sustainable way, not like the horrendous Willows Homes - which are only for the wealthy. We need to actually plan town projects. Now we have the disappointing COA buildings, which should have been done in an environmentally friendly way.

We should be only planning and repurposing our town buildings in "green and sustainable" ways.

We do not need any more ball fields - we need to take care of what we have.

Thank you VERY much for doing this survey and for all your hard work!

Perhaps no more ball fields.

would like to see a community garden

Parking at Boxford commons field is horrible. Johnson field playground should get a major update

We need a dedicated dog park!

Playgrounds need improvement and updating. Glad to finally see a new community center in process. Roads are dangerous to walk for adults and treacherous with children and pets. Fields have improved since our family was using them but more improvement is needed. Community activities would enhance community involvement and neighborly feeling. Better communication regarding townwide events would encourage broader participation. We love the rural feel but also want safety. Trees and roadways need to be maintained too. Way too much trash on side of roads...so unsightly and unnecessary. Animal waste on trails and roadside should be picked up. Pride in our community should be encouraged. Need a campaign to promote this.

The Elm St. project should be open soon. Let's see how it works out with the many spaces.

I have the same 'complaint' each time I attend an event or go to an area for a hike or use of the facility - we need to do better with more seating so that folks who want to sit and enjoy the area and watch or maybe are older and require rest stops have something to use. I also think we need to address more parking spaces at all local trail heads.

The recreational fields in town ie: the baseball and soccer fields need a lot of work and way more upkeep especially the overgrown weeds and grass. They are an embarrassment to the town. The playgrounds specifically Boy Scout always has overgrown weeds and a nasty bee problem that my kids don't even want to go near it in the summer. It's disappointing for such a beautiful town.

Too much focus on old ways and preservation. Town has to modernize, ie sidewalks and safe roads. The idea that narrow roads add to the rustic or forrest-y atmosphere is folly. Recreation is very nice..... Boxford Town Commons is an absolute gem, Masconomet should be able to use it for the girls soccer and field hockey teams MUCH more often. The improvements of the rail trail are also very exciting.

13. Please feel free to share any additional information or ideas below.

The baseball fields in town and the park st Johnson field are a disgrace
Boxford is a beautiful forested quiet town which offers land and privacy between neighbors which is the reason we've been living here for over 20 years. I just hope you're not trying to turn this into a North Andover. For the people who want to transform Boxford, move to another town.
A renovation to the softball field and playground at the Town Hall is desperately needed. Also our little league fields at all levels are an embarrassment compared to other towns in the area
I do not favor any taxpayer monies being spent on recreational facilities, but would welcome those who wish to use such to pay fees to cover those expenses.
We live in a modern world mixing all ages with cars, bikes, and pedestrians. I would like to see a modern rural friendly approach that improves walk-ability/ bike-ability of Boxford in a safe way that is compatible with cars on the bigger thoroughfares. We have ample space to offer bike lanes and sidewalks as part of town right of ways, but it seems that preserving evolving definitions of rural beauty is winning out over utility.
Survey needs a 'no response' option for satisfaction by age group. Survey takers may not know what options are afforded to all age groups I marked Satisfied for all as I didn't have a reply.
Boxford is such a rare place so close to Boston. It is critical that we continue to preserve the rural character. If we don't we will lose what makes Boxford special forever and it will become just like any of the 100s of towns around the area.
Basketball court at 10 Elm
Boxford' s value has decreased and not kept up to other towns. Price per sq/ft is less than neighboring towns. Amenities, lack of community all contribute to this in my opinion. Folks move after their children graduate.
We need more spaces for organized activities that compare to neighboring towns. Thanks!
Keep boxford a quiet, rural town. Too many towns in Essex county are overdeveloping, and it is ruining the state, as well as the environment. Boxford must stay a rural town with minimal to no development
Baseball fields need a lot of work. Improperly graded, lots of tripping hazards in outfields, infields are rocky/gravelly (we are always envious of other fields in Middleton/Topsfield). Playground at Johnson need to be replaced. Turf field at Boxford Commons is great but parking is brutal.
More benches or log to sit and meditate

13. Please feel free to share any additional information or ideas below.

This plan must include recommendations and support for improving existing recreational sites before advocating for new sites. The Morse Field in West Boxford should be improved and dedicated to girls youth softball. The tennis court near the police station should be dedicated to tennis. Pickle-ball courts could be built behind the closed West Boxford library next to the gazebo and also at Colby Park, Boy Scout Park and at the new Council on Aging site. All these have existing parking areas. The men's softball fields should be improved. Can you imagine being a pitcher and go from one field to another and having the pitching The poor conditions at these fields are dangerous. It is not the fault of the understaffed DPW. The Recreation Committee and BAA should work together with DPW to develop an annual budget for maintenance and improvements of the ballfields, soccer field and work to get approval from the Finance Committee and Select Board. This should be a well thought out budget developed well in advance of the annual Town Meeting, not rushed and slapped together without building support.

Important to be able to ride a bike and walk in the town. Knew when I moved here that the roads were narrow and sidewalks limited however as long as the police monitor the speeds and traffic I am happy. The open space and freedom that the environment offers is why I moved to Boxford. If I wanted a more organized outdoor space I could move or would have chosen a different town.

Middle aged people and parents with small children who often stay close to home could benefit from programming and spaces for us. The new community center seems like a great opportunity to help with that.

Sidewalks would make our town much much safer.

Minimal activities/amenities for young parents,

I noticed that the latest bta/bolt map does not include all of the trail updates (sheffield rd to boxford commons & btc in boxford forest). An updated trail map would be much appreciated- especially for those newer to boxford. I always like a laid out trail run for a 5k,10k,halfmarathon with a few markers -- maybe an eagle scout project?

Thank you for conducting the survey

We don't use the playgrounds or playing fields besides the tennis courts and are not able to say if we are satisfied, but it appears necessary to answer in order to submit this survey. We enjoy the tennis courts by the police station. The high school courts are not as nice and a windscreen would be helpful there.

I feel the Town should continue to acquire and protect open space when possible. I also feel that existing recreational facilities such as Boy Scout park, around Town Hall, the COA area, Stiles Pond, the old West Boxford library, the new park near the West Boxford store, and at the schools, should be maintained and/or improved before building new facilities on undeveloped open space.

Don't need any more building projects

Stop buying land for no purpose other than open space. We have more than enough.

Pickleball courts would be amazing. And they are inexpensive to build

13. Please feel free to share any additional information or ideas below.

While the spaces between neighbors in most of the town and the rural atmosphere are critical, I do think we could find some room for small sections of somewhat denser more affordable housing, particularly along some main roads.

The town center on Georgetown Rd. needs a facelift

I would like more trails in Boxford that connect to rail trails in neighboring areas. I would also like more tennis courts. Pickle ball has crowded out a lot of the available court time.

Parks are not just about soccer fields. Build some tennis/pickleball courts, walking paths, etc.

A town stage or bandstand would be great, for performances of youth and local bands, speakers, holidays. Similar to what N Andover has in their green space.

We would love sidewalks in more areas, especially near schools and village centers (west Boxford village etc.)

Keep real estate taxes from rising low, thus no expensive projects and keep Town on a financially conservative base. Open space and water quality is very good currently, not an issue really. Keep private wells free. Focus on Boxford first, and limit influence activist outside organizations such as IRWA that want to tell Boxford residents how to live there lives. IRWAs agenda is control your private wells and take away your private property rights. Limit Boxford officials involvement with IRWA (conflicts of interest), put Boxford first. Keep Boxfords wells free (Boxford has enormous water resources and limited number of residents, well water usage a non-issue.). Keep 2 acre zoning.

Thank you for the survey. It's important to maintain the atmosphere of Boxford, however the constant and long term power outages have to end. If that means trimming more tress and getting aggressive then that need to happen

We need sidewalks on the main roads (i.e. Ipswich, Main) and more recreational fields.

You should have provided a list of town recreational facilities. I couldn't think of any for some of the age groups.

I have lived here my entire life (30 years old). I bought a home here as soon as I could after graduating through our school system. I am planning on raising my family here and staying a resident till I die. I have always enjoyed the trails for hiking and biking and have almost been killed on the paved roads for years now just walking my dog. I would love to see some widened roads with a walking lane or paved pedestrian lane on the main roads. I often find myself hiking around town through the trails and coming out to a main road miles away from where I began. It takes hours to hike back through to the beginning. It would be much safer to walk or bike a pedestrian lane on my travels back to my car or house. (At least for the main roads). Boxford is also a major cycling route between Beverly and Newburyport. We have had countless accidents and disputes involving motorists and cyclists, a pedestrian lane could minimize these issues. It's my understanding that the town already owns the space from pavement to rock wall on many main roads. A responsible city planner could design a pedestrian lane that seamlessly fits into our town without destroying the rural beauty. Hey maybe we would see even more people walking about and interacting with each other. I understand speeding cars are a constant issue but you can't control everyone in the world, you can however provide alternative and safer paths for people to travel.

We miss a gathering spot for middle and high schoolers to give them something to do on Friday/Saturday evenings (and I am not thinking about the library). My kids at 16 and 20 and that has been the most mentioned by them. There is nothing to do in Boxford for us!!

13. Please feel free to share any additional information or ideas below.

Roads are extremely dangerous to step foot on. Sidewalks and ways to slow traffic are imperative. Wenham has done a good job of adding sidewalks to areas that are wooded and uneven with stone walls mixed in. Amenities around recreational fields are not existent and parking is less than satisfactory.

Boxford has between 1200 and 1600 licensed dogs each year. Leash laws and traffic hazards of walking on local roads makes it difficult for our canine pets to socialize with other dogs and get needed exercise. BOXFORD NEEDS A DOG PARK like many other towns in the area. L. J. Guilbault, 978-352-4174

Boy Scout park playground needs fix up. For example - baby swing straps (formerly there) now missing. Tight rope on ground. Several decorative plaques (pumpkins, leaves, etc) missing. Trash is also all around.

The playground by the dump needs to be repaired (very outdated swings, monkey bars, spinning wheel/merry go round). Boy Scout Park has the underlayers of the playground bottom coming up (big pieces of fabric sticking up from the ground). Paved bike paths and sidewalks would be safe and great for families! THANKS!

I like the town to be small, peaceful and rural.

This town doesn't care about conservation. Hell, you would regulate a fart if you had the chance. This is a BS question and you are only doing it because you are required to, not because you actually care about what your taxpayers have to say about it. You won't change jack squat. The conservation commission is ruining this town and the commission is not experienced in anything other than being Boxford lifers and Ross knows it; he used to be a respected environmental attorney; now he's just a puppet of petulant public nuisance. All you care about is wetlands and not the tax payers who cannot thrive because Ross found a puddle on their lawn or some West Boxford farmers and horsemen don't like you; you can't have a back deck or fence but they can walk their horses down your street and leave feces on your driveway. Or some old town corpse had an ax to grind against their neighbor; the town files are littered with the complaints of a set few bullies. And the turtles and beavers don't pay taxes; just saying. DO BETTER! The bylaws are poorly written and the leadership is subjective and have their own personal interests and the interest of their friends. Get some ethics, start there, then ask your survey questions, FIX YOUR BYLAWS!

Sidewalks would be amazing to be able to take a family walk without almost getting hit by a car

Boxford has purchased more than enough recreation fields/soccer parks recently. In addition, the boxford library is part of the Merrimack Valley consortium of libraries so we do not need to act as if it is the only library around for 200 miles.

Paving more roads!

Raised our kids in Boxford

I would much rather having an actual business in Boxford than another park/farm/etc. Every other town around here has businesses which offset taxes and help residents have some place to shop. Parking at Boxford Common SUCKS. And why are there no bleachers? Who designed that place?!?! Please don't put in bike lanes. We already have tiny windy roads. Cars won't be able to drive if we have more people on bikes in wider lanes.

Keep Boxford a quaint town!

Masconomet fields need serious investment

Playground at Johnson is a dump and dangerous.

13. Please feel free to share any additional information or ideas below.

Sidewalks down the major roads like main st would be good. Mailboxes on both sides of the streets.
New field across from Spofford were a good addition, though they screwed up some nice cc skiing trails with spring flooding
we moved to Boxford because of the school system and the rural feel of this town. We have used it for over 40 years. We have had animals - horses, goats, pigs, etc. We have utilized the town and school sports and been happy with what the town had to offer. People should learn more about where they are moving to and accept it for what it is and its benefits. There are many other towns in the area that have other things to offer.
Land conservation is my primary concern. Save the trees!
Please keep Boxford rural. Please no sidewalks street lights, no bike lanes. Keep it a small town and anyone who doesn't like it move plenty of room in Cambridge for you
While the idea of the Boxford Common is great, it is a disgrace; parking, bathrooms, stands, scoreboard, etc make it embarrassing to be a resident of an affluent town.
Too much is spent on sr center. I do not support any hunting.
Improving the bridle path in Lockwood and upkeep. We are one of 2 agricultural towns in Massachusetts. We should celebrate and embrace that. That is why we live here. Helping farms stay farms and not be developed.
More recreation and sidewalks in boxford would be great
No big developments, ruins the feel of the town. The best part of town is quiet streets and neighborhoods and minimal traffic. Large developments disrupt all of that.
The he questions that asked me to answer on my feelings about resources for age groups I do t have should have a button of na or that I am unable to answer- for example I have never used the rec fields so I cannot answer how well they work
Given the quality of recreational facilities, fields, parks, and parking availability in surrounding communities, Boxford is not on par. Boxford should be meeting or exceeding the quality of what's available compared to surrounding communities, but it is not. Parking is a constant issue, as well as field availability and quality.
It would be great to have access to an indoor 25 yd/meter swimming pool facility within 5 miles of the center of town. Either exclusively for Boxford or the Masco community of towns.
You should include a selection for "unknown" in the questionnaire. I can't speak to the situation for toddlers in Boxford since i don't have contact with them.
Boxford needs more open space that's visible from our roads, like it looked 100 years ago. The center of town could use a few more commercial buildings like a coffee shop, hardware store, grocer. Also, we should not let people divide our farmland. For example, the current small farm/home for sale on Main Street near the center. We have a fond of trails, which is awesome! We also need to get people to drive slower near our ponds. The roads near baldpate pond have so many crushed animals on them and people just drive too fast. Thanks for listening! :-)

13. Please feel free to share any additional information or ideas below.

The most important way to improve the rural nature of the town would be to put electrical wiring underground, particularly in the 2 village centers. The current overhead system, is unsightly and has forced most households to install inefficient and expensive individual generators, and has resulted in the need to remove many trees (recently along Georgetown Rd and parts of Herrick Rd.) the cost of which is passed onto consumers.

New plantings on town-owned land should be restricted to native species. That should apply to the electric company installations; e.g. at the junction of Pond St. and Ipswich Rd. and at the 10 Elm St. property.

I was very disappointed that Boxford built a beautiful new senior citizen center but played it cheap with the library which would have served people of all age groups. I guess this reflects the aging demographics of the town.

I like the rural nature of the roads but I don't think they're safe/conducive to recreation (anything other than motor vehicle traffic). I would like to see semi-paved paths to take the walkers/hikers/dogs/bikes OFF of the vehicular roadways. For example, Middleton road is a very dangerous road due to it's heavy use by cyclists and walkers. I would like to see pathways through/around Boxford State forest to give those folks alternatives to using vehicular spaces for non-vehicular uses. I'm sure the same can be said for many other town conserved areas. We have a TON of open space. Why isn't any of it conducive to getting from A to B so as to avoid the sidewalkless town roads? Ideally, one could traverse all of Boxford from East to West or North to South via rail trails, walking paths, etc without ever hitting vehicular roadways.

This survey was difficult to answer as I needed to answer N/A to many questions since our children are all grown and I do not have an opinion on spaces for younger people not should I because it does not matter to me.

No more artificial turf

We love Boxford and support any endeavors to continuously improve or preserve its history, wildlife, forests & trails, outdoor activities, family events and overall charm.

Keep Boxford the way it is. That's what enticed us to move here.

I appreciate all the forests for hiking and biking and am a road biker, but worried about the big groups of riders who ride parallel to one another and take up all the road, it is dangerous for them and auto drivers. I also think a comprehensive plan for recreation is necessary to benefit all the age groups in town as the equipment at places like Boy Scout and Johnson need repairs and replacement while some of the fields and parking lots and trails need some TLC as well. I recognize that it is a big undertaking and I appreciate you asking our opinions and wanting to do more for the citizens of Boxford. Thank you

Town Forest parking areas should have trash receptacles or at least "Do Not Litter" signs, and police patrols to discourage sex/drinking/marijuana usage. "No guns!" signs would be appreciated.

Boyscout park has so many bees. We can rarely go and stay because they are not removed or treated to keep them out. We have to go to other town playgrounds.

Boxford is full of natural beauty and we hope it stays that way and are happy to volunteer our time to help keep it so.

13. Please feel free to share any additional information or ideas below.

Love Boxford! Lived here since 1996, raised my family here, who were very involved with sports. They have all grown and moved to NYC (go figure), but each time I visit, I am excited to be home. Boxford is truly my slice of paradise on earth. Thank you immensely to those who work in public service. My sincere gratitude to you. And, thank you to the townspeople who love Boxford and work hard to maintain its charm and integrity.

We need safe sidewalks and bike lanes to enjoy the beautiful nature in boxford without fear of getting hit by a car/truck. The trails could be better marked for new residents.

Mens softball fields are terrible. The men's softball league is very important in this town and these fields need to be better maintained

I love our rural community but I would also love to see more bike-able and walkable spaces in town. Thank you!

I would like to see an emphasis on using Native plants in our landscapes. Also, should have included an N/A or unknown as option.

Most Boxford residents greatly appreciate and enjoy the many natural areas we are lucky to have in town.

The rail trail is important, but it is not important that it be paved (there are important reasons that it not be).

We have enough playing fields, e.g. for middle and high school students and adults.

Please do not clear any more forested areas (especially no more clearing within areas of MA Estimated Habitat of Rare and Endangered Species or other environmentally sensitive areas) for playing fields. Any future playing fields should be constructed only in areas that currently are fields, without trees, and not within or next to environmentally sensitive areas.

Perhaps we need a designated area/paths where mountain bikes specifically are allowed. The devastation of trails and sensitive natural areas, including documented areas of endangered species, in Wildcat Conservation Area (including with created, unauthorized, heavily used "bike" trails) is truly heartbreaking and should not be allowed to continue.

Preserve, protect, restore...

Last year's (2022)drought was especially hard on everything and everyone living in Boxford, including its people. Lack of water, including lack of drinking water for humans, has severe consequences, including long-term detrimental consequences. Every proposal for development of open space for recreational purposes must include and require preservation of quantity and quality of water resources.

- Except where removal is necessary for creating a trail or because of clear danger, preserve the trees, which store significant amounts of water, absorb CO2, etc.,

- No irrigation (except as may be necessary for some agriculture),

13. Please feel free to share any additional information or ideas below.

We have much open space currently- maintenance is a must. With 2 acre + zoning we have naturally created self owned open space. Any walking and riding bikes on our roadways is unsafe. This limits the ability of any age group to get exercise or go to a destination safely without getting into a car. On another note, it's time our elected officials addressed the zoning in our 2 centers for small scale nonresidential zoning, to include housing for residents to enable them to sell their big homes and age in place in smaller units in their town. Clearly there is a demand! Controversial to many, but very much needed.

Leave west village alone. Get rid of artificial surfaces in playgrounds sport areas

Drama class and craft spaces :)

The town offers Very Very little for anyone!!! If you do not play group sports there is nothing. Buying historical hayfields was a joke and will be for years to come!!! Put money into a decent library and hire staff that actually runs activities for kids, young teens and teens. For our taxes we get NOTHING!!! It is just so sad. Few things for seniors but from 12 to 60 there is nothing if you do not play sports.

We need side walks! I want to walk/jog outside of my home without risk of getting hit by a car every time. I want my kids to have access to the roads as well. I always imagined them being able to walk and bike to their friends homes and school, but it's impossible because it is so dangerous in this town. I would also like to see the town remove the infestation of poison ivy we have in town. When we do risk our lives to go for a walk we have to walk in the road because the streets are lined with poison ivy. I am more than happy to help with this. But please, give us sidewalks.

I love boxford, the only thing that I would like to see more of is safer walking/biking areas in the neighborhoods. I'd like to be able to go for a run/walk without having to drive and not feel like I'm going to get hit by a car.

It would have been helpful to have an "Unsure" option" Very Satisfied-> Not Satisfied questions, since I think we are fairly unaware of what's available, other than the new project on Elm.

Keep Boxford wild

Some of my answers are based on what I remember from when my kids were young (youngest is now 25). Not sure of what changes or upgrades have been made to the fields, the parking, or availability. I still feel that there should be more offered in town for children such as an outdoor skating rink, a community ctr for pick up sports....

The questions regarding satisfaction with recreational fields & facilities for the different age groups should have a N/A answer option. I am neither satisfied nor dissatisfied for most of these, as no one in our household is a user of, or knowledgeable about, the recreational fields & facilities for most of the age groups listed. So my answers as being "satisfied" are mostly meaningless for these specific questions.

I don't think we need more ball fields just better maintenance of the ones we have(eg. Boxford Common field). A pickle all court would be great but shouldn't be near homes due to the noise. Bike lanes would be helpful for safety!

Investment into moving power lines underground! Also, it would be amazing to have more commercial areas in the town center for some small businesses like coffee shop, bakery etc

13. Please feel free to share any additional information or ideas below.

I raised my 3 children in Boxford and coached sports throughout their childhood. The condition of the fields, particularly in baseball, was terrible. This does not mean that new fields were needed, it means that the fields that we had needed to maintained.

Stop spending unnecessary money. Our taxes are too high for the services received

Hi, I have great hopes for the new Center at 10 Elm which is why I rated the Town's recreational facilities for Seniors as very satisfied. If they can add multigenerational and youth programming then I think the town will be on its way to providing for our younger generation. I feel we are always behind on providing services and recreational spaces for those with disabilities and we need to rebuild our playground at Boy Scout Park to be accessible! Lastly, sidewalks in the East Village make sense - to connect the school/fields to the new Center -- it will help Boxford become a safer healthier community.

We should not build new playgrounds/ courts/ballfields/parking lots until the ones we have can be well maintained.

There is little information about recreational opportunities in and around Boxford. The Town relies too much on BTA/BOLT and the BAA. At the very least let's get good, current, easily accessible information on the Town's web site.

Boxford has purchased enough open space. We need to create housing for residents to age in place. Take a look at surrounding towns and what they have in place - Boxford's Andrews Farm is a fraction of what we should be doing. We can build while maintaining Boxford's rural charm. The town also has to sink some cash into maintaining the buildings that we have. The west side of town could use a rehaul of the ball field at the old west library. Tear the building down and create a playground for all ages, next to the basketball court. Add a track for walking around the perimeter of the property for some safe exercise. The gazebo is there and would make a great gathering area for residents at that end of town. Put our cpa \$\$ to good use. Let's take care of our kids and the wellness of our adults (physical and mental) and create places on land we already own to draw folks outside. The key is utilizing the space the town already owns. We need to create more revenue to offset taxes, and taking land off our tax rolls is not the way to do it. Let's move forward and be progressive.... and generate some tax revenue.

Although we are over 65, we use all the toddler/preschool facilities for visiting grandkids!

Ackerman and Johnson parks are great but need updates!

Would like to see dedicated pickleball courts perhaps at Boxford Commons.

The woods, fields, farmland and trails are, for me, what makes Boxford special. I hope that efforts continue to protect the remaining unprotected open space and trails.

Our town NEEDS sidewalks. We can't walk safely along our beautiful windy roads. It's a shame and goes against the town's "rural living" commitments when our only option is to drive down the road to a neighbors'! I think cement sidewalks would not be pretty, but our town does such a beautiful job with maintaining our trails, what if we essentially built dirt walking trails on both sides of the roads, allowing people to be off the street when walking.

Town lands that I appreciate are conservation areas with hiking trails

How about a dog park?

13. Please feel free to share any additional information or ideas below.

<p>We are always enthusiastic about helping with continued trail maintenance and improvement. We live in the Stiles Pond area, and it would be great to develop some more trail connectors, for example between Wildcat and Lords Woods as well as Leonard Farm and Witch Hollow. There are existing easements and I'm sure enthusiastic landowners that might be willing to support an expansion of our beautiful trail network in town.</p>
<p>I know 0 about younger needs. Forced to answer all questions, I check them "Not Satisfied."</p>
<p>I am unable to comment on facilities for people with disabilities and young children, however the survey required a response. Please disregard.</p>
<p>Please create more parking at hiking spots throughout town. Or have the small lots cleared of snow in the winter.</p>
<p>Need more safe, updated playgrounds. Need a space for toddlers both indoors and out.</p>
<p>I understand there is a big push for more fields for team sports. As a long time resident, senior citizen, never with children, I feel I've supported enough playing fields in town. If any more are built it should be supported by "pay for play". We could use a playground for little kids in the West village. We could also use a park for picnics or a dog park (I don't have a dog). City type parks would also provide an area for residents with disabilities. We have enough trails and hiking paths. I will definitely vote against additional funds spent on fields and any more recreational expenditures in "East".</p>
<p>Would love to see more progress on the rail trail!! and information disseminated about any of this in a town newsletter of sorts...</p>
<p>I am concerned about the cost of open space.</p>
<p>We need to be wise in preserving land that will keep our rural qualities but also keep our tax rate at a reasonable level.</p>
<p>We need bike or walking lanes</p>
<p>Townpeople tend not to understand the resource value of trees and native plants for water quality and flow, and for all native species of birds and animals. A goal of educating the townspeople would be useful.</p>
<p>Traffic on streets is out of control and it is dangerous to walk or bike since there is no space except on street. Kelsey Rd should have no through traffic. It is very narrow and the bike trail and Kelsey Nursery are both there.</p>
<p>It doesn't seem like our athletic field locations are set up to have multigenerational use. It would be nice if our spaces had offerings for everyone. Our roads are busier and it's getting less safe to ride bikes or even walk on our roadways. Investment into spaces where everyone can remain active as they age would be beneficial to our entire community. It seems like we have a lot of focus on athletic fields for our youth, but not much to offer our older residents.</p>
<p>Boxford is a rare jewel of a town thanks to its rural, bucolic nature. Please, let's encourage more preservation, conservation and retention of the Town's natural qualities. Reducing development and expenses should be the primary goal.</p>
<p>Peace and quiet is very important!!</p>
<p>The playground at Johnson Field/Town Hall could use an update.</p>
<p>Boxford has several meeting centers (2 churches for example) and outdoor venues (trails etc.), available at present. The addition of the new "COMMUNITY CENTER" will greatly add to the list - IF people decide to take advantage of them. It is a wonderful Town, with many generous volunteers who give of our time, talent and treasure. I am pleased to live here!</p>

13. Please feel free to share any additional information or ideas below.

Be sure to retain roadways for safe bicycling (narrow and shaded with slow speed limited to keep 'cut through' drivers from using Boxford roads.) Do not cut down forests with hiking trails for ball fields.

Don't widen the roads to make it easier for people to cut through town.

The town NEEDS to stop buying property. There is no need to mortgage all of this land "in case" we may need it in the future. Because it "might be nice to have" is not a reason to go further into debt.

This survey is identified as a plan. However continuing to take out more bonds on land and projects may not be beneficial for the needs of the town when the projects such as the land purchased at Cole school for example sits unfinished and unused. The new community/senior center seems to cover many opportunities for the residents of our community.

The Kelsey Arboretum at 18 Kelsey Road can offer many opportunities for participation by families at all levels. Jr and Sr High School internships have been offered.

TOWN OF BOXFORD

OPEN SPACE AND RECREATION PLAN 2023 **DRAFT**

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Section 1 - Plan Summary

The *Boxford Open Space and Recreation Plan Report* is a community-wide inventory of land parcels and residents' perspectives on the acquisition, maintenance and utilization of Boxford's open space areas. The format of this report follows the model plan report as outlined in the 2008 guidelines entitled *Open Space and Recreation Plan Requirements* developed by the Executive Office of Energy and Environmental Affairs, Division of Conservation Services.

This report was compiled by the Boxford Open Space and Recreation Plan Committee (OSRPC), a group of residents appointed by the Board of Selectmen in October 2022. Ideally, this report should be updated at least at five-year intervals in order to be available for immediate consideration of the Commonwealth's allocation of Land Acquisition for Natural Diversity (LAND), Parkland Acquisitions and Renovations for Communities (PARC) and other state administered grants and for on-going consideration of local planning support.

The protection of water resources, rural character and wildlife habitat and the provision of adequate open space for active and passive recreation are considered priorities for Boxford. Thus, steps to facilitate the protection of the town's natural resources and to develop additional open space for recreation through the preservation, development and management of key parcels of land should be the focus of the town's future endeavors.

The protection of water resources is critical for many obvious reasons. The development of parcels abutting ponds and streams can result in a significant adverse impact on water resources, making the permanent protection of parcels abutting ponds and streams of utmost importance. Because the number of remaining large parcels is limited and development of any large parcel can have a significant impact on the rural character of the town, large parcels should be given careful consideration by the town for acquisition. Likewise, because the preservation of parcels abutting other previously protected parcels can create "greenway corridors", critical to the rural character of the town and wildlife habitat, parcels abutting other protected open space should be considered a priority for preservation. The permanent protection of larger parcels and parcels abutting other protected parcels has the collateral benefit of protecting the trail system in Boxford and providing areas for active recreation which are connected to large areas of open space.

In developing this OSRP, the OSRPC was mindful of responses of Boxford residents to the town-wide survey, of feedback from public forums, and of written statements from town committees and boards. Nearly all residents who responded to the community survey were concerned about the protection of water resources. Boxford residents expressed an overwhelming appreciation of its rural character, woodlands and farms, with many residents indicating that nature and rural character are what they value most about the town. Given this appreciation, it is not surprising that birding was the top rated activity with protection of water and wildlife habitat ranking numbers 1 and 2 and the on the survey.

The OSRPC developed a seven-year action plan based on the results of the survey and input from many residents, town committees and interested parties. It is hoped that the plan and its goals can be actively addressed in order to serve the town of Boxford for its current residents, preserving the quality of life that Boxford's open spaces help provide for generations to come.



Figure 1. Davis Hayfield.

Section 2 - Introduction

A - Statement of Purpose

The purpose of this plan is to: 1) inventory existing open space parcels in town, including the opportunities they provide for active (football, lacrosse, soccer, tennis, etc.) and passive (walking, jogging, horseback riding, etc.) recreational use; 2) to determine the town's needs for open space within the next seven years; 3) to assess the issues affecting the availability, preservation and acquisition of open space within Boxford; and 4) to develop long-term goals, objectives and plans to proactively meet the town's open space and recreation needs. The Open Space and Recreation Plan recognizes that Boxford's open space and character doesn't exist by accident, but rather is the product of decades of planning and generations of Boxford residents taking an active role in community preservation and land use management. These efforts are driven by the desire to preserve the town's rural character and provide residents with open space for both active and passive recreation.

The Open Space and Recreation Plan benefits greatly from the work undertaken by five predecessor committees in 1988, 1994, 2001, 2008 and 2015. In 1994, 2001, 2008 and 2015, and will continue to build off of these previous efforts. Since the previous Plan update, this commitment led to the town's acquisition of the Haynes and Nason and Bergstrom properties, renovation of the playground at Cole School, reconstruction of the dam at Stiles Pond, and rebuilding of the culvert with new stone bridge over Fish Brook in Lockwood Forest. Approval of a \$5 million open space serial bond in 1997 for the acquisition of conservation properties and the town's adoption of the Massachusetts Community Preservation Act in 2001, provides a funding mechanism for the acquisition of open space for conservation, recreation, and historic preservation and affordable housing. The OSRPs issued by the four previous committees reflected the town's strong commitment to open space and provided a firm foundation and approach with which to initiate the 2023 update.

Now, in light of increased development in Essex County, and subsequent impacts on traffic safety in the town, this OSRP update was initiated in order to recognize the town's open space and recreation needs and facilitate meeting those needs through a seven- year action plan.

Within this plan, the term "open space" shall include agricultural land; fields; land to protect existing and future public water supplies, well fields, aquifers and recharge areas; fresh water marshes, vernal pools and other wetlands; conservation land; forests; river, pond, stream and lake frontage; land for wildlife habitat; scenic vistas and heritage landscapes; and land for recreational use. The term "recreation" shall include both active and passive recreation, including the use of land for hiking, horseback riding, organized youth and adult sports, and playgrounds. These definitions are consistent with those in the *Open Space Planner's Workbook* and with those terms in the Massachusetts Community Preservation Act, M.G.L. Ch. 44B.

B - Planning Process

The Open Space and Recreation Plan Committee convened in October of 2022 to initiate the planning process. The committee consisted of five individuals—Lisa Donahue, Jessica Grigg, Doug Hamilton, Holly Langer, and Dennis Pyburn—who sit on other town boards or committees as well—the Planning Board, BTA/BOLT, the Conservation Commission, and the Recreation Committee. Meetings were held monthly and were posted on the town website ___ days in advance. This group consisted of members from __ (city council, planning board etc). (name) researched xyz for the plan. Jessica Grigg was the primary writer of the plan. Merrimack Valley Planning Commission reviewed the plan's contents.

The planning committee initiated this update by collecting background information and conducting an inventory of resources to provide a basis for the plan update and analyze the town's current open space and recreation needs. The committee then formulated goals and objectives of the update, informed by public engagement, which molded into a seven year plan for implementation, The plan was further reviewed by staff and municipal boards for comment and revision, and a series of 14 public meetings, a survey mailed February 13-18 and an online survey posted and accessible from February 16, and other outreach was conducted to engage the public and obtain their feedback, including a public meeting on June 22.

This draft open space and recreation plan was prepared following the guidelines established by the Massachusetts Division of Conservation Services for the preparation of state-approved open space and recreation master plans.

C- Public Participation

The OSRP committee revised the previous survey and in March mailed postcards townwide with QR codes for the online version. Respondents had approximately three weeks to complete the survey online or to return it to town hall. The survey was also available online and posted on the town website and on other websites that serve the community. A link to the survey was also emailed to several constituent groups.

Over 410 surveys were submitted, representing about 15% of Boxford households. Almost all respondents completed the survey electronically. The results of the survey appear, along with the written comments, as an appendix to this report (Appendix III). The 2023 survey is a reaffirmation of the town's commitment and interest in the preservation of open space and the town's natural resources and in meeting the recreation needs of the town's residents. Results of the survey, along with other public input, were used to identify the open space and recreation needs of the town and, consequently, the goals and objectives. One strong advantage Boxford has is a remarkable commitment to the town as demonstrated in the large number of dedicated volunteers who serve on all town committees.

Beyond this survey, the public was engaged via Zoom meetings, in-person presentations, and input was requested from the various town boards.

The various forms of public engagement pursued by the Open Space and Recreation planning committee aided greatly in informing the concerns and issues facing Boxford's preservation of open space and recreation opportunities since the prior report. While the town has made great progress in the preservation of open space, it is clear that needs for additional open space and recreational opportunities remains in the community. Boxford will have to plan carefully for its growth with this in mind. Working with the regional planning agency (the Merrimack Valley Planning Commission), regional resource protection organizations, and with the involvement and commitment of the town's numerous volunteers and committees, it is hoped that the town can meet the open space and recreation needs of its residents through proactive and creative approaches.

Section 3 - Community Setting

A - Regional Context

The town of Boxford is located in north-central Essex County in the state of Massachusetts. It covers approximately 24 square miles or 15,611.3 acres, and extends over ten miles along a southeast to northwest axis. The northernmost point is 1.5 miles from the Merrimack River, bordering the towns of North Andover and Haverhill (Bradford). The southernmost border with Topsfield and Middleton is formed by the Ipswich River and its tributary, Fish Brook. The Atlantic coastline, through neighboring Ipswich, is an average 10 miles distant, easterly. Other towns sharing common boundaries are: Rowley, Georgetown and Groveland. The cities of Boston, Salem, Lowell, Lawrence and Newburyport are all within a 30-mile radius of the town.

Boxford is roughly divided into two portions, once referred to as First and Second Parishes, and currently referred to as Boxford Village and West Boxford Village. The topography throughout the town generally varies from large glacial outwash plains and kame and esker formations in the eastern portion to large undulating drumlins and alluvial plains in the western portion. The town is considered to be rural indicative of its agricultural past. Once a "blue-collar" farming town, the post-1945 suburban and urban expansion and improvement of federal and state transportation infrastructure have prompted Boxford into becoming an upper-income suburb of Boston, commonly referred to as a "bedroom community."

Boxford is rich in water resources. The watershed areas are mainly divided into those tributaries contributing to the Ipswich River and the Parker River. A third smaller area contributes to the Merrimack River. Hovey's, Johnson's and Chadwick (Lily) Ponds within this area are reserve water supplies for the City of Haverhill and Groveland. All of Boxford's private residences are supplied by private wells, whereas neighboring towns have combination private/public or exclusively public water supplies. According to records at the Massachusetts Department of Environmental Protection (Mass DEP), there are 17 public water-supply wells in town. Considerable attention has been paid in the past to conserving this valuable resource. Conservancy Districts (outlined on the Historic Districts map in Appendix II), as well as a few permanent Conservation Restrictions, are used to protect aquifer recharge areas. The Planning Board, Board of Health and Conservation Commission regulations also protect local watershed areas.

To control density and maintain water quality, Boxford began in 1955 to require a minimum of two-acre residential lot size. However, continued development of increasingly marginal land today has raised public concern over the maintenance of adequate aquifer protection buffer areas and Boxford's rural character. Since 1994, Boxford voters have responded to development pressures by approving pond overlay districts and various bylaws set back distances away from wetland resource areas.

Several state forests are contained within the town and are shared with neighboring towns, including Willowdale, Baldpate Pond, Georgetown-Rowley and Boxford State Forests. The Boxford Bay Circuit Program Committee (1990-1991) has established the initial segment dedication of a passive recreational trail linking these existing permanently protected open spaces and various unprotected, privately owned open spaces. This will form part of the 200 mile Bay Circuit Trail, from Newbury to Kingston, Massachusetts. The second edition of a guidebook *The Bay Circuit Guide to Walks in and around Boxford* has been compiled by Boxford Trail Association/Boxford Open Land Trust (BTA/BOLT, Inc.) The premise of the Bay Circuit is to further the creation of this regional recreational system and promote the development of this intrastate greenway through future land acquisition.

B - History of Boxford

At the time of European settlement in the 17th century, the territory of much of the North Shore, including present day Boxford, was in the domain of Masconomo, Sagamore of the Agawams. The Agawams were a sub-tribe, probably of the Pawtucket or Massachuset Tribe. Seasonal encampments were established along the coast and near fresh water, such as the Ipswich and Parker Rivers. The Agawam population was depleted by inter-tribal war and by European-borne diseases. Masconomo sought the protection of the Commonwealth and eventually deeded the rights to his domain to John Winthrop Jr. in 1633 for 20 pounds, thus initiating permanent English settlement north of Salem.

The influx of new English immigrants in the 1630s-1640s, competitive farming practices and the breaking up of large inland land-grants led to the settlement of what was then the western portion of Rowley, between 1645-1650. Known as Rowley Village and set on a plain north of the “fishing brook”, the town had six initial land grants of 30-60 acres each. The house lots were fairly spread out around central common land. Two thoroughfares were laid out circa 1650-1660: one path leading from the Topsfield meeting house roughly parallel to the Fish Brook (Topsfield Rd./Main St.), and the second path perpendicular to the first, running to common land. Two other county thoroughfares were built that connected Andover with Ipswich and Newbury. Neither of these roads accessed the village center but contributed to increased settlement in the western portion of the village.

Agriculture and animal husbandry were the main occupations of town residents.

To establish their own minister, the villagers petitioned the General Court and were granted township, choosing the name Boxford on August 12, 1685. However, it would take another seventeen years before they would actually hire a minister or decide on a location for the meeting house. The original bounds of Boxford then contained portions of the present towns of Middleton, Georgetown and Groveland. The deed to the town was settled amongst Masconomo's three grandsons in 1701, in exchange for "silver, rum and vittles enuf."

By the mid-19th century, the amount of land under use for agricultural purposes had peaked. Many families whose main occupation had been agriculture, now supplemented income with low-scale manufactories and had begun to realize modest wealth associated with nearby urban markets and the maritime trade. Rail service, introduced in 1854, facilitated shipment of marketable goods and the movement of people. This was an enticement to city dwellers to summer here. Eventually, as the amount of agricultural land declined toward the late 19th-early 20th century, other methods were employed to maintain the farm: dairying, fodder production, domestic livestock and broods. Specialized crops and truck farming became common. The population sought opportunity elsewhere and dropped from its 1860 high of 1020 to a 1925 low of 581. Much of the landscape reverted from open fields and pastures back to woods.

Up until the period around 1945, not much had changed in the overall agricultural traditions or the quiet rural atmosphere that had been such a prevalent feature of Boxford since early settlement. Farms that did remain were often larger, centralized operations that had specialized functions and did their best to remain economically competitive and financially solvent.

Then came the highway. According to the town's 2007 Master Plan, the opening of Interstate 95 in the 1950s accelerated Boxford's transition to a residential community whose residents work outside of the town and are not reliant on farming. Boxford's close proximity to Boston, high quality schools, and peaceful rural character fueled the increasing value of land to the point where it was far more attractive for landowners to develop their properties than use them for farming. By mid 1995, Boxford had experienced a rapid increase in the number of homes being built and the town began a process of acquiring land for open space to curtail development and protect agriculture and natural resources. The increased population also

prompted the need to expand municipal facilities. From 1995 to 2007, Boxford built a new police station, a new town hall, upgraded the fire stations, improved its roads, and expanded its schools and athletic fields. From 2007 to present, Boxford renovated Lincoln Hall, purchased an adjacent property for a parking lot, and small picnic area and the West Village Improvement Society constructed a gazebo on town land in the West Boxford Village. From 1995 to present, Boxford has purchased a significant amount of land for open space, including a small portion for recreation and community housing.

C - Population Characteristics

1. Population Trends and Density

Until the construction of I-95 in the 1950s, Boxford was mainly an agricultural town. With Boston in commuting distance, the population increased 49% from 1970 to 1990. The town now has two elementary schools and is part of a regional high school system. Recreational facilities, both active and passive, are available. However, as the human population increases within the finite area of our community, an increasing burden will be placed on our constructed infrastructure which includes our existing roadways, municipal buildings and school facilities. An additional burden will inevitably be placed on our natural resources including our groundwater reserves and open space areas.

Though chiefly a bedroom community, Boxford has historically had some limited industry. According to the Boxford Reconnaissance Report - Essex County Landscape Inventory, published by the Massachusetts Department of Conservation and Recreation and the Essex National Heritage Commission in 2005, there were several small shoe factories and textile, shoe peg and sawmills in town in the mid and late 19th century. In 1867 a match factory was founded on Fish Brook, near the current intersection of Main Street and Lawrence Road, which continued to produce matches into the early 20th century. Mill-based industrial activity was never a large contributor to the economic base of Boxford due to the limited waterpower available compared to mill towns along the Merrimack River, such as Lawrence and Lowell.

Commercial activity in Boxford is currently limited to the two village centers (Boxford Village and West Boxford Village) and a small commercial development in the north central section of the town, near the Georgetown line. Each Town Center contains a post office and a general store with limited economic activity. Other business activity is tied to the land and includes farms, farm stands and a golf course.

Boxford provides housing for senior citizens at Four Mile Village, 55-and-older at The Willows at Boxford and affordable housing at Andrews Farm. In addition, certain in-law apartment arrangements are sanctioned by zoning bylaws. These types of comparatively dense housing arrangements create additional sewage and water considerations and increase the need to ensure proper planning by the town for future water protection measures.

Table 1. Boxford Census Counts 1940-2020

Census Year	Persons	Increase (%)
1940	778	-
1950	926	19.0%
1960	2,010	117.0%
1970	4,032	100.0%

1980	5,374	33.0%
1990	6,266	16.6%
2000	7,921	26.4%
2010	7,965	00.6%
2020	8,316	4.4%

Table 1. Boxford Census counts 1940-2020.

Between the town’s incorporation in 1685 until 1950, a period of 265 years that included the social disruptions in America caused by a Revolutionary War, a Civil War and two World Wars, Boxford’s population reached a high of 1,014 persons. The town’s population continued to grow substantially over the later half of the 20th century, with the greatest increase between 1960 and 1970 of 100%. The population increase has since slowed, with a relatively small increase between 2010 and 2020 of 4.4%. The following demographic data reflect the latest information available regarding population and population densities.

Area	24.39 sq. miles
Population	8,605

Population density – persons per sq. mile

1950	38
1994	287
2000	324
2010	327
2014	346
2022	352

Voters	6,538
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Housing units	2,758
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2. Number and Age of Residents

The table and graphic below summarize population trends in Boxford between 2010 and 2020.

Table 2. Boxford Population Distribution Trends by Age, 2000-2010

Age Spans	2010	2020	Change	Change (%)
Under 5 years	324	328	4	1%
5 to 9 years	604	522	-82	-14%
10 to 14 years	795	678	-117	-15%
15 to 19 years	671	652	-19	-3%
20 to 24 years	271	279	8	3%
25 to 34 years	345	597	252	73%

35 to 44 years	922	686	-236	-26%
45 to 54 years	1768	1635	-133	-8%
55 to 59 years	704	675	-29	-4%
60 to 64 years	512	765	253	49%
65 to 74 years	609	792	183	30%
75 to 84 years	330	466	136	41%
85 years and over	110	241	131	119%
Total population	7,965	8316	351	4%

Table 2. Boxford Population Distribution Trends by Age from 2010-2020.

Figure 2. Boxford Population Distribution Trends by Age, 2010-2020

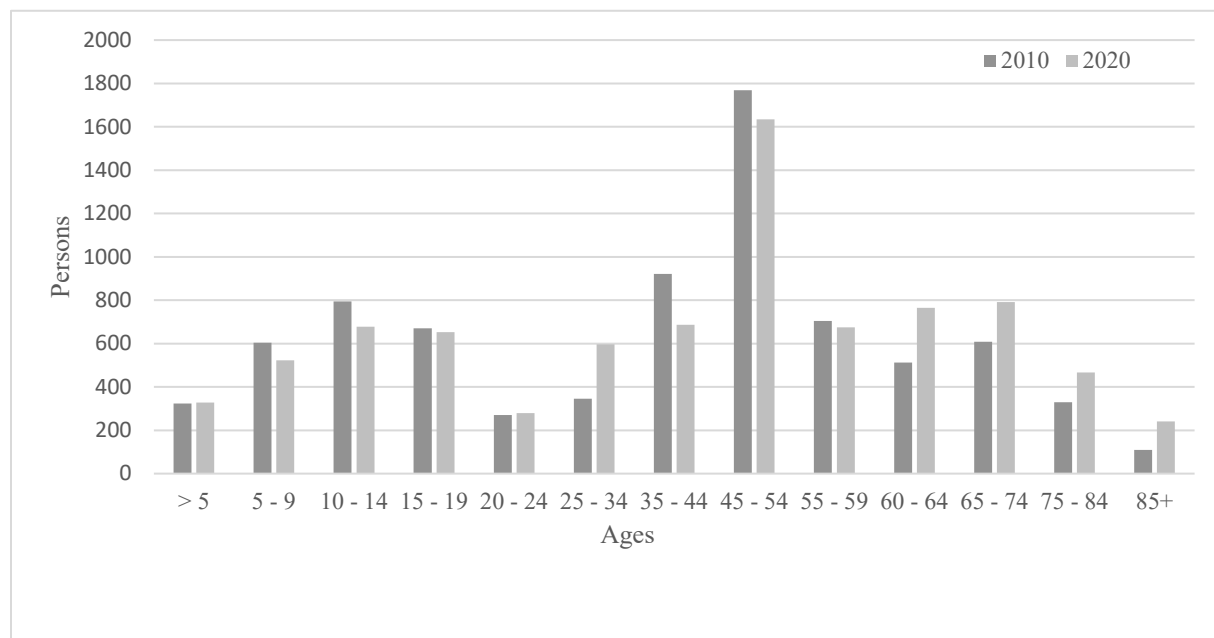


Figure 2. Boxford Population Trends by Age 2010-2020.

The previous table and graphic show that between 2010 and 2020 the population grew by 4%. Age group trends over the past decade include a decreasing number of children/young adults up to the age of ~20 years old, and an increase in adults over 60 years old. The most notable changes include:

1. greatest decrease as a percentage: Adults 35-44 years old
2. greatest decrease in numbers of the population: Adults 35-44 years old
3. greatest increase as a percentage: Adults 85+ years old
4. greatest increase in numbers of the population: Adults 60-64 years old

As can be seen from the above information, over half of the population of Boxford (55%) was over the age of 45 in 2020, like most other communities throughout the commonwealth and the country Boxford is aging. This will lead to the need for more elderly housing and recreational facilities such as indoor program areas and accessible walking trails. The town's aging population will also need more passive recreational

opportunities, like accessible bird watching locations, additional paved trails, and additional seating in park areas. While the town does have programs for the elderly at 10 Elm these may need to be expanded as well.

The town does have recreational facilities available for the handicapped and a camp for handicapped youth at Camp Sacajawea run by the Greater Lawrence Educational Collaborative. Also, BTA/BOLT, Inc. manages many miles of trails throughout Boxford that are open to the public for hiking, biking and horseback riding

3 – Income

According to the American Community Survey estimates from the Census, the median household income in Boxford has grown from \$113,212 in 2014 to \$179,375 in 2020 which is a 63% increase. In 2020 Boxford’s median income of \$179,375 was over twice the county and state median at \$82,225 and \$84,385 respectively. The table that follows shows the shifts in Boxford’s Household Incomes from 1999 through 2020.

Table 5. Boxford Household Income, 1999-2020

Household Income	1999	(%)	2014	(%)	2020	(%)
Less than \$10,000	42	1.6	11	0.4	19	0.7
\$10,000 to \$14,999	0	0.0	33	1.2	0	0.0
\$15,000 to \$24,999	98	3.8	88	3.3	18	0.6
\$25,000 to \$34,999	62	2.4	66	2.5	151	5.3
\$35,000 to \$49,999	163	6.4	184	6.9	55	1.9
\$50,000 to \$74,999	367	14.3	169	6.3	226	7.9
\$75,000 to \$99,999	303	11.8	282	10.6	274	9.6
\$100,000 to \$149,999	626	24.5	648	24.3	338	11.8
\$150,000 or more	899	35.1	1,190	44.6	1,772	62.1
Households, total	2,560		2,671		2,853	
Median household income	\$113,212		\$127,813		\$179,375	

Table 3. Boxford Household Income, 1999-2020.

4 – Environmental Justice and Equity

In 2002 the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA) adopted an Environmental Justice Policy to provide equal protection and meaningful participation for all Massachusetts residents with respect to environmental regulations and policies. This policy also supports equitable access to environmental assets, which include parks, open space, and recreation areas. The State has identified communities that contain Environmental Justice Populations – those with high percentages of minority, non-English speaking, low-income, and foreign-born populations.

Boxford has a very small minority population (% of population in census), and what appears to be a relatively stagnant number of households at poverty level (2.2% in 2014). Boxford does not have any state identified Environmental Justice communities (which would represent a combination of these characteristics). While Boxford does not have any identified EJ populations, this plan considers ways to reduce inequities in access to parks and recreation amenities.

D - Growth and Development Patterns

1 – Patterns and Trends

As one looks back from the present time within the 21st century to the beginning of the 20th century, perhaps the most significant land use change has been the remarkable rise of residential development in rural areas. Industrialization increased both the number of people in formerly rural areas and the amount of leisure time, decreasing the use of the land for traditional agricultural purposes. New roadways and improved means of transportation helped extend cities and towns into outlying suburban areas. Boxford and surrounding towns are caught between an agrarian, rural past and a suburban future of increased residential development.

The first concerns for future development were addressed in 1940-41 when a monograph listing the town’s natural assets was prepared by a team of state and county planners. As a need for moderately priced housing arose, Boxford’s first zoning bylaws were adopted in 1946. Following World War II, development was guided by local zoning bylaws, most notably a two-acre minimum house lot size which was adopted in 1955. The completion of Interstate 95 (I-95) through town in the early 1950’s led to a dramatic rise in population.

Many of the once-dormant farm pastures, wood lots and fields were slowly subdivided and developed. Although several small areas in town were zoned or grandfathered for business use, there were no industrial areas. Also, in the early 1970’s, the large Commercial Zone around Baldpate Pond was rezoned back to Residential-Agricultural.

Now, Boxford holds 2,853 total housing units, with almost all of them occupied by owners, and very few vacant households. Note that the Willows Development will add 66 units of 55-and-older housing.

The following show the changes in housing from 2000 to 2020.

Table 7. Boxford Household Characteristics, 2000-2020

Characteristics	2000	2010	2020
Total households	2,568	2,688	2,853
Family households	2,255	2,289	2,506
Average household size	3.08	2.96	2.91

Table 4. Boxford Household Characteristics, 2000-2020.

In order to plan for future growth, the town has conducted numerous build-out analyses. The latest analysis, conducted for the 2007 Master Plan, used the following assumptions: 10 acre or greater vacant, occupied and/or Chapter 61 and 61A lots may be developed;

- Existing pork-chop lots cannot be further subdivided;
- Existing two (2) acre zoning is maintained;
- An allowance of 8% for roadways is provided;
- No building will occur in Conservancy Districts or in wetland areas;
- No building will occur on land that is constrained by deed restriction.

2 - Transportation

The primary cause of growth since 1950 has been the open flow of interstate traffic along I-95 through a portion of east Boxford. Boxford's short commuting distance to metropolitan Boston (about 25 miles) and its rather close proximity to New Hampshire and Maine for shopping and recreation visits make Boxford very attractive to long-term residents and prospective newcomers alike. Commuter rail service is available in adjacent towns. The town is currently not serviced by any commuter buses through MEVA. Major thoroughways that are experiencing increased daily traffic volume within Boxford include Route 133, Route 97, Main Street, Lawrence Road, Topsfield Road, Kelsey Road, and Ipswich Road.

The town's primary form of transportation is driving, with primarily country roads and spread out infrastructure making both walking and biking difficult unless on trail. The only trails that are viable for transportation across the town and to other communities are the Border-to-Boston Trail, and the Bay Circuit Trail.

3 – Water Supply

All of the potable water used by Boxford residents is obtained from wells. The water supply for private residences is derived almost exclusively from private wells located on each individual residential property. Private wells in town rely primarily on the Ipswich River watershed, which supplies 350,000 homes as of 2019. In the summer of 2022 this water resource experienced a severe drought, raising concern for citizens utilizing private wells. A legislative proposal brought forward by Senator Bruce Tarr in the current legislative session seeks to promote effective drought management in communities which utilize the Ipswich River, so private wells may continue to draw upon it for years to come. The careful design and permitting of wells, septic systems, and wetland alteration by the Board of Health and the Conservation Commission is of critical importance in safeguarding Boxford's drinking water supplies. future growth may necessitate the need for a third and possibly a fourth potential source of protected water supply. The town wells could eventually become fitted out and be used as emergency sources of water for firefighting.

There are a limited number of public water supply wells in Boxford subject to State mandated water quality testing and reporting. These wells are as follows and are tabulated with respect to their DEP identification numbers and flow rates. The Andrews Farm and Four Mile Village housing developments each operate a Community Public Water Supply well and water distribution system serving their respective housing units. Public water supply wells also serve a limited number of commercial establishments in town, consisting of the Boxford Community Store, the Boxford Meeting Place (Georgetown Limited Partnership Building Well No. 1), the Boxford Village Store, Ingaldsby Farms, Nasons Farm, the Four Corners Golf Course, and the office building at 200 Washington Street. Additional public water supply wells serve the Spofford Pond School, the Harry Lee Cole School, the First Congregational Church, the Second Congregational Church, Camp Denison, the Boxford West Library, the Boxford East Library, the Town Beach at Keith Koster Park

(Stiles Pond), and the Town Hall/DPW/Police Station complex. The following table indicates information taken from the MassDEP's list of public water supplies in Boxford.

Table 6. Usage of Recreational Fields & Facilities

Public Water Supply Name/Source Name	Mass. DEP Source ID	Gallons Per Day	Zone I Radius (feet)	IWPA Radius (feet)	Mass. DEP Susceptibility
Four Mile Village* Well No. 1	3038001-01G	9,048		NA	
Four Mile Village* Well No. 2	3038001-02G	6,786	240	NA	
Four Mile Village* Well No. 3	3038001-03G	10,080	210	NA	
Spofford Pond School‡ Rock Well	3038008-01G	7,860	240	NA	
Harry Lee Cole School‡ Cole School Well	3038009-01G	21,600	180	538	High
The Village Store† Blaines Store Well	3038010-01G	955	100	421	
First Church Congregation† Rock Well	3038011-01G	385	100	409	Moderate
Far Corner Farm Golf Course† Well No. 1	3038012-01G	2,500	160	456	
Far Corner Farm Golf Course† Well No. 2	3038012-02G	2,500	160	456	
Boxford Community Store†	3038013-01G	1,225	113	427	High
Andrews Farm Water Co. Well No. 1*	3038020-01G	23,760	306	928	Moderate
Georgetown Limited Partnership Building† Well No. 1	3038021-01G	1,848	170	464	Moderate
Ingaldsby Bakery & Farm Stand† Well No. 1	3038022-01G	1,000	100	422	High
200 Washington Street† Well No. 1	3038023-01G	1,000	100	422	Moderate
East Boxford Library† Well No. 1	3038024-01G	300	100	407	Moderate
Second Congregational Church†	3038025-01G	300	100	422	
Boxford Police Station‡	3038026-01G	2,160	150	448	

Table 5. MassDEP's list of public water supplies in Boxford.¹

The following information regarding well susceptibility is taken from the MassDEP's website - "susceptibility is a measure of the well's potential to become contaminated by land uses and activities within the Zone I and Interim Wellhead Protection Area (IWPA). The possibility of a release from potential contaminant sources is greatly reduced if best management practices (BMPs) are used. The susceptibility determination for the wells did not consider whether BMPs are being used. Susceptibility of a drinking water well does not mean a customer will drink contaminated water. Water suppliers protect drinking water by monitoring water quality, treating water supplies and using BMPs and source protection measures to ensure that safe water is delivered to the tap."

Of the public water supply wells, the one serving the Police Station, Town Hall and the Department of Public Works complex had been determined to have arsenic concentrations that exceed the recently revised Federal Drinking Water Standard of 0.01 mg/l (i.e., 10 parts per billion). An analysis conducted by Weston and Sampson suggests that the arsenic appears to be a natural constituent of the groundwater at this location, rather than an indication of some anthropogenic source such as the nearby abandoned municipal landfill. The town has taken steps to remediate this issue and is now able to provide potable drinking water to the public at these facilities.

Anthropogenic groundwater contamination has occurred in Boxford along the I-95 highway corridor because of poorly considered or improper road salt storage, management, and application practices by MassHighway. To date, fifteen wells within this corridor have exhibited chloride concentrations that exceed either the Secondary Drinking Water Standard of 250 mg/l, or the Drinking Water Advisory standard for sodium of 20 mg/l for individuals on a salt restricted diet. MassHighway has conducted a controversial well replacement program in Boxford to provide replacement wells for selected residences in return for a waiver of liability from the affected homeowner. To date fifteen replacement wells have been installed under this MassHighway program. Local permits for some of these wells have yet to be obtained from the Board of Health and/or the Conservation Commission, reflecting MassHighway's assertion, disputed by the town, that it is not subject to local permitting requirements.

As Boxford is large in area with a minimum building lot size of two acres with 250 feet of frontage, a public water system would be prohibitively expensive. To address the future needs of the town, hydrogeologic tests would be required so that areas which could serve as possible sources of a municipal water supply could be identified and subsequently protected. According to the MassDEP's Priority Resource Map for the area (Appendix I), potentially productive aquifers are located in northwest Boxford, adjacent to Johnson's Pond and along the Parker River. An additional smaller area is located in the extreme northeast corner of town within the Cleveland State Forest. Much of the aquifer area is also designated as Natural Heritage and Endangered Species Program (NHESP) areas, which support rare and endangered species. The relatively small land area designated as a potentially productive aquifer in Boxford reflects the presence of the thin and/or impermeable soil horizons found in much of the town and their poor water-bearing capacity.

Since none of the public water-supply wells in Boxford pump more than 100,000 gallons per day (gpd), they are not required to delineate the Zone II or Zone III, in accordance with the MassDEP's Drinking Water Regulations 310 CMR 22.21. Accordingly, each public-supply well in Boxford (except for those

¹ NA = "Not applicable" (Zone II delineated)

Public Water Supply Classifications: * = "Community," † = "Transient Non-Community," ‡ = "Non-transient Non-Community"

serving Four Mile Village as described below) has a Zone I and an Interim Wellhead Protection Area; the radius of each is determined by the approved pumping rate of each well. The only wells within Boxford that have approved Zone II delineations are those serving the Four Mile Village facility; these Zone II delineations were conducted under the MassDEP's Source Water Assessment Program (SWAP). Since the Zone II areas for most of Boxford's public water-supply wells are not delineated, the aquifer recharge areas of these wells can be considered to be the area within the IWPA and Zone I. Public-supply wells located in the adjacent towns of Georgetown and Rowley have delineated Zone II areas which extend into Boxford. A large portion of these Zone II areas exists along streams and in wetland areas; such areas would be protected by state and local wetland protection laws.

4 – Septic Services

All household sewage is treated by private septic and leaching field systems. As such, Boxford remains the only community in Essex County and only one of a handful of communities in the state that make up greater metropolitan Boston that has no municipal water distribution or public sewer system. As such, Boxford has a greater need to protect its natural water resources than most surrounding towns since all residents are dependent upon the quality of the groundwater on their own property and cannot depend on the town for a source of potable water. At present there is no need for, nor plans for a community-wide or area-wide sewage system in Boxford.

Septic systems are serviced by local or independent operators. The current thinking is conventional septic systems can release some amounts of point source pollutants into nearby groundwater supplies, surface water bodies and streams. For this reason, the Commonwealth overhauled its Title 5 regulations in 1996 to ensure that failed septic systems are upgraded before home ownership title transfers can be approved. Setbacks from water bodies increased in Boxford's Board of Health Regulations in 1994.

Finally, the Commonwealth's enacted Wetlands Protection Act Regulations, including the Rivers Protection Act Regulations, the Stormwater Management Policy and the Community Preservation Act offer substantial support to our local permit-approving authorities in protecting our natural resources. Consideration of larger lot size and/or cluster zoning (sometimes referred to as "open space development") and a wholesale cap on issuance of building permits have all been discussed over the years since 1994. However, three other measures have actually been adopted to protect our natural resources, namely, (1) the Phased Growth Subdivision Regulation of 1997, (2) various restrictive regulations and bylaws initiated by all of the permit-approving authorities and taking violators to court in extraordinary cases where natural resources have been placed in jeopardy and (3) adopting a 75' minimum setback distance from wetlands to the edge of the one-acre minimum Contiguous Buildable Area in the Zoning Bylaw in 1995. Even with numerous laws and regulations in place, it is important to ensure that our town boards follow these measures and not mitigate, ignore, waive or undermine them in order to satisfy developers and landowners.

At the annual spring town meeting in May 2006, the town adopted a Stormwater Management bylaw for the control of stormwater runoff from construction sites of one acre or more within the designated urbanized areas of town. Commercial or industrial sites that have the potential to discharge pollutants, so-called "hotspots", are also regulated by the Stormwater Management Bylaw. The bylaw authorizes the Boxford Conservation Commission to promulgate regulations for the review, permitting and monitoring of construction sites and hotspots. The Conservation Commission adopted Stormwater Management regulations in September 2007. The Conservation Commission continues to update their Stormwater Management bylaw and regulations with proactive low impact development design standards to encourage the mitigation of erosion and stormwater runoff during construction activities.

5 – Long-term Development

Boxford is a small rural community with historically slow development patterns highly favoring single family homes on large parcels. Currently, there are no plans on the horizon or in the permitting phase for new large scale subdivisions or other developments. One large development, the Willows, is currently being constructed. This 66 unit multi-family 55 and over housing is helping reconcile the community's need for smaller housing options for their growing elderly population. Municipally, the town is looking to construct a new Department of Public Works facility as the old facility is inadequate for the town's needs. Finally, Masconomet Highschool is currently assessing a new set of athletic fields for their property for sports including soccer and baseball. Beyond these developments, the town of Boxford intends to maintain its rural character in the longterm, with minimal development beyond what is necessary to sustain its population as it evolves, grows, and ages.

E- Recreation

Town-wide active and passive recreational activities in Boxford are developed and managed by several organizations. Most passive recreation is self-directed, however pre-arranged hikes, horseback rides, and nature walks are organized by BTA/BOLT, Inc.

Trails are maintained by BTA/BOLT, Inc. volunteers, with significant contribution from the Boy Scouts, Eagle Scouts, and Masconomet Regional High School interns.

The Boxford Recreation Committee, board appointed by the Selectmen, provides, supervises and maintains all recreational facilities in the town of Boxford and operates the Boxford Park Program, which offers games, sports, arts and crafts. The Recreation Committee also supervises the use of Camp Sacajawea by the Greater Lawrence Educational Collaborative. This camp is for severely handicapped children from the North Shore area. The site is handicapped accessible with pavement to all outbuildings and activity areas.

Most of the town's active recreation programs are administered by not-for-profit volunteer organizations, such as the Boxford Athletic Association (BAA), Masco Youth Football, Masco Youth Hockey, and Tribal Lacrosse. They offer sports and recreational programs for Boxford's youth and adults, including baseball, basketball, cheerleading, cross country, field hockey, football (flag and tackle), hockey, lacrosse, soccer, softball, swimming classes at Stiles Pond, track & field, the Call to Honor Triathlon, and the Jennifer Tinney 4th of July Road Race.

The associations are governed by members and officers who are elected each year. The members participate in monthly meetings at which they organize the sports programs and activities and establish each program's budget. All boys and girls, regardless of ability, are invited to participate. The primary purpose of the sports programs are to teach individual sports skills, give children the opportunity to compete in a team sport, assist in the development of a sense of responsibility and cooperation, foster good sportsmanship, and have fun.

1. Inventory of Recreational Fields and Facilities

Baseball / Softball Fields (9)	Christopher Cargill Fields, at Cole School (2) Eric Luther Boy Scout Park, off Cahoon Road Johnson Fields, behind the Police Station (2) Keith R. Koster Park, at Stiles Pond
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	Morse Field, in West Boxford village Spofford Fields, at Spofford Pond School (2)
Multi-Purpose Fields (7)	Boy Scout Park (2) Chadwick Fields, behind Town Hall (3) Boxford Common (2)
Temporary Multi-Purpose (1)	Outfield at Cargill (1/2) Outfield at Boy Scout (1/2)
Basketball Courts-outdoor (3)	Cole School Spofford Pond School West Boxford Village
Basketball Courts-indoor (6)	Cole School Masconomet (4) Spofford Pond School
Tennis Courts (5)	Masconomet (3) Police Station (2)
Hockey Rinks (0)	
Swimming Pools (0)	
Beaches (1)	Stiles Pond
Boat Ramps (3)	Baldpate Pond Hovey's Pond Stiles Pond
Playgrounds (4)	Ackerman playground, at Boy Scout Park Johnson Field Cole School Spofford Pond School

Table 6. Usage of Recreational Fields & Facilities

Program	Age	Participants	Facilities & Fields
Baseball (BAA)	4-15	232	Boy Scout, Cargill, Koster, Morse, Spofford
Basketball (BAA)	5-14	250	Masco, Cole School, Spofford Pond School

Cross Country (BAA)	10-14	45	Bradley Parmer State Park
Field Hockey (BAA)	5-14	51	Boxford Common and the baseball outfield at Boy Scout Park
Football, Flag (BAA)	5-14	88	Chadwick
Football, Tackle (Masco Youth Football)	8-14	114	Not in Boxford
Hockey (Masco Youth Hockey)	4-18	140	Not in Boxford
Lacrosse (Tribal Lacrosse)	6-15	167	Limited availability at Boy Scout
Park Program	5-12	270	Cole School, Spofford Pond School
Soccer (BAA)	5-16	432	Boy Scout, Chadwick, baseball outfield at Cargill, Boxford Common
Softball, Girls (BAA)	8-14	42	Johnson
Softball, Men's (BAA)	30+	205	Cargill, Boy Scout, Johnson, Spofford
Track and Field (BAA)	8-15	73	Masco
Ultimate Frisbee	All ages	20	-
Beach (BAA)	All ages	315*	Keith Koster Park (Stiles Pond)
Call to Honor Triathlon (BAA)	All ages	300	Start and finish at Keith Koster Park (Stiles Pond)
Jennifer Tinney Memorial 4th of July Road Race (BAA)	All ages	250	Start and finish in East Village

Table 6. Boxford Housing Units and Tenure, 2000-2010.

* Families.

2. Other Recreational Activities -

Walking, Biking, and Horseback Riding Trails

The largest single area used for horseback riding and walking trails is the Boxford State Forest which is a collection of contiguous parcels, totaling over 2,000 acres, owned by the Commonwealth of Massachusetts, the Phillips Wildlife Sanctuary, the Essex County Greenbelt Association and other groups. The second largest area is the Wildcat Reservation, an area of over 300 acres purchased by the town in 1974 with a grant from the Commonwealth and managed by the Conservation Commission

Under the direction of BTA/BOLT, Inc., a large network of trails is maintained throughout the town. The Community Preservation Act (CPA) has also provided funding to the Boxford Conservation Commission for preservation and expansion of recreational hiking trails. Some trails are protected by easements granted to the town and BTA/BOLT, Inc., but most are used by permission of individual owners. Other areas are protected by the Essex County Greenbelt Association. Some of these areas are used as part of the Bay Circuit Trail (see Appendix I for map showing trails).

Rails to Trails Project

In 2007, the Mass-Highway Commissioner recognized the regional Borders to Boston trail as an important project to further non-motorized transportation alternatives and created a state-level task force to guide its development.

Surrounding towns are also working on the creation and planning of similar pathways that would link with Boxford's pathway to form a contiguous 30 +/- mile recreational trail stretching from Salisbury to Danvers along the former Newburyport Branch right-of-way, to be known as the Borders to Boston Rail Trail (see map in Appendix I).

US Representative John Tierney earmarked \$800,000 under the SAFETEA-LU program on the list of "high priority projects" to design, engineer, permit, and construct the "Border to Boston Bikeway" rails-trails project for eight north shore towns: Danvers, Wenham, Topsfield, Boxford, Georgetown, Newbury, Newburyport, and Salisbury. The MBTA owns the rail-bed in the southern three towns: Topsfield, Wenham, and Danvers. Given a lease by the MBTA, these three towns converted their MBTA rail bed to a compacted stone dust bike/walking trail and declined their share of the \$800,000. The northern towns have been working with Mass Highway (MA DOT), National Grid, and FST (Fay, Spofford and Thorndike) engineers on their paved bike trail. Newburyport finished the first phase of their paved bike trail several years ago. The northern towns have a license from National Grid, but need a 99 year lease in order to build the rail-trail between the parallel power lines. Under new rules, this lease will only be issued at the 75% design completion.

FST and MA DOT engineers are working together to reach the 25% level of completion. When the 25% completion level is reached, a public hearing will be held and FST, MA DOT, and the Boxford Border to Boston Bikeway Path Committee will take the project to the required permitting Boxford Commissions.

For now, the Boxford rail-bed is open for walking, running, biking, and skiing from Pond Street to the Georgetown Town line and beyond thru Georgetown and from Pye Brook Lane to the Topsfield Town line, connecting with the Topsfield, Wenham, and Danvers Linear Trail.

In 2022 the award of a federal grant of over a million dollars will go towards finish engineering studies, which will allow the building of the Boxford section of the Rail/Trail. This was accomplished with much help from our state representative Tram Nguyen. She was able to get the state to resume work, and brought in Seth Moulton, our national representative who got Congress to approve funding in a multipurpose bill.

Cross Country Skiing

As with horseback riding and hiking, the many open and wooded areas in Boxford offer excellent cross-country skiing when adequate snow cover is available.

Skating

No official skating areas are maintained or supervised by the town, but residents use the town's many ponds and flooded areas when freezing temperatures permit.

Tennis

Tennis courts are available for use beside the Police Station at the corner of Spofford and Ipswich Roads. The DPW is responsible for maintenance of these courts. Many residents also use the courts at Masconomet Regional High School.

Playgrounds

There is a playground behind the Spofford Pond School and a large new playground behind Cole School, as well as Ackerman Playground at Boy Scout Park. A smaller playground is available adjoining Johnson Field and Stiles Pond. The Recreation Committee has received funding in 2023 to improve the playground near the DPW

Camping and Picnicking

The Recreation Committee maintains Camp Sacajawea on Stiles Pond with facilities available for both picnicking and overnight camping. The camp is located on over 30 acres with extensive water frontage. Buildings with running water, electricity, and septic facilities are available for use by contacting the Recreation Committee.

Swimming

Under the direction of the Boxford Athletic Association (BAA), a swimming program is offered at Stiles Pond. Both swimming privileges and lessons are available to residents for a modest fee. Last year approximately 315 families signed up and paid for use of the beach. The proceeds from beach use are allocated exclusively to operate the beach area and to maintain its docks and facilities.

Boating/Canoeing/Fishing

Boxford offers a great variety of ponds and rivers for this use, many with well-marked public landings. Stiles, Hovey's and Baldpate ponds all have boat ramps. Access can be had to Sperry, Stevens and Spofford ponds via the fire hydrant areas, but these are not boat ramps per se. Portions of the Ipswich River and Parker River are suitable for canoeing and kayaking. Baldpate and Stiles are stocked with trout, although all of these surface water bodies are fished on a regular basis. According to the MassDEP, there are nine great ponds (those with an area greater than 10 acres) wholly or partially located in Boxford: Bald Pate Pond, Chadwick Pond, Four-Mile Pond, Hovey's Pond, Johnson's Pond, Sperry Pond, Spofford Pond, Stevens Pond and Stiles Pond. All Massachusetts residents have certain rights to use and enjoy Great Ponds.

Basketball

In addition to indoor courts at Masco and courts inside and outside of each of the two elementary schools, a court is available in the West Boxford Village and at Keith Koster Park (Stiles Pond).

Bicycling

Bicycling is a major pastime in Boxford, both for town residents and for visitors, as indicated in the survey. In addition to many miles of wonderful roads, there are trails through the woods for mountain bikers. Survey results indicate that Boxford is a destination for bikers and there are concerns about safety because of the increase in vehicular traffic.

Recent Additions or Improvements to Fields and Facilities

Boxford Common – 2 multipurpose fields, paved walking paths, Masco Football storage unit

In 2014, a new playground was built at the Cole School. CPA funds were used for this project.

Survey Results Regarding Recreation (see Appendix III)

Birding, jogging and bicycling continue to be popular leisure activities in Boxford. There are many other popular recreation activities cited by respondents: tennis, fishing, soccer, ice skating, cross-country skiing, snow-shoeing, picnicking, and playground use.

Support for acquiring land for passive recreation was generally more supported with nearly two thirds of respondents indicating it continues to be important. Sixty two percent of respondents also indicated support for the rail trail and fifty six percent indicated support for sidewalks around schools. A slight majority also supported paved bike paths (53%) and bike lanes (55%), though more than 20% indicated these were less important and another 20% indicated they were not important.



Figure 3. Soccer Game, Chadwick Field

Section 4 - Environmental Inventory and Analysis

A- Geology, Soils and Topography

According to the 1983 U.S.G.S. Bedrock Geologic Map of Massachusetts, the bedrock in the vicinity of Boxford consists of Silurian and Ordovician-aged (395 to 500 million year old) igneous and metamorphic rocks. The main bedrock units are the Sharpner's Pond pluton, the Fish Brook gneiss and the Nashoba formation. Boxford is located between two major fault lines – the Clinton-Newbury fault and the Bloody Bluff fault. The Clinton-Newbury fault trends northeast through West Boxford, bisecting Johnson's Pond. The Bloody Bluff fault also trends northeast through Topsfield and Ipswich, separating the Sharpner's Pond pluton from other igneous rocks further east (e.g., the Cape Ann pluton). The bedrock geologic map also indicates the presence of several smaller faults in the area. Numerous small faults are also shown on the 1977 U.S.G.S. Preliminary Bedrock Geologic Map of the Georgetown Quadrangle, which includes East Boxford. The presence of these faults has important implications for Boxford, as fault zones are often good water-supply sources due to their relatively high permeability.

The topography in Boxford is varied with the northwestern and central sections rather hilly and the eastern sections more flat and gently rolling. A series of rounded hills are composed of firm, relatively impermeable till which causes seep spots and springs on the hillsides. The most notable are Mt. Hayman, Austin Hill, Byers Hill, Shaven Crown Hill, Wood Hill and Baynes Hill. The average height is 298 feet. Some of the hills have an elongate form and are oriented north-northwest. These drumlins (Bald Hill, Jobs Hill and a small unnamed hill off of Bald Hill Road) reflect the glacial history of the area and are similar to other drumlins found in eastern Massachusetts. The topography between the hills is generally flat with swampy areas composed of fine-grained glacial sediments or till. These areas are usually associated with or bordered by ponds. Other glacial features abound throughout the topography of Boxford including eskers, kames, moraines and kettle hole ponds. A 2005 open space conservation purchase by the town of Anvil Farm in West Boxford preserved a beautiful example of an esker.

In the western and northwestern sections of town there are many large fields, some still being used for agricultural purposes. In East and West Boxford, there are some fields that are actively farmed for hay and pasture, while most of the open lands are small, idle or abandoned fields. Many of the open fields in town that aren't farmed have already been developed for residential use. It is with increasing regularity that the town Boards are being approached with sites that are difficult to develop due to the presence of wetlands, hilly terrain or other nonconforming features.

Many of the soils occurring in Boxford are generally unsuitable for providing sufficient quantities of drinking water for other than single-family residential dwellings. These soils are either rocky, gravelly or contain hardpan or relatively impermeable layers that preclude intensive development or the development of large water-supply wells. Many of the private water-supply wells in town are bedrock wells due to the thin, impermeable soil horizon. The following descriptions of the local soils are taken from the 1981 U.S.D.A.

Soil Conservation Service's soil survey of Essex County. The soil survey indicates that the main soil associations found in Boxford are the Hinckley-Windsor-Merrimack association, the Paxton-Woodbridge-Montauk association, the Canton-Charlton-Sutton association and the Charlton-Rock Outcrop-Medisapristis association. The soil survey's descriptions of these soil associations are as follows.

Hinckley-Windsor-Merrimack Association

These sandy and loamy soils are formed in outwash deposits. They are found on nearly level to steep slopes and are excessively or somewhat excessively drained due to their relatively high permeability. Soils of this association are generally suitable for farming and residential development. Some parts of the association are droughty and steep, and most of the minor soils have a seasonal high-water table in winter and spring.

Paxton-Woodbridge-Montauk Association

These loamy soils are formed in compact glacial till. They are found on nearly level to steep slopes and are well drained and moderately well drained. The soils of the association are suitable for dairy farming, orchards and truck crops. They are well suited to residential development if sewage disposal facilities are available. The main limitations for residential development are the slowly permeable fragipan, steep slopes in some areas, and a seasonal high-water table in areas of the Woodbridge soils.

Canton-Charlton-Sutton Association

These loamy soils are formed in friable glacial till. They are found on nearly level to steep slopes and are well drained and moderately well drained. The soils of this association are suitable for dairy farming, orchards and truck crops. Most areas are well suited for residential development. The main limitations of the Canton and Charlton soils for residential development are slope and stones in and on the surface layer. Use of the Sutton soils is limited by the seasonal high-water table.

Charlton-Rock Outcrop-Medisaprists Association

These loamy and mucky soils are formed in glacial till and organic deposits. The loamy soils are found on nearly level to steep slopes and are well drained. The mucky soils are found in nearly level areas and are very poorly drained. The soils of this association, especially the Charlton soils, are suitable for woodland and woodland wildlife habitat.

Medisaprists have good potential for wetland wildlife habitat. The Charlton soils are suitable for residential development, but wetness and a high organic matter content limit the Medisaprists for this use. The main limitations of the higher areas of the association are the frequent bedrock outcroppings and slope.

A Surficial Geology Map (based upon data from the U.S. Geological Survey) is included in this report (Appendix I) that shows soil types within Boxford. The map shows that Boxford is mainly covered by sand and gravel deposits or glacial till with bedrock outcrops. Minor amounts of floodplain alluvium are found near surface water bodies (ponds and streams).

B - Landscape Character

Woodlands and forests are the dominant features in Boxford. Once a quiet farming community, many of the former fields and agricultural lands have reverted back to secondary growth hardwood and soft wood forest. The landscape consists of numerous wooded hills and fields interspersed with ponds and wetlands. These features provide the town with a rural character that is heightened by the lack of any centralized commercial areas. The landscape characteristics which comprise the town's rural character are the woodlands, fields and farms in town; it is these features that Boxford's residents are striving to preserve. Since 2016, Boxford has preserved over 94.5 acres of open space for conservation and passive recreation and has 1,183.82 acres of farmland and forest protected by Chapter 61, 61A or other restrictions.

The town's farms, hayfields and winding roads are often bounded by dry stone walls that meander thru the landscape. The stone walls help define the rural character. Currently the Planning Board is considering regulations to better define the administration of the Scenic Roads Act for the protection of stone walls and trees within the towns road right of ways. The few remaining farms are a valuable asset to the town and reflect the area's agrarian past. The abundant ponds in town are also an important water resource, providing recreational opportunities to the residents as well as many scenic vistas.

C - Water Resources

1 - Watersheds

There are three drainage basins in Boxford (the Parker, Ipswich and Merrimack River basins). A small part of northwest Boxford lies in the Merrimack River basin. West Boxford Village lies in the Parker River basin while East Boxford Village is situated in the Ipswich River basin. In Boxford the Merrimack River basin consists of Hovey's, Johnson's and Chadwick Ponds and their associated wetlands and intermittent streams. Much of the Merrimack River basin in Boxford is a public water supply watershed, as indicated on the Water Supply Protection Map.

The Parker River originates in West Boxford in wetlands west of Sperry's Pond and flows northeast under Willow Rd into Groveland, Georgetown and on through Newbury. Baldpate Pond and some small tributaries of the Mill River and Penn Brook in central Boxford also lie within the Parker River basin. Much of the Parker River basin in Boxford is designated as an approved Zone II for five municipal water-supply wells located along the Parker River in Georgetown and for one municipal water-supply well located along the Mill River in Rowley. It should be noted that the Parker River has been determined to be hydrologically stressed. Why are we deleting this?

For central and southern portions of Boxford, Fish Brook and Pye Brook are the main drainage systems. Both these systems flow into the Ipswich River in Topsfield. These two brooks and their associated wetlands and tributaries drain many of the larger ponds in Boxford, including Four Mile, Spofford, Stiles, Lowe and Kimball Ponds. All of these water bodies help to contribute water flow into the Ipswich River. The Ipswich River is widely recognized as one of the most severely stressed rivers in the country due to excessive withdrawals by bordering communities and low stream flow.

2 - Surface Water

The town's rivers and brooks are rather slow moving and much of their water flows through marshland, maple swamps and wetland areas which have major resource value. They are important since they contribute to numerous water-supply wells in Boxford and adjacent towns (as evidenced by the Zone II delineations), assist in the aquifer recharge of groundwater, provide habitat cover and food for wildlife, serve as a buffer between developed areas and store excess surface runoff to reduce peak storm discharges and flooding. They provide area for open space, passive recreational activities and environmental study. Many of the wetlands in Boxford are designated as NHESP habitat. Notable surface waters in the town of Boxford include Stiles Pond, Baldpate Pond, Fish Brook, Hovey's Pond, and Steven's Pond. These resources are valued as they contribute to numerous water supply wells in Boxford, and provide both passive and active recreational opportunities for residents.

3 - Flood Hazard Areas

Flood zones for Boxford and vicinity are shown on the Flood Hazard Zones map. The map shows the 100 and 500-year flood zones based on Flood Insurance Rate Maps (FIRMs) provided by the Federal

Emergency Management Agency (FEMA) updated in 2012. The map shows that the flood hazard zones are predominantly limited to the river valleys and areas around ponds. Boxford has adopted a flood plain overlay district as part of the Zoning Code in May 2012 Article 14 to restrict development in flood zone areas.

4 - Wetlands

Boxford's landscape includes an abundance of wetlands or areas of land whose soils are saturated with moisture either permanently or seasonally. They include marshes, swamps, vernal pools, and bogs and often life within floodplains. Wetlands are critical to the preservation of the towns' water resources. They receive and transmit large volumes of precipitation, thus ensuring a steady supply of groundwater. They also provide natural storage for runoff during storm events, thereby reducing downstream flooding and the attendant effects of erosion and sedimentation. State laws support the Conservation Commission's efforts to protect wetlands. The Town's has adopted a bylaw (by the Town Meeting of the Town of Boxford 5-13-1986 ATM, Art. 33, updated in 1994) to protect the wetlands, water resources and adjoining land areas in the Town by controlling activities deemed by its Conservation Commission likely to have a significant or cumulative effect upon resource area values, including but not limited to the following: public or private water supply, groundwater, flood control, erosion and sedimentation control, storm damage prevention, water quality, water pollution control, fisheries, wildlife habitat, rare species habitat including rare plant species, agriculture, recreation values deemed important to the community and riverfront area values (collectively, the "resource area values protected by this bylaw").

Wetlands need to maintain their natural water regime, including normal fluctuations and connections with the uplands and other wetlands in order to provide maximum water quality and quantity and wildlife habitat benefits. Protected lands within Boxford that help preserve the integrity and function of wetlands include Willowdale State Forest, Cleveland Farm, Wildcat Forest, Boxford State Forest, and others.

5 - Recreational Waters

Boxford's lakes and ponds provide ample recreational opportunities for residents and visitors. The town beach is located on Stiles Pond with opportunities for swimming, sunbathing and boating. Some of the other ponds are adjacent to nature trails, providing scenic views and opportunities for bird watching, horseback riding and diverse landscapes for nature hikes. There are also three YMCA camps on Stiles Pond owned by the towns of Lynn, Wakefield and Danvers and Georgetown's Camp Dennison located on Baldpate Pond with an easement to the pond approved by Boxford voters in 1999.

D - Vegetation

In July 2000, Boxford conducted its first-ever Boxford Biodiversity Days. This community-wide event identified over 515 species of plant and wildlife. The combination of extensive forests and wetlands provide rich habitat for the following list of vegetation found in our area. It includes approximately 128 varieties of plantlife and 14 varieties of trees.

Plantlife

The following listing was prepared by Phyllis Fischer and is listed primarily by the order of seasonal appearance.

Earliest Spring

Benzoin (Spice Bush)

*Colt's Foot Hepatica Fumitory
(Rare)*

Early Saxifrage Spring

False Hellebore Skunk Cabbage

Jack-in-the-Pulpit Marsh

Marigold Shad Blow

Trout Lily

Water Hemlock

*Wood and Rue Anemone Blood
Root*

Later

Amaryllis

American Star Flower

Blue Flag

Blue-Eyed Grass

Canada Lily

Dandelions

Dutchman's Breeches

Gold Thread

*Orchids - Lady Slipper and
Lady's Tresses*

Partridge Berry

Pipsissiwa

Quaker Ladies (Bluets)

Rattlesnake Plantain

Rhododendron

*Solomon's Seal and False
Solomon's Seal*

Swamp Azalea

Trilium

*Violets: Yellow, Woolly, White,
Canada White, many varieties of
blue with various shaped leaves,
including the rare Bird's Foot
Violet.*

Wild Geranium

Wild Lily of the Valley

Wild Oats

Wild Red Columbine

Winter Green

Wood Betony

June

- Barren Raspberries
- Bastard Toadflax
- Beach plum
- Bear Berry
- Bindweed
- Bittersweet
- Black Raspberries
- Bladder Campion
- Blazing Star
- Blue Flag Iris
- Blueberries
- Bouncing Bet
- Bunch Berry
- Butter & Eggs
- Buttercups
- Buttonbush
- Carrion Flower
- Catnip
- Celandine
- Chicory

- Cinquefoil Self Heal
- Clintonia
- Clover - Rabbits Foot, White, Pink and Alfalfa
- Cranberries
- Daisy Fleabane
- Dame's Racket
- Deptford Pink
- Elderberry
- Evening Primrose
- Frost Weed
- Golden Ragwort
- Greenbriar
- Hawkweed
- Hobble Bush
- Jersey Tea
- Knapweed
- Leather Leaf
- Milkweed
- Mullein
- Ox Eye Daisies
- Pokeweed
- Purple Vetch
- Queen Anne's Lace
- Ragged Robin
- Rattlebox
- Roses - Small white, large pink
- Spiderwort
- Spreading Dogbane
- St. John's Wort
- Steeple Bush
- Strawberries
- Tall Meadow Rue
- Tansy
- Thermopsis
- Thistle
- Turtlehead
- Virginia Creeper
- Yarrow

Later

- Asters
- Bayberry
- Blue Vervain
- Boneset
- Brown-eyed Susans

- Golden Rods (many varieties)
- Jewelweed
- Joe Pye Weed
- Loosestrife
- Nightshade
- Pearly Everlasting
- Sweet Fern

Ferns

- Bracken
- Christmas
- Cinnamon
- Hayscented
- Interrupted
- Marsh
- New York
- Ostrich
- Polypody
- Rattlesnake Grape
- Royal
- Sensitive

Rare

- Cardinal Flower
- Fringed Gentian
- Pitcher plant

Non-Flowering (in addition to ferns)

- Beech drops
- Ground Pine
- Indian Pipe
- Mosses

A listing of major species within the forested areas are as follows:

Hardwoods

- Oak - White, Red and Black
- Maple - Sugar and Swamp
- Birch - White and Gray
- Hickory - Pignut and Shagbark
- Beech
- Ash - White
- Elm - American
- Hornbeam
- Sassafrass

Conifers

- Pine - White, Red and Pitch
- Hemlock
- Spruce - Blue
- Cedar - White, red
- Juniper
- Tamarack (Eastern Larch)

1 - Wetland Vegetation

Wetland vegetation includes plants that are distinct in that they are well adapted to life in saturated soil. Although some species grow only in areas that are wet year-round, most wetland plants are able to tolerate a range of hydrologic conditions and may occur in uplands as well as wetlands. Wetland vegetation types in Boxford ranges from forests to swamps, bogs and meadows. Invasive plant species are a threat to wetlands vegetation and entire wetland systems throughout the state and region, including Boxford. More information on wetland invasive species is referenced in Environmental Challenges.

2 – Forested Land

Boxford maintains a substantial amount of their community as forested land, defined as an ecosystem with a tree crown density of 10% or more and are stocked with trees capable of producing timber or other wood products. In Boxford, forested lands are typically comprised of stands of Beech, Maple, Oak, and Hickory. The most notable stand in the town is a large Beech copse in the Boxford Town Forest. Forested land in Boxford is preserved through numerous entities and has not decreased substantially in recent years.

3 - Agricultural Land

Boxford is fortunate to retain a good deal of agricultural land that is reflective of its early farming history and today meets the needs of both crop and equestrian farms. In the western and northwestern sections of town there are many large fields, some still being used for agricultural purposes. In East and West Boxford, there are some fields that are actively farmed for hay and pasture, while most of the open lands are small, idle or abandoned fields.

4 - Shade Trees

Public shade trees, including street trees and trees within parks, cemeteries and other public places contribute to the town's character, to its ecological and human health and comfort. Shade trees help clean the air of toxins and pollutants, mitigate temperatures, help reduce stormwater runoff and provide food and habitat for a variety of native and migrating species. Trees can also provide buffers for privacy or to screen uses. The town's tree warden is responsible for the health and removal of public shade trees in Boxford and for working with National Grid to minimize tree removal as new power lines are planned. Boxford has designated all roads in town (except state numbered routes) as subject to the Scenic Roads Act. Removal of trees within scenic road right-of-way require a hearing before the Planning Board.

5 - Natural Communities and Core Habitats

A good summary of Boxford's plant habitats can be found in the Natural Heritage and Endangered Species Program's (NHESP) 2012 report entitled *BioMap2, Conserving the Biodiversity of Massachusetts in a*

Changing World, Boxford. BioMap2 identifies habitats that if protected will advance biodiversity in Massachusetts. It is a planning tool to help local and state agencies protect the state’s most important habitat resources. BioMap2 maps resources as outlined below.

Priority Natural Communities: Natural communities are assemblages of plant and animal species that share a common environment and occur together repeatedly on the landscape. BioMap2 gives conservation priority to natural communities with limited distribution and to the best examples of more common types.

Vernal Pools: BioMap2 identifies the top five percent most interconnected clusters of Potential Vernal Pools in the state.

Forest Cores: In BioMap2, Core Habitat includes the best examples of large, intact forests that are least impacted by roads and development, providing critical habitat for numerous woodland species.

Wetland Cores: BioMap2 used an assessment of Ecological Integrity to identify the least disturbed wetlands in the state within undeveloped landscapes – those with intact butters and little fragmentation or other stressors associated with development. These wetlands are most likely to support critical wetland functions and are most likely to maintain these functions into the future.

Aquatic Cores: BioMap2 identifies intact river corridors within which important physical and ecological processes of the river or stream occur.

The BioMap2 report identifies fourteen BioMap core habitats totally or partially within Boxford, encompassing Forest Cores, wetland Cores, Vernal Pool Cores, Aquatic Cores and Exemplary or Priority Natural Community Cores.

BioMap2 also identifies Critical Natural Landscapes, or intact landscapes that are better able to support ecological processes and disturbance regimes, and a wide array of species and habitats over long time frames. In Boxford, these include one Landscape Block (the most intact large areas of predominately natural vegetation), and fifteen Uplands Buffers of Wetland (8) and Aquatic (7) Cores.

In total BioMap2 identifies 7,199 acres of Core Habitat in Boxford, 31 percent of which is protected, and 2,652 acres of Critical Natural Landscape, 62% of which is protected. Some lands are identified as Core Habitat and Critical Natural Landscape.

The Natural Heritage and Endangered Species Program also lists seventeen varieties of rare vascular plants identified within the town:

Table 7. Rare Plant Species in Boxford

Scientific Name	Common Name	Status
<i>Asclepias purpurascens</i>	Purple Milkweed	E
<i>Carex livida</i>	Glaucous Sedge	E
<i>Celastrus scandens</i>	American Bittersweet	T
<i>Eriophorum gracile</i>	Slender Cottongrass	T
<i>Gentiana andrewsii</i>	Andrews' Bottle Gentian	E
<i>Houstonia longifolia</i>	Long-leaved Bluet	E
<i>Liatris scariosa var. novae-angliae</i>	New England Blazing Star	SC

<i>Myriophyllum alterniflorum</i>	Alternate-flowered Water-milfoil	E
<i>Ophioglossum pusillum</i>	Adder's-tongue Fern	T
<i>Panicum philadelphicum ssp. philadelphicum</i>	Philadelphia Panic-grass	SC
<i>Platanthera flava var. herbiola</i>	Pale Green Orchis	T
<i>Potamogeton vaseyi</i>	Vasey's Pondweed	E
<i>Senna hebecarpa</i>	Wild Senna	E
<i>Sparganium natans</i>	Small Bur-reed	E
<i>Viola adunca</i>	Sand Violet	SC
<i>Carex livida</i>	Livid Sedge	E
<i>Myriophyllum alterniflorum</i>	Slender Water-milfoil	E

E-Endangered | T-Threatened | SC-Special Concern

Table 7. Rare Plant Species in Boxford.

6 - Vegetation and Recreation

The diverse and captivating vegetation which inhabits Boxford lends itself to a multitude of recreational uses, including scenic viewing along nature trails, hunting in some forested areas, and hiking and camping amongst vegetative cover. The presence of several rare or endangered species of vegetation throughout Boxford makes protecting the natural landscapes they reside in essential to maintaining biodiversity. Further, the plethora of unique vegetative landscapes like those found in core habitats throughout Boxford should continue to be protected from an ecosystem standpoint so they may continue delivering their essential ecosystem services including providing food and shelter to associated fauna, and recreational value to town residents.

E- Fisheries and Wildlife

The following extensive inventory of wildlife sighted in Boxford speaks for the interest of Boxford residents in taking to the fields, forests and streams to spot wildlife. Many residents thrive on fishing, bird watching and observing all kinds of native wildlife. Many observed species have been documented with the Conservation Commission. Retaining our uninterrupted forest and wetland corridors is of major importance to this town and the surrounding communities for the preservation of species diversity. Many of the large protected upland tracts and wetlands corridors provide wildlife corridors, offering habitat for breeding, nesting and feeding. A black bear was sighted in Boxford for the first time in many years during the winter of 2006-2007, and as recently as the summer of 2022. Increases in the population of coyote, turkeys, fisher, and beaver have also been noted. The NHESP report lists nine rare animal species in Boxford, comprising the blue-spotted salamander, marbled salamander, four-toed salamander, barn owl, bridle shiner, eastern pond mussel, Blanding's turtle, Ringed Boghaunter and Wood turtle.

Mammals

Beaver	Gray Fox	Red Squirrel
Big Brown Bat	Gray Squirrel	River Otter
Bobcat	House Mouse	Short-Tailed Shrew
Coyote	Little Brown Bat	Short-Tailed Weasel

Deer Mouse
Eastern Chipmunk
Eastern Cottontail Rabbit
Eastern Mole
Fisher
Flying Squirrel

Mink
Muskrat
Opossum
Raccoon
Red Bat
Red Fox

Star-Nosed Mole
Striped Skunk
Voles, Unknown Species
White-Footed Mouse
White-Tailed Deer
Woodchuck

Fish

American Eel
Black Crappie
Bridled Shiner
Brook Trout
Brown Bullhead/
Tessellated Darter

Catfish
Chain Pickerel
Golden Shiner
Hornpout
Lake Trout
Large and Smallmouth Bass

Pumpkinseed Sunfish
Rainbow Trout
Tessellated Darter
White Crappie
Yellow Perch

Reptiles

Black Racer
Blanding's Turtle
Eastern Box Turtle
Eastern Garter Snake
Hog-Nosed Snake
Milk Snake

Musk (Stinkpot) Turtle
Northern Water Snake
Painted Turtle
Red-Bellied Snake
Ribbon Snake
Ring-Necked Snake

Smooth Green Snake
Snapping Turtle
Spotted Turtle
Wood Turtle

Amphibians

American Toad
Blue-Spotted Salamander
Bullfrog
Gray Tree Frog
Green Frog

Leopard Frog
Marbled Salamander
Pickerel Frog
Red-Backed Salamander
Red-Spotted Newt

Spotted Salamander
Spring Peeper
Two-Lined Salamander
Wood Frog

Birds²

Acadian Flycatcher (M) UC
Alder Flycatcher (M) UC
American Bittern (M) R
American Coot (M) UC

Eastern Wood Pewee (M) C
Evening Grosbeak (M) N
Field Sparrow (M) UC
Fox Sparrow (M) UC

Red-breasted Nuthatch (R) UC
Red-eyed Vireo (M) C
Red-shouldered Hawk (M) UC
Red-tailed Hawk (R) C

² Characters following the species' common name indicates:

- (R) A resident species, one that may be found year round
- (M) A migratory species, one that temporarily passes through, or is here for only part of the year.
- C Common, seen regularly
- UC Uncommon, seen infrequently, small numbers yearly
- R Rare, seen very infrequently, usually not yearly
- N Nomadic, depending on food supply in the north these species may be common or absent from our area in any given year(s).

American Crow (R) C
 American Goldfinch (R) C
 American Kestrel (R) UC
 American Redstart (M) C
 American Robin (R) C
 Barn Swallow (M) C
 Barred Owl (R) UC
 Bay-breasted Warbler (M) UC
 Belted Kingfisher (M) C
 Black Duck (M) C
 Black-and-white Warbler (M) C
 Black-billed Cuckoo (M) UC
 Blackburnian Warbler (M) UC
 Black-capped Chickadee (R) C
 Blackpoll Warbler (M) UC
 Black-throated Blue Warbler (M) UC
 Black-throated Green Warbler (M) C
 Blue Jay (R) C
 Blue-gray Gnatcatcher (M) UC
 Blue-winged Teal (M) UC
 Blue-winged Warbler (M) UC
 Bohemian Waxwing R
 Broad-winged Hawk (M) C
 Brown Creeper (R) C
 Brown Thrasher (M) R
 Brown-headed Cowbird (M) C
 Bufflehead (M) C
 Canada Goose (R) C
 Canada Warbler (M) UC
 Canvasback (M) R
 Cape May Warbler (M) R
 Carolina Wren (R)
 Cedar Waxwing (R) C
 Chestnut-sided Warbler (M) UC
 Chimney Swift (M) C
 Chipping Sparrow (M) C
 Common Goldeneye (M) UC
 Common Grackle (M) C
 Common Merganser (M) UC
 Common Nighthawk (M) UC
 Common Redpoll (M) N
 Common Snipe (M) R
 Common Yellowthroat (M) C
 Connecticut Warbler (M) R
 Cooper's Hawk (M) R
 Dark-eyed Junco (M) C
 Double-crested Cormorant (M) C
 Downy Woodpecker (R) C
 Eastern Bluebird (R) C
 Eastern Kingbird (R) C
 Golden-crowned Kinglet
 Goshawk (R) UC
 Gray Catbird (M) C
 Great Black-backed Gull (R) UC
 Great Blue Heron (M) C
 Great Cormorant (M) C
 Great Crested Flycatcher (M) C
 Great Horned Owl (R) UC
 Green-backed Heron (M) R
 Green-Winged Teal (M) UC
 Hairy Woodpecker (R) C
 Hermit Thrush (M) C
 Herring Gull (R) C
 Hooded Merganser (M) UC
 Horned Lark (M) C
 House Finch (R) C
 House Sparrow (R) C
 House Wren (M) C
 Indigo Bunting (M) UC
 Least Bittern (M) R
 Least Flycatcher (M) UC
 Lesser Scaup (M) R
 Lincoln's Sparrow (M) UC
 Louisiana Waterthrush (M) UC
 Magnolia Warbler (M) UC
 Mallard (R) C
 Merlin (M) UC
 Mourning Dove (R) C
 Mourning Warbler (M) R
 Mute Swan (R) UC
 Nashville Warbler (M) UC
 Northern Cardinal (R) C
 Northern Flicker (R) C
 Northern Mockingbird (R) C
 Northern Oriole (M) C
 Northern Parula (M) UC
 Northern Shrike (M) R
 Northern Waterthrush (M) UC
 Osprey (M) UC
 Ovenbird (M) C
 Palm Warbler (M) C
 Peregrine Falcon (M) R
 Pied-billed Grebe (M) UC
 Pileated Woodpecker (R) UC
 Pine Grosbeak (M) N
 Pine Siskin (M) N
 Pine Warbler (M) UC
 Prairie Warbler (M) UC
 Purple Finch (M) UC
 Red Crossbill (M) N
 Red-winged Blackbird (M) C
 Ring-billed Gull (R) UC
 Ring-necked Ducks (M) C
 Ring-necked Pheasant (R) UC
 Rock Dove (R) C
 Rose-breasted Grosbeak (M) C
 Rough-winged Swallow (M) R
 Ruby-crowned Kinglet (M) C
 Ruby-throated Hummingbird (M) C
 Ruddy Duck (M) UC
 Ruffed Grouse (R) C
 Rufous-sided Towhee (M) C
 Rusty Blackbird (M) R
 Savannah Sparrow (M) C
 Scarlet Tanager (M) C
 Screech Owl (R) UC
 Sharp-shinned Hawk (R) C
 Snow Bunting (M) R
 Solitary Sandpiper (M) R
 Solitary Vireo (M) UC
 Song Sparrow (R) C
 Starling (R) C
 Swainson's Thrush (M) UC
 Swamp Sparrow (M) UC
 Tennessee Warbler (M) R
 Tree Sparrow (M) UC
 Tree Swallow (M) C
 Tufted Titmouse (R) C
 Turkey (R) C
 Turkey Vulture (M) C
 Veery (M) C
 Warbling Vireo (M) UC
 Whip-poor-will (M) R
 White-breasted Nuthatch (R) C
 White-crowned Sparrow (M) UC
 White-throated Sparrow (M) C
 White-winged Crossbill (M) N
 Willow Flycatcher (M) UC
 Wilson's Warbler (M) UC
 Winter Wren (M) UC
 Wood Duck (M) C
 Wood Thrush (M) C
 Yellow Warbler (M) C
 Yellow-bellied Sapsucker (M) UC
 Yellow-billed Cuckoo (M) UC
 Yellow-rumped Warbler (M) C
 Yellow-throated Vireo (M) UC

1 - Vernal Pools

Vernal pools are an ecosystem created by small depressions in the earth that temporarily collect seasonal precipitation. They are characterized by periods of dryness and a lack of fish which allow for the safe development of natal amphibian and insect species. Vernal pool habitat is important to a variety of wildlife species including some amphibians that breed exclusively in vernal pools, and other organisms such as fairy shrimp, which spend their entire life cycles in the vernal pool. Other wildlife species utilize vernal pools for breeding and feeding. Certified vernal pools are protected by state regulations. BioMap2 identifies 7 Vernal Pool Cores in Boxford. There are at least one hundred and fifteen (115) certified vernal pools, with 100-foot buffer zones that serve as areas of critical wildlife habitat, with perhaps two hundred and nine (209) more that have been documented but not yet certified. It is believed that many more vernal pools have not yet been documented or certified. Vernal pools also fall under the jurisdictions of the town, Commonwealth and Natural Heritage Program.

2 - Wildlife Corridors

Wildlife corridors are contiguous tracts of land that provide habitat suitable to accommodate wildlife migration patterns. Because Boxford is relatively sparsely developed, wildlife corridors are plentiful. They often follow water courses and their associated wetlands where development is limited. Large protected forest lands that cross municipal boundaries and connect to other undeveloped lands are extraordinary corridors as well. It is important to protect lands that contribute to these corridors.

3 - Rare Animal Species

The Natural Heritage and Endangered Species Program lists seven species in Boxford that are classified as Threatened or a Species of Concern. It is essential that the habitats in which these species reside are protected to ensure their populations may increase in size and eventually move off of these lists.

Table 10. Rare Animal Species in Boxford

Taxonomic Group	Scientific Name	Common Name	Status
Amphibian	<i>Ambystoma laterale</i>	Blue-Spotted Salamander	SC
Amphibian	<i>Ambystoma opacum</i>	Marbled Salamander	T
Bird	<i>Tyto alba</i>	Barn Owl	SC
Crustacean	<i>Eubbranchipus intricatus</i>	Intricate Fairy Shrimp	SC
Dragonfly	<i>Williamsonia linteri</i>	Ringed Boghunter	T
Fish	<i>Noropis bifrenatus</i>	Bridle Shiner	SC
Mussel	<i>Ligumia nasuta</i>	Eastern Pondmussel	SC
Reptile	<i>Emydoidea blandingii</i>	Blanding's Turtle	T
Reptile	<i>Glyptemys insculpta</i>	Wood Turtle	SC

Table 7. Rare Animal Species in Boxford.

F- Scenic Resources and Unique Environments

Boxford's visual character is reflective of its agricultural past. Since the decline of the region's agricultural economy, much open farmland has reverted back to forest in a process known as ecological succession. Suburban development will continue to create pressure on the remaining open space areas. These areas contain many interrelated, intangible benefits or critical groundwater protection values to the public that should be evaluated for conservation as open space. It is difficult to account for and determine their true value. These values, be they aesthetic, cultural/historic or ecological and recreational, do contribute to the community's overall sense of rural character. With these values in mind, existing scenic areas and areas of unique environmental resources are as follows:

1- Scenic Landscapes

The Department of Environmental Management's (DEM) scenic landscape inventory lists the Lake Cochichewick unit as a prime scenic resource. This unit extends from North Andover to Bradford and contains a portion of West Boxford. The topography is gentle rolling farmland and contains several water bodies. Portions of this unit in Boxford are permanently protected through the town Forest and State Agricultural Preservation Restriction (APR) program. Most land in this area, however, is privately owned and unprotected from future development. Other areas considered for protection of scenic landscapes include: Main Street from Lawrence Road to Middleton Road, Boxford Woods area at Baldpate Pond and possible expansion of the West Boxford, Nason and Hovey's Pond Conservation Area. Lake Cochichewick

1- Major characteristics or unusual geologic features

About 70% of Boxford is tree-covered; there are also significant areas of wetlands and numerous ponds and lakes. Examples are the Wildcat Conservation Area, the area around Baldpate Pond and the esker system on the Anvil Farm property. Portions of each of these three areas are protected permanently through town and Commonwealth ownership. However, many other areas are privately owned and are at risk of future development.

3- Cultural, archeological and historic areas

Local historic areas include Boxford Village Historic District, Howe Village Historic District, West Boxford Village, Lowe Pond mill site, Howe's Pond mill site, Lockwood's Fish Brook mill and bloomery site and the Ipswich River at Masconomet Regional High School. Boxford also has a plethora of old archeological stone walls built from outwash following glacial retreat which are important both to the town's character and history.

4- State and National Registers of Historic Places

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures and objects that have been determined significant in American history, architecture, archaeology, engineering and culture. National Register listings include three districts and five individual properties. Districts include the Boxford Village Historic District, consisting of 43 resources, Howe Village Historic District, having 14 resources, and the Rowley Village Forge Site. Individual listings comprise three First Period dwellings, the Palmer School (known as District School #2 or the Little Red Schoolhouse), Towne Farm and the Spofford-Barnes House. All National Register listings are automatically listed in the State Register of Historic Places.

5 - Heritage Landscapes Identified by Community³

This list is a revised summary of landscapes discussed in the Boxford Reconnaissance Report Essex County Landscape Inventory by the Massachusetts Heritage Landscape Inventory Program. Landscapes are grouped by type.

Agriculture

Alderbrook Farm | Lake Shore Road

APR. Hay is grown here. Cattle and horses grazed. Managed for grassland birds.

Cargill Field

Owned by the town and managed by the Conservation Commission. Leased for farming. CR held by BTA/BOLT. Also used for educational, historic and cultural events.

Haynes Hayfield | Main St. & Middleton Rd.

Owned by the town and managed by the Conservation Commission. Leased for farming.

Ingaldsby Farm | Washington St.

See West Boxford listing in Priority Heritage Landscapes. Farm stand with agricultural fields.

Ingaldsby West 40* | Main Street

APR. Heritage Landscape on Hovey's Pond, farmed

King's Tree Farm | Washington St.

Privately owned nursery that sells trees and shrubs. Contains wetlands. CR Held by Greenbelt

Morss Berry Farm | Oak Ridge Rd. & Lake Shore Rd.

APR. Working farm.

Otis Curtis Farm/Small Ox Farm | Ipswich Rd

Actively farmed. CR held by Conservation Commission.

Paisley Farm* | Washington St.

See West Boxford listing in Priority Heritage Landscapes.

Woodspell Farm | Main St.

This farm is south of Witch Hollow Farm, on Main Street.

North of Boston Farm | 9 Ipswich Rd

Farm stand.

³ Please refer to the Massachusetts Heritage Landscape Inventory Program, Boxford Reconnaissance Report. Abbreviations and symbols used here:

*	Priority Landscape
APR	Agricultural Preservation Restriction
BTA/BOLT	Boxford Trail Association/Boxford Land Trust
CR	Conservation Restriction
LHD	Local Historic District
NR	National Register
OSRP	Open Space & Recreation Plan
PR	Preservation Restriction
TTOR	The Trustees of Reservations

Burial Grounds and Cemeteries

Brookside Cemetery | Main St.

In West Boxford Village. Old West Parish Burial Ground. From 1838.

Civil War Grave | Off Great Pond Rd.

This grave is reported to be in a Boxford “meadow” off Great Pond Rd. This “meadow” now woods is owned by the town.

Harmony | Ipswich Rd.

From 1717. Near the site of former Schoolhouse #3 and near Kelsey Road.

Killam Cemetery | Endicott St.

On the Masconomet Regional Junior & Senior High School property, next to Rt. 95.

Mt. Vernon Cemetery | Mt. Vernon Rd.

Just west of Main Street, this 1716 cemetery is framed by a high stone wall with a small iron gate entrance. Markers are marble and granite, with some slate in the earlier section.

Old Burial Ground | Main St./Mill Run

From 1693. Expansion of Boxford Village NR and LHD to include this burial ground is recommended in OSRP. Clean up and maintenance plan done in 2003 as part of an Eagle Scout project.

Russell Cemetery | Bald Hill

Family burial ground from the Revolutionary War with three graves from that period.

Village Cemetery | Georgetown Rd.

NR, LHD. On land that is site of first meetinghouse, now opposite First Congregational Church. Land donated by Asa Peabody in 1807.

Industrial

Chadwick Mill | Main St.

This 1.5-acre site, owned by the Boxford Trail Association/Boxford Open Land Trust (BTA/BOLT) is near Hovey’s Pond. Has a mill race and the original mill stone.

Howe’s Pond Mill | Fish Brook

Once a grist mill followed by a sawmill, the site has been converted into a Japanese garden. A small mill building with a wheel was reconstructed as part of the garden. A new bridge, completed in 2004, carries Mill Road over Fish Brook at this mill site.

Lockwood’s Grist Mill | Lockwood Lane

On Fish Brook the site of this grist mill is next to the Rowley Village Forge Site. This site is marked by a metal turn wheel still standing in Fish Brook mill race.

Lowe’s Pond Mill | Off Depot Rd.

Once known as the Chapman Sawmill and later as Killam’s, the site on Pye Brook includes a raceway, a dam, the mill pond called Lowe’s Pond. It is near the old railroad station which was used to ship lumber. The dam has been reconstructed and the mill race is evident; however, no buildings remain.

Match Factory (John Boardman House) | 6 Lawrence Rd.

Located on Fish Brook is the superintendent’s house which also served as a dormitory. The factory building, the dam and the pond no longer exist.

Morss Mill Site | Lake Shore Rd.

This mill site is within the agricultural preservation restriction area of the Morss Berry Farm.

Pye Brook Mill | Georgetown Rd.

Part of the stonework of the mill remains as evidence of the early history.

Rowley Village Forge Site* | Lockwood Ln.

See Priority Heritage Landscapes in Report. Bloomery included at the site.

Natural Features

Baldpate Pond | Boxford State Forest

The view of this pond from Great Pond Road or Baldpate Road, is one of the more spectacular views in town.

Cole's Pond | Main St.

The pond is on the northeast side of Main Street near West Boxford Village. The pond's features are a significant beaver dam, many lily pads and invasive plant material. Pond contributes to the Parker River.

Fish Brook

Viewed from Middleton Road. Headwaters include Mosquito Brook in North Andover, and Stiles and Towne ponds in Boxford.

Hovey's Pond* | West Boxford

See West Boxford Village in Priority Heritage Landscapes in report.

Ipswich River

Off Endicott St. Along the southern border of Boxford through the Masconomet Regional School property.

Johnson's Pond

Most of pond is in Groveland & Haverhill. Boxford's zoning regulating development at pond edges is more restrictive than regulations in abutting communities, particularly Haverhill.

Kimball Pond | Main St.

Located north of Sheffield Rd. One of the ponds that is drained by Fish Brook and contributes to the public water supply of the Ipswich River.

Low Pond | Off Depot Rd.

Connected to Pye Brook – See Industrial listings above.

Parker River | Along Rt. 133

Habitat for endangered turtle species, Blanding's Turtle.

Pye Brook

Viewed from Depot Road. Flows through Lowe Pond. Originates at Four Mile Pond.

Spofford Pond

Between Ipswich & Spofford Rd. The Pond is threatened by nitrogen loading due to septic systems along the shore.

Stevens Pond

South of Ipswich Rd. Most of the surrounding 22 acres of land is protected under the ownership of BTA/BOLT. There are a few privately held house lots with water frontage.

Stiles Pond* | Main St.

See Priority Heritage Landscapes in Report.

Towne Pond

Part in North Andover. Located in the southwest corner of Boxford. Zoning is an issue with denser allowances along the North Andover shores of the pond.

Open Space – Parks.

Chadwick Mill | Main St. West Boxford

Owned and managed by BTA/BOLT (see BTA/BOLT guidebook for details).

Cleveland Farm State Forest | Rowley Rd.

CR protecting 17 acres. Owned and managed by DCR. Within the State Forest a key feature is the (former) Haynes Property Esker system.

Haynes Recreation and Conservation Area | Middleton Rd.

75 acres of woodlands, meadows, trails, as well as walking paths, play structures, and athletic fields. The Town holds the CR on 57 acres of the area.

Kelsey Arboretum | 18 Kelsey Rd.

This property is named for landscape architect Harlan P. Kelsey (1872-1958). The Arboretum was planted in 1929 as a display garden for Kelsey-Highlands Nursery. It is now owned by Kelsey Condominium Assn and open from dawn to dusk. The Horticultural Society of Boxford was formed to hold the CR. It is a stop on the Bay Circuit Trail.

Nason Conservation Land | Washington St. West Boxford

46 acres on Hovey's Pond, with trails and spectacular views of the Pond.

Round Top* | Round Top Rd.

At Chapman Way. See Priority Heritage Landscapes in Report. Camp Curtis Guild.

Wildcat Conservation Area | Herrick Rd.

Off Ipswich Rd. Located southwest of Stiles Pond, the 319.2 acre Conservation Area is town owned and under the jurisdiction of the Conservation Commission. It was originally taken by the Town for water resource protection. The vicinity has been identified as having archaeological potential. Historically the land was pasture, woodlots and orchards. White pine was harvested by the Diamond Match Factory at the end of the 19th century. Now the area is wetlands and wooded uplands.

Witch Hollow | Main St. & Ipswich Rd.

Town owned property under Conservation Commission. The 1690s meadow is planted with native deep meadow/prairie grass which has 6' to 20' roots into ground providing a fine habitat for wildlife, especially grassland birds.

Transportation

Bay Circuit Trail

The trail passes through Boxford and is an important part of the town's trail system.

Railroad Right-of-Way

The railroad right-of-way has been partially developed into a rail trail.

Scenic Roads*

See Priority Heritage Landscapes in Report. Rural character of roadside views.

Walking Trails

BTA/BOLT maintains a system of trails for passive recreation through the efforts of volunteers.

6 - Areas of Critical Environmental Concern (ACEC)

This section is typically a special listing of areas that directs state environmental agencies to review projects under their jurisdiction and preserve the resources of that particular area. None are currently listed in Boxford. However, there are similar programs that both the Commonwealth and the town can utilize in protecting these valuable resources.

In the Riverways Program, Division of Fisheries and Wildlife has cited Fish Brook as one of the critical resources needed to protect the Ipswich River Watershed. The objective should be to establish an overlay plan identifying properties and areas on the brook worthy of permanent protection, or a Best Management Plan should be established. To protect water quality and quantity, Pye Brook and the Parker River, also sensitive regional resources, should have areas designated for protection in addition to the Rivers Protection Act regulations. Greenways are deeded, protected areas along rivers that can help connect dispersed open space parcels. Although there is no formal Stream Team to monitor Pye Brook, the Parker River has its own Clean Water Association of volunteers to monitor river changes each month. In addition, the Ipswich River Watershed Association has a volunteer River Watch group that monitors two sites along Fish Brook: one site at Fish Brook by Middleton Road and the other at Fish Brook by Washington Street in Topsfield. Volunteers monitor water-quality parameters such as temperature, water clarity (turbidity), and dissolved oxygen content. Data collected over the past eight years is available from the IRWA's website.

About 14% of North Andover's Lake Cochichewick watershed is located in Boxford. Most of this land is under agricultural use or is unprotected, privately owned open space.

The City of Haverhill has some rights over Johnson's Pond for secondary water supply purposes. Haverhill also has certain rights over Hovey's Pond and Chadwick Pond, as they both feed into Johnson's Pond. In 2020, the town acquired 14.54 acres of conservation land on Hovey's Pond, thereby helping to fill in a contiguous wildlife corridor around the pond and to the Boxford Town Forest. Most of this corridor is accessible to the public. Pond Watershed Overlay Districts were adopted by the town to provide protection to Stiles, Baldpate and Hovey's Ponds in 1996.

There are extensive areas of Estimated Habitats of Rare Wildlife listed with the Commonwealth's Natural Heritage and Endangered Species Program located in Boxford. Similar to the Areas of Critical Environmental Concern (ACEC) along coastlines, Natural Heritage is primarily concerned with wildlife species that are of special concern, threatened or endangered. These areas are reviewed by them and are under the jurisdiction of the Massachusetts Endangered Species Protection Act.

G - Environmental Challenges Hazardous

1 - Waste and Brownfield Sites

According to information from the MassDEP, there have been 30 oil and hazardous waste releases to the environment identified in Boxford. Many of these involved a release of petroleum products (gasoline, fuel oil, etc.) from leaking underground storage tanks or tank overfills, transformer oil leaks or minor releases from vehicle accidents. The Boxford landfill is listed among the sites and has achieved A2 Response Action Outcome (RAO) status ("A permanent solution has been achieved. Contamination has not been reduced to

background”). All except the most recent site, a truck accident-related spill on Ipswich Road in July 2022 have achieved some form of compliance status. The town is currently working with the truck owner and its Licensed Site Professional to achieve compliance for this recent spill.

2 - Landfill

The Boxford landfill operated from 1944 to 1998 and is located on municipally owned land near the Town Hall/Police Station/Department of Public Works complex near the intersection of Spofford Road and Ipswich Road. The landfill has been capped in accordance with a landfill closure plan approved by the MassDEP. The town is in negotiations with the MassDEP on approval of the final closure of the landfill. A series of monitoring wells have been installed around the landfill as part of the closure plan. Test results from these wells indicate exceedances of arsenic drinking water standards in some but not all wells. An analysis by Weston and Sampson, the town’s consultant, suggests that this arsenic is from natural sources in the bedrock rather than landfill leachate.

In cooperation with adjacent towns, Boxford also holds hazardous waste collections on an annual basis to allow residents to safely dispose of waste solvents, paint, pesticides, etc. The recycling and hazardous waste collection activities, as well as the landfill capping, help to protect the Boxford’s groundwater and drinking water resources. The OSRP results reiterate that protecting groundwater and water supplies continue to be an issue of great concern to the town’s residents.

3 - Erosion and Sedimentation

Environmental quality is diminished through erosion and permanent soil loss which reduces the land’s capability to restore its vegetative cover. Erosion may present a problem on construction sites and on properties with steep inclines. Sedimentation refers to the accumulation of mineral or organic matter deposited by water, air, or ice. When sediment accumulates it alters the characteristics of the area or water body where this occurs. Sedimentation can affect water depth, surface area, circulation patterns and flow rates, which can impact water quality. Sedimentation can also reduce the capacity of wetlands to absorb water.

The Boxford Conservation Commission reviews, permits, and monitors construction projects under the Wetlands Protection Act, Boxford’s Wetlands Protection Bylaw, and Boxford’s Stormwater Management Bylaw, as applicable, to ensure that appropriate mitigation measures are followed to minimize erosion and sedimentation. There are numerous other examples of town review and approval of construction projects. The Board of Health reviews and approves construction projects that involve the transport on or off site 500 cubic yards of earth or more. Driveway projects are reviewed and approved by the Planning Board. Projects involving town rights-of-way are reviewed and approved by the Select Board and/or the DPW Superintendent. The ZBA reviews projects that require special permits of site plan review. Wells and septic systems require Board of Health review. In short, there are very few projects involving significant disturbance of the earth that do not require some sort of review and approval by the town.

4 - Chronic Flooding.

Boxford’s abundance of wetlands helps to mitigate most high-water events due to large storms and spring snow melts. FEMA’s Floor Insurance Rate Map (FIRM) shows that the flood hazard zones are predominantly limited to the river valleys and areas around ponds. Property bordering Four Mile Pond has been identified as an area that is regularly impacted by flooding. The flooding is due to lack of holding capacity at Lowe Pond Dam, which requires that flood waters during large storms be stored upstream at

Four Mile Pond. This issue should be addressed as part of a watershed management program for Pye Brook and Lowe Pond Dam.

5 - New Development

Most new development has some impact on the environment although many of these impacts can be minimized by enforcement of federal, state and local regulations. Impacts occur during construction as vegetation is altered, and topsoils are disrupted allowing wind, rainfall and snowmelt to trigger erosion and sedimentation. Ongoing impacts of development are an increase in impervious surfaces which can contribute to reduced groundwater recharge and increased storm water runoff, pollution from construction and industrial processes, and loss of open space, vegetation and tree canopy.

At the Spring Annual Town Meeting in May 2006, the town adopted a Stormwater Management Bylaw that authorized the Conservation Commission to promulgate such regulations for construction sites covering at least one acre and located within the designated “Urbanized Area” as determined by the U.S. Census Bureau. These threshold requirements reflect the minimum requirements of the National Pollutant Discharge Elimination System (NPDES) program. The Conservation Commission adopted regulations in the fall of 2007 and have expanded/updated the regulations several times since. As currently drafted, a complete application for a Stormwater Management Permit from the Conservation Commission would include a Stormwater Management Plan, a Hydrology Report demonstrating compliance with the MassDEP policy, and an Operation and Management Plan. To date there have been seven projects reviewed under the Stormwater Management Plan requirements.

6 - Impaired Water Bodies

Under the federal clean water act states are required to monitor and assess the quality of their surface and groundwater. Waters are evaluated on their capacity to support their designated uses that are defined in the surface water quality standards. Waters must be evaluated for their attained uses and impairments and placed in one of the following categories: 1-unimpaired and not threatened for all designated uses, 2-unimpaired for some uses others not assessed, 3- insufficient information to make assessments for any uses, 4-impaired or threatened for one or more use but not requiring a TMDL (Category 4b indicates that the water body is expected to attain all designated uses through pollution control measures. Category 4c indicates that the impairment is not caused by a pollutant. These impairments are often caused by noxious aquatic plants or exotic species), 5-impaired or threatened for one or more use requiring TMDL.

The following table shows waters in Boxford that have been evaluated for uses and impairments from the Massachusetts 2018-2020 reporting cycle Integrated List of Waters. It should also be noted that no water bodies in Massachusetts were designated as category 1 because of a statewide public health advisory on fish consumption.

Table 11. Evaluated Waters for Uses and Impairments in Boxford

Water Body	Category	Attained Uses	Impairments
Baldpate Pond	5		Curly Leaf Pond Weed, Fanwort, dissolved oxygen, mercury in the fish tissue

Chadwick Pond	5	Mercury in Fish Tissue
Fish Brook	5	e-coli
Four-Mile Pond	3	
Hovey's Pond	5	Mercury in Fish Tissue
Ipswich River	5	Dewatering, dissolved oxygen, mercury in fish tissue
Johnsons Pond	5	Mercury in Fish Tissue, Dissolved Oxygen
Kimballs Pond	3	
Lowe Pond	5	Non-native aquatic plants, Mercury in Fish Tissue
Lower Four Mile Pond	4c	Non-Native Aquatic Plants
Mill River	5	Fish passage barrier, water chestnut, algae, non-native aquatic plants
Parker River	4c	Dewatering, fish passage barrier
Penn Brook	5	Benthic macroinvertebrates, dissolved oxygen
Sperry's Pond	3	
Spofford Pond	3	
Stevens Pond	4c	Non-Native Aquatic Plants
Stiles Pond	3	
Towne Pond	3	

Table 8. Evaluated Waters for Uses and Impairments in Boxford.

7 - Dams

In Boxford there are eleven dams identified in Boxford by the state office of Dam Safety. Of these, only Stiles Pond Dam and Howes Pond dam are identified as being of “Significant Hazard”.

Stiles Pond Dam is a 170 ft long earth embankment with a reinforced concrete wall forming the center 100 ft. The spillway of the dam is a reinforced concrete block culvert. Inside of this culvert there are stoplogs which establish normal water levels in the pond. The earthen portion of the dam was substantially repaired and improved in 2014 with the addition of clay and rip-rap to the areas that were seeping or eroding. A dam management plan has yet to be completed for this dam.

Howe Pond Dam is privately owned and first build in the 1700's. The dam has been repaired many times since then. The dam consists of three channels. The main dam, which is in the center, is approximately 100 feet across. To the right and to the left of the main structure there are two spillways, the larger of which is on the left. Both of them experience intermittent flow at some points during the year. The dam and surrounding areas are well maintained by the homeowner.

There are also three dams identified as “Low Hazard” in Boxford: Lowe Pond Dam, Four Mile Pond Dam, and Baldpate Dam. Lowe Pond Dam is a privately owned dam which was created in the 1950's. The dam was rebuilt in the 1970's and is comprised of two structures, an earthen dam and a concrete weir. The earthen portion of the dam is 137 feet long and the concrete weir is 53 feet long. Maintenance of this dam consists mostly of controlling erosion and vegetation management. This dam constricts water flow downstream in Pye Brook in the summer months. Floodwaters have been known to threaten the earthen part of the dam, requiring emergency assistance from the town to prevent overtopping. To ameliorate this

hazard, town officials, acting under emergency powers, have at times stored floodwaters upstream of Four Mile Pond during large storms. This emergency action unfortunately increases the risk of flooding to property bordering Four Mile Pond. This issue should be addressed as part of a watershed management program for Pye Brook.

Four Mile Pond Dam is a privately owned dam located at the outlet of Lower Four Mile Pond on Georgetown Rd. The dam outlet is a concrete structure with two spillways that are approximately 5 feet wide. There is a center concrete post between the two spillways. This dam was significantly repaired in 2022 by replacing spalled concrete on the piers.

Baldpate Pond Dam, shown on the state GIS map as being in Boxford, actually consists of a large concrete culvert under a former railroad causeway at the eastern end of Baldpate Pond in the town of Georgetown. The causeway is planned to be part of the Border to Boston “rail-to-trail” recreational trail project.

Other dams of interest include Lockwood Dam. This dam is located on lower Fish Brook and is the first impoundment of Fish Brook as you move up stream from the Ipswich River. The dam dates from the 1670’s. A portion is owned by the town while the other portion is privately owned. The dam is constructed of iron plates that are driven across the brook. The dam is approximately 60 feet wide and holds back approximately 2½ feet of water. The dam was repaired in the fall of 2007.

In addition to the dams noted above, barriers to fish passage have been noted in two culverts along Fish Brook: one where Fish Brook goes under Towne Road and the other where Fish Brook goes under Main Street. Should these culverts need replacement they would need to comply with current stream crossing requirements that provide fish and wildlife passage.



Figure 4. Stile Pond Dam.

8 - Invasive Species⁴

Invasive plants, those that grow rapidly and are difficult to remove or control once established, are often threats to forests and wetlands. When invasive species take over large areas of habitat, ecological processes are changed. Often invasive species force out native species that provide food and habitat for local species. Plants that have been identified as being a threat to Massachusetts forests include such commonly seen plants as Norway Maple (*Acer platanoides*), Sycamore Maple (*Acer pseudoplatanus*) Japanese Barberry (*Berberis thunbergii*), Multiflora Rose (*Rosa Multiflora*), Garlic Mustard (*Alliaria petiolata*), Japanese honeysuckle (*Lonicera japonica*) and Common Buckthorn (*Rhamnus carthartica*) among others.

Some commonly found invasive species that pose the greatest threat to wetland, floodplain and streambank communities include Phragmites or Common Reed (*Phragmites australis*), Glossy Buckthorn (*Rhamnus frangula*) and Yellow Iris (*Iris pseudocorus*). Recently, infestations of Japanese Hops (*Humulus japonicus*) have also been observed overtaking recently disturbed areas.

⁴ Taken from a list of plants identified by the Massachusetts Invasive Plants Advisory Group.
<http://www.massnrc.org/mipag/invasive.htm>.

9 - Forestry Issues

Forests are important for providing wildlife habitat, regulating climate and assimilating pollution, protecting water supply and quality, mitigating flooding and retaining soils. Forests also have important aesthetic and recreation value, adding greatly to quality of life. Forests face multiple threats from invasive plant species (see above) and pests including the Asian longhorned beetle, Emerald Ash Borer, Gypsy moths and Winter moths. Limiting development within forested areas and monitoring and managing forests within the towns protected open spaces is important to ensure the long-term sustainability of Boxford's forests and the benefits they provide.

10 - Environmental Equity

Environmental equity refers to issues such as equal access to open space, lack of tree cover or other differences a person endures in one's environment based on that person's inclusion in a population identified as an environmental justice population. Environmental justice populations are those with high percentages of minority, non-English speaking, low-income, and foreign-born populations. There is no environmental justice population as identified by the state in Boxford.

Environmental equity also refers to the ability of all users, regardless of where they live in a community, to access open space. Boxford's open space resources are distributed throughout the town providing opportunities for access with relative ease for all, from Boxford and surrounding communities.

Section 5 - Inventory of Lands of Conservation and Recreation Interest

Open Space is important for protecting groundwater and drinking water, wetlands, wildlife habitat and preserving forests. Open Space also serves passive and active recreational needs in providing parks, playgrounds, access to water, trails and athletic fields for the varied recreational interests of residents and guests. Whether preserved and managed for resource protection or passive or active recreation, Open Space contributes to the rural character of the town.

The current Inventory of Lands within the Town of Boxford is included in this section. The inventory contains two (2) categories as defined by the Massachusetts Division of Conservation Services: Protected Lands that are protected in perpetuity from development and Unprotected Lands that are not protected from development. Note that lands owned by the State or the town that do not carry a conservation restriction are included in the list of Unprotected Lands as these lands could be used for the construction of town buildings or other uses, or sold to private developers, unless their purchase was funded either by the Boxford Open Space Bond or CPC Open Space Funds. All Unprotected Lands (not protected by deed restriction or funding mechanism) are at risk of being converted to a use other than open space.

The Inventory of Lands Within the Town of Boxford also includes Parcels of Interest which are lands identified as acquisition and/or preservation priorities of the town based upon the results of community input and on the consideration of the town's most sensitive and vulnerable resources including lands identified as core habitat and critical landscapes.

Protected Lands are shown on the Open Space Inventory Map (Appendix I) and contained within a matrix in Appendix II. Data for the spreadsheet were obtained from the local Assessor's Office. Protected Lands include the following:

- State-owned Open Space
- Municipally owned Open Space
- Privately-owned Open Space – Lands owned by BTA/BOLT, Inc., Essex County Greenbelt, lands with Conservation Restrictions (CR) and Agricultural Preservation Restrictions (APR)

The Open Space Inventory Map (Appendix I) also includes Unprotected Lands that are Public Lands and Private Lands that are subject to development and not permanently protected. They include:

- State Lands
- Municipal Lands
- Chapter 61, 61A or 61B
- Institutional and Non-Profit Properties
- Rail/Utility ROW
- Other Private Property Parcels

In addition to the categories of lands listed above, the Open Space Inventory Map includes lakes, ponds, streams, rivers and wetlands and Historic District boundaries.

A - Protected Lands

Protected Lands includes land owned by the state, town, BTA/BOLT, Inc., Essex County Greenbelt Association and Conservation and Agricultural Preservation Lands (Appendix II). These lands have a

conservation deed restriction and/or are protected by Article 97 of the Articles of Amendment to the State Constitution that protects lands acquired for the preservation of resources or for recreational purposes from development unless five (5) actions are met, including a 2/3 vote by the State Legislature to change use. While conversions of Article 97 land do occur, the process is purposefully onerous in order to provide the most stringent protection possible. Deed restricted lands are protected in perpetuity.

1 - State Lands

Based on assessor records there are 1,371 acres of state-owned and protected land in Boxford. State-owned lands include Baldpate Pond State Forest, Cleveland State Forest, and Boxford/Rowley/Georgetown State Forest owned by the Department of Conservation Services and Phillips Wildlife Sanctuary owned by the Division of Fisheries and Wildlife. All state-owned protected lands are open to the public for recreational purposes.

2 - Municipal Lands

The Town of Boxford owns approximately 1,184 acres of protected land for conservation and recreation purposes. Primary parks and open spaces include:

Wildcat Conservation Area | 319 acres

Forested conservation land with maintained trails for hiking, horseback riding, and mountain biking. Contains several ecologically significant environments. The wetlands feed into the nearby Stiles Pond, Fish Brook and Pye Brook.

Wunnegen Conservation Area | 135 acres

Home to a number of rare and endangered species. The terrain is woodlands, wetlands, small streams, and uplands.

Town Forest | 60 acres

Consist primarily of hardwood trees with some evergreens. There is an extensive beech grove in the southern parcel. The forest provides habitat for wild turkeys, deer, and a large variety of songbirds and vernal pond species.

Lockwood Forest | 100 acres

Includes frontage on both banks of Fish Brook, a tributary of the Ipswich River, and abuts over 2,000 acres of existing conservation land. Home to a variety of native and exotic plants. The property provides habitat for herons, ducks, geese, red tailed hawks, deer, fox, wild turkeys, coyotes, otter, fisher and possibly bobcat.

Anvil Farm | 28 acres

Consists of forests, fields, streams, hills, an esker, a beaver pond and a vernal pool.

Millbrook Farm | 11 acres

Grazing land, with trail leading to private wooded trails. A variety of birds can be found along with beaver, otter, and mink.

Stiles Pond Field and Beach | 7.7 acres

Pond beach area, shaded area with picnic tables.

Boy Scout Park | 22 acres

Mixed use playing fields and meadow. Natural features include Fish Brook, woods, fields, gravel and sand beds.

Haynes Field | 5 acres
Open meadow; hayed.

Haynes Land | 75.5 acres
Purchased with CPC funds from 3 sources; Conservation Land, Recreation Land and Community Housing. Purchased for athletic fields, community housing and open space; largely mixed woodland, pond, stream.

Hovey's Pond Meadow | 8 acres
Wetland on Hovey's Pond; bird habitat.

Lord Woods | 31.5 acres
Mixed woodland; stream.

Lord Forest and Fields | 34 acres
Mixed woodland, planted evergreens, "Fairy Ring", grazing pasture.

Nason Conservation Land | 45 acres
Mixed woodland, overlooking Hovey's Pond; power lines, providing bird habitat.

Whitney Woods | 10 acres
Mixed woodlands, trail.

Witch Hollow Farm | 17 acres
Open, wet meadowland, managed for native grasses and bird and wildlife habitat; hayed once a year.

Cargill Fields | 14.5 acres
Hay land and mixed forest fronting on Fish Brook.

Davis Hayfield | 4.5 acres
Hay land.

Bergstrom Land | 14.5
CR held by ECGA

3 - Non-Profit Lands

There are two nonprofit land preservation organizations in Boxford.

The Boxford Trails Association/Boxford Open Land Trust (BTA/BOLT, Inc.) is a volunteer private, nonprofit, organization dedicated to conserving and protecting environmentally and aesthetically important land and habitat, including fields, forests, wetlands, and trails, preserving the nature of Boxford. BTA/BOLT, Inc. owns 262 acres within Boxford including among others:

Ericson Woods | 15 acres
Abutting Lord's Woods, stream and woodlands.

Fish Brook Parcel | 15 acres
Wetland which abuts Fish Brook property owned by ECGA.

French Family Woodlot | 15 acres
Suburban trails, part of Bay Circuit Trail. Steven's Pond Wetland | 22 acres) A large pond surrounded by wetland vegetation. Alpers' Woods | 14 acres) On Stiles Pond, trails and a boat landing.

Owen Land | 15 acres
Abuts the Lockwood Forest.

Perkins' Woods | ~18 acres
Meadow and woodland trail.

Potters Farm and Barker's Property | 76 Acres combined
Mixed forest, several vernal pools, wetlands, hemlock groves, trails, power line habitat. Several endangered species can be found here including Blanding's turtles, blue spotted salamanders and box turtles.

Shaven Crown Hill | 35 acres
Open meadow leading into forested trail, including woodlands, wildlife and vernal ponds.

Townsend Farm Parcel A | ~12 acres
Wetland in a subdivision.

The Essex Country Greenbelt Association (ECGA) is a nonprofit land trust dedicated to preserving the open space heritage of Essex County. ECGA owns around 455 acres within Boxford, including the following:

Carter Fields | 85 acres
Part of the Lake Cochichewick watershed, North Andover's sole source of drinking water. A large blue-heron rookery becomes active in May and June, as up to 70 pairs of herons create annual nests at this site.

Ingalls Memorial Wetlands | 31 acres
Wetlands within Ingaldsby Farm abuts 88 acres CR held by ECGA within Ingaldsby Farm.

Price Reservation | 88 acres
Includes the features of a classic northeast woodland; mixed stands of hardwoods and softwoods across a rolling landscape, frontage on Towne Pond, a shallow farm pond teeming with wildlife and a brook that flows out of Towne Pond and through a large wetland where beaver are active.

4 - Deed Restricted Lands

The Town of Boxford Conservation Commission (Cons Com), BTA/BOLT, Inc., ECGA, the state and the Mass Farm Bureau all hold deed restrictions on privately held properties to protect them in perpetuity. Together, these restrictions protect over 750 acres. For a full list of deed restricted lands see Appendix II. Some of the larger or more visible properties protected by deed restrictions in Boxford include:

- Alderbrook Farm (70 acres) -APR by State Department of Agriculture
- Anvil Farm (28 acres) - APR by Mass Farm Bureau
- Cargill Fields (14 acres) - CR held by BTA/BOLT
- Cleveland Farm (30 acres) – CR held by ECGA
- Coolidge 100-Acre Woods (85 acres)- CR held by BTA/BOLT
- Davis Hayfield (4 acres) - CR held by BTA/BOLT
- Hills Property (22 acres) - CR held by BTA/BOLT
- Ingaldsby Farm West Forty (40 acres) -APR by Mass Farm Bureau
- King Tree Farm (24.7 acres)- CR held by ECGA
- Lord Property (64 acres) -CR held by Cons Com and ECGA
- Morss Berry Farm (125 acres) -APR by State Department of Agriculture
- Price Property (88 acres) -CR held by BTA/BOLT
- Shaven Crown Property (40 acres)- CR held by ECGA
- Smolak Farms (50 acres) – CR held by Cons Com
- Town Forest (60 acres)- CR held by BTA/BOLT

B- Unprotected Lands

Unprotected Lands include both public and private lands, including lands that have partial or temporary protection. Unprotected Lands are at risk of a change in use including development and include the following.

2 - Municipal Lands

Unprotected town-owned lands are lands that do not have a conservation restriction and are not protected by Article 97. They include school properties, and other lands serving municipal purposes, gifted lands, and tax title lands. Unprotected town-owned lands can be developed or sold with approval by Town Meeting.

3 - Chapter 61

Private landowners can manage their properties for Open Space purposes and benefit by a reduced property tax under three distinct special taxation programs: State Chapter 61 (forestry), Chapter 61A (agriculture) and Chapter 61B (recreation). These classifications do not provide permanent protection as the landowners can withdraw their properties from these programs at any time. If these properties are offered for sale while within the program, the town has a ‘right of first refusal’ to purchase the property within 120 days after a purchase and sale agreement for the property has been signed by a private buyer. Based on assessor’s data, there are 1,694 acres within Chapter 61 tax abatement programs in 2023.

Institutional and Non-Profit unprotected properties include a number of camps, cemeteries and church properties including Camp Sackajawea, Camp Rotary, and Far Corners Golf Club. These lands can be developed or sold.

4 - Rail/Utility Rights of Way

National Grid owns the right of way formally known as the Newburyport Branch of the Boston and Maine Railroad. A long-term lease is being considered so that the right of way can be used as an extension of the proposed northern branch of the Borders to Boston Trail connecting Danvers to Salisbury.

There are utility corridors throughout Boxford that are used for hiking, biking and wildlife corridors. These Rail/Utility Rights of Way can be developed or sold, unless there is a successful lease.

C - Parcels of Interest

In the winter of 2023, a town wide Open Space and Recreation Survey was conducted to assess among other things, the acquisition and protection priorities of the town. As a point of reference, the following percentages of respondents classified the following as **Important** or **Very Important** in the survey (Appendix III):

- 93% to continue to acquire land to protect groundwater and drinking water resources
- 84% to continue to acquire land to protect wildlife habitat
- 85% to continue to acquire land to protect forests
- 70% to continue to acquire land to protect farmland/agricultural land
- 49% to acquire land for active recreation needs
- 80% to acquire land for passive recreation needs
- 80% to continue to acquire land to protect the scenic/ rural character of the town
- 45% to provide paved bike paths
- 41% to provide bike lanes

- 71% to provide Rail Trail
- 43% to provide sidewalks in town centers
- 58% to provide sidewalks around schools

The Open Space and Recreation Committee has determined that Questions with 59% or higher rating should be targeted for Protection or Acquisition. The criteria for land preservation and land acquisition are defined as:

1. Protection and acquisition of lands that protect the groundwater and drinking water resources. Many of these parcels are located along riparian areas along the two major rivers in Boxford: The Parker River and Fish Brook.
2. Protection and acquisition of lands along major road corridors to preserve the rural character of the town. Major road corridors are:
 - Elm Street
 - Georgetown Road
 - Herrick Road
 - Ipswich Road
 - Lawrence Road
 - Main Street
 - Middleton Road
 - Rt 133/Washington Street
 - Rt 97
 - Topsfield Road
3. Identification of lands that are over 10 acres for:
 - Protection of wetland and wildlife habitat
 - Protection of forests and woodlands
 - Protection of real estate values
 - Active recreation
 - Passive recreation
 - Protection of farm/agricultural land

D - American with Disabilities Act (Holly and Mary-Ann are working on this)

Refer to Appendix IV: Section 504 Self-Evaluation of Handicap Accessible Open Space. Refer to Section 9 – Seven Year Action Plan for planned accessibility improvements.



Figure 5. Girls softball, Johnson Field.

Section 6 - Community Vision

A - Description of Process

The Board of Selectmen appointed the Open Space and Recreation Committee of five people at the end of 2022 to update the 2016 Open Space and Recreation Plan. After reviewing the previous plan and reviewing the Massachusetts Division of Conservation Services guidelines for Open Space and Recreation plans, the committee developed a survey that was distributed to all 2,758 households in Boxford.

In addition to compiling the results of the 410 completed surveys (a response rate of approximately 15% of households), the committee also asked for a written statement of need and/or held discussions with the following committees or groups:

- Agricultural Committee
- Board of Health
- Board of Selectmen
- Boxford Athletic Association (BAA)
- Boxford Recreation Committee
- Boxford School Committee
- Conservation Commission
- Masco Youth Football and Cheerleading
- Planning Board
- Tribal Lacrosse

Letters outlining the objectives of interested parties are included in Appendix III of this report. The goals outlined in this report reflect the discussions the committee had with members of boards, committees, groups and the community through various outreach efforts and the data collected from the community-wide survey.

B - Statement of Open Space and Recreation Goals

Boxford continues to be a town that many cherish for its rural character and open space. Over the past two decades, the town and local land trust organizations have been successful in acquiring many open space lands, helping to preserve the rural character of the town. The survey results indicate that preservation of open space continues to be an important priority for a majority of town residents

Over 96% of residents say their highest priority is the preservation of open space to protect groundwater and drinking water resources, which was also the highest priority in the previous 2008 and 2016 surveys. Other important priorities include preserving the rural character of the town, protecting wildlife habitat, preserving forests and protecting farmlands (cited as very important or important by at least 84% of respondents). 88% residents also place high importance on preserving or improving open space to use for passive recreation (i.e., hiking), while 55 % place high importance on preserving or improving open space to use for active recreation (i.e. fields) in the 2023 survey.

Based on the input received, the Committee recommends that Boxford continue to preserve/improve open space with the highest priority given to the following:

- Preserve and Protect:
 - Groundwater and drinking water resources.
 - Wetlands and wildlife habitat, including riparian areas and wildlife corridors.

- Lands along major road corridors to help preserve the town's rural character.

As Boxford is a small town that relies on groundwater and other water resources for drinking, with limited secondary infrastructure, it is essential to keep these structures safe. Further, maintaining the town's unique and valuable wetland and wildlife habitats, as well as rural character, is of importance.

- Identify parcels of land over 10 acres for:
 - Preservation of forests
 - Preservation of farm/agricultural land.
 - Passive recreation.

Preserving large parcels of land in Boxford to maintain their historic uses will aid in maintaining the town's overall rural character and preserving its valuable natural resources.

- Acquire land for passive recreation.

Many citizens identified a need for more expansive passive recreation facilities in Boxford in their survey responses. Expansion of these parcels will ensure that Boxford residents have equitable and frequent access to passive recreation and immersion in nature, while also ensuring Boxford's rural character is maintained.

- Improve roadside safety for walking and biking.

Boxford is an active community which takes advantage of its existing trail network for biking and walking. Continuing to grow and maintain this network, while ensuring residents are safe from vehicular traffic will result in higher quality use of this recreational resource

- Build awareness of existing open space and recreation resources.

While many Boxford residents take part in outdoor recreation, it is essential to remind residents and inform new residents of the town's offerings. Building messaging around available recreational resources will ensure all community members are aware of their recreational opportunities.

The members of this Committee press upon the Selectmen, Town Manager, Committees, and Boards to invest in quality of life by implementing initiatives that achieve the goals set forth in this report.



Figure 6. Witch Hollow, Ipswich Road.

Section 7 - Analysis of Needs

A - Summary of Resource Protection Needs

As can be seen from the preceding sections, Boxford's residents enjoy a wide variety of natural attributes. There are open fields, woodlands and wetlands that support both flora and fauna. Recreational opportunities include trail systems on both public and private lands that allows residents and visitors to take advantage of the outdoors. There are several ponds with public access for canoeing, fishing and swimming. There are many miles of roads in town, providing recreational opportunities for cyclists and joggers, though review of the survey results and comments indicated that traffic volume and speed are a widespread concern. Even though the town does own or manage many open spaces for use in a variety of ways (active recreation, passive recreation, etc.), survey results indicated interest in further acquisition and preservation of Boxford's unprotected open space parcels and its natural resources. The natural features and landscape of Boxford contribute greatly to the town's rural character, which the survey indicated a very strong desire to preserve.

As in previous surveys, the 2023 survey indicated a strong desire on the part of the town's residents to protect Boxford's natural resources. Over 90% of survey respondents felt it was either important or very important to preserve or acquire open space to protect the town's groundwater and drinking water resources. Given that all households in town have private wells to supply drinking water, it is gratifying to see the residents' realization of the importance of protecting drinking water resources. Efforts by the Board of Health and Conservation Commission continue to place a high priority on protecting groundwater and drinking water resources. The Ipswich River Watershed Association as well as Friends of the Parker River also operate on Boxford's behalf, by monitoring water quality and reducing withdrawals from stressed surface water bodies.

Over 80% of survey respondents felt it was important or very important that the town has acquired open space to protect wildlife habitat and forests, and over 70% to protect farmlands. Sixty-five percent would like to continue to acquire open space for those purposes.

Survey comments also indicated a desire to a) preserve open space along rivers and streams to protect riparian areas, b) acquire open space to link existing preserved parcels and trail networks to provide both wildlife habitat and recreational opportunities and c) protect large undeveloped parcels, such as farms or woodlots, to preserve rural character and provide land for both active and passive recreational opportunities. There was a strong interest in enhancing the town's regulations to protect its natural resources.

B- Summary of Community Needs

The community needs and desires as expressed in the survey, public meetings, and by town boards, committees and user groups focused mainly on four areas: wetlands, preservation of the rural character of the town, safety along the roadways for bikers and walkers and more open space.

Respondents selected several factors contributing to rural character, including roadside trees, fields, meadows, ponds and streams, forested landscapes, stone walls, and civic spaces.

Safety along the roadways is important, however, the solution is unclear. While 45% expressed a desire for sidewalks throughout town, 59% supported them around schools. The benefits of a sidewalk linking Cole School and Boxford Common to the Community Store, as well as a sidewalk between Spofford School and the library were mentioned. Some respondents hoped for a sidewalk in West Boxford Village. Slightly more than half the respondents would like sidewalks in town centers and around schools, but there was very little interest in sidewalks anywhere else in the community. Slightly more than half of the respondents

would like bike lanes or bike paths. Sixty three percent were interested in completing the rail trail. Techniques for traffic calming and controlling speed were noted several times in the comments section and by town boards.

The need for additional recreation facilities was not strongly indicated in the survey. 55% of the respondents felt it was important or very important that the town *has* acquired land for active recreation (athletic fields), while support for acquiring additional land for this purpose fell to 48% . Across the board respondents said they were satisfied or very satisfied with the recreational facilities, with most support for existing facilities for toddler through elementary at 78%, 76% for seniors, 72% for adults and 69% for middle and high schoolers. The addition of the new playing fields at Boxford Commons, with its paved walking trails, and the opening of 10 Elm, which will enhance activities for seniors, may have had a bearing on the change of satisfaction regarding the need for more fields since the 2016 Open Space Plan survey.

However, in the survey 5 activities that require facilities were among the top 15 listed, including field hockey, indoor basketball, tennis, outdoor basketball and pickleball. Perhaps repurposing and maintaining the current fields and facilities needs to be addressed.

In the comments, many stated that Boxford didn't need to add new facilities, but a very high priority should be given to better maintaining existing fields and playgrounds. Several pointed out the need to improve Johnson Field, as well as the nearby playground, and a desire to give a 'facelift' to the whole center of the town. Better maintenance of the Ackerman Playground at Boy Scout Park, by collecting garbage more regularly and by managing wasp infestations, was mentioned several times.

C- Management Needs, Potential Change of Use

The 2016 Boxford Open Space and Recreation community survey was instructive in identifying numerous management needs for the town's open space. There were many comments about drainage problems at the existing playing fields, resulting in loss of use for several weeks in the spring. Respondents also indicated the trail system and playground areas need to be better maintained. CPA funds are available for the Conservation Commission to improve some of the open space it manages through clearing new trails, moving trails away from beaver-flooded areas, and improving parking areas for conservation lands. These funds were used to pay for the construction of a major wetlands crossing in Wildcat, as well as for signage along trails and at trailheads. The CP Committee also helped fund the re-construction of the playground at Cole School. Much of the trail maintenance, including signage, has been handled by BTA/BOLT, Inc.

The elementary schools would like to continue to enjoy safe access to the adjacent woodlands and vernal pools for outdoor classrooms. The Spofford School basketball courts need improvement, and there are plans to install a full-size basketball court at Cole School when funds are available.

Managing an extensive inventory of open space is more than just maintenance. It includes building awareness, organizing events, and recruiting volunteers. The Apple Festival, Memorial Day Parade, 4th of July Road Race and Parade, Call to Honor Triathlon, BTA/BOLT, Inc. trail hikes youth sports, and winter festivals all contribute to Boxford's sense of community. Schools, the library, 10 Elm and other civic buildings bring people together. Open space and recreation play a significant role, too. Trails, ponds, athletic fields, scenic roadways, and open spaces in the villages are host to activities that connect people to each other and the outdoors. They contribute to the vibrancy of the community. Residents recognize this connection and would like to see more opportunities to forge community ties.

Section 8 - Goals and Objectives

This section synthesizes and expands on the vision and general goals of Section 6 and the data analysis of Section 7 to create a comprehensive set of goals and objectives for the town. These goals were arrived at through assessing Boxford's current open space inventory, survey results, comments from municipal figures, and comments from citizens, to synthesize goals which will both seek to fill open space gaps in the community and fulfill community desires and needs for land preservation and additional recreation.

Goal A: Preserve and protect groundwater resources, drinking water resources, ponds, streams, wetlands and wildlife habitat

The preservation and protection of water resources is critical to the public health of the town as private wells are the sole source of potable water. This includes watershed protection, storm water management of new construction, stream and pond protection, conformance to State wastewater disposal laws and water conservation.

Goal B: Preserve and protect the rural character of the town

Despite the growth of the suburbs throughout eastern Massachusetts, Boxford has been able to preserve its rural character due to the following:

1. Minimum house lots size of two (2) acres.
2. Regulatory protection of streams, ponds, and wetland systems and other natural features that exist throughout the town.
3. The efforts of the State, Town, BTA/Bolt, Inc., Essex County Greenbelt Association and others to acquire land to preserve in perpetuity.
4. Acquisition of land along major road corridors.
5. Limited commercial development.

Objective B-1

Preserve and acquire lands along major road corridors to preserve the scenic value and rural character of the town. Major road corridors

Elm Street	Main Street
Georgetown Road	Middleton Road
Herrick Road	Rt 133/Washington Street/Willow Rd
Ipswich Road	Rt 97
Kelsey Road	Topsfield Road
Lawrence Road	

Objective B-2

Preserve and acquire woodlands, farmland/agricultural land and wetlands.

Objective B-3

Identify parcels of land owned by the town that should be protected from development by a conservation restriction.

Objective B-4

Preserve and protect the Historic Districts and structures within the town and support the Historic Document Center.

Goal C: Preserve, enhance and acquire lands for active and passive recreation needs

Objective C-3

Acquire lands that connect existing open-space parcels and trails.

Objective C-4

Develop and Implement a five-year capital plan for the maintenance of playgrounds and recreation facilities.

Objective C-5

Implement the recommendations for ADA compliance for existing facilities to provide access for all as applicable. Consider feasibility of developing All Access Trails.

Objective C-6

Support the ongoing development of the Rail-to-Trail.

Goal D: Increase public awareness of open space and recreation resources and programs.

Implement links on the Town's website to "Support Organizations" including BTA/BOLT, Inc., the Boxford Athletic Association and other nonprofit Boxford organizations for trails, recreation sites, and programs.

Objective D-1

Establish an outreach campaign to distribute the Open Space and Recreation Plan especially the Plan Summary (Section 1) and/or Analysis of Needs (Section 7).

Objective D-2

Add a link on the home page of the Town website for "Open Space & Recreation." This link would connect to a new, standalone website that provides residents with a comprehensive guide to public resources and programs available for active and passive recreation, as well as an inventory of protected land in Boxford.

Objective D-3

Raise awareness within the schools of the trail networks and wildlife habitat and explore flora and fauna signage for areas near Cole and Spofford

Section 9 – Seven-Year Action Plan

This action plan builds on the “Goals and Objectives” outlined in section 8. Action items are listed by specific strategies and described with responsible parties designated with priority rating from High (immediate action desired) to Low (as funds and/or capacity is available). All recommendations are considered important. The actions listed below include the milestone steps that need to be taken to accomplish the outlined objectives.

Group	Abbreviation
Agricultural Commission	AgCom
Board Of Health	BoH
Board Of Selectmen	BoS
Boxford Athletic Association	BAA
Boxford Trails Association/Boxford Open Land Trust	BTA/BOLT
Conservation Commission	ConsCom
Department of Public Works	DPW
Finance Committee	FinCom
Historic Commission	HistCom
Land Committee	LandCom
Open Space & Recreation Plan Committee	OS&RPC
Planning Board	PlanBd
Recreation Committee	RecCom
School Committee	SchoolCom
Town Administrator	TownAdmin

Funding Sources	Abbreviation
Grants	G
Community Preservation Act	CPA
Serial Bond	SB
Private Funding Sources	PFS
Raise and Appropriate	RA

Goal A: Preserve and protect groundwater resources, drinking water resources, ponds, streams, wetlands, forests, and wildlife habitat

Objective A-1: Preserve and protect groundwater and drinking water resources.

1. Identify parcels of lands for potential acquisition or other protection measures which are not protected by state/local laws which may serve as potential high-yield water supplies.

Responsible Party(s): LandCom, BoH, ConsCom, BTA/BOLT

Priority: High | Funding Sources(s): G, CPA, SB PFS, RA

Objective A-2: Preserve and protect ponds, streams, wetlands and wildlife habitat.

1. Identify parcels of lands for acquisition or other protection measures that are not protected by state/local laws.

Responsible Party(s): LandsCom, ConsCom, BTA/BOLT
Priority: High | Funding Source(s): ConsCom Budget

2. Continue to monitor and access the quality of surface and ground water as required by the Federal Clean Water Act. Develop remedies for use impairments.

Responsible Party(s): ConsCom/BOH
Priority: _____ | Funding Source(s): _____

3. Continue to identify management issues, assess the health of ponds, wetlands and streams to make informed management decisions.

Responsible Party(s): ConsCom/BOH
Priority: _____ | Funding Source(s): _____

4. Consider regulations for construction sites to conform to the ten standards in the State Department of Environmental Protection Storm Water Management Policy.

Responsible Party(s): ConsCom
Priority: _____ | Funding Source(s): _____

5. Develop a dam maintenance and operation plan for Stiles, Lowe, Four Mile, Lockwood and Howe Pond dams. Update the plan annually.

Responsible Party(s): ConsCom/DPW
Priority: _____ | Funding Source(s): _____

Goal B: Preserve and protect the rural character of the town

Objective B-1: Preserve and acquire lands along major road corridors to preserve the scenic value and rural character of the town. Major road corridors are Topsfield Road, Elm Street, Main Street, Middleton Road, Georgetown Road, Ipswich Road, Lawrence Road, Herrick Road, Rt 133/Washington St, Rt 97

1. Maintain a map of all roadways and abutting properties.

Responsible Party(s): Assesor's Office
Priority: High | Funding Source(s): Dep/Com Budgets

2. Identify all undeveloped parcels which abut roadways.

Responsible Party(s): Assesor's Office
Priority: _____ | Funding Source(s): _____

3. Review undeveloped parcels for conformance with objective B-1.

Responsible Party(s): LandCom
Priority: _____ | Funding Source(s): _____

4. Make recommendations as to which parcels should be acquired.

Responsible Party(s): LandCom/Selectmen, Consult BTA/BOLT
Priority: _____ | Funding Source(s): _____

5. Work with Landowners to determine interest.

Responsible Party(s): LandCom
Priority: _____ | Funding Source(s): _____

6. Purchase or otherwise protect as appropriate.

Responsible Party(s): [REDACTED]

Priority: [REDACTED] Funding Source(s): CPA, G, SP, P, RA

Objective B-2: Preserve and acquire woodlands, farmland/agricultural lands and wetlands.

1. Help to promote agricultural activities on town-owned and privately owned land and to preserve existing farms.

Responsible Party(s): _____

Priority: High | Funding Source(s): Dept/Com Budget

2. Make recommendations as to which parcels should be acquired.

Responsible Party(s): LandCom/BoS

Priority: [REDACTED] | Funding Source(s): [REDACTED]

3. Work with Landowners to determine interest.

Responsible Party(s): LandCom

Priority: [REDACTED] | Funding Source(s): [REDACTED]

4. Purchase or otherwise protect as appropriate.

Responsible Party(s): LandCom

Priority: [REDACTED] | Funding Source(s): CPA, G, SB, P, RA

Objective B-3: Identify parcels of land owned by the town that should be protected from development by a conservation restriction.

1. Maintain a list of town owned parcels.

Responsible Party(s): Assessor, ConsCom/AgCom/LandCom/BoS

Priority: High | Funding Source(s): N/A

2. Review Parcels for conformance with Objective B-3.

Responsible Party(s): ConsCom/AgCom/LandCom/BoS

Priority: [REDACTED] | Funding Source(s): [REDACTED]

3. Make recommendations as to which parcels should be protected.

Responsible Party(s): LandCom/BoS

Priority: [REDACTED] | Funding Source(s): [REDACTED]

4. When appropriate, hire an attorney or work with Land Trust to place conservation restrictions on identified parcels.

Responsible Party(s): BoS

Priority: [REDACTED] | Funding Source(s): G, C, P

Objective B-4: Preserve and protect the Historic Districts and structures within the town and support the Historic Document Center.

1. Review historic districts and boundaries and inventory of historic structures and prepare/maintain comprehensive list.

Responsible Party(s): HistCom

Priority: _____ | Funding Source(s): _____

2. Contact and work with land/homeowner who may have historic properties which should be protected and/or preserved.

Responsible Party(s): HistCom

Priority: _____ | Funding Source(s): _____

Goal C: Preserve, enhance and acquire lands for active and passive recreation needs.

Objective C-2: Develop a comprehensive analysis of all playing fields to determine conditions and improvements that impact the use and playability of the fields and maintenance needs. Maintain list of all fields. (BAA, RecCom)

1. Assess current field conditions.

Responsible Party(s): RecCom/DPW/BAA/Tribal/MYF

Priority: _____ | Funding Source(s): _____

2. Create Field Maintenance Plan.

Responsible Party(s): RecCom/DPW

Priority: _____ | Funding Source(s): DPW Budget

3. Implement and Fund Field Maintenance Plan.

Responsible Party(s): DPW

Priority: _____ | Funding Source(s): DPW Budget/Capital Budget

Objective C-3: Acquire lands that connect existing open-space parcels and trails.

1. Utilize OSRP mapping to identify lands that meet objective C-3 and C-4.

Responsible Party(s): _____

Priority: _____ | Funding Source(s): _____

2. Develop and maintain list of lands of interest.

Responsible Party(s): BTA/BOLT

Priority: _____ | Funding Source(s): _____

3. Contact landowners to gauge interest in selling/donating land or easement through property and follow through as needed.

Responsible Party(s): BTA/BOLT/LandCom, SchoolCom

Priority: _____ | Funding Source(s): CPA, G, SB, P, RA

Objective C4: Develop and implement a five-year capital plan for parks and recreation facilities.

1. Annually assess all ballfields and playgrounds to determine immediate and long-term needs. Prioritize into a five-year capital plan.
Responsible Party(s): RecCom, BAA, SchoolCom, FinCom
Priority: [REDACTED] | Funding Source(s): N/A
2. Identify funding sources for needed improvements and make improvements as funding is received.
Responsible Party(s): RecCom, BAA, School Com, FinCom
Priority: [REDACTED] | Funding Source(s): CPA, G, P
3. Update the five-year plan annually to reflect on-going improvements and assessments.
Responsible Party(s): RecCom, BAA, School Com, FinCom
Priority: [REDACTED] | Funding Source(s): N/A

Objective C-5: Implement the recommendations for ADA compliance for existing facilities to provide access for all as applicable.

1. Review recommendations for ADA compliance, identify funding sources and prioritize list for implementation.
Responsible Party(s): BoS/DPW/ADA Coordinator
Priority: High | Funding Source(s): N/A
2. Expand accessibility to Stiles Pond beach and facilities, including ADA compliant bathrooms
Responsible Party(s): [REDACTED]
Priority: | Funding Source(s): [REDACTED]

Objective C-6: Continue to support the development of the Rail-to-Trail. - No actions?

Goal D: Assess the viability of sidewalks and bike paths near schools and in Villages.

Objective D-1: Study the feasibility of constructing sidewalks/ bike paths in the Villages and near the schools.

1. Appoint a Sidewalk Feasibility Group.
Responsible Party(s): BoS
Priority: | Funding Source(s): N/A
2. Investigate state standards for sidewalks/bike paths. (SFG)
Responsible Party(s): SFG
Priority: | Funding Source(s): [REDACTED]
3. Determine the impact that construction of sidewalks/bike paths may have on wetlands, trees and other existing conditions and offer ideas for mitigation.
Responsible Party(s): SFG
Priority: | Funding Source(s): [REDACTED]
4. Present the feasibility study to the Board of Selectman for their determination on how to proceed to develop a consensus.
Responsible Party(s): SFG
Priority: | Funding Source(s): [REDACTED]

Goal D: Increase public awareness of open space and recreation resources and programs.

Objective D-1: Establish an outreach campaign to distribute the Open Space and Recreation Plan, especially the Plan Summary (Section 1) and/or Analysis of Needs (Section 7).

1. Identify volunteers to develop strategies for distributing Plan and sharing information.

Responsible Party(s): PlanBd, RecCom

Priority: High | **Funding Source(s):** N/A

2. Support outreach campaign with the development of material as needed.

Responsible Party(s): PlanBd, RecCom

Priority: _____ | **Funding Source(s):** ConsCom Budget

Objective D-2: Add a link on the Town website for "Open Space & Recreation." This link would connect to a new, stand-alone website that provides residents with a comprehensive guide to public resources and programs available for active and passive recreation, as well as an inventory of protected land in Boxford.

1. Identify a volunteer to be responsible for the development of the website.

Responsible Party(s): _____

Priority: _____ | **Funding Source(s):** N/A

2. Consider using a student or intern for website development.

Responsible Party(s): _____

Priority: _____ | **Funding Source(s):** G, P

3. Determine a process and schedule for updating the site as needed.

Responsible Party(s): _____

Priority: _____ | **Funding Source(s):** N/A

1. Strategies for Implementation

This section describes some of the techniques available to Boxford to acquire and protect its important waterways, farmlands and other natural resources. These techniques should be integrated into the following general strategies for implementing this Open Space and Recreation Plan:

1. Enhance cooperation between Town boards and departments having jurisdiction in matters relating to permits, water, solid waste, energy, transportation and other land use issues.
2. Coordinate efforts with neighboring communities to protect and preserve resource areas that share common boundaries; active involvement with the Merrimack Valley Planning Commission should assist in this effort.
3. Encourage landowners and potential developers of environmentally sensitive lands to adopt sound conservation practices in order to protect water resources.
4. Enlist the skill and knowledge of local volunteers and the resources of the Merrimack Valley Planning Commission to enhance the open space planning efforts of local land use and development boards.

A description of available resources to implement these general strategies include the following:

Grant Programs Administered by the Division of Conservation Services, Executive Office of Energy and Environmental Affairs

Grant programs include the Self-Help program which offers towns up to 70% reimbursement for the cost of land purchased or developed for conservation or for passive outdoor recreation. Other grant programs include the Federal Land and Water Conservation Fund program.

National Register of Historic Places (National Historic Preservation Act of 1966, 80 Stat.915, U.S.C. 470)

Under this program, the National Park Service can make funds available for the acquisition and development of significant historical, archeological, architectural and cultural sites.

Gift of Land in Trust

This is a charitable gift in trust and is a well-recognized device in Massachusetts for preserving land in its natural state. Land gifted to a private land trust is insured against being diverted for other municipal purposes.

Conservation Restrictions (Conservation Restriction Act, Ch.184, Sec.31-33)

Simply stated, a conservation restriction/easement is a written agreement between a property owner and a governmental or private agency by which the owner agrees to restrict development of his land in certain ways. For example, a restriction can take the form of prohibiting construction of a building detrimental to preservation of an historical site. Conservation restrictions vary widely. They may be purchased or granted through a gift. They can range from outright purchase of development rights - under which arrangement the land is still privately owned - to simple easements across the land for public right-of-way. The owner of land subject to an easement has all the rights and benefits of ownership consistent within the terms of the easement. The easement does not transfer title of the land, nor dispossess the owner; it is, however, binding on all future grantees of the land. A conservation restriction often qualifies a property owner to receive certain tax advantages (MGL Ch. 719, Acts of 1972) while still permitting use of the land for such purposes as recreation, farming, and other activities consistent with the terms of the restriction. For a community a restriction is financially beneficial too. When purchasing land for conservation, passive recreation or scenic enjoyment, property can often be acquired at considerably less than full-title purchase, and sometimes at no cost at all if the land is donated by the owner. Conservation restrictions are perpetual and run with the land.

Agricultural Preservation Restriction (Ch.132A, Sec.11a-d)

This is a type of conservation restriction in which a landowner signs a covenant promising the Commonwealth or a private agency; that the land will not be developed for non-agricultural purposes. The restriction holder will pay the landowner a sum not exceeding the difference between the value of the land before it was restricted and its value for farming purposes after restriction. Agricultural restrictions are perpetual and run with the land.

Community Preservation Act (CPA)

The Commonwealth enacted enabling legislation that allows towns and cities to establish their own prescribed real estate surcharge tax of up to 3% of individual property valuations for the purposes of: acquiring, creating and preserving open space; acquiring and preserving historic resources; acquisition creation and preservation of land for recreational use; creation, preservation and support of community housing; and for the rehabilitation or restoration of open space, land for recreational use and community

housing that is acquired or created by CPA funds. Boxford adopted the surcharge in 2001 and established the Community Preservation Committee to administer the CPA funds in Boxford.

Historic Districts (MGL Ch 40C)

Boxford has two Historic Districts, the Howe Village and Boxford Village Historic Districts. Development within these Districts must be reviewed by the Boxford Historic District Commission to ensure that they will not detract from the historic character of the District.

Eminent Domain

This is usually a means of last resort. Taking land under eminent domain requires a two-thirds vote of Town Meeting. There must be reasonable compensation to the landowner accompanying the taking. Put this last

2. Wetland Regulations

Wetlands Protection Act (G.L.Ch.131, c40)

This Act controls, but does not ban, development on wetlands. Wetlands as defined here are marshes, meadows, swamps bordering on rivers, streams, and ponds - just about any land which is periodically wet. The Act also covers coastal wetlands. The law requires that any person or governmental agency intending to remove, fill, dredge, or alter a wetland must ensure that the activity will have no adverse effect on water supplies, flood safety, pollution prevention, or fisheries protection. In effect, the owner must develop his wetlands in accord with the public's interest and safety.

Rivers Protection Act

This act was enacted by the Legislature in 1996 as an amendment to the Wetlands Protection Act to protect twenty-seven particular rivers in the Commonwealth including their tributaries as well as all perennial and intermittent streams. The 200 foot setback distance on either side of a perennial river's edge is the Riverfront Area in which development is prevented unless there are no other alternatives.

Boxford Wetlands Protection Bylaw and Regulations

Boxford first adopted a local Wetlands Protection Bylaw in 1986. The Bylaw went further than the Commonwealth's Wetlands Protection Act by establishing the 100 foot buffer zone around wetlands- a zone of jurisdiction without any real restrictions on use- as a legally protected "Resource Area". In 1994, Boxford adopted regulations governing the Wetlands Protection Bylaw. Both the Bylaw and Regulations have been amended numerous times, and today they are among the strongest in the Commonwealth. Among other protections, there is a 25 foot "no disturb" zone around wetlands, as well as a 75 foot "no-build" zone. Vernal Pools, landscape features that support rare amphibian wildlife, receive even more protection. Boxford's Wetlands Protection Bylaw and Regulations translate into significantly greater protection of undeveloped natural areas, including wetlands, streams, the forests around them, and other natural areas, than in towns without a local wetlands bylaw or regulations.

Stormwater Management Regulations

Boxford adopted a Stormwater Management Bylaw in 2006 that conforms to the requirements of the National Pollutant Discharge Elimination System Permit program administered by the U.S. EPA. In Boxford, development related disturbance greater than one acre in extent and located within the "Urbanized Area" as mapped by the U.S. Census Bureau is subject to review and permitting under the Bylaw.

Inland Wetlands Restriction Act (MGL Ch. 131, c40A)

This legislation is designed to supplement the regulative approach of the Wetlands Protection Act with a planning approach not dependent upon the landowner's applying for a permit. The Commissioner of wildlife, fisheries, water resources, and floodplain areas and agriculture, is directed to issue orders restricting development of inland wetlands.

Scenic Rivers Act (MGL Ch. 21A, §11C)

This Act empowers the Department of Environmental Management to restrict or prohibit dredging, filling or otherwise altering or polluting scenic and recreational rivers. These have been defined to include all rivers and streams in the Commonwealth plus contiguous land up to 100 yards on each side of the river or stream banks.

3. Tax Incentives

Classification and Taxation of Forest Lands and Agricultural/Horticultural Lands (MGL Ch. 61 and 61A, respectively)

This law encourages the preservation of forests, farmland and open space in Massachusetts. It affords local tax abatements to landowners willing to commit to long term forestry, farming or open space. Should use of land at sale change from agricultural/forestry/open space, towns have 120 days of right of first refusal to a bona fide purchase and sale agreement. In addition, the seller is responsible for payment of taxes abated for the previous five years.

4. Land Trusts

Non-profit land trusts use funding sources such as state and federal grants, foundations, CPA funding and private donations to acquire conservation land in fee or by easement. Trusts can acquire land that overlaps town boundaries, an effective technique for protecting a watershed. BTA/BOLT, Essex County Greenbelt Association, and The Trustees of Reservations are examples of such trusts in Essex County.

Section 10 - Public Comments -UPDATE

The draft Open Space and Recreation Plan was placed on the Town of Boxford web site and all Town boards and committees were notified of its availability and encouraged to submit responses to be included in the final OSRP report.

Comment letters from responding boards, committees and organizations follow.



Figure 7. Anvil Farm in Spring.

Section 11 – References

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Section 12 - Appendixes

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 - II Inventory
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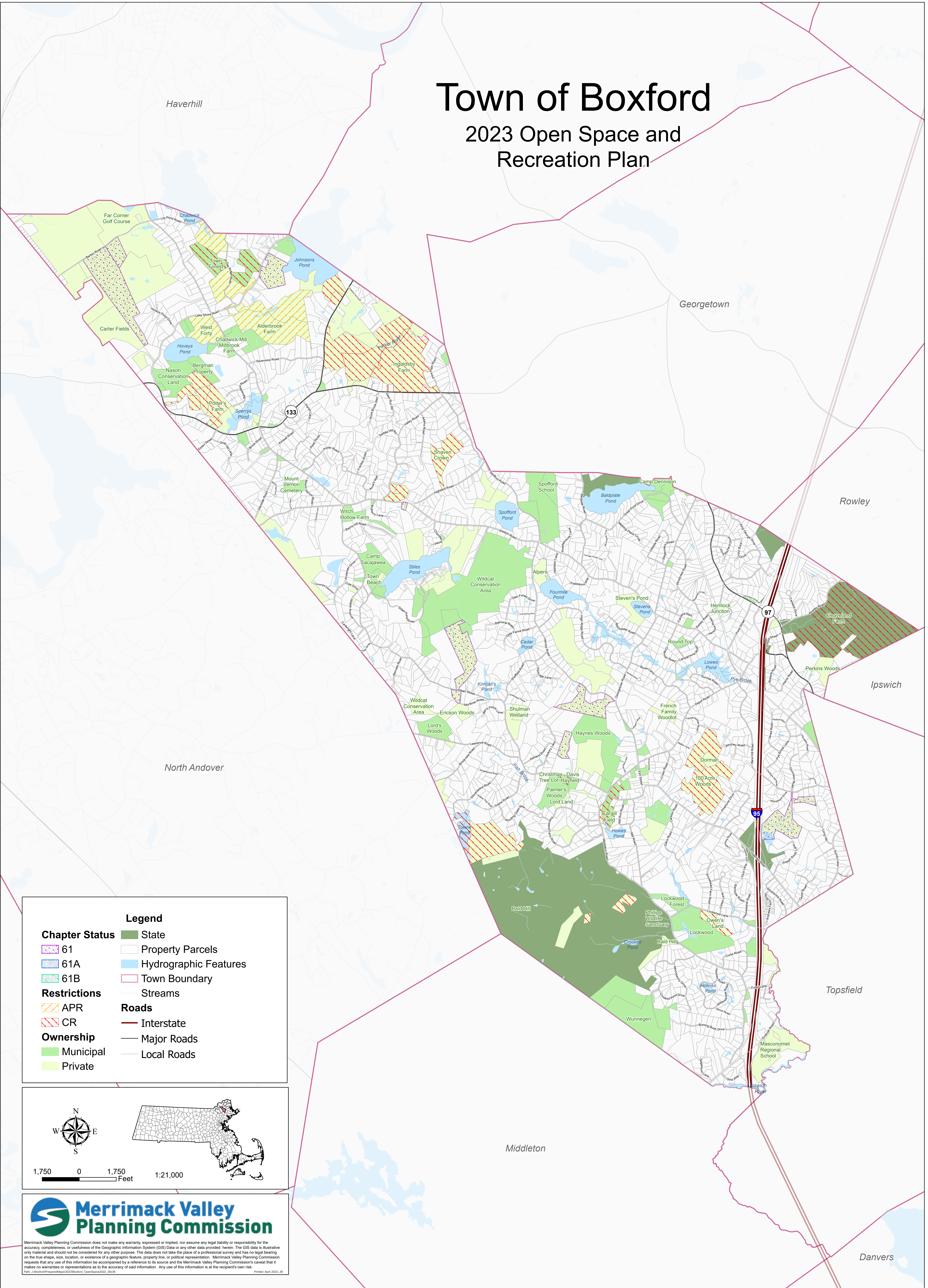
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CR	Interstate
Ownership	Major Roads
Municipal	Local Roads
Private	

North arrow and scale bar. Scale: 1:21,000. Distance markers: 0, 1,750 Feet.

Merrimack Valley Planning Commission

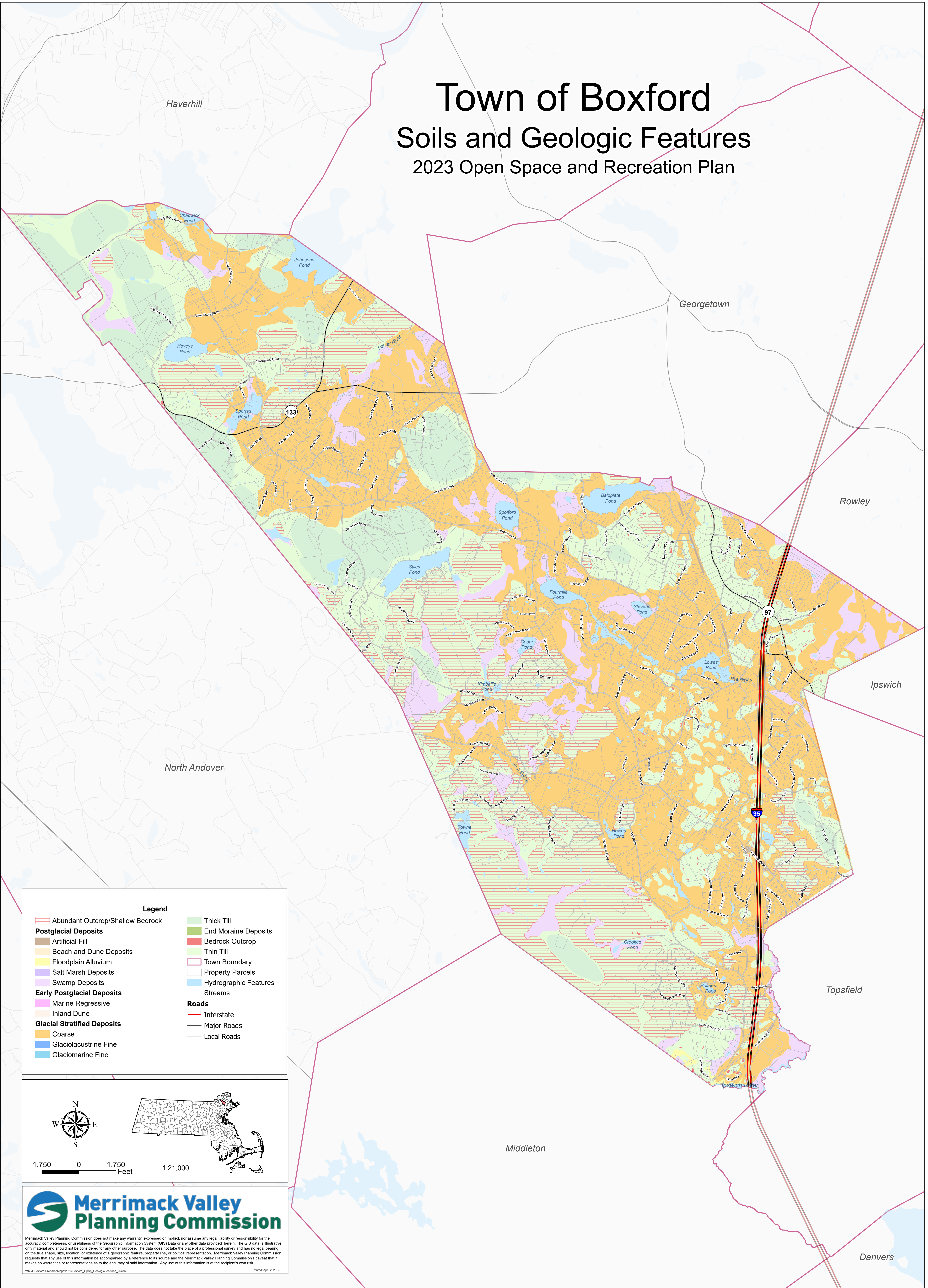
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Printed: April 2023, 40

Town of Boxford

Soils and Geologic Features

2023 Open Space and Recreation Plan



Legend

Abundant Outcrop/Shallow Bedrock	Thick Till
Postglacial Deposits	End Moraine Deposits
Artificial Fill	Bedrock Outcrop
Beach and Dune Deposits	Thin Till
Floodplain Alluvium	Town Boundary
Salt Marsh Deposits	Property Parcels
Swamp Deposits	Hydrographic Features
Early Postglacial Deposits	Streams
Marine Regressive	Roads
Inland Dune	Interstate
Glacial Stratified Deposits	Major Roads
Coarse	Local Roads
Glaciolacustrine Fine	
Glaciomarine Fine	

North arrow and scale bar (0 to 1,750 Feet). Inset map of Massachusetts showing the location of Boxford.

1:21,000

Merrimack Valley Planning Commission

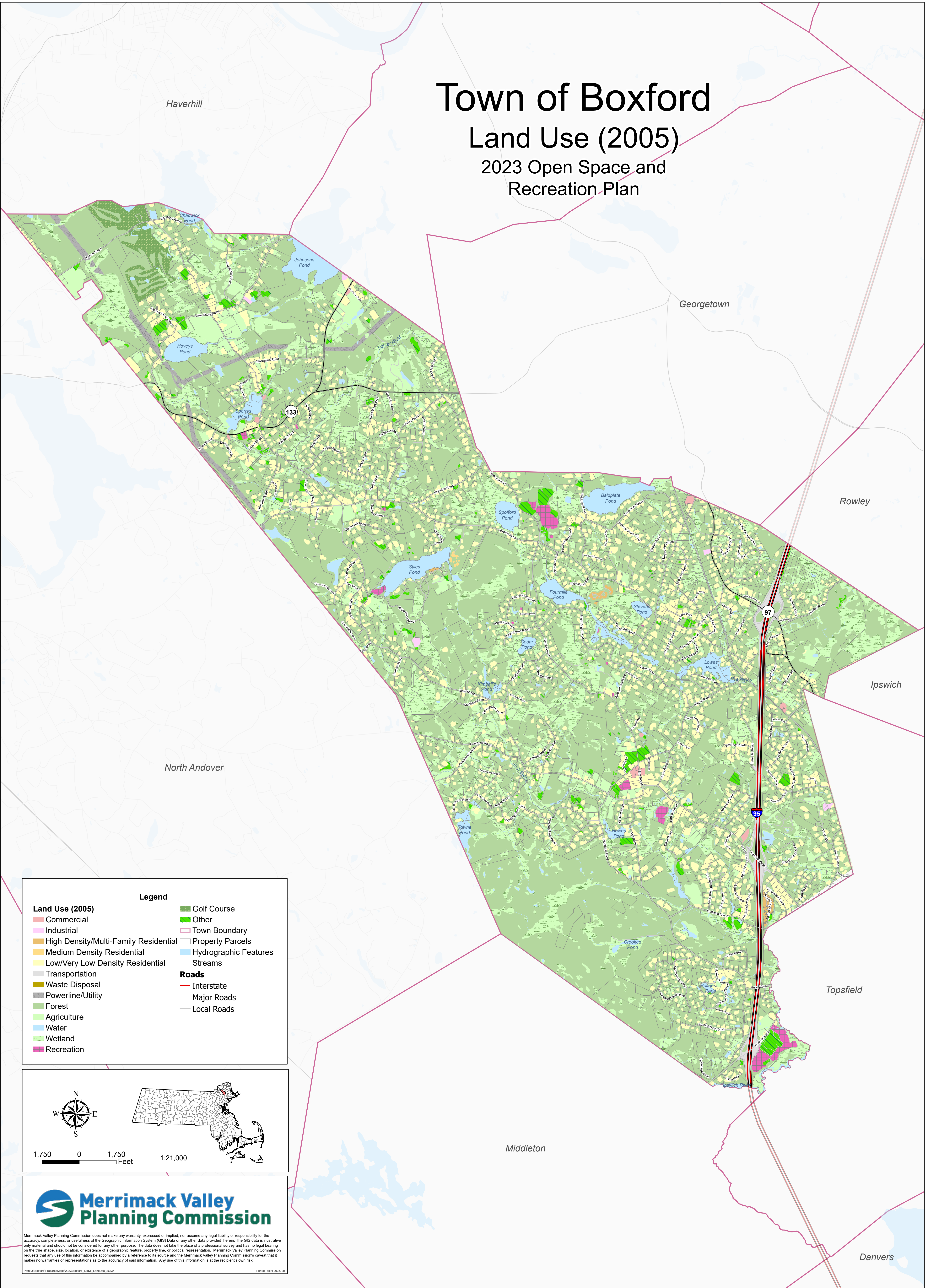
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Town of Boxford

Land Use (2005)

2023 Open Space and Recreation Plan



Legend

Land Use (2005)	Golf Course
Commercial	Other
Industrial	Town Boundary
High Density/Multi-Family Residential	Property Parcels
Medium Density Residential	Hydrographic Features
Low/Very Low Density Residential	Streams
Transportation	Roads
Waste Disposal	Interstate
Powerline/Utility	Major Roads
Forest	Local Roads
Agriculture	
Water	
Wetland	
Recreation	

North arrow and scale bar (0 to 1,750 Feet). Inset map of Massachusetts showing the location of Boxford.

Merrimack Valley Planning Commission

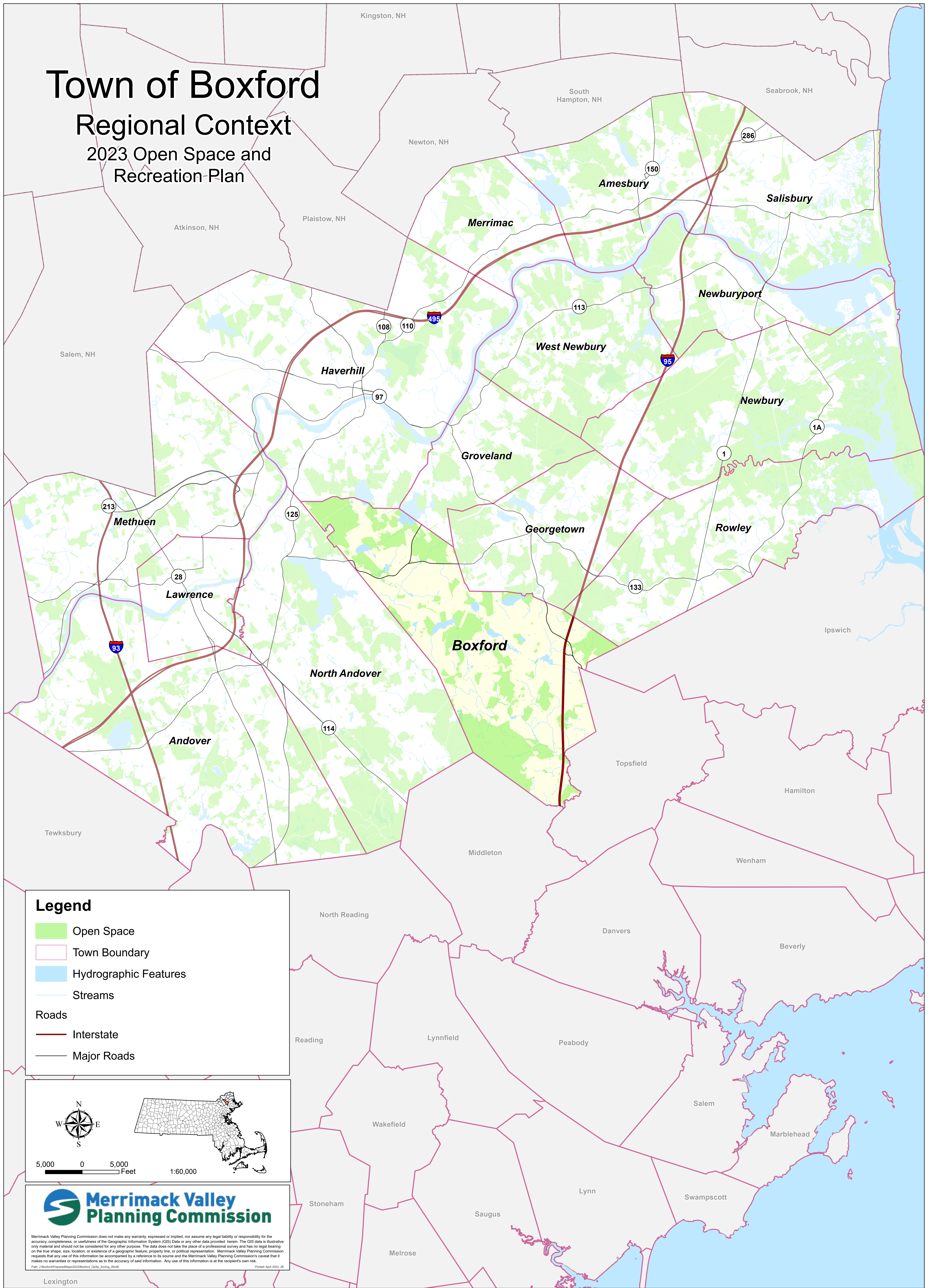
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Town of Boxford

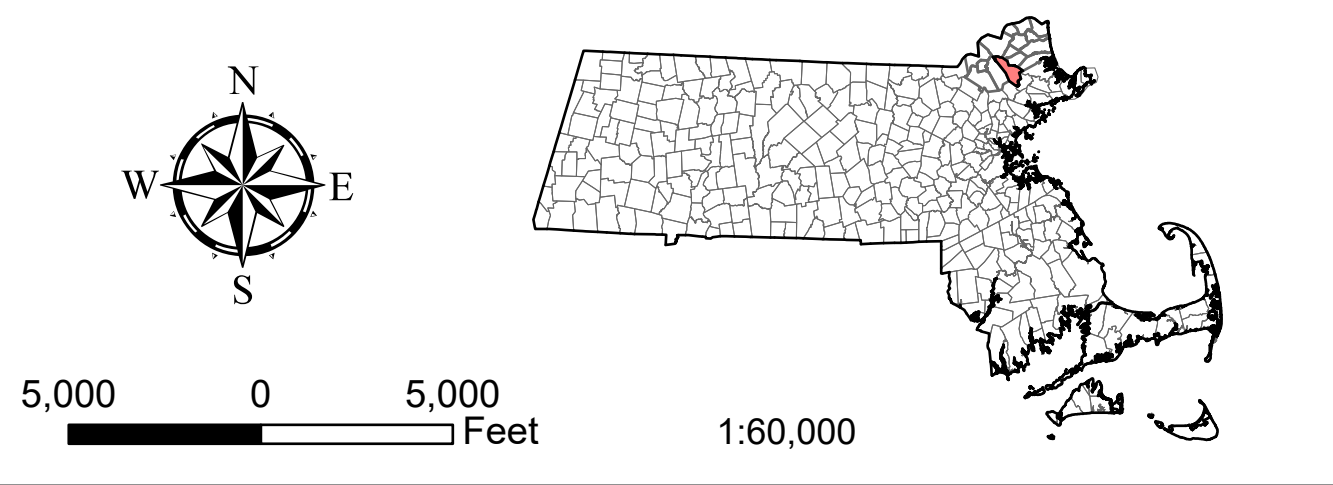
Regional Context

2023 Open Space and Recreation Plan



Legend

- Open Space
- Town Boundary
- Hydrographic Features
- Streams
- Roads**
- Interstate
- Major Roads



Merrimack Valley Planning Commission

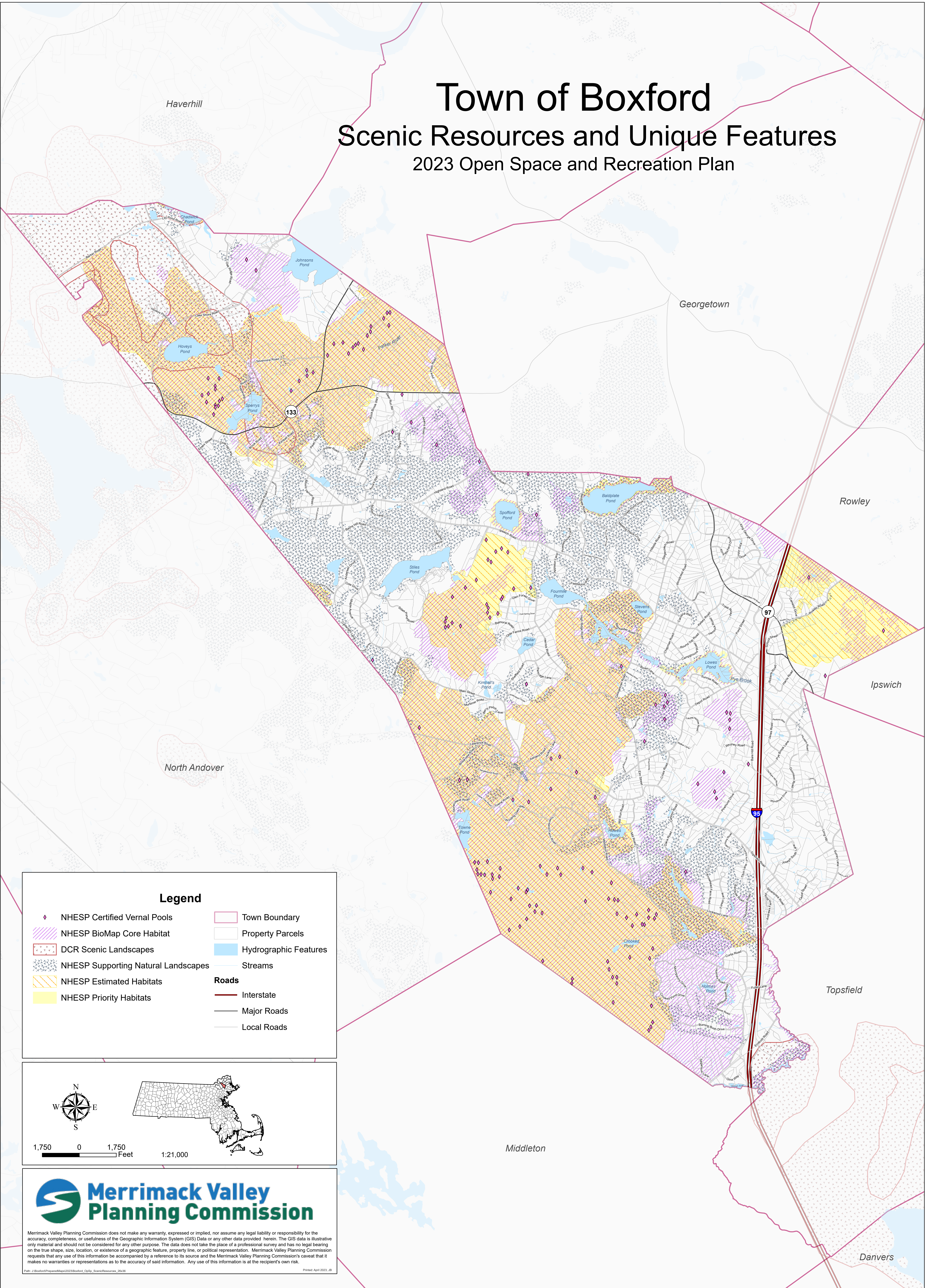
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Town of Boxford

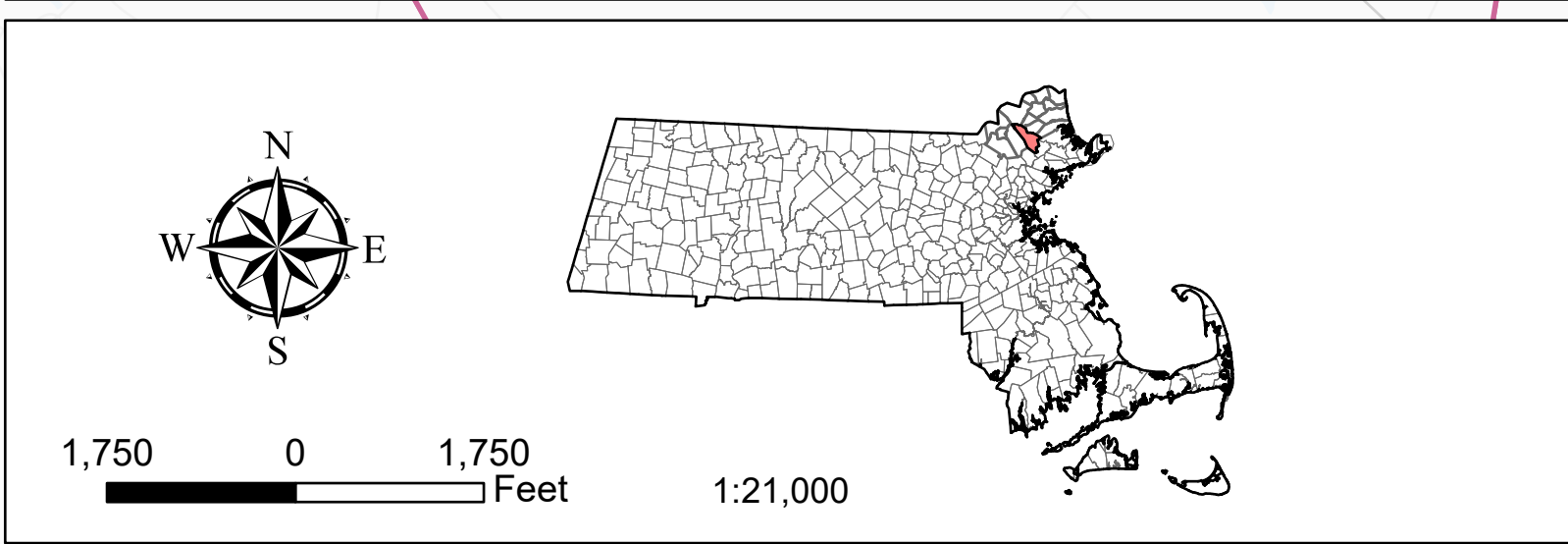
Scenic Resources and Unique Features

2023 Open Space and Recreation Plan



Legend

- NHESP Certified Vernal Pools
- NHESP BioMap Core Habitat
- DCR Scenic Landscapes
- NHESP Supporting Natural Landscapes
- NHESP Estimated Habitats
- NHESP Priority Habitats
- Town Boundary
- Property Parcels
- Hydrographic Features
- Streams
- Roads**
- Interstate
- Major Roads
- Local Roads



Merrimack Valley Planning Commission

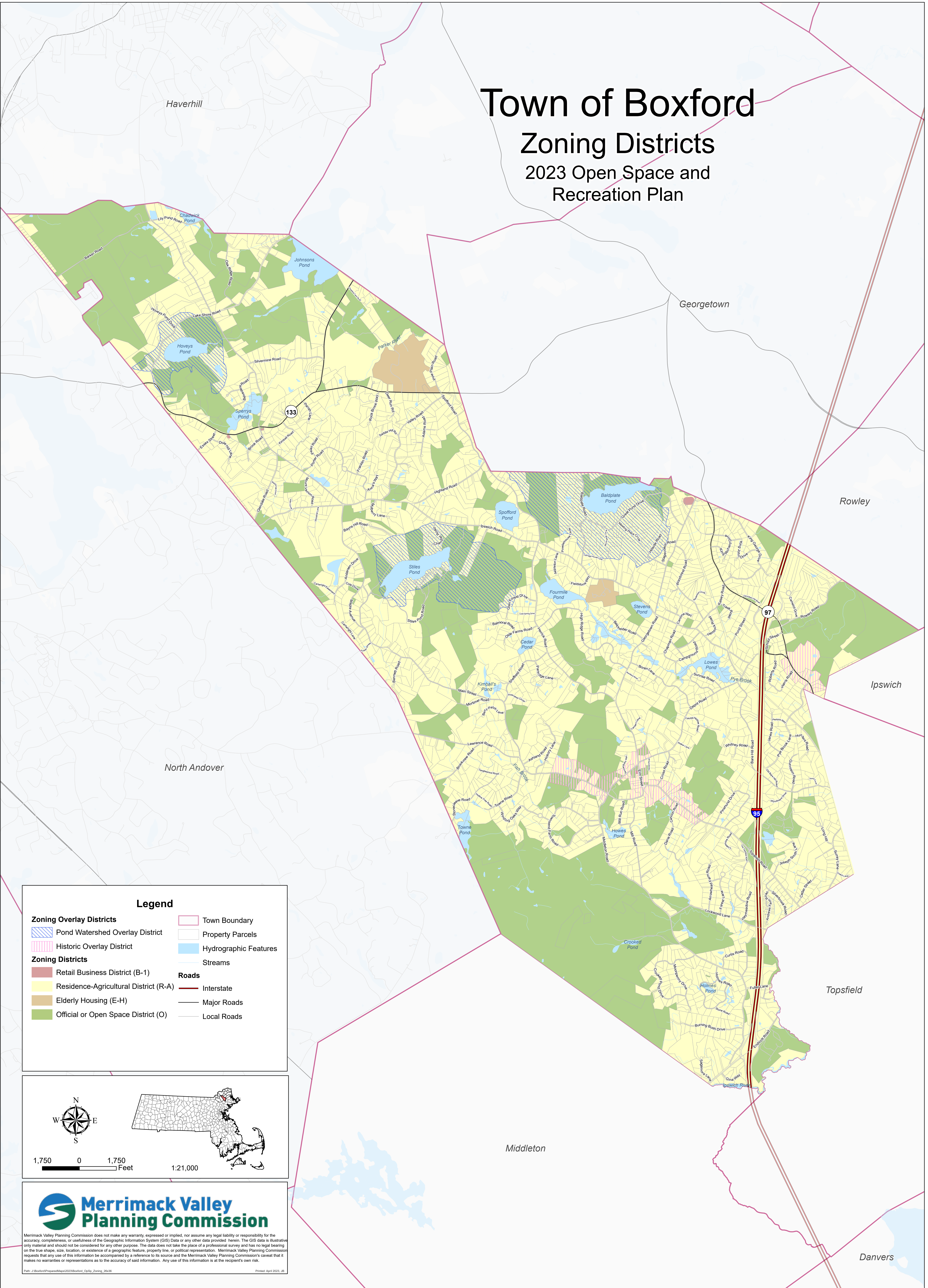
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Town of Boxford

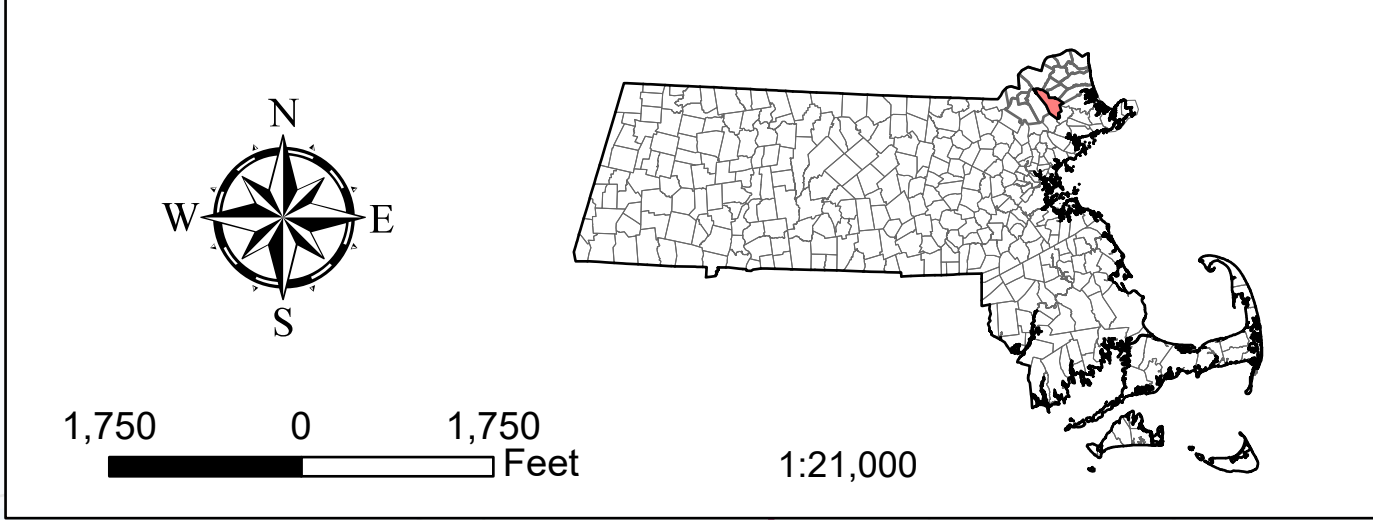
Zoning Districts

2023 Open Space and Recreation Plan



Legend

- | | |
|---------------------------------------|-----------------------|
| Zoning Overlay Districts | Town Boundary |
| Pond Watershed Overlay District | Property Parcels |
| Historic Overlay District | Hydrographic Features |
| Zoning Districts | Streams |
| Retail Business District (B-1) | Roads |
| Residence-Agricultural District (R-A) | Interstate |
| Elderly Housing (E-H) | Major Roads |
| Official or Open Space District (O) | Local Roads |



Merrimack Valley Planning Commission

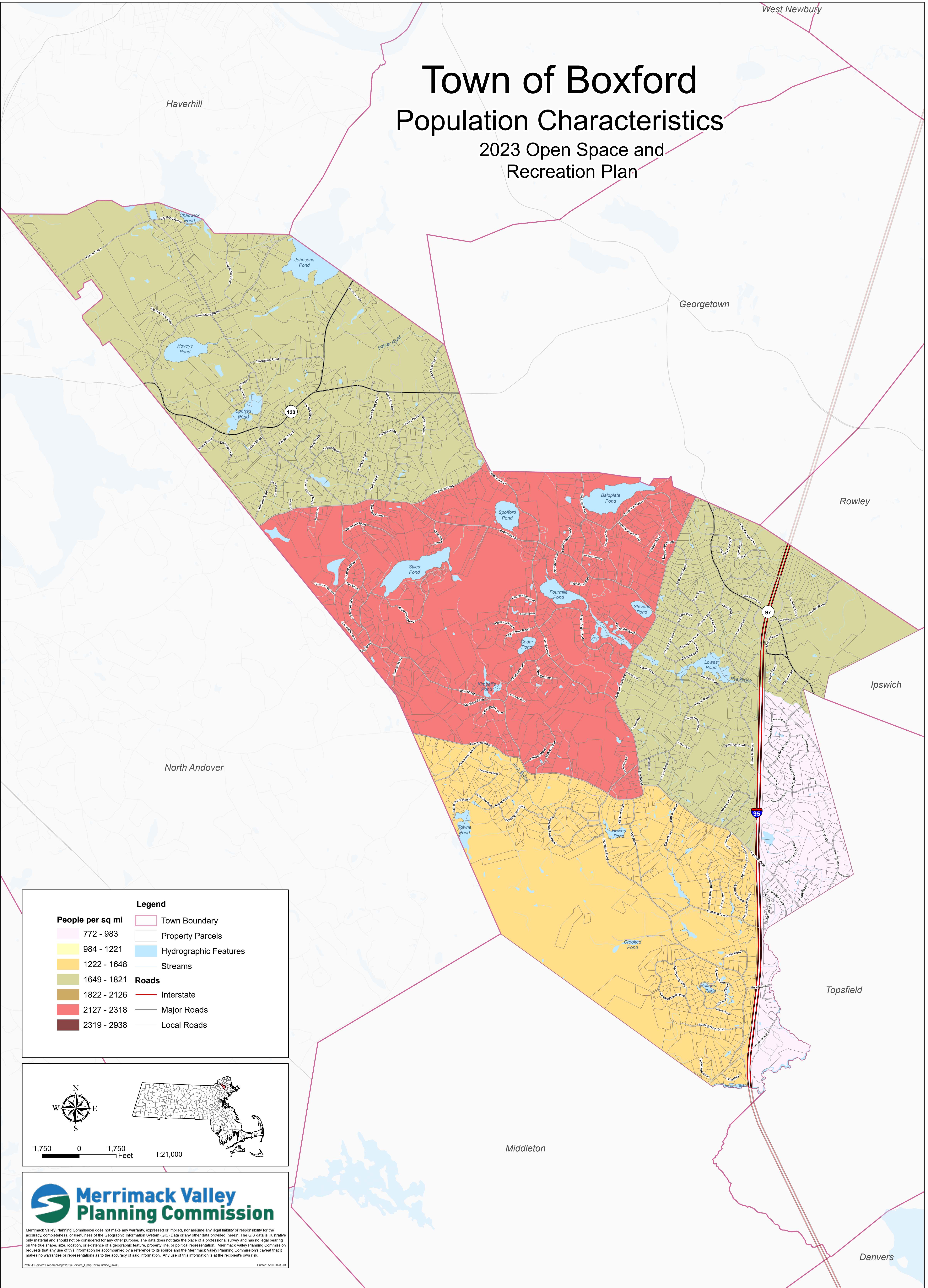
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Town of Boxford

Population Characteristics

2023 Open Space and Recreation Plan



Legend

People per sq mi	Town Boundary
772 - 983	Property Parcels
984 - 1221	Hydrographic Features
1222 - 1648	Streams
1649 - 1821	Roads
1822 - 2126	Interstate
2127 - 2318	Major Roads
2319 - 2938	Local Roads

1,750 0 1,750 Feet 1:21,000

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Town of Boxford

Historic Districts

2023 Open Space and Recreation Plan

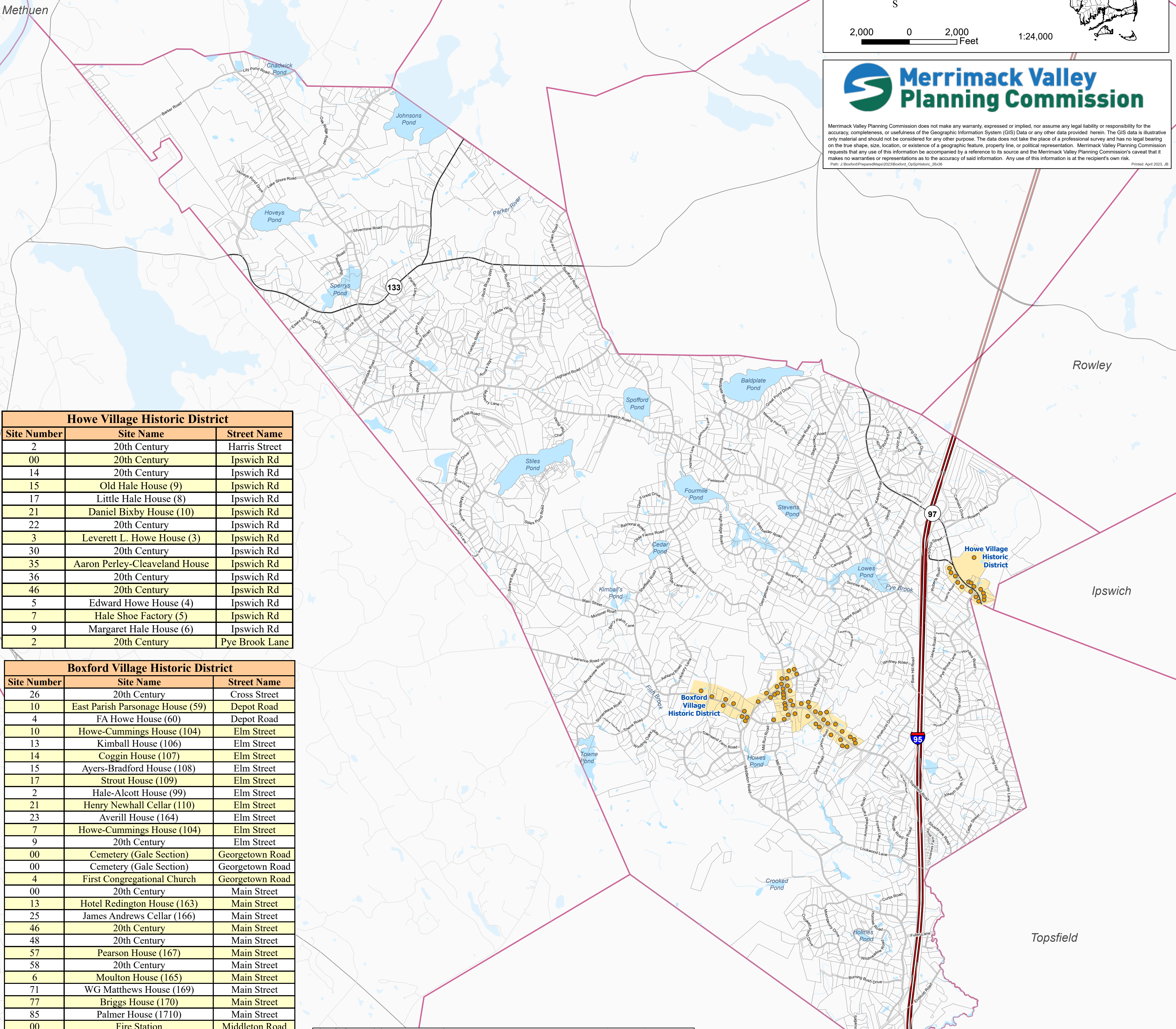
Legend

- Historic Buildings
- Historic District
- Town Boundary
- Property Parcels
- Hydrographic Features
- Streams

Roads

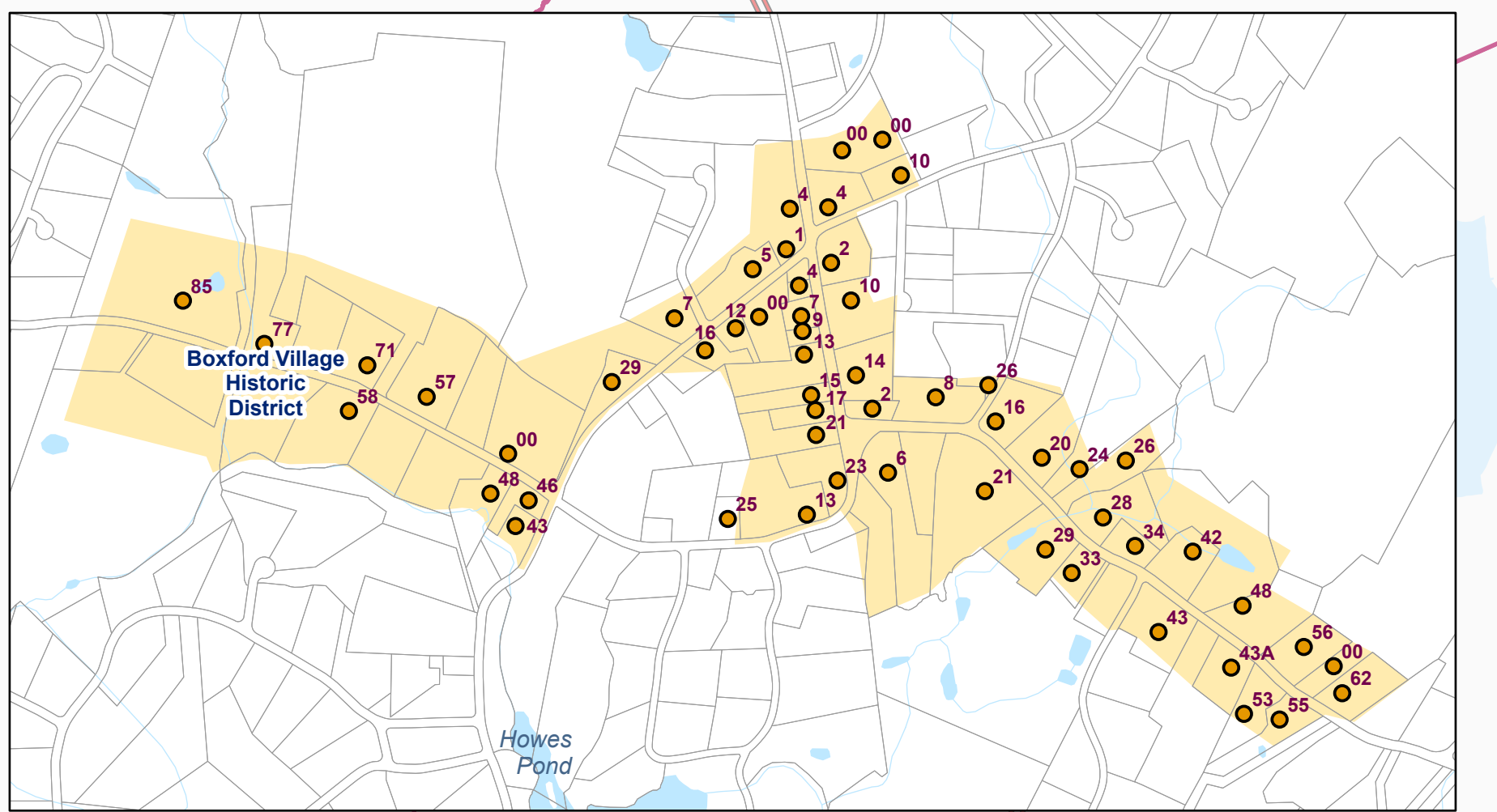
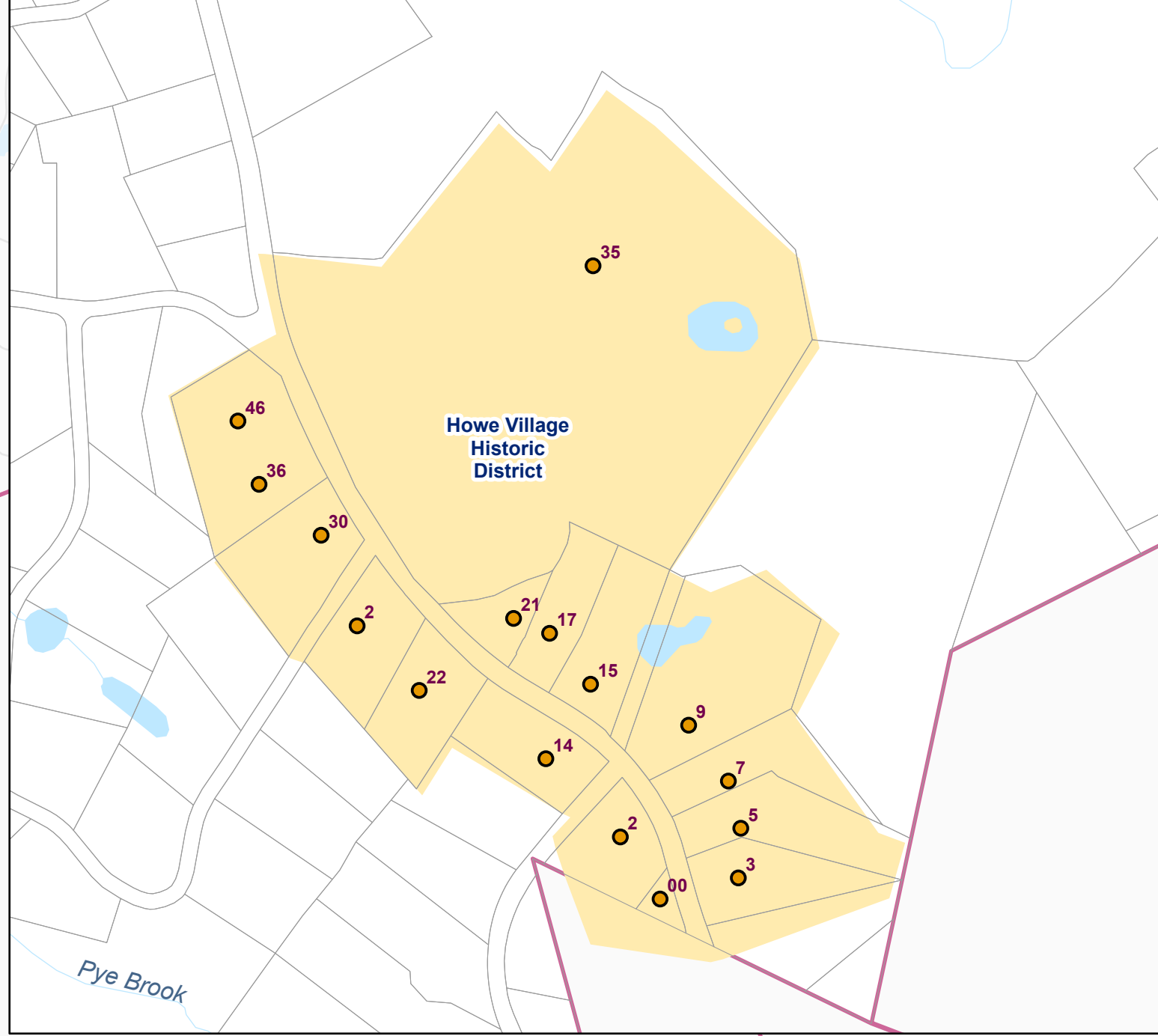
- Interstate
- Major Roads
- Local Roads

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Howe Village Historic District		
Site Number	Site Name	Street Name
2	20th Century	Harris Street
00	20th Century	Ipswich Rd
14	20th Century	Ipswich Rd
15	Old Hale House (9)	Ipswich Rd
17	Little Hale House (8)	Ipswich Rd
21	Daniel Bixby House (10)	Ipswich Rd
22	20th Century	Ipswich Rd
3	Leverett L. Howe House (3)	Ipswich Rd
30	20th Century	Ipswich Rd
35	Aaron Perley-Cleaveland House	Ipswich Rd
36	20th Century	Ipswich Rd
46	20th Century	Ipswich Rd
5	Edward Howe House (4)	Ipswich Rd
7	Hale Shoe Factory (5)	Ipswich Rd
9	Margaret Hale House (6)	Ipswich Rd
2	20th Century	Pye Brook Lane

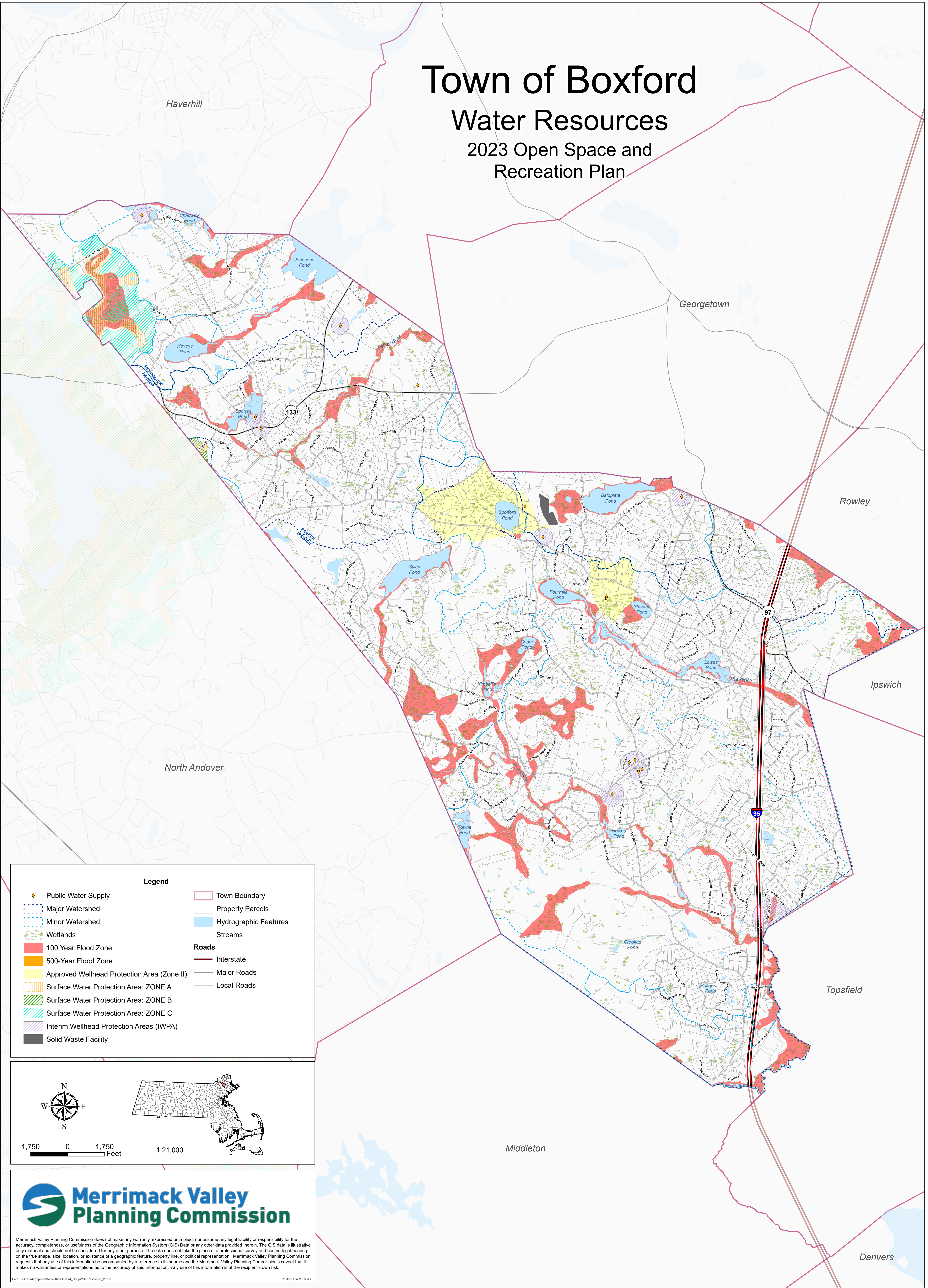
Boxford Village Historic District		
Site Number	Site Name	Street Name
26	20th Century	Cross Street
10	East Parish Parsonage House (59)	Depot Road
4	FA Howe House (60)	Depot Road
10	Howe-Cummings House (104)	Elm Street
13	Kimball House (106)	Elm Street
14	Coggin House (107)	Elm Street
15	Ayers-Bradford House (108)	Elm Street
17	Strout House (109)	Elm Street
2	Hale-Alcott House (99)	Elm Street
21	Henry Newhall Cellar (110)	Elm Street
23	Averill House (164)	Elm Street
7	Howe-Cummings House (104)	Elm Street
9	20th Century	Elm Street
00	Cemetery (Gale Section)	Georgetown Road
00	Cemetery (Gale Section)	Georgetown Road
4	First Congregational Church	Georgetown Road
00	20th Century	Main Street
13	Hotel Redington House (163)	Main Street
25	James Andrews Cellar (166)	Main Street
46	20th Century	Main Street
48	20th Century	Main Street
57	Pearson House (167)	Main Street
58	20th Century	Main Street
6	Moulton House (165)	Main Street
71	WG Matthews House (169)	Main Street
77	Briggs House (170)	Main Street
85	Palmer House (1710)	Main Street
00	Fire Station	Middleton Road
1	FD Allen-Manny-Sawyer (100)	Middleton Road
12	20th Century	Middleton Road
16	20th Century	Middleton Road
29	Jeremiah Rea House (102)	Middleton Road
4	Todd House (103)	Middleton Road
43	20th Century	Middleton Road
5	Bixby House (101)	Middleton Road
7	20th Century	Middleton Road
00	Essex County Greenbelt	Topsfield Road
16	20th Century	Topsfield Road
2	Holyoke-French House (111)	Topsfield Road
20	Howe House (113)	Topsfield Road
21	20th Century	Topsfield Road
24	20th Century	Topsfield Road
26	20th Century	Topsfield Road
28	20th Century	Topsfield Road
29	Old Connant House Cellar (116)	Topsfield Road
33	Ancil Dorman House (117)	Topsfield Road
34	Russell Cellar (118)	Topsfield Road
42	Moses Dorman House (119)	Topsfield Road
43	20th Century	Topsfield Road
43A	20th Century	Topsfield Road
48	Nat Dorman House (120)	Topsfield Road
53	20th Century	Topsfield Road
55	20th Century	Topsfield Road
56	20th Century	Topsfield Road
62	20th Century	Topsfield Road
8	Connant House (112)	Topsfield Road



Town of Boxford

Water Resources

2023 Open Space and Recreation Plan



Legend

Public Water Supply	Town Boundary
Major Watershed	Property Parcels
Minor Watershed	Hydrographic Features
Wetlands	Streams
100 Year Flood Zone	Roads
500-Year Flood Zone	Interstate
Approved Wellhead Protection Area (Zone II)	Major Roads
Surface Water Protection Area: ZONE A	Local Roads
Surface Water Protection Area: ZONE B	
Surface Water Protection Area: ZONE C	
Interim Wellhead Protection Areas (IWPA)	
Solid Waste Facility	

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Merrimack Valley Planning Commission

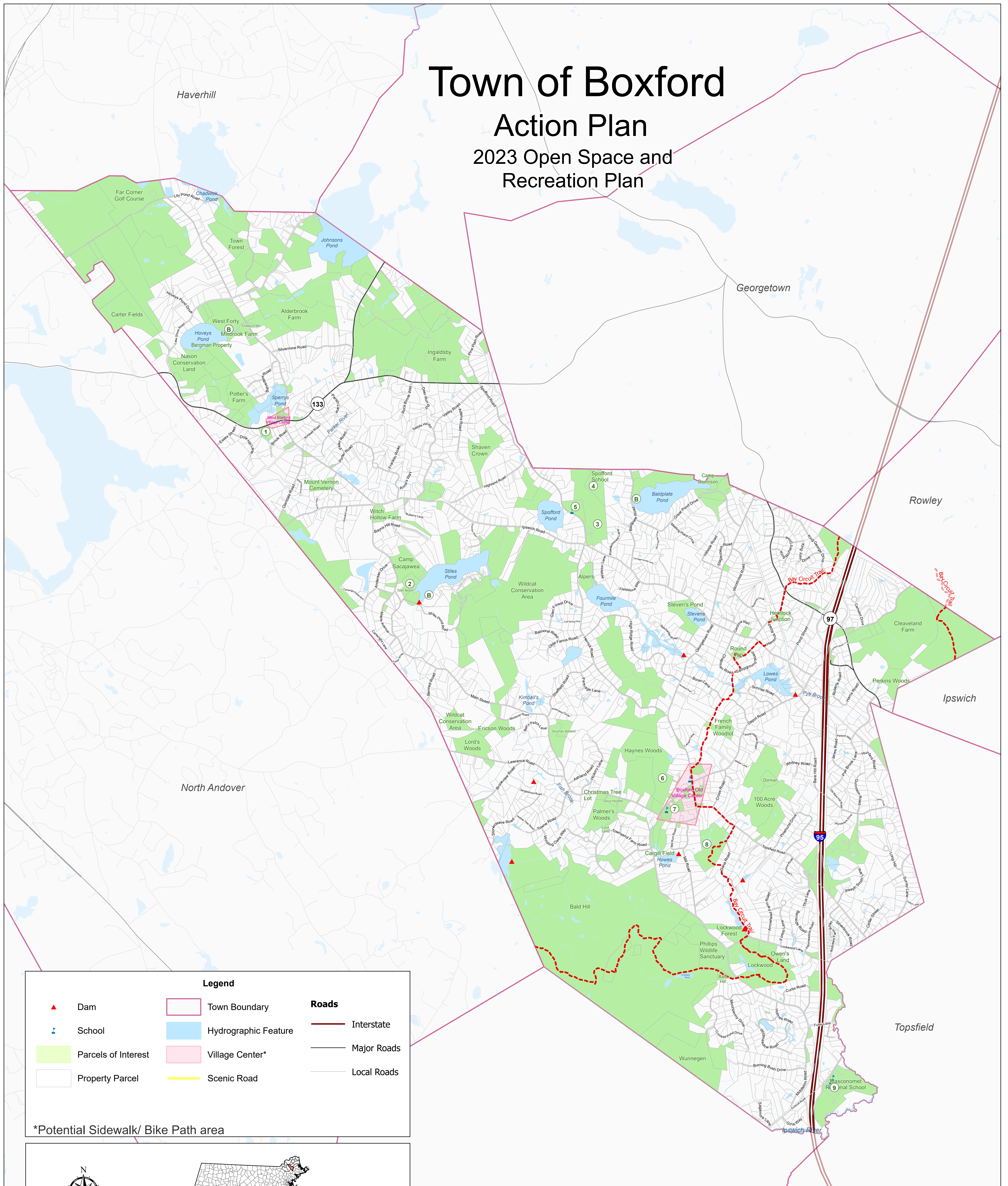
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Town of Boxford

Action Plan

2023 Open Space and Recreation Plan



Legend

	Dam		Town Boundary	Roads	
	School		Hydrographic Feature		Interstate
	Parcels of Interest		Village Center*		Major Roads
	Property Parcel		Scenic Road		Local Roads

*Potential Sidewalk/ Bike Path area

1:21,000

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Printed: April 2023, 08

Recreation Areas	
Morse Field	1
Keith R. Koster Park	2
Johnson Fields	3
Chadwick Fields	4
Spofford Fields	5
Haynes Fields (Proposed)	6
Christopher Cargill Fields	7
Eric Luther Boy Scout Park	8
Masconomet Fields	9
Boat Ramp	B

From: jcaldwellhill@aol.com
To: [Matt Coogan](#)
Cc: [Brendan Sweeney](#)
Subject: Housing Partnership Committee Membership
Date: Wednesday, May 24, 2023 9:51:58 AM

External Sender

Good Morning Matt,

We are meeting with a prospective addition to the Housing Partnership today at 5:30 at Town hall. I believe that the Committee membership is currently limited to 3. We will not be able to formally vote on Dan Walsh until next week, but he looks like an excellent candidate. Could you put us on the agenda after the first to request that the Committee size be increased? You are welcome to stop by to meet Dan if you are around.

Thanks,

Joe Hill

May 24, 2023

Boxford Select Board

Request for consideration to join the Boxford Housing Partnership Committee

Dear members of the Select Board,

I am a long term resident of Boxford, having built my home here over thirty years ago. I am interested in joining the Housing Partnership Committee. I see housing as a major challenge the town will need to face. Given the prevailing mindset against development, navigating the challenge will require strong leadership. The long held priority for land conservation over housing development needs a better balance. If we simply stay the course, the town will be the poster child for increasing state mandates, like the MBTA zoning requirements. There is no doubt that we are in a housing crisis, and affordable housing is a major issue. The Governor has made expanding housing supply one of her main priorities. We are at risk to poor decisions, because we are reacting to each new state initiative.

The goal of the housing partnership committee should be to help the town set a new course, in anticipation of the changes that are coming. To accomplish that will require the town to develop plans that will accomplish creating housing across the affordability spectrum.

I have had a whole career of managing through conflicting interests to reach a worthy goal. I think I can help by being part of a team to take on what is an unpopular choice, but an unavoidable truth. Housing pricing is a function of supply and demand. We simply do not have enough housing to meet the demand of a growing state. The state gave local governance over land development and it is within its power to restrict or eliminate those rights if we do nothing.

Thank you for your consideration.

Daniel Walsh

DANIEL J. WALSH

57 Burning Bush Drive, Boxford, MA 02149
Mobile: (617) 899-1958
walshdaniel007@gmail.com

PROFESSIONAL EXPERIENCE

KADANT INC., Westford, MA

2004 - 2019

Kadant, (NYSE: KAI), is a former majority owned Thermo entity, formally named Thermo Fibertek, (NYSE: TFT). Company was spun off to Thermo shareholders as a special dividend in 2000. The company is a leading supplier to the global pulp and paper industry. The products include paper machine accessories, systems for stock preparation, fluid handling and water management.

Treasurer, Director of Business Development

THERMO FISHER SCIENTIFIC, Waltham, MA

1991 - 2004

Thermo, (NYSE: TMO), is a world leading manufacturer and distributor in the scientific instrument and laboratory supply markets.

President, Thermo Financial Services, 2000 - 2004

Director of Corporate Real Estate, 2000 - 2002

Director of Business Development, Thermo Fibertek, (Kadant, Inc.), 1994 - 1999

Assistant Treasurer, 1991-1994

M/A-COM, INC. (*subsidiary of Tyco Electronics*), Lowell, MA

World-leading developer manufacturer of radio frequency (RF) and microwave semiconductors and components.

Assistant Treasurer, 1984-1991

GILLETTE COMPANY (*manufacturer of consumer products*), Boston, MA

Supervisor of Cash Operations, 1982-1984

Senior Financial Analyst, Paper Mate Division, 1980-1981

EDUCATION

M.B.A. in Finance - Babson College, Wellesley, MA

B.S. in Accounting – Bentley University, Waltham, MA

Commissioned Officer - Massachusetts Military Academy

MANAGEMENT TRAINING

Tufts University, Fletcher School of Law and Diplomacy,
Global Senior Managers Program on full scholarship from International Business Center of New England

Bank of Tokyo Seminar: Ten-day course in Tokyo for training on business practices in Asia,
Practical Process Improvement (Six Sigma type productivity process),

MILITARY

Enlisted: USANG 101st Engineer Battalion, 26 Yankee Division, 2/27/1971, honorable discharge, 1/12/1987, Executive Officer, C Company, Camp Curtis Guild, Wakefield, MA

**BOXFORD HOUSING PARTNERSHIP
SELECT BOARD
APRIL 24, 2023**

Dear Members of the Select Board,

The Housing Partnership requests assistance from the Select Board in establishing the Board of trustees for the Boxford Small Repair Grants Trust. The Trust received final approval from the State in January, 2023 and we are ready to proceed. In Section 3 (a), the Trust document states that the Select Board must appoint the 5 members of the trust. The entire Trust document is also attached as a reference. In anticipation of this, the Housing Partnership has voted to recommend me as their representative to the Trust.

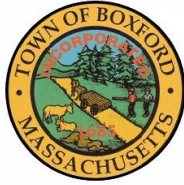
Please let me know if the Housing Partnership can be of any assistance.

Joe Hill
Chair, Housing Partnership

BOXFORD SMALL REPAIR GRANTS TRUST

SECTION 3. (a) The board of trustees shall consist of 5 members to be appointed {BY} the select board of the town of Boxford, 1 of whom shall be a member of the select board, 1 of whom shall be from a resident of the town of Boxford, 1 of whom shall be a member of the town housing partnership committee, 1 of whom shall be a member of the Boxford council on aging and 1 of whom shall be the town administrator or their designee. All members of the board shall serve for 2-year overlapping terms, except the town administrator or their designee.

Initially, appointments to the board of trustees shall be staggered terms, with 2 members serving for 1-year terms and 2 members serving for 2-year terms. The members of the board shall serve without compensation but shall be reimbursed by the trust for expenses incurred in the performance of the member's duties.



TOWN OF BOXFORD
Office of the Town Administrator
7A Spofford Road
Boxford, MA 01921

DATE: June 8, 2023
TO: Select Board
FROM: Brendan Sweeney, Assistant Town Administrator
RE: **FY24 Waste Management Curbside Collection Contract**

Since the decision was made by Town policymakers in May to opt for a one-year extension of the Town's manual curbside collection contract with Waste Management (WM), a decision that was affirmed by the relevant Town Meeting votes (FY24 budget, trash sticker fee), I have been working with Waste Management to negotiate the terms of the one-year extension for Fiscal Year 2024 (FY24). Through this process, I've come to a tentative agreement with WM's representatives that is now subject to your approval and signature. The key terms of this agreement are as follows:

Contract Period	Annual Curbside Collection Rate	Solid Waste Disposal Rate Per Ton	Recycling Processing Fee Per Ton
July 2023 - June 2024	\$815,905	\$95.00	\$135.00

- The contract terms shown in the table above are the same as what was offered for a one-year manual collection extension in December 2022, adjusted by an additional \$48,025 added on to the base rate to account for the \$37.65/hour prevailing wage rate.
 - There is no prevailing wage variable cost included in this contract.
- There is no limit on the number of households that WM will service, consistent with the terms of the Town's current five-year contract with WM.
- The number of holidays will be reduced from 11 to 6 days, with the removal of the following holidays: Martin Luther King Day, President's Day, Patriots Day, Columbus Day, and Veteran's Day.
 - WM agreed to send a mailer to all Town residents notifying them of this change by July 1st.

Per Chapter 32, section 32-10 of the Town's General Bylaws, the Select Board and its designated procurement officer(s) are the only entities authorized to enter into any contract on behalf of the Town. While the Board of Health does not have the independent authority to enter into contracts on behalf of the Town, I am recommending that they also vote to approve the terms of this contract (to be considered during their June 14th meeting), given their role with regards to oversight of the proper implementation of the terms of the agreement.

As you are all aware, the FY24 Town budget was adjusted prior to Town Meeting to include sufficient funds to cover the cost of this one-year extension. Therefore, I am recommending that Board move to approve and sign the attached contract during your June 12th meeting.

TOWN OF BOXFORD
7A Spofford Road, Boxford, MA 01921

CONTRACT FOR: Collection and disposal of refuse and recyclables.

This Contract is made this ___ day of JUNE, 2023 by and between the Town of Boxford, a municipal corporation located within the Commonwealth of Massachusetts (hereinafter, the "Town"), and Waste Management of Londonderry, Inc., a corporation with a business address of 26 Liberty Drive, Londonderry, NH 03053 (hereinafter, the "Contractor").

ARTICLE I
SCOPE OF SERVICES

The Contractor shall furnish services in accordance with the attached specifications. Work to include:

Curbside Collection and disposal of refuse and recyclables as more fully described in the attached specifications.

ARTICLE II
TERM OF CONTRACT

This Contract shall be effective July 1, 2023 and shall terminate June 30, 2024.

ARTICLE III
COMPENSATION

1. **Contract Sum:** The Town shall pay the Contractor monthly, in current funds for the performance of the work described in the attached specifications, as invoiced in accordance with the described compensation as set forth in Exhibit A attached hereto.
2. **Payment Schedule:** Compensation for the services pursuant to this Contract shall be paid on proper acceptance by the Town of the services provided pursuant to the Specifications. The Contractor will submit monthly invoices to the Town in accordance with the described compensation as set forth in Exhibit A attached hereto. Invoices will be for the previous month's work and MUST be accompanied by (1) the appropriate weekly record of pay rates demonstrating compliance with prevailing wage rates if required (see

Specifications Appendix 6), (2) the daily telephone logs for the month (see Specifications section 1.9.2), (3) a monthly report of non-compliance with sticker usage (see Specifications section 1.5.3), and (4) the household waste trash weight reports, and (5) the recycling weights report (see Specifications Section 1.9.3). The Town shall make payments within thirty (30) days of the invoice date.

3. **Prevailing Wage:** In accordance with Massachusetts General Laws, Chapter 149, Section 27F, any contractor employee operating trucks, vehicles and other equipment shall be paid the prevailing minimum wage rates for said job. Wage sheet is made a part of this contract in Specifications Appendix 6. The "Weekly payroll records report and statements of compliance" shall be submitted to the Town pursuant to State Department of Labor Regulations as part of the payment invoice.

The Town has provided the Prevailing Wage Rate ("PWR") Schedule for this Contract attached hereto as Appendix 6. Town shall provide any PWR Schedule updates it receives in response to a request to DLS, or from any other source to Contractor within three (3) business days of Town's receipt.

To the extent the Town fails to request updates to the PWR Schedule from the DLS or fails to provide updates to the PWR Schedule it receives to Contractor on a timely basis as described above, the Town shall be responsible to reimburse Contractor for additional payments Contractor is required to make to its employees as a direct result of said failure.

ARTICLE IV

LIQUIDATED DAMAGES FOR FAILURE TO PERFORM

The Town will notify the Contractor of each violation of the Contract. It will be the duty of the Contractor to take whatever steps may be necessary to remedy the cause of the complaints within twenty-four hours or as specified below.

Failure to remedy the cause of the complaints will be considered a breach of the Contract and for the purpose of computing damages under the provision of this section it is agreed that the Town may deduct from payments due or to become due the Contractor, the following amounts as liquidated damages:

1. One Hundred Dollars (\$100) for each failure to collect all refuse or recyclables from an establishment as specified in Sections 1-5 and 1-6 of this specifications document.

2. One Hundred Dollars (\$100) for each failure to pick up rubbish or recyclables spilled by the Contractor.
3. A minimum of Twenty Dollars (\$20) for each residential container which has been substantially damaged due to the intentional misconduct or negligent mishandling by the Contractor, its agents, or employees.
4. One Hundred Dollars (\$100) for each failure to collect refuse or recyclables in accordance with the schedule set forth in this specification without the prior written approval of the Board of Health. (As described in Section 1-4 of this specifications document)
5. One Hundred Dollars (\$100) for each occurrence of operating during prohibited hours or days of operation. (As described in Section 1-4 of this specifications document) without the prior written approval of the Board of Health.
6. Fifty Dollars (\$50) for each incident of leaving residential containers in the public way impeding traffic as noted by Boxford Police.
7. Twenty Dollars (\$20) for each incident of unauthorized collection of overflow refuse not appropriately affixed with a sticker, or otherwise unacceptable as described in Section 1-3 of this specifications document
8. Twenty Dollars (\$20) for each failure to respond to complaints expeditiously or to maintain a daily telephone log (As described in Section 1.9.2 of this specifications document)
9. Fifty Dollars (\$50) for each incident of leaving residential containers in a residential driveway and in so doing impeding entry into that driveway.

After notice to the Contractor by the Town and/or resident and failure by the Contractor to fully remedy any violation of the above listed items, within 48 hours of such notice, the Town may elect to perform services to correct the above-listed items, and the Contractor will be subject to liquidated damages specified herein. For repeated violation of the same item, after the issuance of the third notice in any three-month period, the Town is no longer required to provide advance

notice and the Town may elect to perform services to correct the above-listed items, and the costs incurred by the Town will be added to the stated liquidated damages.

No liquidated damages may be assessed should the Contractor provide GPS confirmation that its vehicle travelled a street where a claim for missed service has been logged. In this scenario, the Contractor is under no obligation to return to the street in question to remedy the claim for missed service. In the event the Contractor is requested by the Town to return to a street that has been serviced as evidenced by GPS, then Contractor may charge the Town \$50 for each such incident, provided that GPS confirmation has been presented to the Board of Health or its representative and the Town has still requested that the Contractor return to the relevant street to service the household in question.

In the event the Contractor fails to supply sufficient equipment and personnel to collect the refuse each day, then automatically the Contractor is required to add additional equipment and personnel as soon as reasonably practical.

In the event the Contractor fails to collect the refuse on schedule and allows the refuse to accumulate for 48 hours, then without prior notice the Town may elect to engage an outside contractor to perform the work of the Contract or elect to collect said refuse by any means, and all cost incurred will be deducted from the Contract sum.

In the event the Contractor has excessive equipment breakdowns or labor disputes or causes delay in collection of refuse for any reason, except as excluded by a Force Majeure event as defined in this Agreement, then the Town may elect, after 48 hours, to engage an outside contractor, or use any means to collect the refuse and deduct from this Contract all costs incurred with prior notice.

In the event the Contractor does not comply with all aspects of legal operations, as required by all governmental agencies, and said violation prevents the Contractor from timely performance under the terms and conditions of the contract for a 48-hour duration, then the Town may, without prior notice, engage an outside Contractor, or elect to collect said refuse by any means, and the cost will be deducted from the Contract sum.

The Contractor without reservation must perform timely, legally, and must legally dispose of all refuse at a facility licensed by the Commonwealth of Massachusetts Department of Environmental Protection (or the equivalent in another State) and recyclables at an authorized Recycling Center. Any refuse turned away from the disposal site will be the property of the

Contractor and will not be returned to the Town of Boxford but must be disposed of in a legal and responsible manner by the Contractor.

Assessment of liquidated damages will be determined by the Town, whose decision in the matter will be final and binding, unless appealed in writing to the Board of Health through its Health Agent within (5) days after notice, whose decision will be final and binding. Nothing, however, would prevent the Contractor from any rights available to it to dispute such assessment in a court of jurisdiction.

If the Contractor allows any of the following situations to occur, the Town may terminate this contract within five (5) days from the date of giving written notice of such termination to the Contractor if the Contractor does not remedy the matter:

- Fails to collect and deliver the refuse under the terms and in the manner specified in this document within 48 hours of the scheduled collection day (weekends and holidays excluded) (more than six violations per any three-month period);
- Fails to maintain the required bonding or insurance coverage;

ARTICLE V **AFFIRMATIVE ACTION**

The parties hereto agree that it shall be a material breach of this Contract for the Contractor to engage in any practice which shall violate any provision of Massachusetts General Laws, Chapter 151B, relative to discrimination or privileges of employment on basis of race, color, religion, sex, national origin, ancestry, age, sexual orientation or disability.

ARTICLE VI **COMPLIANCE WITH LAWS**

This Contract shall be considered to incorporate by reference all applicable federal, state and local laws and rules and regulations of all authorities having jurisdiction over collection, transportation and disposal of solid waste and recyclable material, as though such provisions were set forth in full therein. The Contractor shall keep fully informed of all federal, state and local laws, and municipal ordinances, bylaws and regulations in any manner affecting those engaged or employed in the work, or the materials used in the work, or in any way affecting the

conduct of the work and of all such orders and decrees or bodies or tribunals having any jurisdiction or authority over the same.

ARTICLE VII
PERMITS AND APPROVALS

The Contractor shall obtain and pay for all licenses and permits necessary for collecting, transporting and marketing recycling materials and/or collecting, transporting and disposing of solid waste material.

ARTICLE VIII
OSHA TRAINING

All employees of the Contractor working in the Town must have a minimum of ten (10) hours of relevant OSHA or equivalent training.

ARTICLE VIII
INDEPENDENT CONTRACTOR

The Contractor acknowledges and agrees that it is acting as an independent Contractor for all work and services rendered pursuant to this Contract, and shall not be considered an employee or agent of the Town for any purpose.

ARTICLE IX
TOWN'S LIABILITY

The Town's liability under this Contract shall be to make all payments when they shall become due, and the Town shall be under no further obligation or other liability. Nothing in this Contract shall be construed to render the Select Board, Board of Health, or any other officer of the Town, or their successors in office, personally liable or any obligation under this Contract.

ARTICLE X
INDEMNIFICATION

The Contractor shall indemnify, defend, and hold the Town harmless from and against any and all claims, demands, liabilities, actions, causes of actions, costs and expenses, including attorney's fees, to the extent arising out of the Contractor's breach of this Agreement or the negligence or misconduct of the Contractor, or the Contractor's agents or employees. If any such claim is made, the Town may retain out of any payments, then or thereafter due to the Contractor, a sufficient amount to protect the Town against such claims, costs and expenses.

In no event, whether in contract, tort or otherwise shall either party be liable to the other for any special, indirect, or incidental damages.

ARTICLE XI
INSURANCE

The Contractor will take out and maintain during the term of the contract insurance as specified below and, in such form, as will protect him performing work covered by the contracts from all claims and liability for damages for bodily injury including accidental death and for property damage which may arise from operations under this Contract.

Except as otherwise stated, the amounts of insurance will be for each policy, not less than:

1. Commercial General liability for bodily injury including accidental death and property damage, \$1,000,000 combined single limit for any one occurrence and \$3,000,000 Aggregate limit. Extra-territorial clause will be included.
2. Commercial Automobile liability for bodily injury including accidental death and property damage \$1,000,000 combined single limit for any one occurrence. Extra-territorial clause will be included.
 - a) Worker's Compensation insurance as may be legally required to protect the Contractor(s) under state and federal laws, with a minimum limit of \$500,000.
 - b) Commercial General Liability Bodily Injury and Property Damage, Premise-Operations, Independent Contractors and Completed Operations Public Liability Insurance, in the amounts required in (1) above.
 - c) Commercial Automobile Bodily Injury and Property Damage Liability Insurance covering the operation of all motor vehicles owned by the Contractor and vehicles not owned by the contractor, while such vehicles are being operated in connection with the prosecution of the work under this Contract, in the amounts required in (2) above.
 - d) Contractual Liability insurance covering liability assumed by the Contractor in amounts required under (1) and (2) above.
 - e) In addition, the Contractor is to obtain and maintain pollution liability insurance of at least \$1,000,000 per occurrence/\$3,000,000 aggregate for the term of this contract,
 - f) In addition, the Contractor is to provide a \$5,000,000 umbrella policy.

THE TOWN OF BOXFORD WILL BE LISTED AS ADDITIONAL INSURED ON ALL INSURANCE REQUIRED ABOVE (except Workers' Compensation).

Prior to approval of the Contract by the Town, the Contractor(s) will provide the Town with certificates evidencing that the above insurance is in full force and effect and providing that all insurers providing coverage thereunder will not cancel said coverage except after 30 days prior to notice to the Town (ten days prior notice applies to cancellation for non-payment of premium). Failure of the Contractor(s) to provide and continue in force such insurance will be deemed a material breach of the contract and will be considered cause for the Town to elect to terminate the contract.

The required insurance will be written with a company having an A.M. Best rating of A, XII or higher, that said insurance company should meet with the approval of the Town, and will be with a company licensed to perform business in the State of Massachusetts and approved by the Town. The required rating of the insurance company may be amended by the Town at his discretion.

Contractor agrees to carry, for the benefit of the Town, Contractual Liability Insurance insuring its obligations under the above indemnity in an amount of not less than \$1,000,000 and otherwise complying with the other provisions of said Section 2 governing insurance coverage required to be maintained by Contractor under the contract.

All policies shall identify the Town as an additional insured (except Workers' Compensation) and shall provide that the Town shall receive written notification at least 30 days prior to the effective date of any amendment or cancellation as noted above.

ARTICLE XI **APPROPRIATION**

This contract is subject to the availability and appropriation of funds. The Town shall cancel this contract if funds are not appropriated or otherwise made available to support continuation of performance during any contract period as provided in M.G.L. Chapter 30B, section 12 and Chapter 44, section 31.

ARTICLE XIII
TITLE TO WASTE

The contractor shall receive title to all solid waste and recyclable material upon its collection at the curbside. The Town shall not be considered the generator of such waste for any purpose.

ARTICLE XIV
PERFORMANCE BOND

The Contractor will produce a Performance Bond for the full amount of the contract. The required bond will be written with a company having an A.M. Best rating of A+, XII or higher, that said Bond Company should meet with the approval of the Town, and will be with a company licensed to perform business in the State of Massachusetts and approved by the Town. The rating of the insurance company may be amended by the Town at his discretion.

Failure of the Contractor to acquire and keep in force an acceptable performance bond for the term of this Contract will be reason for the Town to terminate the Contract.

ARTICLE XV
ASSIGNMENT

The Contractor shall not assign, sublet or otherwise transfer this Contract, in whole or in part, without the prior written consent of the Town, and shall not assign any of the monies payable under this Contract, except by and with the written consent of the Town.

ARTICLE XVI
INSPECTION AND REPORTS

The Town shall have the right at any time to inspect the work of the Contractor, including the right to enter upon any property owned or occupied by the Contractor, whether situated within or beyond the limits of the Town. Whenever requested, the Contractor shall immediately furnish to the Town full and complete written reports of his operation under this Contract in such detail and with such information as the Town may request.

ARTICLE XVII
CONTRACTOR'S REPRESENTATIONS

The Contractor represents that the Contractor has familiarized itself with the nature and extent of the Contract Documents, Work, locality and with all local conditions and federal, state and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the Work. The Contractor has read, is familiar and shall comply with all laws and regulations applicable to the performance of the work on the project.

ARTICLE XVIII
CONTRACT DOCUMENTS

The Contract Documents which comprise the entire agreement between Town and Contractor are attached to this Agreement and made a part hereof and consists of the following:

1. This Agreement (Contract page 1 through Contract page 18, and Exhibit A inclusive).
2. Specifications for Curbside Collection and Disposal of Municipal Refuse and Recyclables in the Town of Boxford July 1, 2023 through June 30, 2024 (Specifications Page 1 through Specifications page 33 inclusive of all appendices)

ARTICLE XIX
TERMINATION

Termination for Cause. If at any time during the term of this Agreement the Town determines that the Contractor has breached the terms of this Agreement by negligently or incompetently performing the service, or any part thereof, or by failing to perform the service in a timely fashion, or by failing to perform the service to the satisfaction of the Town, or by not complying with the direction of the Town or its agents, or by otherwise failing to perform this Agreement in accordance with all of its terms and provisions, the Town shall notify the Contractor in writing stating therein the nature of the alleged breach and directing the Contractor to cure such breach within ten (10) days. The Contractor specifically agrees that it shall indemnify and hold the Town harmless from any loss, damage, cost, charge, expense or claim arising out of or resulting from such breach regardless of its knowledge or authorization of the actions resulting in the breach. If the Contractor fails to cure said breach within ten (10) days, the Town may, at its election at any time after the expiration of said ten (10) days, terminate this Agreement by giving written notice thereof to the Contractor specifying the effective date of the termination. Upon receipt of said notice, the Contractor shall cease to incur additional expenses in connection with

this Agreement. Upon the date specified in said notice, this Agreement shall terminate. Such termination shall not prejudice or waive any rights or action which the Town may have against the Contractor up to the date of such termination, and the Contractor shall be liable to the Town for any amount which it may be required to pay in excess of the compensation provided herein in order to complete the work specified herein in a timely manner through the date of termination. Upon such termination, the Contractor shall be entitled to compensation for all satisfactory work completed prior to the termination date, as determined by the Town.

ARTICLE XX
NOTICE

Any and all notices, or other communications required or permitted under this Contract, shall be in writing and delivered by hand or mailed postage prepaid, return receipt requested, by registered or certified mail or by other reputable delivery service, to the parties at the addresses set forth on Page 1 or furnished from time to time in writing hereafter by one party to the other party.

Any such notice or correspondence shall be deemed given when so delivered by hand, if so mailed, when deposited with the U.S. Postal Service or, if sent by private overnight or other delivery service, when deposited with such delivery service.

ARTICLE XXI
SEVERABILITY

If any term or condition of this Contract or any application thereof shall to any extent be held invalid, illegal or unenforceable by the court of competent jurisdiction, the validity, legality, and enforceability of the remaining terms and conditions of this Contract shall not be deemed affected thereby unless one or both parties would be substantially or materially prejudiced.

ARTICLE XXII
GOVERNING LAW

This Contract shall be governed by, construed and enforced in accordance with the laws of the Commonwealth of Massachusetts and the Contractor submits to the jurisdiction of any of this appropriate courts for the adjudication of disputes arising out of this Contract.

ARTICLE XXIII
ENTIRE AGREEMENT

This Contract, including all documents incorporated herein by reference, constitutes the entire integrated agreement between the parties with respect to the matters described. This agreement supersedes all prior agreements, negotiations and representations, either written or oral, and it shall not be modified or amended except by a written document executed by the parties hereto.

ARTICLE XXIV
CONTRACTOR CERTIFICATION

By signing this contract, the contractor certifies that under penalties of perjury, the contractor has filed all State tax returns and has paid all State taxes required under law. The contractor certifies under the penalties of perjury that its proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word “person” shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

ARTICLE XXV
FORCE MAJEURE

Except for the failure to make payment when due, neither party shall be in default for its failure to perform or delay in performance caused by an Uncontrollable Circumstance, and the affected party shall be excused from performance during the occurrence of such events. For purposes of this Agreement, “Uncontrollable Circumstances” means any act of terrorism, act of God, landslides, lightning, forest fires, storms, floods, typhoons, hurricanes, severe weather, freezing, earthquakes, volcanic eruptions, other natural disasters or the imminent threat of such natural disasters, pandemics, quarantines, civil disturbances, acts of the public enemy, wars, blockades, public riots, labor unrest (e.g., strikes, lockouts, or other labor disturbances), acts of domestic or foreign governments or governmental restraint or other causes, whether of the kind enumerated or otherwise, and whether foreseeable or unforeseeable, that are not reasonably within the control of a party. Whenever Uncontrollable Circumstances shall occur, the party claiming to be adversely affected thereby shall, as promptly as practicable, use all reasonable efforts to eliminate the cause therefor, reduce costs and resume performance under this Agreement. Continued prevention from performance by such causes for periods aggregating thirty (30) or more days shall be deemed to render performance impossible, and either party shall thereafter have the right to terminate this Agreement.

It is agreed, however, that since performance dates of this Agreement are important to the implementation of requested services, continued failure to perform for periods aggregating thirty (30) or more days, even for causes beyond the reasonable control of the Contractor, shall be deemed to render performance impossible, and the Town shall thereafter have the right to terminate this Agreement in accordance with its terms.

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The terms and conditions of this contract and all accompanying documentation
aforementioned in ARTICLE XVIII were approved by the Town of Boxford Board of
Health during their meeting on ___ day of _____, 2023.

TOWN OF BOXFORD
BOARD OF HEALTH

**IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and
year first above written.**

TOWN OF BOXFORD
SELECT BOARD

WASTE MANAGEMENT
OF LONDONDERRY, INC.



(Signature)

Christopher DeSantis, President
(Name and Title)

EXHIBIT A

One Year Manual Collection Service Rate Schedule

Contract Period	Annual Curbside Collection Rate	Solid Waste Disposal Rate Per Ton	Processing Fee Per Ton
July 2023 - June 2024	\$815,905	\$95.00	\$135.00

Rate Adjustments

1. Extraordinary Adjustments. The Rates shall, upon written request of Company, be further adjusted to fully capture increased expenses and lost revenue associated with performance of the Collection Services hereunder due to any one or more of the following causes:
 - i. Uncontrollable Circumstance (see Article XXV);
 - ii. Changes in Applicable Law that is effective after the Effective Date of this Agreement;
 - iii. Increase in surcharges, fees, assessments or taxes levied by federal, state or local regulatory authorities or other governmental entities related to the Collection Services;
 - iv. Any other extraordinary circumstances or causes or reasons that are not within the reasonable control of Contractor.

2. A surcharge or credit will be applicable for changes in the price of diesel fuel. The adjustment is to be based on the increase or decrease of diesel fuel cost, as measured by the U.S. Department of Energy, Energy Information Administration, (website <http://tonto.eia.doe.gov/oog/info/gdu/gasdiesel.asp>) for the New England region, from the established baseline cost of \$2.50 per gallon (including taxes) of diesel fuel. The increase or decrease, as determined above, will be applied to the volume of fuel used, which will be fixed at 1151 gallons per month. Adjustments will be made biannually on July 1 and January 1, based on the cost of diesel for the six calendar months prior to adjustment (1/1/23 to 6/30/23 for the July 2023 adjustment).

Adjustment Example:

Fuel Price (Avg. 6 months per DOE)	= \$2.30 per Gal
Established Baseline Fuel price	= \$2.50 per Gal
Increase /(decrease)	= (\$0.20 per Gal)
Fuel Adjustment (\$0.20 x 1151 Gals)	= (\$230.20) per mo.

In the above example, the Town of Boxford would receive a credit of \$230.20 per month for the six months subsequent to the first adjustment period.

2. A charge or credit will be applicable for the processing and marketing of recyclables materials collected in accordance with the terms and conditions set forth below.

RECYCLABLE MATERIAL PROCESSING AND MARKETING SERVICE

1. VALUE SHARE

Where the Blended Value is greater than the Processing Fee, Town's value share is 50% of the difference between the Blended Value and the Processing Fee. When the Blended Value is less than the Processing Fee, Town shall pay Contractor the difference between the Processing Fee and the Blended Value.

2. CHARGES

- (a) The initial Processing Fee is **\$135.00** per delivered ton.
- (b) The initial Residue Fee is **\$100.00** per delivered ton.
- (c) The initial Excess Contamination Fee is **\$225.00** per ton.
- (d) Contract Term is one year effective on July 1, 2023.

3. BLENDED VALUE

To calculate the Blended Value per ton of the Single Stream,

- (a) The percentage of each Recyclable and Residue component set forth below contained in the Single Stream Materials as established and revised from time-to-time by the Composition Audits, is multiplied by current value of each commodity set forth below; and
 - (b) Each commodity value per ton is added together to obtain the Blended Value per ton.
- Town acknowledges that the value of a commodity may be negative.

Blended Value is calculated monthly.

- "PPI" means the higher of the prices issued by *RISI PPI Pulp & Paper Week* for the New England Region, Domestic Price, 1st issue of the month retroactive to the first of the month.
- "SMP" means the higher of the price published at www.SecondaryMaterialsPricing.com, for the New York Region, first dated price each month, retroactive to the first of the month.
- If PPI or SMP (or both) is no longer reflective of prevailing market conditions or if an alternative publication more accurately reflects such market conditions, then Contractor may propose to use any such alternative publication(s) or alternate method to determine the value of each commodity set forth below. Town's consent, which shall not be unreasonably withheld, conditioned or delayed, to the use of such alternate publication or method shall be required.
- Notwithstanding anything to the contrary contained herein, if Contractor determines prior to the 10th of the month, that the anticipated Actual Value for any commodity will be more than 10% lower than the index published for such commodity that month, due to market conditions, Contractor may substitute the anticipated Actual Value as established on or about the 10th of the month for the index value that month.

- “Actual Value” means the average price paid to or charged the Designated Facility during the month of delivery of the Single Stream Materials, minus any freight, customs charges, duties, or other charges paid to third parties for such sales.
- Town shall pay Contractor a charge for each ton of residue delivered (“Residue Fee”).
- The initial composition of the Town’s Recyclables shall be presumed to be as set forth below and may be adjusted by the Company from time to time to reflect either changes in composition at the recycling facility or following the completion of a Composition Audit.

4. EXCESSIVE CONTAMINATION

Contamination Audit. Where a Contamination Audit determines that Town’s percentage of Non-Recyclables exceeds (7.3 %), the total tons used to calculate Blended Value shall be reduced by the amount of excess contamination. Excess contamination shall be charged at the per ton rate specified herein.

By way of example March 2023 only (if the contamination audit shows 12.3% contamination):

Blended Value = \$19.59

Company Processing Fee = \$135.00

Excess Contamination = 5%

Excess Contamination Fee = \$225.00

100 tons delivered in the month

Town Value/Charges = Value: Blended Value – Processing Fee = (\$19.59 - \$135.00) per ton = \$115.41 charge per ton x 95 tons (100 total tons x 95% meeting 7.3% contamination threshold) = (\$10,963.95) charge per month

Excess Contamination Fee: \$225.00 per ton x 5 tons (100 total tons x 5% exceeding the 7.3% contamination threshold) = \$1,125.

Total Charge: \$10,963.95 + \$1,125 = \$12,088.95 for the month

SINGLE STREAM COMPOSITION AND BLENDED VALUE CALCULATION

Example: Town of Boxford March 2023 Blended Value Calculation - Single Stream				
Commodity	Index *	Composition %	Market Value/Ton	Values
Cardboard, and brown papers	PPI OCC #11 HS NE	20.20%	\$ 35.00	\$ 7.07
Mixed Paper	PPI Mixed Paper #54	43.15%	\$ 5.00	\$ 2.16
Aluminum / beverage cans	SMP for Aluminum Cans (LOOSE, ¢/lb, dropped off at RC)	0.80%	\$ 1,400.00	\$ 11.20
Steel/Tin	SMP for Steel Cans (Sorted, Densified, (\$/Ton delivered)	2.60%	\$ 15.00	\$ 0.39
Plastic #1	SMP for PET (baled, ¢/lb. picked up)	3.20%	\$ 300.00	\$ 9.60
Plastic #2 Natural	SMP for Natural HDPE ((baled, ¢/lb. picked up)	0.36%	\$ 1,460.00	\$ 5.26
Plastic #2 Colored	SMP for Colored HDPE ((baled, ¢/lb. picked up)	1.40%	\$ 300.00	\$ 4.20
#5 Plastic PP	Plastics PP Post Consumer (baled, ¢/lb. picked up)	0.30%	\$ 200.00	\$ 0.60
Glass	Actual Value	20.70%	\$ (65.63)	\$ (13.58)
Non-Recyclables Costs	T & D - Fixed	7.30%	\$ (100.00)	\$ (7.30)
Total/Blended Value		100.00%		\$ 19.59
FY24 Processing Fee Per Ton			(\$135.00)	
March 2023 Blended Value			\$19.59	
March 2023 Net Charge Per Ton			(\$115.41)	

**Specifications for
Curbside Collection and Disposal of Municipal Refuse and Recyclables
Town of Boxford
July 1, 2023 through June 30, 2024**

The specifications as follows will form part of this Contract and the provisions thereof will be binding upon signatories.

Overview

This is a one-year contract with the Town of Boxford, Massachusetts (the "Town") that includes curbside collection of residential and municipal solid waste and recyclables at ALL participating residences (except for Four Mile Village, where only recycling will be collected, and at the Willows at Boxford condominiums) and specified municipal buildings in the Town of Boxford, and transportation of refuse to an approved disposal site, and recycling of collected recyclables (consisting of plastics numbers one, two, three, four, five, six and seven, corrugated cardboard, newspaper, magazines, cans, and glass). Requested services will commence on July 1, 2023.

The services to be provided by Waste Management of Londonderry, Inc. (the "Contractor"), shall be as follows: 1) collection of refuse and recyclables as well as transport and disposal at a facility licensed by the Commonwealth of Massachusetts Department of Environmental Protection (or the equivalent in another State); 2) said collection shall be accomplished on a four work days per week schedule approved by the Boxford Board of Health; and 3) refuse and recycling pick-up shall be matched such that both services shall be on the same day of the week for each residence and municipal building.

SECTION ONE - SPECIFICATIONS

1-1 - Definitions

1.1.1 "Acceptable Refuse" shall mean mixed household solid waste (including trash, refuse and garbage), which has characteristics such as that solid waste which is normally produced by residences and picked up by standard packer-type refuse trucks from the residential solid waste stream of the Town, except for "acceptable recyclables" and "unacceptable refuse" as described below.

1.1.2 "Acceptable Recyclables" shall consist of glass containers (green, amber, and clear), plastics (see definition 1.1.3 below), newspaper (see definition 1.1.4 below), corrugated cardboard (see definition 1.1.5 below), cans (bi-metal and aluminum), aseptic milk and juice cartons, caps and lids of jars and bottles, from residential and municipal sources. These materials must be recycled by the Contractor provided a commercially viable market for recycling exists.

1.1.3 "Plastics" shall be all rigid #1, #2, #3, #4, #5, #6, and #7 plastic containers with recycling arrows and may be clear and colored.

1.1.4 "Newspaper" shall be #6 News as defined by The International Scrap Circular and may contain magazines and small quantities of paperboard containers (merchandise boxes, pasta boxes, cereal boxes, with waxed paper liners removed), paper bags, junk mail, and a normal percentage of NYNEX phone books.

1.1.5 "Corrugated Cardboard" shall mean brown packing boxes with sandwiched layers cut to 30" squares or smaller, tied in bundles, and placed in the recycling bins.

1.1.6 "Unacceptable Refuse" shall mean household solid waste which will not be collected as part of this contract. This includes white goods, tires, lead batteries, construction debris, waste oil, hazardous waste, or any material defined as such in the Town of Boxford Board of Health's Rules and Regulations, as may be amended, over the contract duration.

1.1.7 "Recycling" shall mean to recover material or by-products which are to be reused; or which are to be employed as an ingredient or a feedstock in an industrial or manufacturing process to make a product; or which are to be employed in a particular function or application as an effective substitute for a commercial product or commodity.

1.1.8 "Holidays" shall refer exclusively to the following six days: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

1.1.9 "Collection Days" shall refer to the Monday – Thursday scheduled weekdays approved by the Boxford Board of Health as approved days for the Contractor to collect refuse and recyclables within the Town of Boxford.

1-2 - Scope of Work

1.2.1 Work included as part of this contract includes weekly curbside collection of refuse and recyclables at all residences and specified municipal buildings in the Town of Boxford. It will also include furnishing municipal buildings with separate containers for refuse and recyclables as needed. Work includes transport and disposal of refuse at an approved disposal site and transport and disposal of recyclables at an approved recycling facility.

1.2.2 Collection of refuse will be done in four workdays and collection of recycling shall be done on the same four workdays.

1.2.3. Work not included as part of this contract includes collection or transportation of refuse or recyclables at any municipal building not identified in this specification, at any building or location owned or operated by state or federal agencies, commercial establishments, religious institutions, office buildings, or any tax-exempt properties or buildings not specifically identified in this specification.

1.2.4. Collection of refuse and recyclables shall use a manual collection system using collecting refuse and recycling from the residents within the Town. Contractor will collect up to 5 barrels or bags with stickers and a recycling bin from each residence

1-3 - Limitations

1.3.1 The Contractor will not collect refuse or recyclables:

1. Without trash collection stickers issued by the "Town of Boxford affixed to said refuse, One sticker shall be used on each bag or the top bag of each 32-gallon barrel level 'filled Stickers are to be attached to the top item in a level filled barrel or to each separate refuse bag,
2. If it is without a trash collection sticker issued by the Town of Boxford affixed to no more than five (5) plastic bags containing said refuse or five 32-gallon barrels.
3. Which is not in conformance with the Town of Boxford Board of Health Rules and Regulations (Town of Boxford Chapter 204 Solid Waste) (Appendix 1) or the Massachusetts Department of Public Health 105 CMR Sections 410.600 and 410.601 (Appendix 2), "Garbage and Rubbish Storage and Disposal" or the Massachusetts Department of Environmental Protection 310 CMR 19.00 Solid Waste Management.
4. Which does not meet the definitions of acceptable refuse or acceptable recyclables as defined herein and is clearly visible to the driver before emptying said container.
5. From any single container whose gross weight exceeds 50 pounds.
6. Any container of refuse which contains recyclable materials clearly visible to the driver before emptying said container.

1.3.2 In addition, each residential unit shall be limited to placing no more than five (5) barrels or bags with a town approved sticker and up to (2) recycling bins on any single collection day.

1-4 - Schedule

1.4.1 Curbside collection of refuse and recyclables will begin on July 1, 2023 and continue through June 30, 2024.

1.4.2 Collection Days will not be Saturdays, Sundays, or Holidays, except for delays due to weather and approved by the Board of Health. Each housing unit will be collected on the same day of the week every week based on the pre-determined schedule for refuse and recycling collections. Collection Days may be deferred to a later day than scheduled if extreme weather conditions prevail, such as heavy snowstorms or hurricanes, but only with the prior approval of the Board of Health or its designated agent, which approval shall not unreasonably be withheld. In the event this occurs, the Contractor must return to the approved schedule during the next calendar week.

1.4.3 In the event a holiday occurs on a collection day, the collection will be made the following workday and any other subsequent collections during the week wherein a holiday occurs on a collection day will be made one day later. If this occurs, collection may occur on Saturday during that week if necessary, but the schedule must return to the approved schedule during the next calendar week.

1.4.4 Collections at schools will not occur within one-half hour of the opening and closing of each school nor during the time when students are being dropped off or picked up from the schools. The Contractor will contact the Boxford School Superintendent to coordinate the schedule for collection.

1.4.5 Residential collection of recyclables will occur weekly, on the same days as refuse is collected.

1.4.6 Collection of refuse and recyclables at municipal buildings structures will be as specified in Section 1-6 Municipal Collection.

1.4.7 The Contractor will submit to the Board of Health, both in writing and by a map, a schedule for collection of refuse and recyclables. This schedule must be submitted to the Board of Health no later than ten (10) days after the date of the Notice to Proceed. The schedule must identify the collection day for refuse and recyclables for each street in the Town of Boxford. This schedule is subject to the approval of the Board of Health. Once approved, the schedule will be strictly adhered to by the Contractor.

1.4.8 [RESERVED].

1.4.9 The Town will be allowed to require the Contractor to revise the approved schedule within two months of the date of commencing operations. Public notice for schedule changes requested by the Town will be the responsibility of the Town.

1.4.10 Should the Contractor elect to modify the approved schedule during the life of the contract, the contractor must resubmit the schedule to the Board of Health for its review and approval. If approved, the Contractor will be responsible for preparing and sending a mailing to all Boxford residents. The mailing must be submitted to the Board of Health for review and approval before being sent. The Board of Health may add additional information to the mailing. The Contractor will pay all costs associated with the mailing.

1-5 - Residential Collection

1.5.1 The Contractor will collect at curbside refuse and recyclables at ALL participating residences in the Town of Boxford.

1.5.2 The Town of Boxford estimates the breakdown of existing residential units served to be as follows: approximately 2,700 housing units on 182 Streets. A current map (Appendix 3) and list of the streets (Appendix 4) are included within these specifications.

1-6 - Municipal Collection

1.6.1 The Contractor will collect refuse and recyclables at municipal buildings, and will provide as many trash and recycling containers/dumpsters as are necessary to meet the needs of the Town. 100% of the cost of providing these containers will be borne by the Contractor.

1.6.2 Appendix 5 provides a listing of the municipal buildings and locations of other municipal pickups and dumpster sizes as defined under this Contract. The Town reserves the right to increase or decrease the number of buildings and or containers to be collected from during the life of this Contract. The cost for said changes in service shall be negotiated in good faith by the parties prior to any modifications being made.

1.6.3 Refuse and recyclables will be collected from each municipal building no less frequently than once per week on specific days to be negotiated during Contract negotiations.

1-7 - Vehicles

1.7.1 All vehicles used in the collection and transportation of refuse and recyclables within the Town limits will be of sufficient size and capacity to operate efficiently. A sufficient number of both types of vehicles will be supplied by the Contractor to collect the refuse and recyclables in accordance with the terms of this contract.

1.7.2 [RESERVED]

1.7.3 Bodies for the trucks to be used in this contract will be enclosed Packer Type with a capacity of not less than sixteen (16) cubic yards. The bodies shall be watertight, readily cleanable and sanitary, and capable of being unloaded by dumping or automatic push-out means. The body will be so mounted that when fully loaded, the axle loading will fall within the maximum load limit per axle as allowed by State law and municipal code. The compaction of the vehicle when new shall be a minimum of 1,000 pounds per cubic yard.

1.7.4 The body and truck will be newly painted. The Contractor will display the name of the company, the address of this local office, and the telephone number on each vehicle. The Contractor's name, address and phone number will be lettered at least four (4) inches high and easily visible to the public on each vehicle. The words "Town" or "Boxford" will not be displayed on the vehicle.

1.7.5 In Appendix 7, the Contractor shall include with this contract a list of the mechanical equipment, including capacities, it expects to use of the work, together with the number of employees it expected to be used in this work. The Contractor will also indicate which of the above equipment and labor is presently on hand. The Contractor agrees that for the duration of this Contract it will maintain a sufficient work force, suitable equipment and backup equipment at all times to guarantee the satisfactory performance of the collections.

1.7.6 The Contractor will make adequate provisions for maintenance and prompt repair of its equipment. All equipment used for the collection or hauling of refuse or recyclables will be thoroughly cleaned and scrubbed both inside and outside, at least once each week, and sprayed with deodorizing and disinfecting material as may be deemed proper by the Board of Health.

1.7.7 All equipment used by the contractor will be subject to inspection for sanitation, safety, appearance, and adequacy and will be subject to approval or rejection by the Board of Health at any time during the contract period. Rejected equipment will be replaced and/or repaired by the Contractor within 30 calendar days when so notified to do so in writing.

1.7.8 No overnight parking or storage of collection vehicles is allowed within the Town of Boxford. Should the Contractor wish to store vehicles in Town, either temporarily or permanently, it must submit a written request to the Board of Health for permission to do so.

1-8 - Transportation and Disposal

1.8.1 The Contractor must obtain and maintain the necessary federal, state, and local licenses for transportation of refuse and recyclables, and must be able to produce proof of such as requested.

1.8.2 Refuse collected as part of this contract will be transported to and disposed of at a site approved by the Commonwealth of Massachusetts Department of Environmental Protection (or the equivalent in another state)

1.8.3 If a vehicle becomes disabled, the Contractor shall contact the Boxford Board of Health who shall oversee the transfer of refuse or recyclables to a replacement vehicle.

1-9 - Operations

1.9.1 The Contractor will maintain an office with a full-time attendant to answer telephone call throughout the day between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. The telephone number will be a Boxford exchange (887 or 352) or "800" number such that all calls will be toll-free when made from within the Town.

1.9.2 The Contractor's full-time attendant will receive and log all calls from the Town of Boxford and will resolve all complaints within 24 hours of receiving the complaint. The Contractor may, in addition, offer a website for residents to lodge complaints provided that the complaints are resolved within 24 hours. A copy of the log and a record of actions taken will be furnished to the Board of Health on a monthly basis with the monthly invoice. Failure to resolve a complaint within 24 hours may result in a penalty assessed against the next monthly invoice (see Article IV of the contract). Resolution of a valid complaint from a resident of a missed collection of trash and/or recycling requires Contractor to collect the trash and/or recycling within 24 hours of receipt of the complaint.

1.9.3 The Contractor shall prepare a monthly Recycling Report which itemizes the weight of recyclables collected. This report shall be submitted with the monthly invoice. Every six months a report shall be submitted by the Contractor to the Town, and the Chair of the Boxford

Recycling Committee detailing the weight of recycled materials and the recycling facility to which these Boxford recyclables were delivered.

1.9.4 The Town may make such investigations as it deems necessary to determine the ability of the Contractor to perform the work, and the Contractor shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to terminate the contract if the evidence submitted by, or investigation of, such Contractor fails to satisfy the Town that such Contractor is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.

1.9.5 Contractor will provide the Town a link on the Town's website that will allow residents to report any missed pickups online for transmission directly to the Contractor. This method of communication between residents and the Contractor will be in addition to that outlined in Section 1.9.2. Contractor shall resolve any complaints within 24-hours.

1-10 – Public Outreach

1.10.1 To inform residents about the reduction in holidays to the six days outlined in Section 1.1.8, the Contractor will create an informational mailer alerting all residents of the change and will fully finance the cost of sending this mailer to all households in the Town of Boxford.

- This mailer will be sent prior to July 1, 2023.

1-11 - Conditions of Work:

1.11.1 This document contains estimates of pertinent information, such as number of dwelling units and population. However, the Contractor must inform itself fully of the conditions relating to the execution of this contract and the employment of labor thereon. Failure to do so will not relieve the Contractor of its obligation to furnish all material and labor necessary to carry out the provisions of the contract.

1-12 Addenda and Interpretations:

1.12.1 No interpretation of the meaning of the contract documents will be made to any Contractor orally.

1-13 - Obligation of Contractor:

1.13.1 At the time of the execution of this contract, the Contractor will be presumed to have inspected the site and to have read and to be thoroughly familiar with the contract documents. The failure or omission of the Contractor to examine any form, instrument, or documents shall in no way relieve the Contractor from any obligation in respect to this contract

1-14 - Sales Tax Exemption:

1.14.1 Those items purchased as part of this Contract and which become the property of the

Town of Boxford or its resident shall be exempt from Massachusetts sales tax and the Contractor shall not include any amount for said tax in its bids. The Town's sales tax exemption number is 046-001-095. The Contractor must obtain an ST5C form from the Town prior to the purchase of these items.

1-15 - Residential and Municipal Increases:

1.15.1 Although the Contractor has been made aware of estimates of residential and municipal units, and the Town relies on these figures to be accurate, it makes no guarantee as to their accuracy or reliability. It is the responsibility of the Contractor to verify their accuracy. The Contractor must satisfy itself as to the correctness of this information and the Town bears no liability for any errors or inaccuracies.

1-16 - Processing of Recyclables:

1.16.1 The Town of Boxford makes no estimates or guarantees of the quantities of recyclables that will be generated during the contract period. Although the Town has a mandatory residential recycling program, the quantity of recyclable materials may vary substantially during the duration of the contract. The Contractor must transport the "acceptable recyclables", as defined in Section 1.1.2 of these documents, to site approved by the Commonwealth of Massachusetts Department of Environmental Protection (or the equivalent in another state.) The Contractor shall provide, upon request by the Board of Health, the identity of the recycling site and documentation from that site regarding the amounts and types of recyclables disposed on specific days.

1-17 - Certificate of Good Standing:

1.17.1 The Contractor should be advised that if they are a corporation, they must be prepared to produce a certificate of good standing from the Commonwealth of Massachusetts, remain able to produce same from time to time when requested, at any time during the term of this contract, and shall remain a valid corporation in good standing. Failure to produce said certificate shall be grounds for termination of the contract.

1.17.2 The Contractor, if a foreign corporation, must produce a current certificate of good standing from the applicable governmental office in their state of incorporation, remain able to produce same from time to time when requested, at any time during the term of this contract, and shall remain a valid corporation in good standing. Furthermore, they must register with the Commonwealth of Massachusetts and comply with all laws relating to foreign corporations conducting business in Commonwealth of Massachusetts. Failure to produce said certificate shall be grounds for termination of the contract.

1-18 - Local Rules and Regulations:

1.18.1 The Town has adopted a mandatory recycling requirement for all residences within the Town. Co-mingling of recyclable materials with refuse is not allowed.

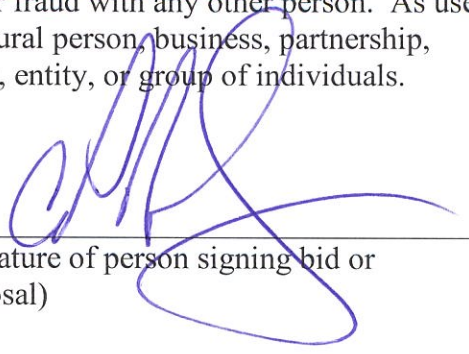
SECTION TWO – CONTRACT DOCUMENTS

2-1 – REQUIREMENTS:

This section contains the additional documents necessary, for full execution of the contract. The Contractor is required to furnish the required performance bonds and certificates prior to the signing of the contract. In case of the failure of the Contractor to provide the requested documents listed above, the Town may consider the Contractor in default, without any further obligation or damages on the part of the Town related to failure to execute contract.

2-2 CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.



(Signature of person signing bid or proposal)

Waste Management of Londonderry, Inc.
(Name of Business)

2-3 - CERTIFICATE OF TAX COMPLIANCE

Pursuant to Chapter 62C of the Massachusetts General Laws, Section 49A(b), I,
Christopher DeSantis, authorized signatory for
Waste Management of Londonderry, Inc., do hereby certify under the pains and penalties
(Name of Contractor)
of perjury that said contractor has complied with all laws of the Commonwealth of
Massachusetts relating to taxes, reporting of employees and contractors, and withholding and
remitting child support.

CONTRACTOR

By: 
(Signature of Authorized Representative)

Title: President

Date: June 1, 2023

2-5 - PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, That we, Waste Management of Londonderry, Inc. organized under the laws of the State of Delaware and having a usual place of business in Londonderry, NH as principal, and Berkley Insurance Company organized under the laws of the State of Delaware and having a usual place of business in Greenwich, CT as surety, are holden and stand firmly bound and obligated unto the Town of Boxford as obligee, in the sum of ** See Below (\$1,074,895.00) Dollars lawful money of the United States of America, to and for the true payment whereof, we hereby bind ourselves, and each of us, our heirs, administrators, successors, and assigns, jointly and severally, firmly by these presents. **** One Million Seventy Four Thousand Eight Hundred Ninety Five and 00/100**

Whereas, the said principal has, by means of a written agreement, dated June 6, 2023 entered into a contract with the said obligee for the Curbside Collection of Refuse and Recyclables, a copy of which agreement is attached hereto and by reference, made a part hereof.

NOW THEREFORE, the conditions of this obligation is such that if the said principal will well and truly keep and perform all the undertakings, covenants, agreements, terms and conditions of said contract on its part to be kept and performed, during the original term of said contract and any extensions thereof that may be granted by the Town of Boxford with or without notice to the surety, and during the life of any guaranty required under the contract, and will also well and truly keep and perform all the undertakings, covenants, agreements, terms and conditions of any and all duly authorized modifications, alterations, changes or additions to said contract that may hereafter be made, notice to the surety of such modifications, alterations, changes or additions being hereby waived, then this obligation will be null and void; otherwise it will be and remain in full force, virtue and effect.

In the event that the work under said contract is abandoned by the principal or is terminated by the Town of Boxford under the provisions of Sections of said Contract, said surety hereby further agrees that said surety will, if requested in writing by the Town of Boxford take such action as is necessary to complete the work under said contract.

And the said surety, for value received, hereby stipulates and agrees that no change in, or extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder, or to the specifications accompanying the same will in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the Specifications.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 6th day of June in the year 2023.

Important: Attach herewith proof of authority of officers or agents to sign Bond.

Principal: Waste Management of Londonderry, Inc.

Surety: Berkley Insurance Company

By Misty Wright

By Andrea M. Penaloza

(Title) Misty Wright, Attorney-in-Fact

(Title) Andrea M. Penaloza, Attorney-in-Fact



POWER OF ATTORNEY

KNOWN ALL MEN BY THESE PRESENTS that Waste Management, Inc. and each of its direct and indirect majority owned subsidiaries (the "WM Entities"), have constituted and appointed and do hereby appoint Jenny Moore, Vanessa Dominguez, Melissa Fortier, Michael J. Herrod, Jennifer L. Jakaitis, Terri L. Morrison, Andrea M. Penaloza, Patricia A. Rambo, Lupe Tyler, Susan A. Welsh, Donna Williams, and Misty Wright of Aon Risk Services, Inc., each its true and lawful Attorney-in-fact to execute under such designation in its name, to affix the corporate seal approved by the WM Entities for such purpose, and to deliver for and on its behalf as surety thereon or otherwise, bonds of any of the following classes, to wit:

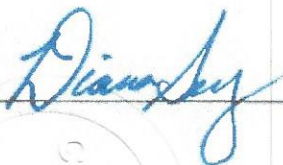
1. Surety bonds to the United States of America or any agency thereof, and lease and miscellaneous surety bonds required or permitted under the laws, ordinances or regulations of any State, City, Town, Village, Board or any other body or organization, public or private.
2. Bonds on behalf of WM Entities in connection with bids, proposals or contracts.

The foregoing powers granted by the WM Entities shall be subject to and conditional upon the written direction of a duly appointed officer of the applicable WM Entity (or any designee of any such officer) to execute and deliver any such bonds.

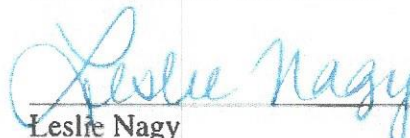
The signatures and attestations of such Attorneys-in-fact and the seal of the WM Entity may be affixed to any such bond, policy or to any certificate relating thereto by facsimile and any such bond, policy or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the applicable WM Entity when so affixed.

IN WITNESS WHEREOF, the WM Entities have caused these presents to be signed by the Vice President and Treasurer and its corporate seal to be hereto affixed. This power of attorney is in effect as of June 6, 2023.

Witness:



On behalf of Waste Management, Inc. and
each of the other WM Entities



Leslie Nagy
Vice President and Treasurer

Corporate
Seal



CERTIFICATE OF AUTHORITY

WASTE MANAGEMENT OF LONDONDERRY, INC.

I, Gail M. Lynch, Assistant Secretary of Waste Management of Londonderry, Inc., a Delaware corporation (the "Corporation"), do hereby certify that the following resolution was adopted by the Board of Directors of the Corporation and that such resolution has not been amended, modified or rescinded and is in full force and effect as of the date hereof:

Resolved, that Christopher P. DeSantis, President of the Corporation, is hereby authorized, following compliance with appropriate corporate policies and procedures, to prepare, execute and submit, on behalf of the Corporation, bid proposals ("Bids"), and to execute and deliver on behalf of the Corporation any and all documents required to be submitted by the Corporation in connection with the Town of Boxford, Massachusetts – Collection and Disposal of Refuse and Recyclables Contract (the "Town of Boxford Contract"), for the period beginning on July 1, 2023 and ending on June 30, 2024, and is hereby further authorized to execute and deliver on behalf of the Corporation any contracts and bonds with respect to the Town of Boxford Contract.

Dated this 2nd day of June 2023



WASTE MANAGEMENT OF LONDONDERRY, INC.

A handwritten signature in black ink, appearing to read 'Gail M. Lynch'.

Gail M. Lynch, Assistant Secretary

Appendix 1

Town of Boxford

Bylaws

Chapter 204

*Town of Boxford, MA
Thursday, March 30, 2023*

Chapter 204. Solid Waste

[HISTORY: Adopted by the Board of Health of the Town of Boxford as Regulation 2-91; amended in its entirety July 2018. Subsequent amendments noted where applicable.]

GENERAL REFERENCES

Sanitary landfill — See Ch. 156, Art. I.

§ 204-1. Background and justification.

The Board of Health for the Town of Boxford, Commonwealth of Massachusetts, acting under the authority of MGL c. 111, § 31, as amended, hereby supplements the provisions of 105 CMR 410.000: the State Sanitary Code, Chapter II, Minimum Standards of Fitness for Human Habitation; and 310 CMR 19.000: Solid Waste Management Regulations, in the interest of and for the protection of public health and environment, and establishes and adopts the following rules and regulations concerning the disposal of solid waste in the Town of Boxford.

§ 204-2. Definitions.

When used in this regulation or in communications, notices, orders or other references relative thereto, the following words and phrases shall have the meanings ascribed to them below and shall apply in the interpretation and enforcement of this regulation:

AGRICULTURAL WASTE

Discarded materials produced from the raising of plants and animals, including, without limitation, animal manure, bedding, plant stalks and other vegetative matter.

CURBSIDE COLLECTION

Scheduled times when solid waste and recyclables will be collected at the roadside in approved containers by a waste collection company contracted by the Town of Boxford through the Board of Health.

DIVERTED WASTE

The Boxford recycling center accepts wastes that are not accepted as solid waste or recyclables for curbside collection. The recycling center is open on weekends, and the hours of operation and list of accepted items are posted on the Town of Boxford website. Items that may be delivered to the recycling center include large metals items, special waste, bulky household items, button batteries, waste oil, and unshredded tires.

GARBAGE

Animal and vegetable waste resulting from the handling, preparation, cooking and serving of foods.

HAZARDOUS WASTE

Any waste that is defined and regulated under 310 CMR 30.00, the Hazardous Waste Regulations, as may be amended. Household hazardous waste is collected annually. The collection date is posted on the Town of Boxford website.

LARGE METAL ITEM COLLECTION DAYS

If scheduled by the Board of Health, specific days when large metal items are collected at the roadside by a waste collection company contracted by the Town of Boxford through the Board of Health.

LARGE METAL ITEMS

Examples of Items Allowed

- Metal bike frames
- Stoves
- Metal furniture
- Metal desks
- Broken-down metal swing sets
- Metal piping (cut down to four-foot pieces)
- Lawn mowers (no ride-on mowers; all fluids must be drained and gas tanks removed)
- White goods items: stove, water heater, washer, dryer (no freon items)
- Metal frames for lawn furniture
- Metal bed frames
- Grills (no gas canisters allowed)

Examples of Items Not Allowed

- Refrigerators*
- Air conditioners*
- Dehumidifiers, etc, still containing freon*
- Items longer than six feet
- Items containing less than 80% metal
- Tanks or containers containing hazardous materials
- Chain-link fences

NOTES:

- * Items containing freon will not be accepted due to new DEP regulations and guidelines that our provider has to strictly adhere to.

LEAF AND YARD WASTE

Deciduous and coniferous seasonal deposition, grass clippings, weeds, hedge clippings, garden materials and brush.

RECYCLABLE MATERIALS

Materials that have the potential to be reused or recycled and that are not contaminated by significant amounts of waste such as No. 6 newspaper (which may contain small quantities of magazines, paperboard containers, paper bags, junk mail and a normal percentage of phone books) metal, glass, rigid Nos. 1, 2, 3, 4, 5, 6, and 7 single-polymer plastics and other items that may be added from time to time. Residents will be notified annually on the specific recyclables allowed for curbside pickup by the Town's waste collection company.

RECYCLING CENTER

A designated and dedicated area located in the closed landfill area where Boxford residents may dispose of recyclable materials such as construction and demolition materials, tires, appliances and white goods, including Freon-containing appliances, cardboard, electronic devices and materials, gas cylinders, and other items as allowed by the Board of Health. Fees may be charged for such items.

SOLID WASTE

Useless, unwanted or discarded solid, liquid or contained gaseous material, resulting from municipal or household activities, that is abandoned by being disposed or incinerated, or is stored, treated or transferred pending such disposal, not including any hazardous waste or special wastes.

SPECIAL WASTE

A solid waste that requires special handling (i.e., demolition material) or disposal techniques or methodologies to protect public health or safety or the environment.

TIRES

A continuous solid or pneumatic rubber covering encircling the wheel of a motor vehicle.

WHITE GOODS

An appliance employing electricity, natural gas or liquefied petroleum gas to supply heat or motive power to preserve or cook food, to wash or dry, or to cool or heat air or water.

§ 204-3. Solid waste.

All solid waste in the Town of Boxford shall be disposed of in accordance with 310 CMR 19.000, Solid Waste Management Regulations. Prohibited wastes, as defined in §§ **204-4** and **204-5** of this regulation, shall be prohibited from disposal as trash or recyclables for curbside collection.

§ 204-4. Recyclable materials.

Board of Health designated recyclable materials shall not be disposed of as trash. These shall include but not be limited to aluminum, metal, glass, No. 6 newspapers and single-polymer plastics. Trash containing such items shall be refused by the trash collection company.

§ 204-5. Prohibited wastes.

No solvents, oils, volatile or combustible materials, pesticides, herbicides, special wastes, or any other hazardous materials, including but not limited to batteries, shall be disposed of as trash or recyclables. In addition, the following materials shall be prohibited from disposal as trash or recyclables: leaves and yard waste, agriculture waste, white goods, and unshredded tires.

§ 204-6. Violations and penalties.

Any person who shall violate any provisions of this regulation for which a penalty is not otherwise provided shall, upon conviction, be fined not less than \$10 nor more than \$500 per violation. Each separate incident of failing to comply with this regulation shall constitute a separate violation.

§ 204-7. Severability.

So far as the Board of Health may provide, each section of these rules and regulations shall be construed as separate, to the end that, if any section, item, sentence, clause or phrase shall be held invalid for any reason, the remainder of these rules and regulations shall continue in full force and effect.

§ 204-8. Appeals.

Any person to whom an order has been served pursuant to this regulation may request a hearing before the Board of Health by filing a written petition within seven days. Upon receipt of such petition, the Board of Health shall schedule a hearing within 30 days. Anyone aggrieved by the decision of the Board of Health may seek relief therefrom within 30 days in a court of competent jurisdiction.

§ 204-9. Effective date.

This regulation shall take effect on July 1, 1991.

Appendix 2

Massachusetts

Department of Public
Health

Code of Massachusetts

Regulations Title 105

(105 CMR)

105 CMR: DEPARTMENT OF PUBLIC HEALTH

410.600: Storage of Garbage and Rubbish

(A) Garbage or mixed garbage and rubbish shall be stored in watertight receptacles with tight-fitting covers. Said receptacles and covers shall be of metal or other durable, rodent-proof material. Rubbish shall be stored in receptacles of metal or other durable, rodent-proof material. Garbage and rubbish shall be put out for collection no earlier than the day of collection.

(B) Plastic bags shall be used to store garbage or mixed rubbish and garbage only if used as a liner in watertight receptacles with tight-fitting covers as required in 105 CMR 410.600(A), provided that the plastic bags may be put out for collection except in those places where such practice is prohibited by local rule or ordinance or except in those cases where the Department of Public Health determines that such practice constitutes a health problem. For purposes of the preceding sentence, in making its determination the Department shall consider, among other things, evidence of strewn garbage, torn garbage bags, or evidence of rodents.

(C) The owner of any dwelling that contains three or more dwelling units, the owner of any rooming house, and the occupant of any other dwelling place shall provide as many receptacles for the storage of garbage and rubbish as are sufficient to contain the accumulation before final collection or ultimate disposal, and shall locate them so as to be convenient to the tenant and so that no objectionable odors enter any dwelling.

410.600: continued

(D) The occupants of each dwelling, dwelling unit, and rooming unit shall be responsible for the proper placement of his garbage and rubbish in the receptacles required in 105 CMR 410.600(C) or at the point of collection by the owner.

410.601: Collection of Garbage and Rubbish

The owner of any dwelling that contains three or more dwelling units, the owner of any rooming house, and the occupant of any other dwelling place shall be responsible for the final collection or ultimate disposal or incineration of garbage and rubbish by means of:

(A) the regular municipal collection system; or

(B) any other collection system approved by the board of health; or

(C) when otherwise lawful, a garbage grinder which grinds garbage into the kitchen sink drain finely enough to ensure its free passage, and which is otherwise maintained in a sanitary condition; or

(D) when otherwise lawful, a garbage or rubbish incinerator located within the dwelling which is properly installed and which is maintained so as not to create a safety or health hazard; or

(E) when otherwise lawful, by backyard composting of compostable material, provided that the composting operation does not attract rodents or other vectors and does not create a nuisance, and provided further that in the case of composting by an occupant, the occupant obtain the prior written permission of the owner.

(F) any other method of disposal which does not endanger any person and which is approved in writing by the board of health. (See 105 CMR 410.840.)

410.602: Maintenance of Areas Free from Garbage and Rubbish

(A) Land. The owner of any parcel of land, vacant or otherwise, shall be responsible for maintaining such parcel of land in a clean and sanitary condition and free from garbage, rubbish or other refuse. The owner of such parcel of land shall correct any condition caused by or on such parcel or its appurtenance which affects the health or safety, and well-being of the occupants of any dwelling or of the general public.

(B) Dwelling Units. The occupant of any dwelling unit shall be responsible for maintaining in a clean and sanitary condition and free of garbage, rubbish, other filth or causes of sickness that part of the dwelling which he exclusively occupies or controls.

(C) Dwellings Containing Less than Three Dwelling Units. In a dwelling that contains less than three dwelling units, the occupant shall be responsible for maintaining in a clean and sanitary condition, free of garbage, rubbish, other filth or causes of sickness the stairs or stairways leading to his dwelling unit and the landing adjacent to his dwelling unit if the stairs, stairways or landing are not used by another occupant.

(D) Common Areas. In any dwelling, the owner shall be responsible for maintaining in a clean and sanitary condition free of garbage, rubbish, other filth or causes of sickness that part of the dwelling which is used in common by the occupants and which is not occupied or controlled by one occupant exclusively.

The owner of any dwelling abutting a private passageway or right-of-way owned or used in common with other dwellings or which the owner or occupants under his control have the right to use or are in fact using shall be responsible for maintaining in a clean and sanitary condition free of garbage, rubbish, other filth or causes of sickness that part of the passageway or right-of-way which abuts his property and which he or the occupants under his control have the right to use, or are in fact using, or which he owns.

Appendix 3

Town of Boxford Assessors Map

Methuen

Haverhill

Groveland

Georgetown

Rowley

Lawrence

Ipswich

North Andover

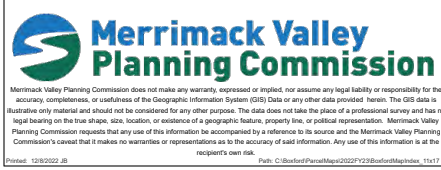
Topsfield

Middleton

Wenham

More detailed individual parcel maps are saved electronically on the Town of Boxford's website: <https://www.town.boxford.ma.us/assessors/pages/property-parcel-maps>

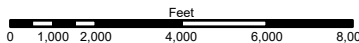
Street Index			
Adams Road	11, 14	Cross Road	29, 33
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Amberwood Lane	25	Dana Road	33, 37
Andersen Drive	17, 22	Deer Run Rd	6, 10, 11
Andrews Farm Road	38	Depot Road	25, 28, 29
Anna's Way	13	Dole Hill Lane	9, 12
Appleton Lane	19	Eagle's Nest Lane	14
Arrowhead Farm Road	37	Elm Street	28, 29, 32, 33
Ashland Road	28	Endicott Road	40, 41, 42, 43
Azalea Way	25	Essex Street	9, 12
Baldpate Road	15, 19	Fieldstone Way	19, 12
Balmoral Road	23, 24	Fish Brook Road	40, 41
Bare Hill Road	25, 29, 30, 34	Forest Lane	37
Barler Road	2, 2, 4	Foster Street	22
Barnside Road	37	Franklin Road	13
Batchelder Road	19, 24, 25	Fuller Lane	40
Bayns Hill Road	17	Georgetown Road	16, 20, 24, 25, 28, 29
Beechwood Circle	20	Gina Way	42
Belvedere Road	9	Glen Forest Drive	18, 19, 23
Bennett Road	22, 23	Glendale Road	12, 13
Berry Patch Lane	27	Great Pond Drive	15, 16, 19, 20
Boren Lane	24, 25, 29	Gunnison Road	30, 34
Bridlespur Road	29	Harris Road	26, 30
Brook Road	9, 10, 12, 13	Haymeadow Road	37
Brookview Road	27, 31	Haynes Road	32
Budnick Way	10	Hemlock Road	25
Burning Bush Drive	40, 42	Herrick Road	18, 19, 24, 28
Cahoon Road	33	Hickory Lane	28, 32
Camelot Drive	21, 26	High Ridge Road	24
Campground Road	25	Highland Road	14
Carleton Circle	11, 14	Hillside Road	20
Carolina Way	25	Hollow Tree Road	31
Carriage House Lane	19	Holmes Road	40
Cartwright Easement	17	Hood Circle	30, 34
Cartwright Lane	22	Hoveys Pond Drive	5
Cedar Knoll Road	38	Hunters Road	30
Cedar Street	38	Inverness Circle	23, 27, 28
Chadwick Farm Road	6	Ipswich Road	13, 14, 17, 18, 19, 20, 25, 26, 30
Chandler Road	14, 18	Janes Road	30
Chaplin Circle	14	Joseph Smith Lane	34, 38
Chapman Way	25	Kate's Lane	29
Chapman Way	25	Kelsey Road	20, 25
Coach Lane	38	Killam Hill Road	16, 20, 25, 26
Cold Spring Drive	24	Kimball Road	10, 13
Cole Drive	17	King Arthur Court	20
Crest Circle	33	King Edward Court	20, 21
Crooked Pond Drive	40	King George Drive	16, 20
King James Court	20	King John Drive	20
King Richard Drive	20	King William Court	20
Lake Shore Road	3, 5, 6, 9	Lantern Lane	28, 29
Laurel Hollow Road	29	Lawrence Road	27, 28
Livermore Road	33	Lily Pond Road	2
Lockwood Lane	37, 38	Lockwood Lane	37, 38
Long Hill	34	Long Hill	34
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Main Street	2, 5, 9, 10, 12, 13, 17, 22, 23, 27, 28, 32, 33	Main Street	2, 5, 9, 10, 12, 13, 17, 22, 23, 27, 28, 32, 33
Maple Avenue	17, 22	Maple Avenue	17, 22
Meadowood Road	37	Meadowood Road	37
Meeting Place Circle	19	Meeting Place Circle	19
Middleton Road	28, 29, 32, 36, 37, 40, 42	Middleton Road	28, 29, 32, 36, 37, 40, 42
Mill Road	32, 36, 37	Mill Road	32, 36, 37
Mill Run Road	32	Mill Run Road	32
Moonpenny Drive	37, 40	Moonpenny Drive	37, 40
Morningside Circle	19	Morningside Circle	19
Mortimer Road	27	Mortimer Road	27
Mount Vernon Road	13	Mount Vernon Road	13
Mulberry Lane	5	Mulberry Lane	5
Nanoy's Way	13	Nanoy's Way	13
Oak Ridge Road	2, 5	Oak Ridge Road	2, 5
Old Bare Hill Road	20	Old Bare Hill Road	20
Old Killam Hill Road	20	Old Killam Hill Road	20
Old Topsfield Road	33, 37	Old Topsfield Road	33, 37
Olde Farms Road	23, 24	Olde Farms Road	23, 24
Parish Lane	10	Parish Lane	10
Parker Place	28	Parker Place	28
Partridge Lane	24	Partridge Lane	24
Pearl Road	10, 13	Pearl Road	10, 13
Perkins Way	30	Perkins Way	30
Perley Lane	32	Perley Lane	32
Pine Plain Road	6, 7, 11	Pine Plain Road	6, 7, 11
Pinehurst Drive	29, 33	Pinehurst Drive	29, 33
Plummer Road	9	Plummer Road	9
Pond Street	20, 25	Pond Street	20, 25
Porter Road	13	Porter Road	13
Powerhouse Lane	19	Powerhouse Lane	19
Proposed Way	29	Proposed Way	29
Pye Brook Lane	26, 29, 30	Pye Brook Lane	26, 29, 30
Redington Ridge Road	32	Redington Ridge Road	32
Redwood Circle	20	Redwood Circle	20
Roberts Road	26, 30	Roberts Road	26, 30
Rock Brook Way	10	Rock Brook Way	10
Rose Lane	25	Rose Lane	25
Round Top Road	25	Round Top Road	25
Lake Shore Road	26	Lake Shore Road	26
Rowley Court	21, 26	Rowley Court	21, 26
Saddle Hill Rd	10, 11	Saddle Hill Rd	10, 11
Sagamore Lane	42	Sagamore Lane	42
Samuel Bixby Way	28	Samuel Bixby Way	28
Sayward Road	29	Sayward Road	29
School Street	26	School Street	26
Sedgewick Lane	37	Sedgewick Lane	37
Sheffield Road	23, 24, 27	Sheffield Road	23, 24, 27
Silverbrook Road	38	Silverbrook Road	38
Silvermine Road	6, 9, 10	Silvermine Road	6, 9, 10
Spofford Road	11, 14, 15, 19	Spofford Road	11, 14, 15, 19
Sprucewood Circle	20	Sprucewood Circle	20
Stagecoach Road	20	Stagecoach Road	20
Stanton Circle	25	Stanton Circle	25
Stiles Pond Road	17, 18, 23	Stiles Pond Road	17, 18, 23
Stone Road	40	Stone Road	40
Stoncleave Road	31	Stoncleave Road	31
Sunrise Road	25, 29	Sunrise Road	25, 29
Surrey Lane	34, 38	Surrey Lane	34, 38
Tanglewood Road	27, 31	Tanglewood Road	27, 31
Titus Lane	33, 37	Titus Lane	33, 37
Toppsfield Road	32, 33, 34, 38	Toppsfield Road	32, 33, 34, 38
Toppsfield Road Extension	32, 33	Toppsfield Road Extension	32, 33
Towne Road	27, 28, 31, 32	Towne Road	27, 28, 31, 32
Townsend Farm Road	32	Townsend Farm Road	32
Trask Road	20, 25	Trask Road	20, 25
Tyler Road	10	Tyler Road	10
Upton Lane	38	Upton Lane	38
Valley Road	11, 13, 14	Valley Road	11, 13, 14
Walker Lane	29	Walker Lane	29
Washington Street	6, 9, 10, 12	Washington Street	6, 9, 10, 12
Whitney Road	29	Whitney Road	29
Whittier Terrace	10	Whittier Terrace	10
Wildmeadow Road	40	Wildmeadow Road	40
Willow Road	6, 10, 11	Willow Road	6, 10, 11
Winding Oaks Way	31, 32	Winding Oaks Way	31, 32
Winthrop Drive	20, 25	Winthrop Drive	20, 25
Woodcrest Road	20, 25	Woodcrest Road	20, 25
Woodhill Lane	13, 17	Woodhill Lane	13, 17
Woodland Road	24, 25	Woodland Road	24, 25
Wyndmere Drive	34	Wyndmere Drive	34



Notes
This map is for assessment purposes only. It is not a valid document for legal description or conveyance. Lot dimensions were compiled from existing assessor maps and survey based plans. For legal determination please refer to parcel specific deeds or the Town of Boxford Assessor Office.
* Wetlands Note: The wetlands shown on the map do not depict their actual extent or boundary. A wetlands scientist should be consulted if a delineation is required.

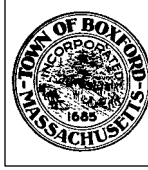
Map Revision Date: January 1, 2022

Town of Boxford Property Parcel Maps Index Map



Legend

- Town Boundaries
- Map Boundaries
- Hydrographic Features
- Hydrographic Features
- Roads



Appendix 4

Town of Boxford Street List

TOWN OF BOXFORD

STREET INDEX

STREET NAME	PAGE
ADAMS RD	1
ALLEN CIR	1
AMBERWOOD LN	1
ANDERSEN DR	1
ANDREWS FARM RD	1
ANNA'S WAY	2
APPLETON LN	2
ARROWHEAD FARM RD	2
ASHLAND RD	2
AZALEA WAY	2
BALDPATE RD	3
BALMORAL RD	3
BARE HILL RD	3
BARKER RD	4
BARNSIDE RD	4
BATCHELDER RD	4
BAYNS HILL RD	4
BEECHWOOD CIR	4
BELVEDERE RD	4
BENNETT RD	5
BERRY PATCH LN	5
BOREN LN	5
BRIDLE SPUR RD	5
BROOK RD	5
BROOKVIEW RD	5
BURNING BUSH DR	6
CAHOON RD	6
CAMELOT DR	6
CAMPGROUND RD	6
CARLETON CIR	6
CAROLINA WAY	6
CARRIAGE HOUSE LN	7
CEDAR KNL	7
CEDAR ST	7
CHADWICK FARM RD	7
CHANDLER RD	7
CHAPLIN CIR	7
CHAPMAN RD	7
CHAPMAN WAY	8
COACH LN	8
COLD SPRING DR	8
CREST CIR	8
CROOKED POND DR	8
CROSS RD	8
CURTIS RD	8
DANA RD	9
DEPOT RD	9
DOLE HILL LN	10

STREET NAME	PAGE
EAGLE'S NEST LN	10
ELM ST	10
ENDICOTT RD	10
ESSEX ST	10
FIELDSTONE WAY	10
FISH BROOK RD	10
FOREST LN	10
FOSTER ST	11
FRANKLIN RD	11
FULLER LN	11
GEORGETOWN RD	11
GINA WAY	12
GLEN FOREST DR	12
GLENDALE RD	12
GREAT POND DR	12
GUNNISON RD	13
HARRIS RD	13
HAVERHILL RD	13
HAYMEADOW RD	13
HAYNES RD	14
HEMLOCK RD	14
HERRICK RD	14
HICKORY LN	14
HIGH RIDGE RD	15
HIGHLAND RD	15
HILLSIDE RD	16
HOLLOW TREE RD	16
HOLMES RD	16
HOOD CIR	16
HOOD FM RD	16
HOVEY'S POND DR	16
HUNTERS RD	17
INVERNESS CIR	17
IPSWICH RD	17
IPSWICH RD 234(FMV)	19
JANES RD	20
JOSEPH SMITH LN	20
KATES LN	21
KELSEY RD	21
KILLAM HILL RD	21
KIMBALL RD	21
KING ARTHUR CT	21
KING EDWARD CT	22
KING GEORGE DR	22
KING JAMES CT	22
KING JOHN DR	22
KING RICHARD DR	22
KING WILLIAM CT	23

TOWN OF BOXFORD

STREET NAME	PAGE
LAKE SHORE RD	23
LANTERN LN	23
LAUREL HOLLOW RD	24
LAWRENCE RD	24
LILY POND RD	24
LIVERMORE RD	24
LOCKWOOD LN	24
LONG HL	25
MACDONALD DR	25
MAIN ST	25
MAPLE AVE	27
MEADOWOOD RD	28
MEETING PLACE CIR	28
MIDDLETON RD	28
MILL RD	29
MILL RUN RD	29
MOONPENNY DR	29
MORNINGSIDE CIR	30
MORTIMER RD	30
MT VERNON RD	30
MULBERRY LN	30
NANCY'S WAY	30
OAK RIDGE RD	30
OLD BARE HILL RD	30
OLD TOPSFIELD RD	30
OLDE FARMS RD	30
OLDE KILLAM HILL RD	31
PARISH LN	31
PARTRIDGE LN	31
PEARL RD	31
PERKINS WAY	31
PERLEY LN	31
PINE PLAIN RD	32
PINEHURST DR	32
PLUMMER RD	32
POND ST	32
PORTER RD	33
POWDERHOUSE LN	33
PYE BROOK LN	33
REDINGTON RIDGE RD	34
REDWOOD CIR	34
ROBERTS RD	34

STREET INDEX

STREET NAME	PAGE
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ROSE LN	35
ROUND TOP RD	35
ROWLEY CT	35
ROWLEY RD	35
SADDLE HILL RD	35
SAMUEL BIXBY WAY	35
SAYWARD RD	35
SCHOOL ST	35
SEDGEWICK LN	35
SHEFFIELD RD	35
SILVERBROOK RD	36
SILVERMINE RD	36
SPOFFORD RD	36
SPRUCEWOOD CIR	37
STAGECOACH RD	37
STANTON CIR	37
STILES POND RD	37
STONE RD	38
STONECLEAVE RD	38
SUNRISE RD	38
SURREY LN	38
TANGLEWOOD RD	39
TITUS LN	39
TOPSFIELD RD	39
TOWNE RD	40
TOWNSEND FARMS RD	40
TRASK RD	41
TYLER RD	41
UPTON LN	41
VALLEY RD	41
WALKER LN	41
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WILLOW RD	43
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WOODHILL LN	44
WOODLAND RD	44
WYNDMERE DR	44

Appendix 5

List of Municipal Buildings

**APPENDIX 5
LISTING OF MUNICIPAL BUILDINGS**

NAMES AND ADDRESSES OF MUNICIPAL BUILDINGS

<u>Name</u>	<u>Address</u>
Aaron Wood Building	26 Middleton Road
Cole School	26 Middleton Road
Spofford Pond School	31 Spofford Road
Tri-Town School Union	28 Middleton Road
Library	7A Spofford Road
Town Hall	7A Spofford Road
East Fire Station	6 Middleton Road
West Fire Station	585 West Main Street
Police Station	285 Ipswich Road
Public Works Garage	7B Spofford Road
Center at 10 Elm	10 Elm Street
Lincoln Hall	563 Main Street
Little Red Schoolhouse	21 Main Street
Former Site of the Council on Aging	4 Middleton Road
Former Site of the Library	188 Washington Street

Details for Spofford Pond School

- Solid Waste – 10 Yard Front Load Dumpster
- Commingled Recycle - 8 Yard Front Load Dumpster
- Interior Recycling - 96 Gallon Toters

Details for Cole School and Aaron Wood Building

- Solid Waste - 10 Yard Front Load Dumpster
- Commingled Recycle - 8 Yard Front Load Dumpster
- Interior Recycling - 96 Gallon Toters

Appendix 6
Official Prevailing
Wage Sheet

PURCHASE AND SALE AGREEMENT

1. Information and Definitions

(a) DATE OF AGREEMENT: June 12 , 2023

(b) PREMISES: A parcel of land located at Herrick Road, Boxford, containing 35.58 acres, more or less, identified as Assessor's Parcel 28-02-16.1 (the "Premises") , and being all or a portion of the premises described in a deed recorded with the Southern Essex District Registry of Deeds in Book 5210, Page 132.

(c) SELLER: **William E. Dorman, III, Caroline D. Lockhart and Stephen D. Raich, as Trustees of the William E. Dorman Trust**, under Declaration of Trust dated January 11, 1984, as amended and restated from time to time and not individually, or their successor trustees

Address: c/o Caroline D. Lockhart
P.O. Box 685
New Castle, NH 03854

Seller's Attorney: Andrew W. Evans, Esq.
Evans & Evans, P.C.
7 Essex Green Drive, Suite 5
Peabody, MA 01960

Phone: (978) 548-5174 Fax: (978)

Email: andrew@evansevanslaw.com

(d) BUYER: **Town of Boxford**

Address: Boxford Town Hall, 7A Spofford Road, Boxford, MA 01921

Buyer's Attorney: Katharine L. Klein, Esq., KP Law, P.C., 101 Arch St.
Boston, MA 02110

Phone: (617) 654-1834 Fax: (617) 654-1735

Email: kklein@k-plaw.com

- (e) PURCHASE PRICE: The total purchase price for the Premises is One Million Four Hundred Fifty Thousand Dollars (\$1,450,000.00), which is to be paid (subject to adjustments) at the time of delivery of the deed by certified, Town Treasurer's check, bank check or by wire transfer, at BUYER'S discretion.
- (g) CLOSING DATE: July 27, 2023 at 10:00 a.m.. Time is of the essence.
- (h) PLACE: Southern Essex District Registry of Deeds, or a closing by mail, at BUYER'S election.
- (i) TITLE: Quitclaim Deed.

2. Covenant. SELLER agrees to sell and BUYER agrees to buy the Premises upon the terms hereinafter set forth.

3. Buildings, Structures, Improvements, Fixtures. The Premises consist of vacant land.

4. Title Deed. Said Premises are to be conveyed by a good and sufficient quitclaim deed running to BUYER, and said deed shall convey a good and clear record and marketable title thereto, free from encumbrances, except:

- (a) provisions of existing building and zoning laws;
- (b) such taxes for the then current year as are not due and payable on the date of the delivery of such deed, except as provided in Section 13;
- (c) any liens for municipal betterments assessed after the date of this Agreement; any betterments assessed before the date of this Agreement shall be paid by SELLER in full; and
- (d) easements, restrictions and/or reservations of record, if any, provided the same do not unreasonably interfere with access to or use of the Premises for conservation and passive recreation purposes.

5. Deed; Plans. SELLER shall prepare the deed. If said deed refers to a plan necessary to be recorded therewith, SELLER shall, at its sole cost and expense, prepare a survey plan acceptable to BUYER and adequate for registration.

6. Registered Title. In addition to the foregoing, if the title to said Premises is registered, said deed shall be in a form sufficient to entitle BUYER to a Certificate of Title of said Premises, and SELLER shall deliver with said deed all instruments, if any, necessary to enable BUYER to obtain such Certificate of Title.

7. Possession and Control of Premises. Full possession of said Premises, free of all tenants and occupants, is to be delivered at the time of the delivery of the deed, said Premises to be then: (a) in the same condition as they now are, reasonable use and wear thereof excepted, (b) not in violation of said building and zoning laws, and (c) in compliance with provisions of

Section 4 hereof. BUYER shall be entitled to inspect said Premises prior to the delivery of the deed in order to determine whether the condition thereof complies with the terms of this clause.

8. Extension to Perfect Title or Make Premises Conform. If SELLER shall be unable to give title or to make conveyance, or to deliver possession of the Premises, all as herein stipulated, or if at the time of the delivery of the deed the Premises do not conform with the provisions hereof, then SELLER shall use reasonable efforts to remove any defects in title, or to deliver possession as provided herein, or to make the said Premises conform to the provisions hereof, as the case may be, and thereupon the time for performance hereof shall be extended for a period of up to thirty (30) calendar days. Notwithstanding anything herein to the contrary, the term “reasonable efforts” as used in this Section shall not require any expenditure by the Seller in excess of \$5,000.00, inclusive of reasonable attorney’s fees.

9. Failure to Perfect Title or Make Premises Conform. If at the expiration of the extended time SELLER shall have failed so to remove any defects in title, deliver possession, or make the Premises conform, as the case may be, all as herein agreed, or if at any time during the period of this Agreement or any extension thereof, the holder of a mortgage on said Premises shall refuse to permit the insurance proceeds, if any, to be used for such purposes, then any payments made under this Agreement shall be forthwith refunded and all other obligations of the parties hereto shall cease and this Agreement shall be void without recourse to the parties hereto.

10. Buyer’s Election to Accept Title. BUYER shall have the election, at either the original or any extended time for performance, to accept such title as SELLER can deliver to the said Premises in their then condition and to pay therefore the purchase price, without deduction, in which case SELLER shall convey such title.

11. Acceptance of Deed. The acceptance of a deed by BUYER, or its assignee or nominee, as the case may be, shall be deemed to be a full performance and discharge of every agreement and obligation herein contained or expressed, except such as are, by the terms hereof, to be performed after the delivery of said deed.

12. Use of Money to Clear Title. To enable SELLER to make conveyance as herein provided, SELLER may, at the time of delivery of this deed, use the purchase money or any portion thereof to clear the title of any or all encumbrances or interests, provided that all instruments so procured are recorded simultaneously with the delivery of said deed, or, for institutional mortgages only, within a reasonable time thereafter in accordance with customary Massachusetts conveyancing practices.

13. Adjustments. Taxes on the Property for the then-current fiscal year shall be apportioned as follows: if taxes are outstanding as of the closing date, taxes will be apportioned as of the closing date in accordance with G.L. c. 59, §72A; if, however, SELLER has paid taxes through and past the closing date, such payments shall not be refunded, it being acknowledged that BUYER has no funds to refund SELLER for such taxes paid and BUYER, being tax exempt, has no obligation to pay taxes upon acquisition of the Premises.

14. Buyer's Contingencies. BUYER'S obligation to perform under this Agreement is subject to the following conditions, at BUYER'S option:

- (a) BUYER shall, on or before the Closing Date, have inspected SELLER'S title to the Premises and be satisfied with the same, in its sole and absolute discretion, notwithstanding anything herein to the contrary;
- (b) BUYER, at BUYER's sole cost and expense, shall have inspected the condition of the Premises and be satisfied with the same, in its sole and absolute discretion, notwithstanding anything herein to the contrary, **which condition shall expire at 5:00 p.m. EST on June 30, 2023** (the "Inspection Period"). In the event the BUYER is not satisfied with the results of such inspection(s) on or before the last day of the Inspection Period, the BUYER shall so advise the Seller in writing, and shall provide SELLER with the written results of such inspections or tests, if any, whereupon this Agreement shall become null and void, and all payments made hereunder shall be refunded, and all obligations of the parties shall cease. If such written notice is not received on or before 5:00 p.m. on the last day of the Inspection Period, the BUYER shall be bound to perform its obligations under this Agreement. Notwithstanding anything to the contrary herein, the BUYER acknowledges that SELLER is under no obligation whatever to extend the Inspection Period; and
- (c) During the Inspection Period described in Subsection 14(b), upon providing at least twenty-four (24) hours' notice to SELLER (which notice shall include the nature, location and proposed date of such inspection, assessment or test), the BUYER, its agents, consultants, contractors and subcontractors shall have the right to enter upon the Premises to conduct such inspection(s). BUYER hereby agrees, to the extent permitted by law, to indemnify and hold SELLER and the Premises harmless from and against any and all costs, losses, damages or expenses arising out of or resulting from such entry, inspections or tests by BUYER, its agents, consultants, contractors or subcontractors. Upon the conclusion of any such inspections or tests, BUYER will promptly restore the Premises to substantially the same condition which existed prior to such inspection(s).

15. Title to Premises. Notwithstanding anything herein contained, the Premises shall not be considered to be in compliance with the provisions of this Agreement with respect to title unless: (a) no building, structure or improvement of any kind belonging to any person or entity encroaches upon or under the Premises from other premises; (b) title to the Premises is insurable, for the benefit of BUYER, by a title insurance company acceptable to BUYER, in a fee owner's policy of title insurance at normal premium rates, in the American Land Title Association form currently in use without exceptions other than the standard printed exceptions contained in the ALTA form currently in use, and those exceptions set forth in Section 4 of this Agreement; (c) all structures and improvements and all means of access to the Premises shall not encroach upon or under any property not within the lot lines of the Premises; and (d) the Premises abut a public way, duly laid out or accepted as such by the municipality in which the Premises are located, or the Premises have an express access and utility easement leading from the Premises to a public way on terms acceptable to BUYER, in its discretion.

16. Affidavits, etc. Simultaneously with the delivery of the deed, SELLER shall execute and deliver: (a) affidavits and indemnities under oath with respect to parties in possession and mechanic's liens to induce BUYER's title insurance company to issue lender's and owner's policies of title insurance without exception for those matters, and SELLER shall indemnify and hold harmless the title insurance company for any losses, costs, or damages sustained as a result of issuing a policy without exceptions covered by such representations; (b) an affidavit, satisfying the requirements of Section 1445 of the Internal Revenue Code and regulations issued thereunder, which states, under penalty of perjury, SELLER's United States taxpayer identification number, that SELLER is not a foreign person, and SELLER's address (the "1445 Affidavit"); (c) Internal Revenue Service Form W-8 or Form W-9, as applicable, with SELLER'S tax identification number, and an affidavit furnishing the information required for the filing of Form 1099S with the Internal Revenue Services and stating SELLER is not subject to back-up withholding; (d) an updated certification of the representations contained herein to Seller's actual knowledge without inquiry or duty of inquiry; (e) a Disclosure of Beneficial Interest form, as required under G.L. c.7C, §38; (f) a waiver of relocation assistance under G.L. c.79A; and (g) such additional and further instruments and documents as may be consistent with this Agreement and customarily and reasonably required by BUYER and/or BUYER'S title insurance company to complete the transactions described in this Agreement.

17. Title Standards. Any matter or practice arising under or relating to this Agreement which is the subject of a title standard or a practice standard of the Real Estate Bar Association for Massachusetts at the time for delivery of the deed shall be covered by said title standard or practice standard to the extent applicable.

18. Representations. SELLER represents to the best of SELLER'S actual knowledge to BUYER, effective as of the date of this Agreement and also effective as of the date of closing (subject to any subsequent notice from SELLER as hereinafter set forth), that:

- (a) SELLER holds good and clear, record and marketable title to the Premises in fee simple subject to exceptions of record;
- (b) SELLER has not granted or entered into any options, rights of first refusal, or other contracts which give any other party a right to purchase or acquire any interest in the Premises;
- (c) SELLER has not entered into leases, licenses, or other occupancy agreements (whether written or oral) in effect with respect to any part of the Premises;
- (d) SELLER'S execution of this Agreement does not violate any other contracts, agreements, or any other arrangements of any nature whatsoever that SELLER has with third parties that could affect the Premises;
- (e) SELLER has the right, power and authority to enter into this Agreement and to sell the Premises in accordance with the terms and conditions hereof. This Agreement,

when executed and delivered by SELLER, will be a valid and binding obligation of SELLER in accordance with its terms;

- (f) SELLER is not a party to any litigation affecting the Premises, and SELLER knows of no litigation or threatened litigation affecting the Premises, or affecting SELLER, or any basis for any such litigation, which would either enjoin SELLER'S performance under this Agreement or adversely impact the Premises;
- (g) To SELLER'S actual knowledge without inquiry or any duty of inquiry: (i) no Hazardous Waste (defined in Section 19) has been generated, released, or disposed of at or from the Property; (ii) there has been no release of any Hazardous Waste from the Property; (iii) there are no underground storage tanks or other subsurface facilities currently in use or previously abandoned on the Property, and (iv) chlordane has not been used as a pesticide on the Property. SELLER has informed BUYER that the Premises were or are being used for vehicular parking and that Hazardous Waste associated with such use may exist on the Premises, but SELLER has no actual knowledge of any contamination and Buyer acknowledges and understands that SELLER has not performed or caused to be performed, and is not under any obligation hereunder to perform, any Hazardous Waste inspections, and makes no representations whatsoever relative to the presence or absence of Hazardous Waste on or affecting the Premises. Nothing herein shall affect BUYER'S right to terminate this Agreement under the provisions of Section 19;
- (h) SELLER has not received written notice from any governmental authority or agency having jurisdiction over the Premises of any environmental contamination, or the existence or release of any Hazardous Waste (defined in Section 19), at or near the Premises; and
- (i) No petition in bankruptcy (voluntary or otherwise), assignment for the benefit of creditors, or petition seeking reorganization or arrangement or other action under Federal or State bankruptcy laws is pending against or contemplated by SELLER.

SELLER will not cause nor, to the best of SELLER'S knowledge or ability, knowingly permit any action to be taken which would cause any of SELLER'S representations herein to be false as of closing, and in any event shall notify BUYER promptly of any change in these representations.

19. Inspection Rights. During the Inspection Period, BUYER and its agents, employees, consultants, contractors or licensees shall have the opportunity to conduct such due diligence and inspections with respect to the Premises as the BUYER has deemed advisable, and BUYER shall be satisfied with the condition of the Premises, including, without limitation, on not having found on the Premises any oil, hazardous waste or hazardous materials, as such terms are used in G.L. c.21E and any applicable federal and/or state laws, rules, and regulations ("Hazardous Waste"). **The Inspection Period and this condition shall expire at 5:00 p.m. EST on June 30, 2023.** BUYER acknowledges that BUYER has conducted, or had the opportunity to conduct, the foregoing inspections, is satisfied with the same, and accepts the

Premises in its condition as of the date of this Agreement in "AS IS" condition in accordance with the provisions of Section 29 of this Agreement. Nothing herein shall affect BUYER'S rights under this Agreement to walk through and visually inspect the Premises at reasonable frequencies prior to the delivery of the deed, upon reasonable advance notice to the Seller.

20. Closing. The deed and other documents required by this Agreement are to be delivered and the Purchase Price, less the permitted adjustments, paid at the Date and Time of Closing and at the Place of Closing. All documents and funds are to be delivered in escrow subject to prompt rundown of title and recording, which term shall include registration in the case of registered land. BUYER'S proceeds may be in the form of a Town Treasurer's check, and the check shall be held in escrow by BUYER'S attorney who shall release the check to SELLER only following the recording of the deed.

21. Condition of Premises at Closing. SELLER agrees to deliver the Premises in a condition substantially similar to their condition on the date of this Agreement, wear and tear and unavoidable casualty excepted, removing all debris and all of SELLER'S personal property therefrom which is not being sold to BUYER, or left for its benefit, as consented to by it.

22. Taking; Casualty. Notwithstanding anything herein to the contrary, in the event of a taking of all or part of the Premises or access thereto by eminent domain by any entity other than BUYER, or in the event that the Premises are damaged or destroyed by fire, vandalism or other casualty, the BUYER may, at its sole option, terminate this Agreement without recourse. All risk of loss shall stay with the SELLER until the recording of the deed.

23. Notices. Any notice required or permitted to be given under this Agreement shall be in writing and signed by the party or the party's attorney or agent and shall be deemed to have been given: (a) when delivered by hand, or (b) when sent by Federal Express or other similar courier service, or (c) when mailed by certified mail, return receipt requested, or (d) upon electronic transmission (e-mail, provided that any e-mail sent after 5:00 p.m. on a business day shall be deemed received on the following business day), to the party's attorney at the addresses set forth in Section 1.

24. Extensions. BUYER and SELLER hereby authorize their respective attorneys (as the case may be) to execute on their behalf any extensions to the time for performance and any change of location and/or time for delivery of the deed. BUYER and SELLER shall be able to rely upon the signature of said attorneys as binding unless they have actual knowledge before the execution or other consent to such extensions, that either party has disclaimed the authority granted herein to bind them. For purposes of this Agreement, facsimile and scanned signatures shall be construed as original.

25. Errors. If any errors or omissions are found to have occurred in any calculations or figures used in the settlement statement signed by the parties (or would have been included if not for any such error or omission) and notice thereof is given within six (6) months of the date of delivery of the deed to the party to be charged, then such party agrees to make payment to correct the error or omission. The provisions of this Section shall survive the closing and delivery of the deed.

26. Construction of Agreement. This instrument, executed in multiple counterparts, is to be construed as a Massachusetts contract, is to take effect as a sealed instrument, sets forth the entire contract between the parties, is binding upon and inures to the benefit of the parties hereto and their respective heirs, devisees, executors, administrators, successors and assigns, and may be canceled, modified or amended only by a written instrument executed by both SELLER and BUYER. If two or more persons are named herein as SELLER, their obligations hereunder shall be joint and several. Any claims arising under this Agreement shall be brought in the courts of the Commonwealth of Massachusetts.

27. Captions. The captions and headings throughout this Agreement are for convenience of reference only and the words contained therein shall in no way be held or deemed to define, limit, explain, modify, amplify or add to the interpretation, construction or meaning of any provisions of, or the scope or intent of this Agreement, nor in any way affect this Agreement, and shall have no legal effect.

28. Appraisal. This Agreement is not subject to the results of the BUYER'S appraisal of the Premises.

29. "As-Is". SELLER expressly disclaims any representations concerning the physical condition of the land and improvements thereon constituting the Premises, and BUYER acknowledges the BUYER is purchasing the Premises "AS IS", subject to any and all existing conditions. BUYER has been afforded the opportunity to have the Premises inspected by a commercial inspection firm or firms selected by BUYER. BUYER acknowledges that SELLER has made no warranties or representations of any type or nature upon which BUYER has relied with respect to or in connection with the condition of the Premises or otherwise (except those set forth within this Agreement), it being the understanding and intention of the parties hereto that the entire agreement of the parties with respect to this transaction is fully set forth herein. In the event that the BUYER has been provided with any statement or writing signed by the SELLER or purporting to be a Seller's Statement of Condition or Seller's Disclosure Statement by the Broker, such statement or writing is neither a representation nor a warranty by the SELLER of the condition of the Premises. The SELLER is without knowledge or expertise to make any statement of the condition of the Premises that can be reasonably relied upon by BUYER. Any statement or information provided to the Broker was provided solely for informational purposes. The provisions of this Section shall survive the delivery and recording of the deed.

30. Seller's Representations. All of the SELLER'S representations under this Agreement are to the SELLER'S actual knowledge, and without conducting any independent investigation or inquiry and are not intended to imply or create any obligation for the SELLER to take additional actions or undertake further inquiry with regard to any topics contained within this Agreement or elsewhere. Furthermore, it is acknowledged and agreed by the parties that any such representations shall not constitute a representation or warranty against the existence of such conditions about which SELLER has no knowledge, nor a representation or warranty against the discovery or occurrence of such conditions. The provisions of this Section shall survive the delivery and recording of the deed.

31. Broker's Fee. A broker's fee for professional services as per a separate agreement between Seller and LandVest in the amount of 5% of the purchase price is due to LandVest from the SELLER. Said broker's fee is to be paid upon recording of the deed and disbursement of proceeds, and not otherwise. SELLER agrees to defend and indemnify the BUYER against and hold the BUYER harmless from any claim, loss, damage, costs or liabilities for any brokerage commission or fee which may be asserted against BUYER. The provisions of this Section shall survive the delivery and recording of the deed.

32. Broker's Warranty. The Broker named herein, James Monahan of LandVest, warrants that he is duly licensed as such by the Commonwealth of Massachusetts.

33. Liability of Trustee, Shareholder, Beneficiary, Etc. If the SELLER or the BUYER executes this Agreement in a representative or fiduciary capacity, only the principal or the estate represented shall be bound, and neither the SELLER or BUYER so executing, nor any shareholder or beneficiary of any trust, shall be personally liable for any obligation, express or implied, hereunder.

34. Buyer Authority. BUYER represents that it has the right, power and authority to enter into this Agreement and to buy the Premises in accordance with the terms and conditions hereof. This Agreement, when executed and delivered by BUYER, will be a valid and binding obligation of BUYER in accordance with its terms.

35. Electronic Signatures. Except for closing documents, the parties agree that electronic signatures, faxed signatures and/or email confirmations between the parties and/or their respective counsel on the parties' behalf shall be deemed acceptable to all parties.

[Signature Page Follows]

In Witness Whereof, the parties hereto sign this Agreement under seal as of this 12th day of June, 2023.

SELLER:

BUYER: TOWN OF BOXFORD,
By its Select Board

Caroline D. Lockhart, Trustee

Barbara G. Jessel, Chair

William E. Dorman, III, Trustee

Charles J. Costello, Clerk

Stephen D. Raich, Trustee

Peter C. Perkins, Member

Judith A. Stickney, Member

Margaret Chow-Menzer, Member

Memorandum

To: Ross Povenmire, Land Use Director, Boxford, MA
From: Michael J. DeRosa LSP, DeRosa Environmental Consulting, Inc.
Date: 6/12/2023
Re: Dorman Land, Boxford | Records Search

Dear Mr. Povenmire,

We have prepared the following memo outlining the findings from the records search we conducted for the property located off Herrick Road known as Boxford Parcel ID 28-2-16.1.

General Site Information and Background

This report describes the records search DeRosa Environmental Consulting, Inc. performed on the property identified as Parcel ID 28-2-16.1 in Boxford, Massachusetts (the Site, Figure 3). Our office conducted this search at the request of Mr. Ross Povenmire, Director of Land Use for the town of Boxford.

The Site consists of one (1) parcel of land identified as Parcel ID 28-2-16.1 (Figure 2 and 3) in a primarily forested area of Boxford, Massachusetts. The property is currently owned by William E Dorman. Currently the Site exists as vacant, forested land. Information about the Site was gathered from historical and local records. These findings are discussed further in the report.

This records search is being conducted since the land is proposed to be purchased by the Town of Boxford.

Scope of Investigation

Our office reviewed a report of federal and state environmental records conducted by a database search contractor (EDR) to identify federal- or state-listed sites within the search radii specified in ASTM E 1527-21. We reviewed readily available local records on file at the Town of Boxford municipal offices to ascertain Site history and

identify recognized environmental conditions at and in the immediate vicinity of the Site.

Recommendations

Based on our record review, it is our professional opinion that no evidence of a release of oil or hazardous materials or recognized environmental conditions (RECs) have been identified at the Site, at this time. An inspection of the Site will be carried out in the following weeks and site reconnaissance information will be included in the full Phase 1 Environmental Site Inspection.

Site Description

Present Ownership & Use

The Town of Boxford Assessors' records identify the current site owner as William E Dorman since the property was purchased in 1964. At this time, the Site remains as vacant, forested land and has remained the same since at least 1938 and has likely functioned as forested land for many years before 1938 as well. To date, our research shows no significant change to the use and condition of the Site dating back to the 1930s.

The Town of Boxford Assessor's Office did a have field card for the Site that identifies the parcel to be 61 land (code 6010). A Classified Forest-Agricultural or Horticultural-Recreational Land Tax Lien is recorded at the Essex County Registry of Deeds at Book: 35502, Page: 38.

Adjoining Properties

- North Herrick Road and Residential Properties
- East Residential Properties, Forested Land
- South Residential Properties, Forested Land, Open Space
- West Residential Properties

Zoning

The lot that makes up the Site and abutting properties to the north, east, south, and west are zoned as "R-A" Residence-Agricultural District. One parcel located south of the Site is zoned as "O" Official or Open Space District.

Historical Sources

Historical Atlases/Sanborn Fire Insurance Maps

The complete holdings of the Sanborn library maps were searched for the target property (the Site). No fire insurance maps were found for the Site.

Aerial Photographs

We reviewed aerial photographs from 1938, 1952, 1960, 1965, 1971, 1978, 1985, 1995, 2006, 2010, 2014, and 2018 depicting the Site and vicinity (Appendix A-1). Aerial photos from 1938 to 2018 don't differ greatly and show the site has functioned as vacant, forested land from before the first aerial photo dated 1938 to present. There have been no significant changes to the Site according to the aerial photographs. No evidence of historical structures was identified. Much of the surrounding land to the north, east, south, and west also exists as vacant, forested land.

Historical Topographic Maps

We reviewed the United States Geological Survey (USGS) topographic quadrangle, dated 1888, 1893, 1915, 1918, 1919, 1943, 1944, 1952, 1953, 1966, 1979 1985, 1987, 1997, 2012, 2015 and 2018 (Appendix A-1). The historical topographic maps dated 1944-1979 show a trail or roadway passing through the eastern portion of the Site. The topographic maps show no signs of current or historic structures at the Site.

Records Review

We contracted database searches of federal and state environmental records through Environmental Data Resource Technology Corporation. The following sections of this memo discuss federal- and state-listed sites of the database search.

Federal Records

NPL Sites

The search did not identify any National Priority List (NPL) sites within one mile of the Site. The search did not find any Delisted NPL sites within ½ mile of the Site. A National Priority List site is a subset of CERCLIS sites that are designated as priority cleanup under the Superfund Program. NPL sites are typically large in size.

SEMS Listings

The search did not identify any Superfund Enterprise Management System (SEMS)¹ listings within ½ mile of the Site. A SEMS listing is a property under investigation by the state or United States Environmental Protection Agency (EPA) as a potential Superfund site.

The search did not identify any No Further Remedial Action Planned (NFRAP) SEMS listings within the ½ mile of the Site. NFRAP sites are sites that have no further interest under the Federal Superfund Program.

RCRA Facilities

The search did not identify any Resource Conservation and Recovery Act sites (RCRA) within ¼ mile of the Site.

RCRA facilities includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Industrial Control/Engineering Control (IC/EC) Registries

The database search did not identify the Site as the location of a federally registered Institutional Controls (IC) or Engineering Controls (EC).

“Institutional controls” means the restriction on use or access to a site to eliminate or minimize exposure to petroleum products’ chemicals of concern, dry cleaning solvents, or other contaminants. Such restrictions may include, but are not limited to, deed restrictions, restrictive covenants, or conservation easements.

“Engineering controls” means modifications to a site to reduce or eliminate the potential for exposure to petroleum products, chemicals of concern, dry cleaning solvents, or other contaminants. Such modifications may include, but are not limited to, physical or hydraulic control measures, capping, point of use treatments, or slurry walls.

¹ Formerly known as Comprehensive Environmental Response Compensation and Liability Information System Archived Sites (CERCLIS) and renamed by the EPA in 2015.

ERNS Sites

The search did not identify the Site as an Emergency Response Notification System (ERNS) site. ERNS records and stores information on reported releases of oil and hazardous substances.

State Records

State-listed Disposal Sites

The Site (Vacant Land)

The search did not identify the Site as a state-listed disposal site. A state-listed disposal site (State/Tribal CERCLIS) is a site where a release of oil and hazardous materials has been reported to MassDEP.

East Fire Station

The search did identify four (4) state-listed sites within one mile of the Site. Of the sites identified, the closest site is a residential property located at 16 Middleton Road in Boxford. This property is located 0.513 miles southeast from the Site and is lower in elevation than the Site.

According to the records, in September 2021 arsenic and total chromium were detected above their applicable RCS-1 standards during the closure of existing drywall at the East Fire Station. On July 1, 2013 a Response Action Outcome (RAO) B1 was reached which means remedial actions have not been conducted because a level of No Significant Risk exists. Due to this property's regulatory status, inferred hydrology, crossgradient or downgradient locations, and/or distances from the Site, this property is unlikely to pose a material threat of release of oil and/or hazardous materials (OHM) to the Site.

Other Various Sites

Based on our review of the site detail report (Appendix A-1) and the Massachusetts Department of Environmental Protection (MADEP) records, the remaining state-listed disposal sites are unlikely to pose a material threat of release of oil and/or hazardous materials (OHM) to the Site based on the regulatory status, inferred hydrology crossgradient or downgradient locations, and/or distances from the Site.

Registered Underground Storage Tanks (USTs)

The search did not identify any registered underground storage tanks at the Site. The search did not identify any registered underground storage tank facilities adjacent to the Site. Records reviewed did not report any registered underground storage tanks (USTs) within a half mile of the Site. Underground storage tanks may pose a threat to the Site if tanks subsequently rupture or leak.

Leaking Storage Tanks (LAST or LUST) Sites

The search did not identify the Site as a LUST or LAST site. The search not identify any leaking aboveground storage tank (LAST) or leaking underground storage tank (LUST) facilities within ½ mile of the Site.

Solid Waste Facilities/Landfills

The search did not identify the Site as a Solid Waste Facility/Landfill. The search did not identify any Solid Waste Facility/Landfill within ½ mile of the Site.

Releases/Spills

The search did not identify the Site as a release/spill location.

State Brownfield Listings

The search did not identify the Site as a State Brownfield site. The search did not identify any State Brownfield listings within ½ mile of the Site.

Database Search of Unmappable Properties

The search did not identify any unmappable properties in the general vicinity of the Site.

Local Records

We reviewed local records in an attempt to identify registered underground storage tanks, aboveground storage tanks, hazardous material storage, or oil and/or hazardous material releases at the Site or properties in its immediate vicinity.

Building Department

We contacted the Town of Boxford Fire Department for information regarding the presence of underground storage tanks, aboveground storage tanks, and/or hazardous material storage at the Site or properties in its immediate vicinity. Peter Delany, Building Inspector for the Town of Boxford, reviewed the Building Department files and did not find any information regarding any environmental issues with this parcel.

Conservation Commission

Ross Povenmire, Director of the Town of Boxford Conservation Commission, reviewed the Conservation files and did not find any information regarding underground storage tanks, aboveground storage tanks, flammable storage permits, or releases of oil and/or hazardous material at the Site.

Summary

Based on our record review, it is our professional opinion that no evidence of a release of oil or hazardous materials or recognized environmental conditions (RECs) have been identified at the Site, at this time. We will provide a full Phase 1 Site Inspection for the property with Site Reconnaissance on or before June 30, 2023.

Please call anytime, should you have any questions.

Respectfully Submitted,

DeRosa Environmental Consulting, Inc.



Michael J. DeRosa
LSP Lic. 3452, Principal
michaelderosa@gmail.com

MJD/aem



Abigail Manzi
Environmental Scientist
manzi.derosa@gmail.com

Attachments:

1. *Simple Database Search Report (Environmental Data Resource)*
 - a. *The EDR Radius Map Report with GeoCheck*
 - b. *Certified Sanborn Map Report*
 - c. *The EDR Historical Topo Map Report*
 - d. *The EDR Aerial Photo Decade Package*
2. *Figures*
 - a. *Figure 1. USGS Locus Map*
 - b. *Figure 2. Assessors Map*
 - c. *Figure 3. 2015 Color Orthophoto Map*
 - d. *Figure 4. MA DEP Wetlands Map*
 - e. *Figure 5. NHESP Ecoregions Map*
 - f. *Figure 6. FEMA Map*
 - g. *Figure 7. Sensitive Receptors*
 - h. *Figure 8. Engineer Plan*
3. *Professional Qualifications*

Dorman Land
Herrick Road
Boxford, MA 01921

Inquiry Number: 7359677.2s
June 08, 2023

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

HERRICK ROAD
BOXFORD, MA 01921

COORDINATES

Latitude (North): 42.6712720 - 42° 40' 16.57"
Longitude (West): 71.0069260 - 71° 0' 24.93"
Universal Transverse Mercator: Zone 19
UTM X (Meters): 335542.0
UTM Y (Meters): 4726049.5
Elevation: 115 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 11747380 SOUTH GROVELAND, MA
Version Date: 2018

East Map: 11747663 GEORGETOWN, MA
Version Date: 2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140712
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
HERRICK ROAD
BOXFORD, MA 01921

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	EAST FIRE STATION	6 MIDDLETON ROAD	SHWS, RELEASE, ASBESTOS, UIC	Lower	2710, 0.513, SE
2	NO LOCATION AID	118 GEORGETOWN RD	SHWS, RELEASE	Higher	2966, 0.562, NE
3	HARRY LEE COLE SCHOO	26 MIDDLETON ROAD	SHWS, RELEASE, ASBESTOS	Lower	3053, 0.578, SSE
4	NO LOCATION AID	221 IPSWICH RD	SHWS, RELEASE	Higher	5147, 0.975, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Facility Database/Transfer Stations

Lists of state and tribal leaking storage tanks

LUST..... Leaking Underground Storage Tank Listing
LAST..... Leaking Aboveground Storage Tank Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Summary Listing of all the Tanks Registered in the State of Massachusetts
AST..... Aboveground Storage Tank Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites With Activity and Use Limitation

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Completed Brownfields Covenants Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS..... Liens Information Listing

EXECUTIVE SUMMARY

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Historical Spill List
RELEASE..... Reportable Releases Database
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
ECHO..... Enforcement & Compliance History Information
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
PFAS NPL..... Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES..... Federal Sites PFAS Information
PFAS TSCA..... PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR..... PFAS Contamination Site Location Listing

EXECUTIVE SUMMARY

PFAS WQP.....	Ambient Environmental Sampling for PFAS
PFAS NPDES.....	Clean Water Act Discharge Monitoring Information
PFAS ECHO.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT.....	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC.....	Aqueous Foam Related Incidents Listing
PFAS.....	PFAS Contaminated Sites Listing
AIRS.....	Permitted Facilities Listing
ASBESTOS.....	ASBESTOS
DRYCLEANERS.....	Regulated Drycleaning Facilities
ENF.....	Enforcement Action Cases
Financial Assurance.....	Financial Assurance Information Listing
GWDP.....	Ground Water Discharge Permits
HW GEN.....	List of Massachusetts Hazardous Waste Generators
MERCURY.....	Mercury Product Recycling Drop-Off Locations Listing
NPDES.....	NPDES Permit Listing
TIER 2.....	Tier 2 Information Listing
TSD.....	TSD Facility
UIC.....	Underground Injection Control Listing
PFAS TRIS.....	List of PFAS Added to the TRI
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 01/08/2023 has revealed that there are 4 SHWS sites within approximately 1 of the target property.

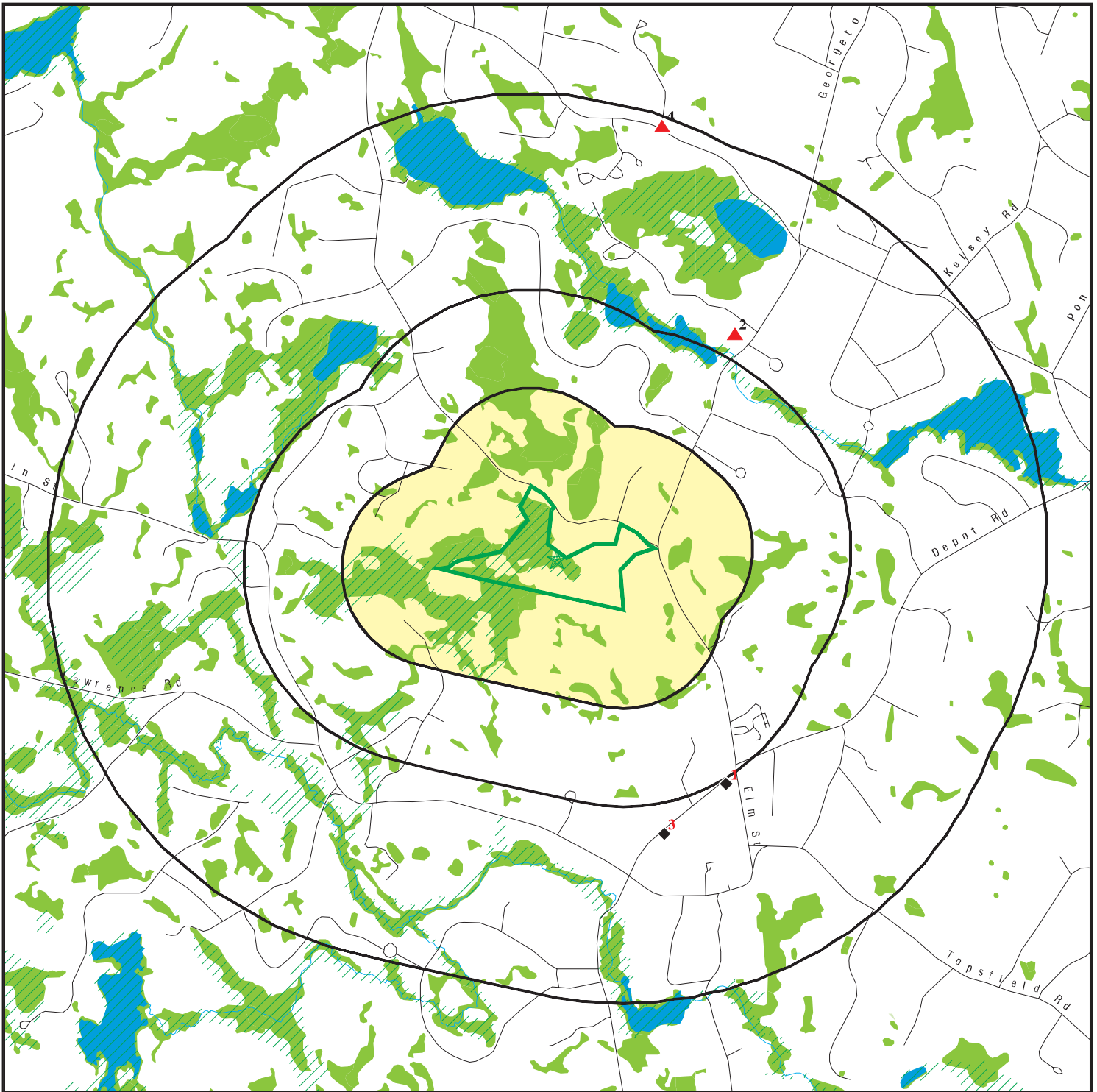
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>NO LOCATION AID</i> Release Tracking Number: 3-0018106 Current Status: RAO	<i>118 GEORGETOWN RD</i>	<i>NE 1/2 - 1 (0.562 mi.)</i>	<i>2</i>	<i>11</i>
<i>NO LOCATION AID</i> Release Tracking Number: 3-0012281 Current Status: RAO	<i>221 IPSWICH RD</i>	<i>NNE 1/2 - 1 (0.975 mi.)</i>	<i>4</i>	<i>15</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EAST FIRE STATION</i> Release Tracking Number: 3-0031407 Current Status: RAO	<i>6 MIDDLETON ROAD</i>	<i>SE 1/2 - 1 (0.513 mi.)</i>	<i>1</i>	<i>8</i>
<i>HARRY LEE COLE SCHOO</i> Release Tracking Number: 3-0036878 Current Status: TIERII	<i>26 MIDDLETON ROAD</i>	<i>SSE 1/2 - 1 (0.578 mi.)</i>	<i>3</i>	<i>12</i>

EXECUTIVE SUMMARY


Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.


<u>Site Name</u>	<u>Database(s)</u>
ROADWAY IN FRONT OF 45 BATCHELDER IN FRONT OF 461 IPSWICH ROAD	SHWS, RELEASE SHWS, RELEASE

OVERVIEW MAP - 7359677.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property


 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites



 Indian Reservations BIA

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

 Areas of Critical Environmental Concern










This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.







SITE NAME: Dormon Land
 ADDRESS: Herrick Road
 Boxford MA 01921
 LAT/LONG: 42.671272 / 71.006926

CLIENT: Derosa Environmental Consulting, Inc
 CONTACT: Abby Manzi
 INQUIRY #: 7359677.2s
 DATE: June 08, 2023 4:47 pm

DETAIL MAP - 7359677.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Critical Environmental Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Dorman Land
 ADDRESS: Herrick Road
 Boxford MA 01921
 LAT/LONG: 42.671272 / 71.006926

CLIENT: Derosa Environmental Consulting, Inc
 CONTACT: Abby Manzi
 INQUIRY #: 7359677.2s
 DATE: June 08, 2023 4:48 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	0	4	NR	4
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
RELEASE	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Financial Assurance	TP		NR	NR	NR	NR	NR	0
GWDP	TP		NR	NR	NR	NR	NR	0
HW GEN	0.250		0	0	NR	NR	NR	0
MERCURY	0.500		0	0	0	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
TSD	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	4	0	4

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
SE
1/2-1
0.513 mi.
2710 ft.

**EAST FIRE STATION
6 MIDDLETON ROAD
BOXFORD, MA 01921**

**SHWS S113411762
RELEASE N/A
ASBESTOS
UIC**

**Relative:
Lower
Actual:
101 ft.**

SHWS:
Name: EAST FIRE STATION
Address: 6 MIDDLETON ROAD
City,State,Zip: BOXFORD, MA 019210000
Facility ID: 3-0031407
Source Type: Not reported
Release Town: BOXFORD
Notification Date: 03/04/2013
Category: 120 DY
Associated ID: Not reported
Current Status: RAO
Status Date: 07/01/2013
Phase: Not reported
Response Action Outcome: B1
Oil Or Haz Material: Hazardous Material

Release:
Name: EAST FIRE STATION
Address: 6 MIDDLETON ROAD
City,State,Zip: BOXFORD, MA 019210000
Release Tracking Number/Current Status: 3-0031407 / RAO
Primary ID: Not reported
Official City: BOXFORD
Notification: 03/04/2013
Category: 120 DY
Status Date: 07/01/2013
Phase: Not reported
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:
Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/7/2014
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 12/9/2013
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 3/18/2013
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EAST FIRE STATION (Continued)

S113411762

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 3/4/2013
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/4/2013
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/4/2013
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 7/1/2013
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: BOL
Action Status: SHPFAC
Action Date: 7/7/2014
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:
Chemical: ARSENIC
Quantity: 37 milligrams per kilogram

ASBESTOS:
Name: BOXFORD FIRE STATION
Address: 6 MIDDLETON RD.
City,State,Zip: BOXFORD, MA
Notification: Not reported
DEP Region: Not reported
Notifiers Name: Not reported
Start Date: 12/01/2021
End Date: 12/01/2021
Date Entered: Not reported
Entry Date: 11/17/2021
Quantity Material Removed SF: 30
Quantity Material Removed LF: 0
Project Description: OTHER MASTIC
AR Tracking ID: 377056
Super Lic Number: AS052339
Monitor Lic Number: AM031319
Lab Lic Number: AA000153
Year: 2021
Sticker Number: 100356447
Form Type: ANF-001
Fee Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EAST FIRE STATION (Continued)

S113411762

Facility Phone: 0000000000
Sub Town: Not reported
Worksite: BATHROOM FLOOR
Occupied: -1
Contractor: AC001045
Contract Type: VERBAL
Hours: 8AM-4PM
Project Type: Renv
Abatement Process: Fcontain
Location: INDOORS
Decon Process: 3 STAGE DECONTAMINATION.
Disposal Methods: ALL ACM TO BE DOUBLED BAGGED IN 6 MIL LABELED ASBESTOS BAGS.
Facility Usage: FIRE STATION
Waiver Given: Not reported
DEP Waiver Number: Not reported
DLWD Waiver Number: Not reported
Small Owner Occ: -1
Owner Name: TORN OF BOXFORD
Owner Address: 7A SPOFFORD RD.
Owner City: BOXFORD
Owner State: MA
On Site Manager Name: NA
On Site Manager Phone: 0000000000
Ins Comp: TRAVERLER
Policy Number: USA469PS55
EXP Date: 3/12/2022
Facility Size: 2500
Transporter Name: JOB/ROLLOFF, INC.
Transporter Address: PO BOX 609
Transporter City: HAMPSTEAD
Transporter State: NH
Final Site: Not reported
Certified Name: ZAKARIYA SOULONG
Cert Sign Date: 11/17/2021
Certified Company: ALLSTATE CONTRACTING
Certified Phone: 9784234723
Entered_by: ALLSTATE51

UIC:

RTN Number: Not reported
Name: EAST FIRE STATION
Address: 6 MIDDLETON ROAD
City,State,Zip: BOXFORD, MA 1921
Permit Date: Not reported
Actor Name: Not reported
Air Sparging: Not reported
Injection Well: Not reported
Reinjection Well: Not reported
UIC APL Type: Not reported
Latitude: 42.6626
Well Status: 1
Longitude: 70.9994
UIC ID: MAS31A038302-5H3
EPA Code: Not reported
Indicates Area: Not reported
Number of Wells: Not reported
Owner: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EAST FIRE STATION (Continued)

S113411762

Receive Date:	Not reported
Authorization to Install/Close Date:	Not reported
Confirmation of Install Receive:	Not reported
Post-Closure Receive:	Not reported
Final Approval Date:	Not reported
Permit Number:	Not reported
Permit Type:	Not reported
Permit Type Description:	Not reported
Program:	Not reported
Applicant Name:	Not reported
Decision Date:	Not reported
Operator Name:	Not reported
Well ID:	DRYWELL 1
Well Type Name:	rinse water, snow/ice melt or rain drip
Max Well Depth:	4
Date Complete:	Not reported
Work Performed:	Not reported
Depth to Bedrock:	Not reported
Water Level:	Not reported

2
NE
1/2-1
0.562 mi.
2966 ft.

NO LOCATION AID
118 GEORGETOWN RD
BOXFORD, MA 01921

SHWS S103812169
RELEASE N/A

Relative:
Higher
Actual:
121 ft.

SHWS:
 Name: NO LOCATION AID
 Address: 118 GEORGETOWN RD
 City,State,Zip: BOXFORD, MA 019210000
 Facility ID: 3-0018106
 Source Type: TANKER
 Release Town: BOXFORD
 Notification Date: 03/15/1999
 Category: TWO HR
 Associated ID: Not reported
 Current Status: RAO
 Status Date: 05/24/1999
 Phase: Not reported
 Response Action Outcome: A1
 Oil Or Haz Material: Oil

Release:
 Name: NO LOCATION AID
 Address: 118 GEORGETOWN RD
 City,State,Zip: BOXFORD, MA 019210000
 Release Tracking Number/Current Status: 3-0018106 / RAO
 Primary ID: Not reported
 Official City: BOXFORD
 Notification: 03/15/1999
 Category: TWO HR
 Status Date: 05/24/1999
 Phase: Not reported
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
 Oil / Haz Material Type: Oil

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

NO LOCATION AID (Continued)

S103812169

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Release Disposition
 Action Status: Reportable Release under MGL 21E
 Action Date: 3/15/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action
 Action Status: Oral Approval of Plan or Action
 Action Date: 3/15/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
 Action Date: 4/6/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
 Action Status: Reportable Release under MGL 21E
 Action Date: 5/18/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
 Action Status: RAO Statement Received
 Action Date: 5/24/1999
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:

Chemical: #2 FUEL OIL
 Quantity: 20 gallons
 Chemical: FUEL OIL #2
 Quantity: 20 gallons
 Location Type: ROADWAY
 Source: TANKER

3
SSE
1/2-1
0.578 mi.
3053 ft.

HARRY LEE COLE SCHOOL
26 MIDDLETON ROAD
BOXFORD, MA 01921

SHWS **S125165982**
RELEASE **N/A**
ASBESTOS

Relative:
Lower
Actual:
100 ft.

SHWS:
 Name: HARRY LEE COLE SCHOOL
 Address: 26 MIDDLETON ROAD
 City, State, Zip: BOXFORD, MA 019210000
 Facility ID: 3-0036878
 Source Type: UNKNOWN
 Release Town: BOXFORD
 Notification Date: 06/09/2021
 Category: 120 DY
 Associated ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HARRY LEE COLE SCHOOL (Continued)

S125165982

Current Status: TIERII
Status Date: 06/13/2022
Phase: PHASE II
Response Action Outcome: Not reported
Oil Or Haz Material: Hazardous Material

Release:

Name: HARRY LEE COLE SCHOOL
Address: 26 MIDDLETON ROAD
City,State,Zip: BOXFORD, MA 019210000
Release Tracking Number/Current Status: 3-0036878 / TIERII
Primary ID: Not reported
Official City: BOXFORD
Notification: 06/09/2021
Category: 120 DY
Status Date: 06/13/2022
Phase: PHASE II
Response Action Outcome: -
Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 11/10/2022
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 11/10/2022
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: ALSSENT
Action Date: 4/5/2022
Response Action Outcome: Not reported

Action Type: Phase 2
Action Status: Scope of Work Received
Action Date: 6/13/2022
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 6/13/2022
Response Action Outcome: Not reported

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 6/13/2022
Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/13/2022

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HARRY LEE COLE SCHOOL (Continued)

S125165982

Response Action Outcome: Not reported

Action Type: Tier Classification
Action Status: Legal Notice Published
Action Date: 6/28/2022
Response Action Outcome: Not reported

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/2021
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/9/2021
Response Action Outcome: Not reported

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 6/9/2021
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 7/9/2021
Response Action Outcome: Not reported

Chemicals:
Chemical: ARSENIC
Quantity: 25 milligrams per kilogram
Source: UNKNOWN

ASBESTOS:
Name: THE LITTLE RED SCHOOL HOUSE
Address: 26 MIDDLETON ROAD
City,State,Zip: BOXFORD, MA
Notification: Not reported
DEP Region: Not reported
Notifiers Name: Not reported
Start Date: 08/23/2019
End Date: 09/03/2019
Date Entered: Not reported
Entry Date: 08/19/2019
Quantity Material Removed SF: 100
Quantity Material Removed LF: Not reported
Project Description: TRANSPANEL OTHER MASTIC
AR Tracking ID: 326779
Super Lic Number: AS901576
Monitor Lic Number: AM061040
Lab Lic Number: AA000156
Year: 2019
Sticker Number: 100313540R
Form Type: ANF-001
Fee Status: EXEMPT
Facility Phone: 9783751711
Sub Town: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HARRY LEE COLE SCHOOL (Continued)

S125165982

Worksite: INTERIOR FLOOR
Occupied: 0
Contractor: AC000096
Contract Type: WRITTEN
Hours: 8AM - 5PM
Project Type: Renv
Abatement Process: Fcontain
Location: INDOORS
Decon Process: THREE CHAMBER DECON
Disposal Methods: DOUBLED SIX MIL POLY
Facility Usage: PUBLIC SCHOOL
Waiver Given: Not reported
DEP Waiver Number: Not reported
DLWD Waiver Number: Not reported
Small Owner Occ: 0
Owner Name: TOWN OF BOXFORD
Owner Address: 7B SPOFFORD ROAD
Owner City: BOXFORD
Owner State: MA
On Site Manager Name: STERICYCLE ENVIRONMENTAL SOLUTIONS
On Site Manager Phone: 9783751711
Ins Comp: HARTFORD UNDERWRITERS INSURANCE
Policy Number: 6S6OUB-7H88475-1-19
EXP Date: 2/11/2020
Facility Size: 400
Transporter Name: YANKEE FIBER CONTROL
Transporter Address: 50 INDUSTRIAL WAY
Transporter City: SEEKONK
Transporter State: MA
Final Site: Not reported
Certified Name: JAMES HUTZLER
Cert Sign Date: 08/19/2019
Certified Company: YANKEE FIBER CONTROL
Certified Phone: 5083435115
Entered_by: ROWBOAT

4
NNE
1/2-1
0.975 mi.
5147 ft.

**NO LOCATION AID
221 IPSWICH RD
BOXFORD, MA 01921**

**SHWS S102086528
RELEASE N/A**

**Relative:
Higher
Actual:
144 ft.**

SHWS:
Name: NO LOCATION AID
Address: 221 IPSWICH RD
City,State,Zip: BOXFORD, MA 019210000
Facility ID: 3-0012281
Source Type: TRANSFORM
Release Town: BOXFORD
Notification Date: 03/17/1995
Category: TWO HR
Associated ID: Not reported
Current Status: RAO
Status Date: 05/16/1995
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102086528

Release:

Name: NO LOCATION AID
Address: 221 IPSWICH RD
City,State,Zip: BOXFORD, MA 019210000
Release Tracking Number/Current Status: 3-0012281 / RAO
Primary ID: Not reported
Official City: BOXFORD
Notification: 03/17/1995
Category: TWO HR
Status Date: 05/16/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/17/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/17/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/17/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/25/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 4/25/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date: 4/7/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO LOCATION AID (Continued)

S102086528

Action Date: 5/16/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/16/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: TRANSFORMER OIL
Quantity: 20 gallons
Chemical: MINERAL OIL
Quantity: 50 gallons
Location Type: COMMERCIAL
Source: TRANSFORM

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOXFORD	S126984878	ROADWAY IN FRONT OF 45 BATCHELDER	BATCHELDER ROAD	01921	SHWS, RELEASE
BOXFORD	S129186077	IN FRONT OF 461 IPSWICH ROAD	IPSWICH ROAD	01921	SHWS, RELEASE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: N/A
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: N/A
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2023
Date Data Arrived at EDR: 03/28/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/28/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: 800-424-9346
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023	Source: EPA
Date Data Arrived at EDR: 03/09/2023	Telephone: 800-424-9346
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/08/2023	Source: Department of the Navy
Date Data Arrived at EDR: 02/09/2023	Telephone: 843-820-7326
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 08/21/2023
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/20/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/21/2023	Telephone: 703-603-0695
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/20/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/21/2023	Telephone: 703-603-0695
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/23/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/20/2023

Date Data Arrived at EDR: 03/21/2023

Date Made Active in Reports: 05/30/2023

Number of Days to Update: 70

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 03/21/2023

Next Scheduled EDR Contact: 07/03/2023

Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 01/08/2023

Date Data Arrived at EDR: 01/19/2023

Date Made Active in Reports: 03/21/2023

Number of Days to Update: 61

Source: Department of Environmental Protection

Telephone: 617-292-5990

Last EDR Contact: 04/06/2023

Next Scheduled EDR Contact: 07/17/2023

Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/02/2022

Date Data Arrived at EDR: 05/03/2022

Date Made Active in Reports: 07/22/2022

Number of Days to Update: 80

Source: Department of Environmental Protection

Telephone: 617-292-5989

Last EDR Contact: 03/30/2023

Next Scheduled EDR Contact: 07/10/2023

Data Release Frequency: Annually

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015

Date Data Arrived at EDR: 10/27/2015

Date Made Active in Reports: 12/14/2015

Number of Days to Update: 48

Source: Department of Environmental Protection

Telephone: 617-292-5868

Last EDR Contact: 03/30/2023

Next Scheduled EDR Contact: 07/10/2023

Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 01/08/2023

Date Data Arrived at EDR: 01/19/2023

Date Made Active in Reports: 03/21/2023

Number of Days to Update: 61

Source: Department of Environmental Protection

Telephone: 617-292-5500

Last EDR Contact: 04/06/2023

Next Scheduled EDR Contact: 07/17/2023

Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5990
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 04/06/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/26/2022	Source: EPA Region 4
Date Data Arrived at EDR: 12/06/2022	Telephone: 404-562-8677
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 12/06/2022	Telephone: 913-551-7003
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/23/2022	Source: EPA Region 8
Date Data Arrived at EDR: 12/06/2022	Telephone: 303-312-6271
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/08/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/23/2022	Source: EPA Region 6
Date Data Arrived at EDR: 12/06/2022	Telephone: 214-665-6597
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/14/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 12/06/2022	Telephone: 312-886-7439
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/19/2022	Source: EPA Region 1
Date Data Arrived at EDR: 12/06/2022	Telephone: 617-918-1313
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 11/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2022	Telephone: 415-972-3372
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/23/2022	Source: EPA Region 10
Date Data Arrived at EDR: 12/06/2022	Telephone: 206-553-2857
Date Made Active in Reports: 04/19/2023	Last EDR Contact: 05/09/2023
Number of Days to Update: 134	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023	Source: FEMA
Date Data Arrived at EDR: 03/09/2023	Telephone: 202-646-5797
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 03/29/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/08/2023	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 03/10/2023	Telephone: 617-556-1035
Date Made Active in Reports: 05/26/2023	Last EDR Contact: 05/31/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Quarterly

AST 2: Aboveground Storage Tanks
Aboveground storage tanks

Date of Government Version: 01/09/2023	Source: Department of Fire Services
Date Data Arrived at EDR: 01/12/2023	Telephone: 978-567-3181
Date Made Active in Reports: 03/30/2023	Last EDR Contact: 04/05/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Varies

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 12/16/2022	Source: Department of Public Safety
Date Data Arrived at EDR: 01/10/2023	Telephone: 617-556-1035
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 04/13/2023
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: No Update Planned

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 134

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/09/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 01/08/2023
Date Data Arrived at EDR: 01/19/2023
Date Made Active in Reports: 03/21/2023
Number of Days to Update: 61

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/17/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS 2: Potential Brownfields Listing

A listing of potential brownfields site locations in the state.

Date of Government Version: 12/03/2019
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 82

Source: Department of Environmental Protection
Telephone: 617-556-1007
Last EDR Contact: 04/27/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 68

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 04/27/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 04/06/2023
Date Data Arrived at EDR: 04/13/2023
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 06/26/2023
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/19/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/12/2023
Next Scheduled EDR Contact: 07/31/2023
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014

Date Data Arrived at EDR: 08/06/2014

Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service

Telephone: 301-443-1452

Last EDR Contact: 04/27/2023

Next Scheduled EDR Contact: 08/07/2023

Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/06/2023

Date Data Arrived at EDR: 02/02/2023

Date Made Active in Reports: 02/10/2023

Number of Days to Update: 8

Source: Drug Enforcement Administration

Telephone: 202-307-1000

Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 09/04/2023

Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/06/2023

Date Data Arrived at EDR: 02/02/2023

Date Made Active in Reports: 02/10/2023

Number of Days to Update: 8

Source: Drug Enforcement Administration

Telephone: 202-307-1000

Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 09/04/2023

Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018

Date Data Arrived at EDR: 03/09/2018

Date Made Active in Reports: 06/21/2018

Number of Days to Update: 104

Source: Department of Environmental Protection

Telephone: 617-292-5628

Last EDR Contact: 05/10/2023

Next Scheduled EDR Contact: 08/28/2023

Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/26/2023

Date Data Arrived at EDR: 05/02/2023

Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-564-6023

Last EDR Contact: 06/02/2023

Next Scheduled EDR Contact: 07/10/2023

Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/19/2023	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/21/2023	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/03/2003	Telephone: 617-292-5720
Date Made Active in Reports: 12/31/2003	Last EDR Contact: 12/03/2003
Number of Days to Update: 28	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5990
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 04/06/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/08/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/05/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/06/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/01/2023
Date Data Arrived at EDR: 02/14/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 77

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/16/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/11/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 08/21/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/13/2023
Date Data Arrived at EDR: 03/21/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/01/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/04/2023
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020	Source: EPA
Date Data Arrived at EDR: 06/14/2022	Telephone: 202-260-5521
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 03/13/2023
Number of Days to Update: 283	Next Scheduled EDR Contact: 06/26/2023
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021	Source: EPA
Date Data Arrived at EDR: 02/16/2023	Telephone: 202-566-0250
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 05/19/2023
Number of Days to Update: 75	Next Scheduled EDR Contact: 08/28/2023
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/17/2023	Source: EPA
Date Data Arrived at EDR: 01/18/2023	Telephone: 202-564-4203
Date Made Active in Reports: 04/19/2023	Last EDR Contact: 04/18/2023
Number of Days to Update: 91	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: 703-416-0223
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 04/13/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/26/2023	Source: EPA
Date Data Arrived at EDR: 05/02/2023	Telephone: 202-564-6023
Date Made Active in Reports: 05/17/2023	Last EDR Contact: 06/02/2023
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/03/2022	Source: EPA
Date Data Arrived at EDR: 01/04/2023	Telephone: 202-566-0500
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 04/04/2023
Number of Days to Update: 89	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 03/29/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/15/2023	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/21/2023	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 04/13/2023
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/31/2023
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 05/25/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/25/2023
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/04/2023
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/14/2023
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 03/23/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 04/25/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 08/07/2023
	Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 04/07/2023
Number of Days to Update: 85

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/03/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/09/2023
Next Scheduled EDR Contact: 07/03/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/26/2023
Next Scheduled EDR Contact: 08/14/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/02/2023
Next Scheduled EDR Contact: 07/10/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/27/2023
Date Data Arrived at EDR: 03/01/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 23

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/02/2023
Date Data Arrived at EDR: 02/22/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/24/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 05/25/2023
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/17/2023	Source: Department of Interior
Date Data Arrived at EDR: 03/17/2023	Telephone: 202-208-2609
Date Made Active in Reports: 05/30/2023	Last EDR Contact: 05/31/2023
Number of Days to Update: 74	Next Scheduled EDR Contact: 09/18/2023
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/02/2023	Source: EPA
Date Data Arrived at EDR: 02/28/2023	Telephone: (617) 918-1111
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 05/25/2023
Number of Days to Update: 24	Next Scheduled EDR Contact: 09/11/2023
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 05/17/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/04/2023
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021	Source: Department of Defense
Date Data Arrived at EDR: 10/20/2022	Telephone: 703-704-1564
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 04/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2023
Date Data Arrived at EDR: 01/04/2023
Date Made Active in Reports: 04/03/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/31/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/13/2023
Date Data Arrived at EDR: 02/14/2023
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 64

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/17/2023
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 123

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/04/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 04/07/2023
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/30/2023
Date Data Arrived at EDR: 03/30/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 04/20/2023
Number of Days to Update: 601	Next Scheduled EDR Contact: 08/07/2023
	Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/07/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/30/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2023	Telephone: 202-272-0167
Date Made Active in Reports: 04/03/2023	Last EDR Contact: 03/30/2023
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 04/27/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2023	Telephone: 202-272-0167
Date Made Active in Reports: 05/02/2023	Last EDR Contact: 04/27/2023
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

PFAS: PFAS Contaminated Sites Listing

Detection of Per- and Polyfluoroalkyl Substances (PFAS) in drinking water.

Date of Government Version: 12/09/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/12/2022	Telephone: 617-292-6770
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 04/19/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Varies

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 01/12/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/13/2023	Telephone: 617-292-5789
Date Made Active in Reports: 03/30/2023	Last EDR Contact: 04/05/2023
Number of Days to Update: 76	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 05/16/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/17/2023	Telephone: 617-292-5982
Date Made Active in Reports: 05/25/2023	Last EDR Contact: 05/10/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 08/28/2023
	Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 04/20/2023
Date Made Active in Reports: 05/25/2023
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 04/19/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 01/09/2023
Date Data Arrived at EDR: 01/10/2023
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 2

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 04/05/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/03/2011
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 05/31/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/10/2023
Date Made Active in Reports: 05/26/2023
Number of Days to Update: 77

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 05/31/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/07/2023
Number of Days to Update: 54

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 03/29/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 01/24/2023
Date Made Active in Reports: 04/12/2023
Number of Days to Update: 78

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 03/17/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/21/2023	Telephone: 617-292-5500
Date Made Active in Reports: 06/06/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Semi-Annually

MERCURY: Mercury Product Recycling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 09/26/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/26/2022	Telephone: 617-292-5632
Date Made Active in Reports: 12/09/2022	Last EDR Contact: 05/10/2023
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/28/2023
	Data Release Frequency: Varies

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 12/16/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/07/2023	Telephone: 508-767-2781
Date Made Active in Reports: 02/14/2023	Last EDR Contact: 05/11/2023
Number of Days to Update: 7	Next Scheduled EDR Contact: 08/21/2023
	Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2019	Source: Massachusetts Emergency Management Agency
Date Data Arrived at EDR: 07/19/2021	Telephone: 508-820-2019
Date Made Active in Reports: 08/17/2021	Last EDR Contact: 04/19/2023
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/24/2023
	Data Release Frequency: Annually

TSD: TSD Facility

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 03/17/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/21/2023	Telephone: 617-292-5580
Date Made Active in Reports: 06/06/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Varies

UIC: Underground Injection Control Listing

A list of UIC registration data and their locations

Date of Government Version: 02/13/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/15/2023	Telephone: 617-566-1172
Date Made Active in Reports: 05/11/2023	Last EDR Contact: 05/03/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 08/21/2023
	Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: No Update Planned

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2023
Date Data Arrived at EDR: 03/07/2023
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/25/2023
Next Scheduled EDR Contact: 09/04/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 08/21/2023
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/30/2023
Next Scheduled EDR Contact: 07/17/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/27/2023
Next Scheduled EDR Contact: 08/07/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/10/2022
Next Scheduled EDR Contact: 08/28/2023
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/06/2023
Next Scheduled EDR Contact: 07/24/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2023
Next Scheduled EDR Contact: 09/18/2023
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: MassDEP

Telephone: 617-292-5907

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DORMAN LAND
HERRICK ROAD
BOXFORD, MA 01921

TARGET PROPERTY COORDINATES

Latitude (North):	42.671272 - 42° 40' 16.58"
Longitude (West):	71.006926 - 71° 0' 24.93"
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	335542.0
UTM Y (Meters):	4726049.5
Elevation:	115 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	11747380 SOUTH GROVELAND, MA
Version Date:	2018
East Map:	11747663 GEORGETOWN, MA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

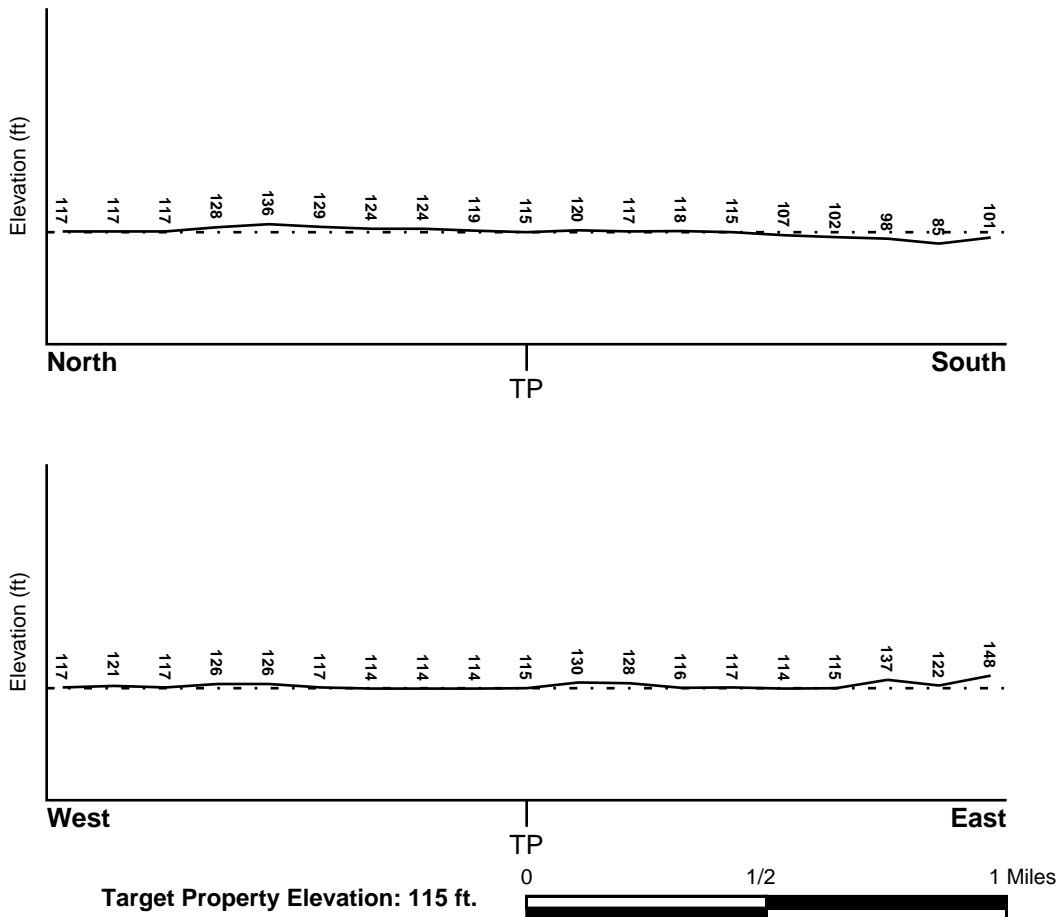
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
25009C0242F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
25009C0261F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
SOUTH GROVELAND	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

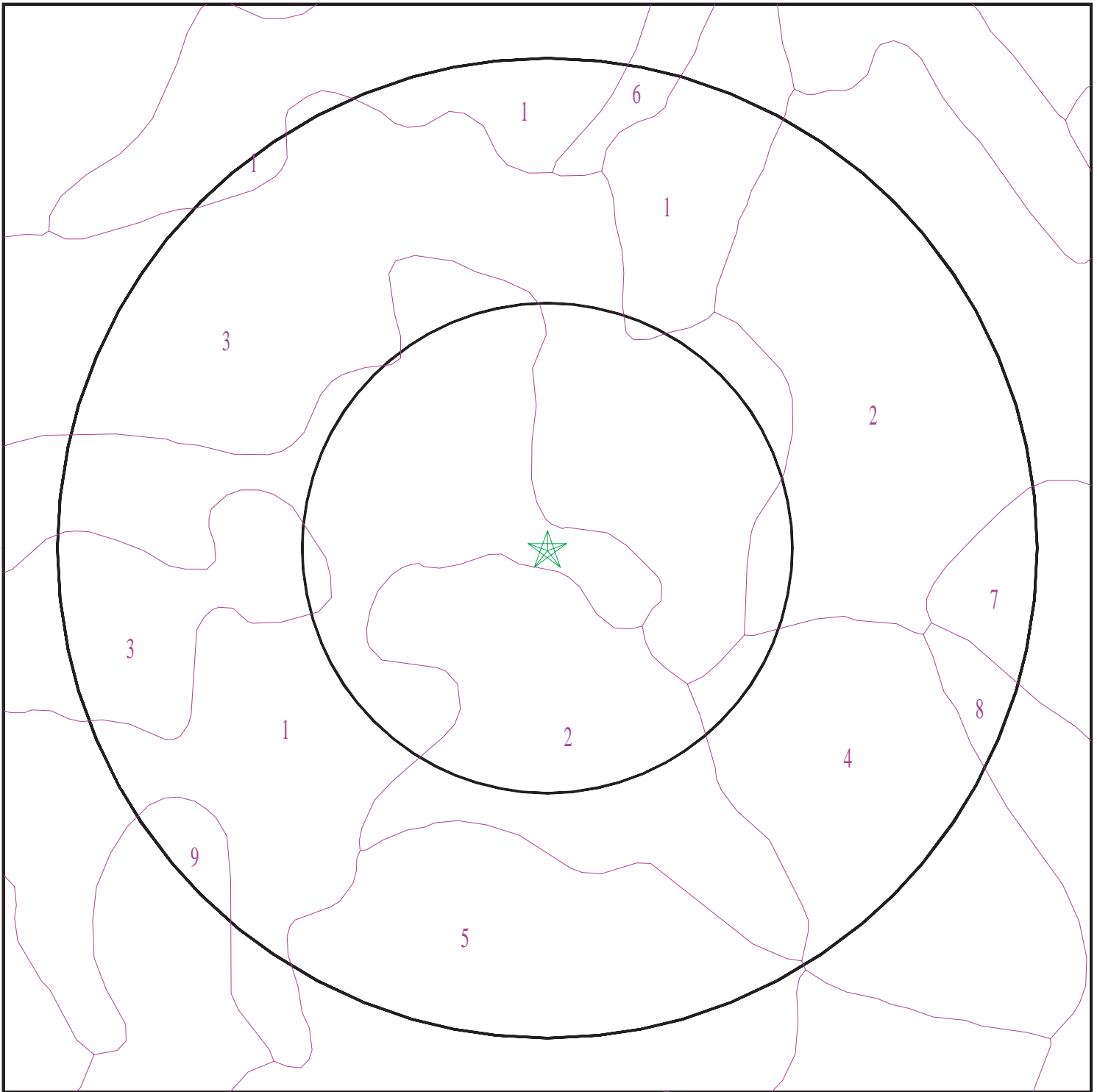
Era: Paleozoic
System: Mississippian
Series: Paleozoic mafic intrusives
Code: Pzmi (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

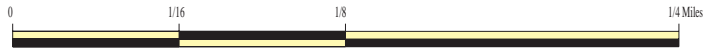
Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7359677.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford MA 01921
LAT/LONG: 42.671272 / 71.006926

CLIENT: Derosa Environmental Consulting, Inc
CONTACT: Abby Manzi
INQUIRY #: 7359677.2s
DATE: June 08, 2023 4:48 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Medisaprists

Soil Surface Texture: muck

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	muck	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: Min:
2	5 inches	59 inches	muck	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: Min:

Soil Map ID: 2

Soil Component Name: Hinckley

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
2	7 inches	18 inches	very gravelly loamy sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
3	18 inches	59 inches	stratified cobbly coarse sand to very gravelly loamy fine sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6

Soil Map ID: 3

Soil Component Name: Hinckley

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	18 inches	very gravelly loamy sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
3	18 inches	59 inches	stratified cobbly coarse sand to very gravelly loamy fine sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6

Soil Map ID: 4

Soil Component Name: Canton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	5 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	33 inches	59 inches	gravelly loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Canton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	3 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	33 inches	59 inches	gravelly loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

Soil Map ID: 6

Soil Component Name: Hinckley

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	gravelly loamy sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
2	3 inches	14 inches	very gravelly loamy sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6
3	14 inches	59 inches	stratified cobbly coarse sand to very gravelly loamy fine sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 6 Min: 3.6

Soil Map ID: 7

Soil Component Name: Canton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	5 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	33 inches	59 inches	gravelly loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 8

Soil Component Name: Sudbury

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	3 inches	20 inches	sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	20 inches	25 inches	loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
4	25 inches	59 inches	stratified gravel to gravelly sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

Soil Map ID: 9

Soil Component Name: Canton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
2	3 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6
3	33 inches	59 inches	gravelly loamy sand	Not reported	Not reported	Max: 141.14 Min: 42.34	Max: 6 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000479618	1/2 - 1 Mile SW
2	USGS40000479861	1/2 - 1 Mile NE
B5	USGS40000479596	1/2 - 1 Mile SSW
C6	USGS40000479591	1/2 - 1 Mile SSE
C8	USGS40000479586	1/2 - 1 Mile SSE
B9	USGS40000479592	1/2 - 1 Mile SSW
10	USGS40000479619	1/2 - 1 Mile SW
D12	USGS40000479553	1/2 - 1 Mile SSE
13	USGS40000479620	1/2 - 1 Mile SW
15	USGS40000479587	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
16	USGS40000479537	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

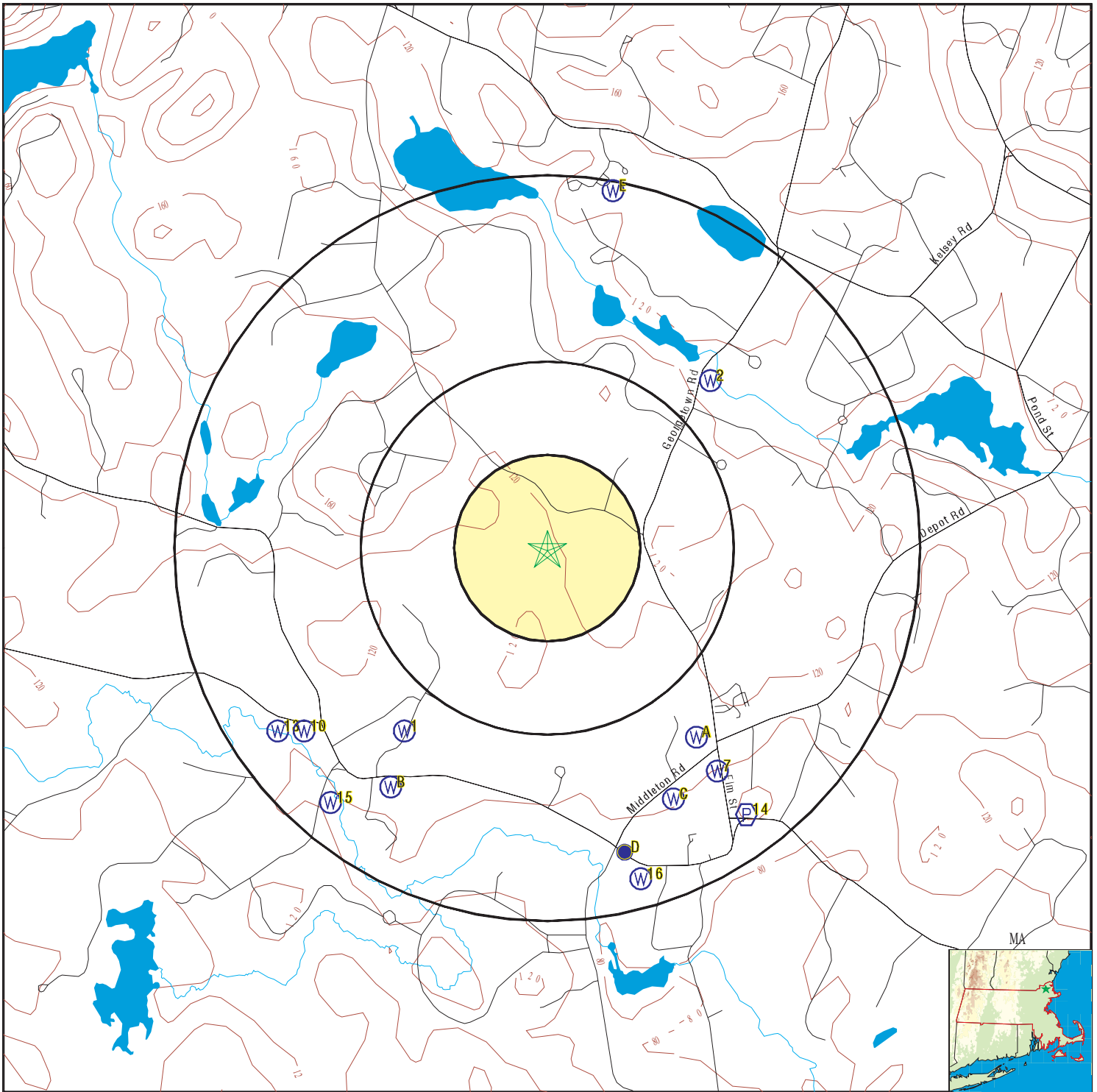
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
14	MA3038014	1/2 - 1 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	MA9000000001643	1/2 - 1 Mile SE
A4	MA9000000003333	1/2 - 1 Mile SE
7	MA9000000001533	1/2 - 1 Mile SE
D11	MA9000000003599	1/2 - 1 Mile SSE
E17	MA9000000002718	1/2 - 1 Mile North
E18	MA9000000002152	1/2 - 1 Mile North
E19	MA9000000003126	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 7359677.2s



- | | | |
|--|--|-------------------------------------|
| County Boundary | Groundwater Flow Direction | Potentially Productive Aquifers |
| Major Roads | Indeterminate Groundwater Flow at Location | Not Potentially Productive Aquifers |
| Contour Lines | Groundwater Flow Varies at Location | DEP Approved Zone IIs |
| Earthquake epicenter, Richter 5 or greater | | EPA Designated Sole Src. Aq. |
| Water Wells | | |
| Public Water Supply Wells | | |
| Cluster of Multiple Icons | | |

SITE NAME: Dorman Land
 ADDRESS: Herrick Road
 Boxford MA 01921
 LAT/LONG: 42.671272 / 71.006926

CLIENT: Derosa Environmental Consulting, Inc
 CONTACT: Abby Manzi
 INQUIRY #: 7359677.2s
 DATE: June 08, 2023 4:48 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
SW
1/2 - 1 Mile
Lower **FED USGS** **USGS40000479618**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	897	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

2
NE
1/2 - 1 Mile
Lower **FED USGS** **USGS40000479861**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	170	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A3
SE
1/2 - 1 Mile
Lower **MA WELLS** **MA9000000001643**

PWS ID:	3038011	Site Name:	FIRST CHURCH CONGREGATIONAL
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	IPSWICH
Basemap:	DOQ	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	PHO
Primary Location Source:	AP_DOQ	Secondary Location Source:	SV
Tertiary Location Source:	Not Reported		
Source ID:	3038011-02G	PWS Name:	FIRST CHURCH CONGREGATIONAL
Source Name:	NEW BEDROCK WELL	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	ACTIVE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A4
SE
1/2 - 1 Mile
Lower

MA WELLS MA9000000003333

PWS ID:	3038011	Site Name:	FIRST CHURCH CONGREGATIONAL
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	IPSWICH
Basemap:	DOQ	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	PHO
Primary Location Source:	AP_DOQ	Secondary Location Source:	SV
Tertiary Location Source:	Not Reported		
Source ID:	3038011-01G	PWS Name:	FIRST CHURCH CONGREGATIONAL
Source Name:	OLD WELL	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	EMERG		

B5
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000479596

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-BJW 140	Type:	Well
Description:	Not Reported	HUC:	01090001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	12	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

C6
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000479591

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	907	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

7
SE
1/2 - 1 Mile
Lower

MA WELLS MA9000000001533

PWS ID:	3038013	Site Name:	BOXFORD COMMUNITY STORE INC
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	IPSWICH		

Basemap:	DOQ	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	XY_2
Primary Location Source:	TEXT	Secondary Location Source:	AP_DOQ
Tertiary Location Source:	Not Reported		

Source ID:	3038013-02G	PWS Name:	BOXFORD COMMUNITY STORE INC
Source Name:	BEDROCK WELL	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

C8
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000479586

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	909	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B9
SSW
1/2 - 1 Mile
Lower

FED USGS USGS40000479592

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	901	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

10
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000479619

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	898	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D11
SSE
1/2 - 1 Mile
Lower

MA WELLS MA9000000003599

PWS ID:	3038009	Site Name:	HARRY LEE COLE SCHOOL
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	IPSWICH
Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	3038009-01G	PWS Name:	HARRY LEE COLE SCHOOL
Source Name:	COLE SCHOOL WELL	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	ACTIVE		

D12
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000479553

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-BJW 114	Type:	Well
Description:	Not Reported	HUC:	01090001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	110	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

13
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000479620

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	899	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

14
SE
1/2 - 1 Mile
Lower

FRDS PWS MA3038014

Epa region:	01	State:	MA
Pwsid:	MA3038014	Pwsname:	CAMP ROTARY
Cityserved:	Not Reported	Stateserved:	MA
Zipserved:	Not Reported	Fipscounty:	25009
Status:	Closed	Retpopsrvd:	150
Pwssvconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Private
Contact:	CAMP ROTARY	Contactorgname:	Not Reported
Contactphone:	978-352-9952	Contactaddress1:	372 IPSWICH RD
Contactaddress2:	Not Reported	Contactcity:	BOXFORD
Contactstate:	MA	Contactzip:	019210000
Pwsactivitycode:	I		
PWS ID:	MA3038014	PWS type:	Mailing
PWS name:	CAMP ROTARY	PWS address:	372 IPSWICH RD
PWS city:	BOXFORD	PWS state:	MA
PWS zip:	019210000	PWS ID:	MA3038014
Activity status:	Active	Date system activated:	9003
Date system deactivated:	Not Reported	Retail population:	00000075
System name:	CAMP ROTARY	System address:	372 IPSWICH RD
System city:	BOXFORD	System state:	MA
System zip:	019210000		
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	423939	Longitude:	0705949

15
SW
1/2 - 1 Mile
Lower

FED USGS USGS40000479587

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	905	Type:	Well

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Mixed (confined and unconfined multiple aquifers)		
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

**16
SSE
1/2 - 1 Mile
Lower**

FED USGS USGS40000479537

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-BJW 52	Type:	Well
Description:	Not Reported	HUC:	01090001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	53	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**E17
North
1/2 - 1 Mile
Higher**

MA WELLS MA9000000002718

PWS ID:	3038001	Site Name:	WELL 2
Type:	Community Groundwater Well		
Facility Name:	Not Reported	SubBasin:	IPSWICH
Basemap:	NA	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	3038001-02G	PWS Name:	FOUR MILE VILLAGE
Source Name:	WELL 2	PWS Status:	A
Source Status:	A	PWS Class:	COM
Source Availability:	ACTIVE		
Well Name:	WELL 2	Purveyor:	FOUR MILE VILLAGE
Basin:	IPSWICH	Region:	3

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E18
North
1/2 - 1 Mile
Higher

MA WELLS MA9000000002152

PWS ID:	3038001	Site Name:	WELL 1
Type:	Community Groundwater Well		
Facility Name:	Not Reported	SubBasin:	IPSWICH
Basemap:	NA	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	3038001-01G	PWS Name:	FOUR MILE VILLAGE
Source Name:	WELL 1	PWS Status:	A
Source Status:	A	PWS Class:	COM
Source Availability:	EMERG		
Well Name:	WELL 1	Purveyor:	FOUR MILE VILLAGE
Basin:	IPSWICH	Region:	3

E19
North
1/2 - 1 Mile
Higher

MA WELLS MA9000000003126

PWS ID:	3038001	Site Name:	WELL 3
Type:	Community Groundwater Well		
Facility Name:	Not Reported	SubBasin:	IPSWICH
Basemap:	NA	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	3038001-03G	PWS Name:	FOUR MILE VILLAGE
Source Name:	WELL 3	PWS Status:	A
Source Status:	A	PWS Class:	COM
Source Availability:	ACTIVE		
Well Name:	WELL 3	Purveyor:	FOUR MILE VILLAGE
Basin:	IPSWICH	Region:	3

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MA Radon

Radon Test Results

County	% of sites > 4 pCi/L	Median
ESSEX	36	2.8

Federal EPA Radon Zone for ESSEX County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 01921

Number of sites tested: 4

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	9.700 pCi/L	50%	25%	25%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: MassDEP

Telephone: 617-292-5907

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Telephone:

Public Water Supply Database

Telephone:

The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

Areas of Critical Environmental Concern

Telephone:

The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers

Telephone:

The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

Aquifers

Telephone:

MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Non-Potential Drinking Water Source Areas

Telephone:

Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

DEP Approved Zone IIs

Telephone:

The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is 'that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary).' These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.\n - Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line. \n- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.\n - Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

OTHER STATE DATABASE INFORMATION

RADON

State Database: MA Radon

Source: Department of Health

Telephone: 413-586-7525

Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater


Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Dorman Land
Herrick Road
Boxford, MA 01921

Inquiry Number: 7359677.3

June 08, 2023

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/08/23

Site Name:

Dorman Land
Herrick Road
Boxford, MA 01921
EDR Inquiry # 7359677.3

Client Name:

Derosa Environmental Consulting, Inc
167 Main St
Rowley, MA 01969
Contact: Abby Manzi



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 362D-46CE-9617
PO # NA
Project Dorman Land

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 362D-46CE-9617

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- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Dorman Land
Herrick Road
Boxford, MA 01921

Inquiry Number: 7359677.4

June 08, 2023

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/08/23

Site Name:

Dorman Land
Herrick Road
Boxford, MA 01921
EDR Inquiry # 7359677.4

Client Name:

Derosa Environmental Consulting, Inc
167 Main St
Rowley, MA 01969
Contact: Abby Manzi



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Derosa Environmental Consulting, Inc were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	42.671272 42° 40' 17" North
Project:	Dorman Land	Longitude:	-71.006926 -71° 0' 25" West
		UTM Zone:	Zone 19 North
		UTM X Meters:	335546.64
		UTM Y Meters:	4726263.75
		Elevation:	115.84' above sea level

Maps Provided:

2018	1944
2015	1943
2012	1918, 1919
1997	1915
1985, 1987	1893
1979	1888
1966	
1952, 1953	

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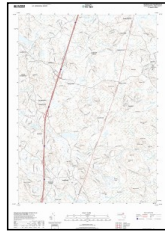
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets

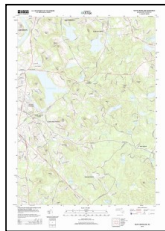


South Groveland
2018
7.5-minute, 24000

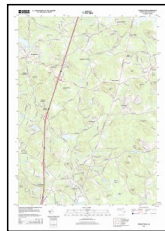


Georgetown
2018
7.5-minute, 24000

2015 Source Sheets

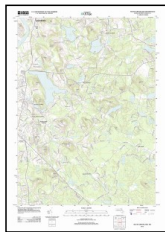


South Groveland
2015
7.5-minute, 24000



Georgetown
2015
7.5-minute, 24000

2012 Source Sheets



South Groveland
2012
7.5-minute, 24000



Georgetown
2012
7.5-minute, 24000

1997 Source Sheets



Ipswich
1997
7.5-minute, 25000
Aerial Photo Revised 1978

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1985, 1987 Source Sheets

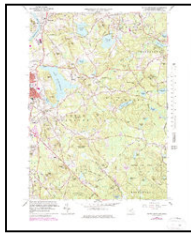


Ipswich
1985
7.5-minute, 25000
Aerial Photo Revised 1978



Lawrence
1987
7.5-minute, 25000
Aerial Photo Revised 1978

1979 Source Sheets



South Groveland
1979
7.5-minute, 25000
Aerial Photo Revised 1977



Georgetown
1979
7.5-minute, 25000
Aerial Photo Revised 1977

1966 Source Sheets

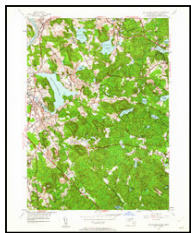


South Groveland
1966
7.5-minute, 24000
Aerial Photo Revised 1939



Georgetown
1966
7.5-minute, 24000

1952, 1953 Source Sheets



South Groveland
1952
7.5-minute, 24000



Georgetown
1953
7.5-minute, 24000

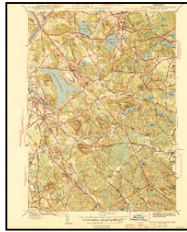
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1944 Source Sheets



Georgetown
1944
7.5-minute, 31680



South Groveland
1944
7.5-minute, 31680

1943 Source Sheets

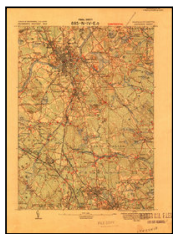


Lowell
1943
30-minute, 125000

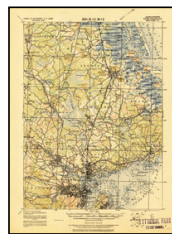


Cape Ann
1943
30-minute, 125000

1918, 1919 Source Sheets



Lawrence
1918
15-minute, 62500

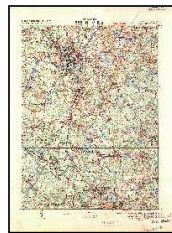


Salem
1919
15-minute, 62500

1915 Source Sheets



SALEM
1915
15-minute, 62500

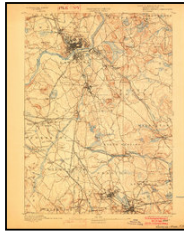


LAWRENCE
1915
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1893 Source Sheets

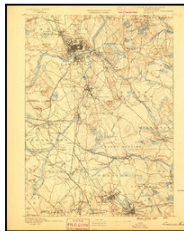


Lawrence
1893
15-minute, 62500



Salem
1893
15-minute, 62500

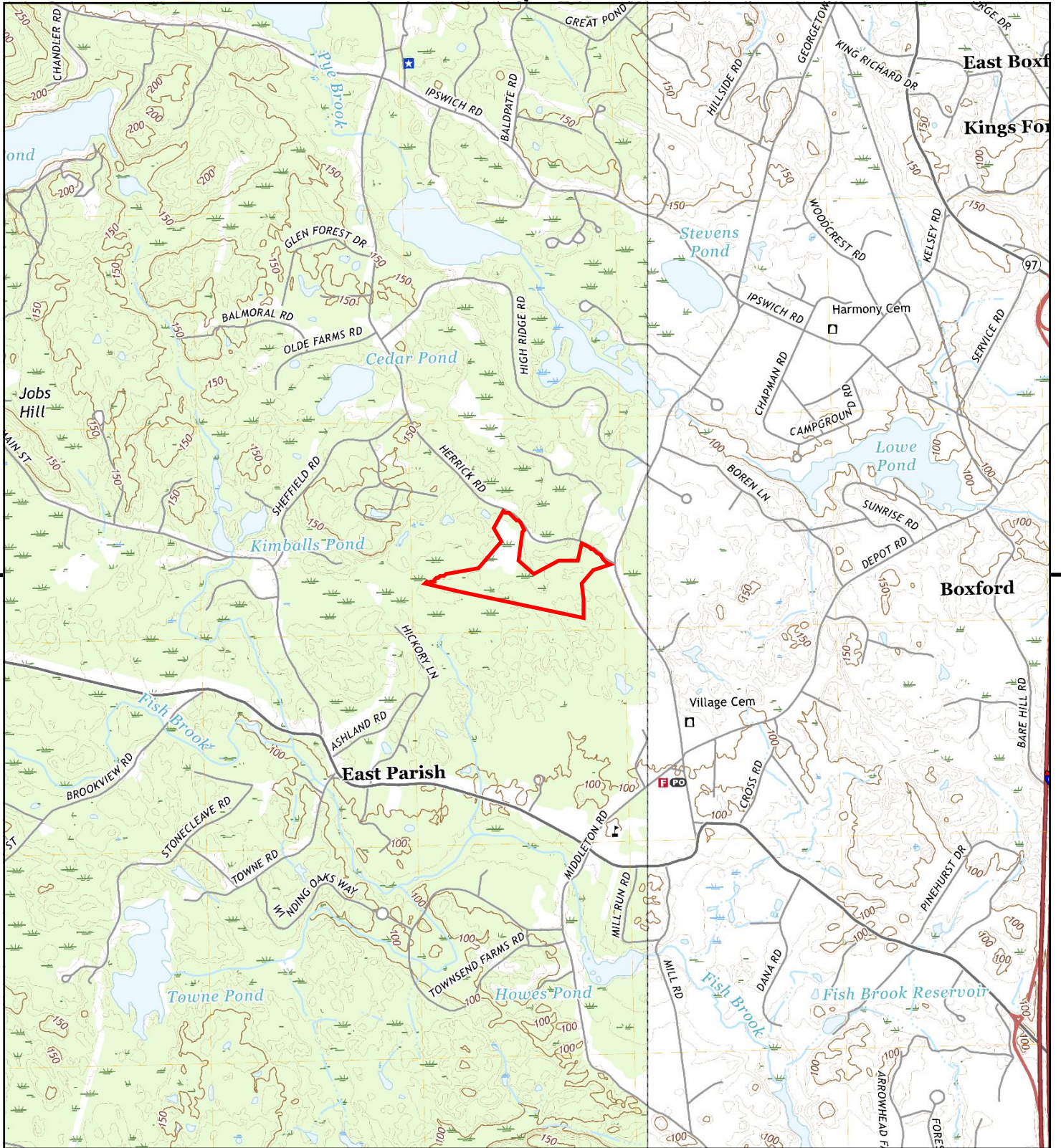
1888 Source Sheets



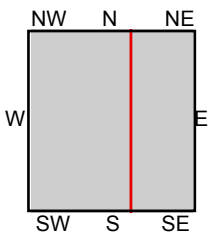
Lawrence
1888
15-minute, 62500



Salem
1888
15-minute, 62500



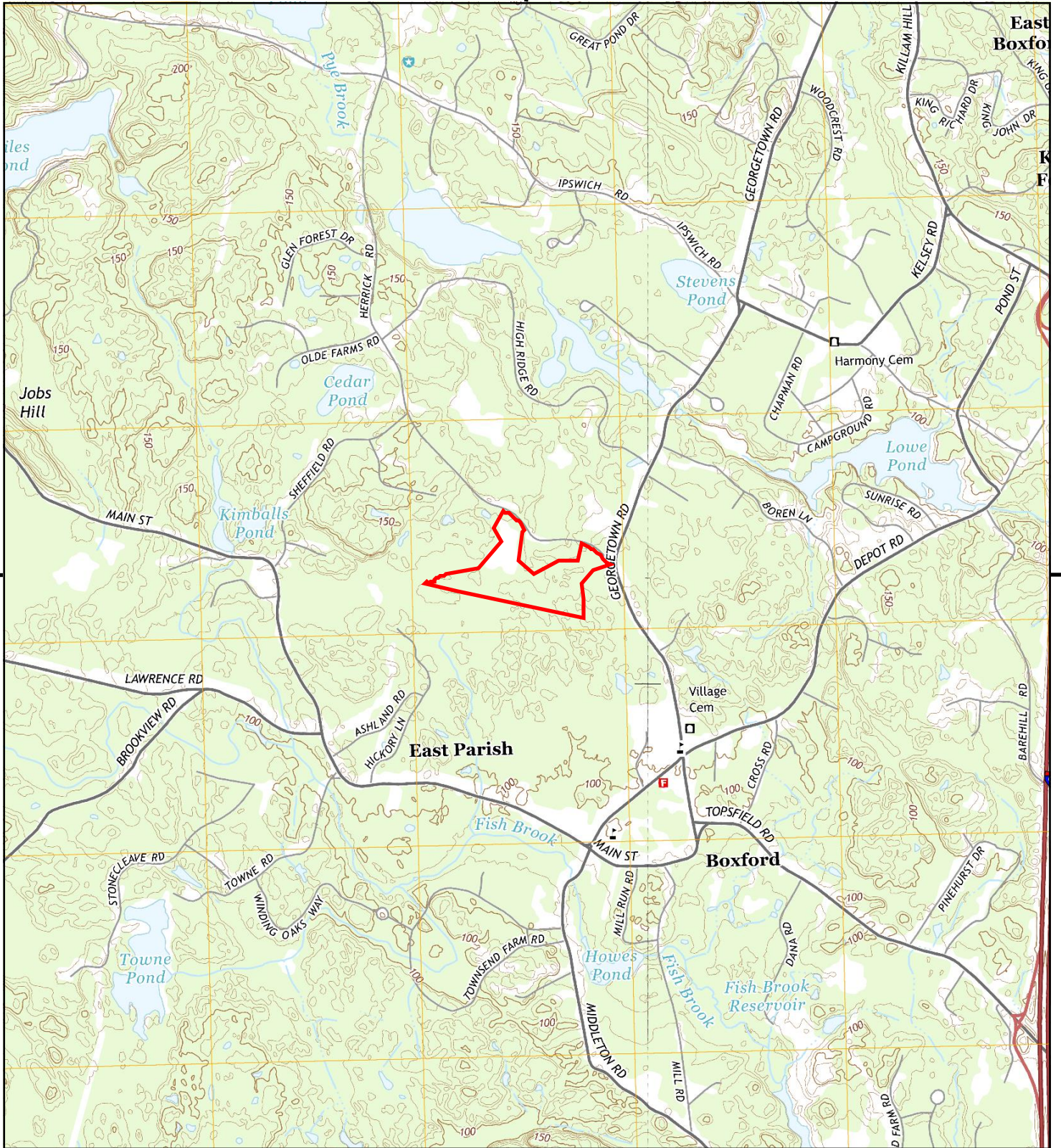
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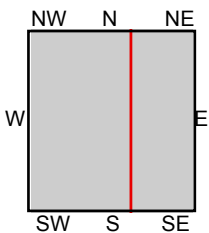
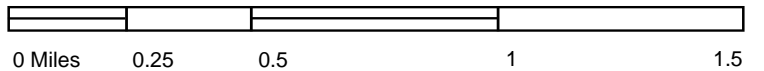
TP, South Groveland, 2018, 7.5-minute
 E, Georgetown, 2018, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
 Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





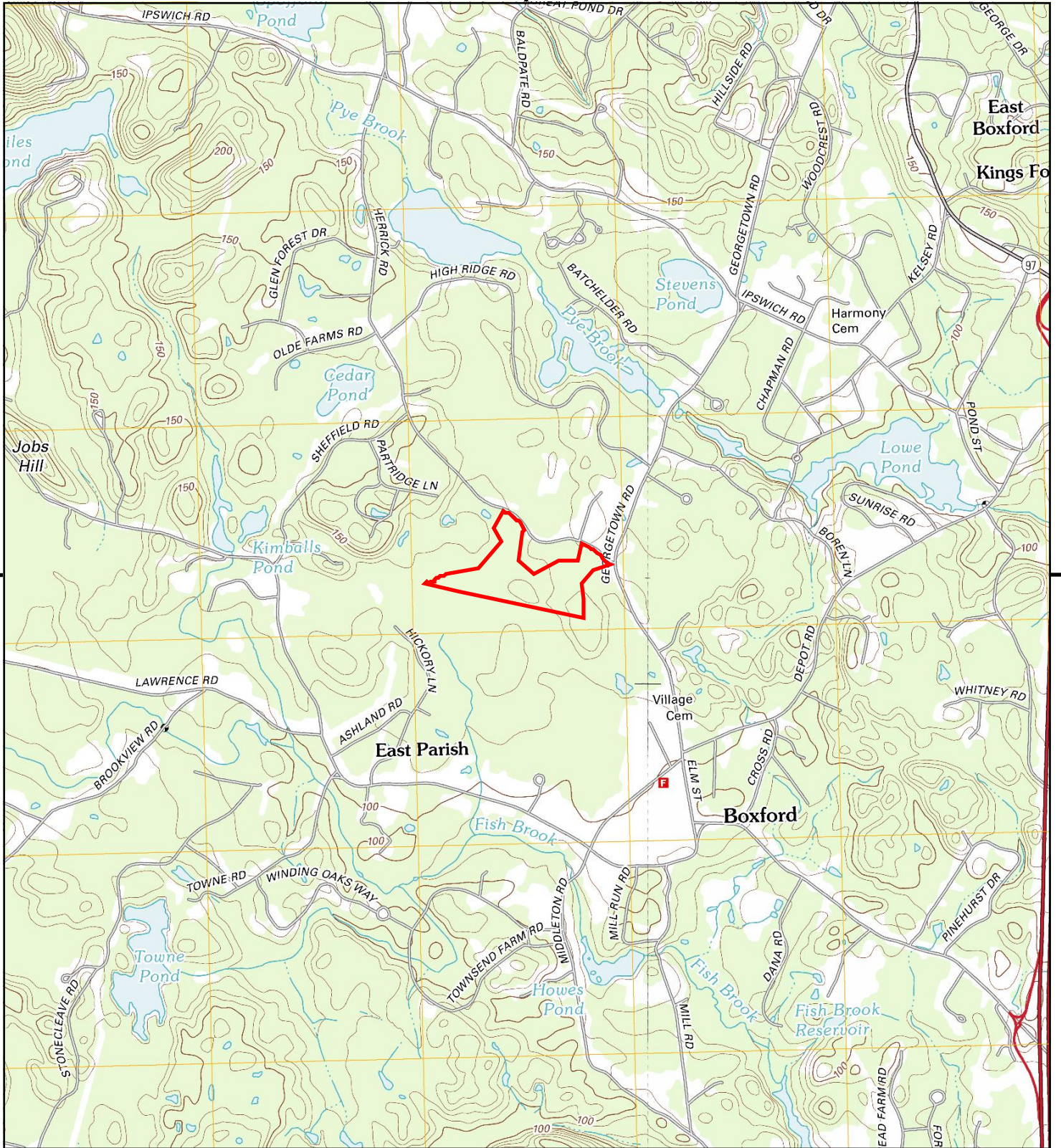
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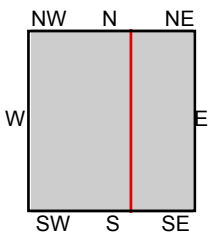
TP, South Groveland, 2015, 7.5-minute
 E, Georgetown, 2015, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
 Boxford, MA 01921
CLIENT: Dersa Environmental Consulting, Inc





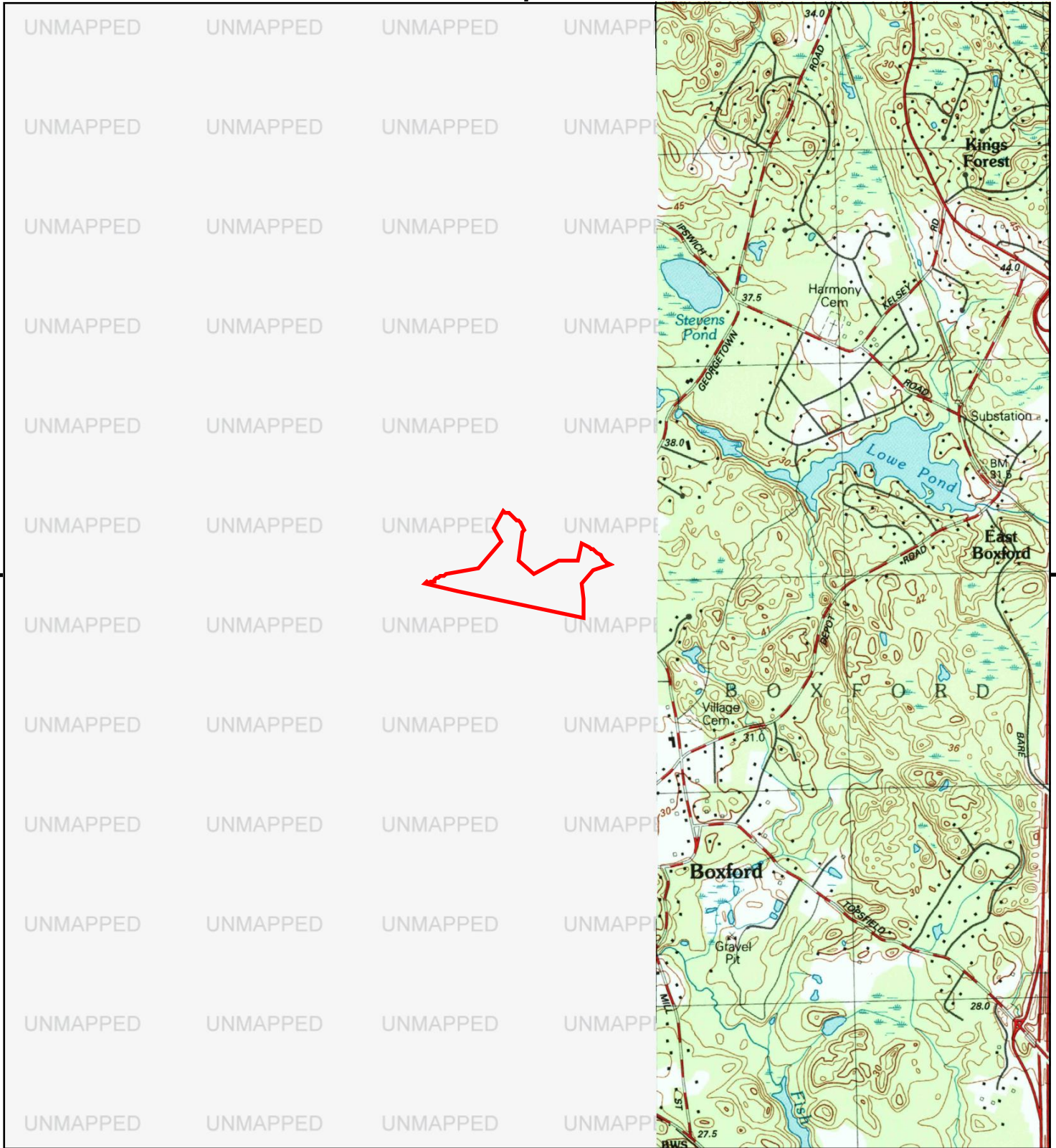
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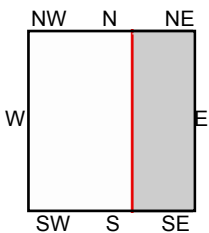
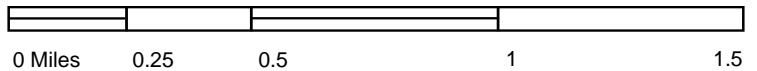
TP, South Groveland, 2012, 7.5-minute
E, Georgetown, 2012, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





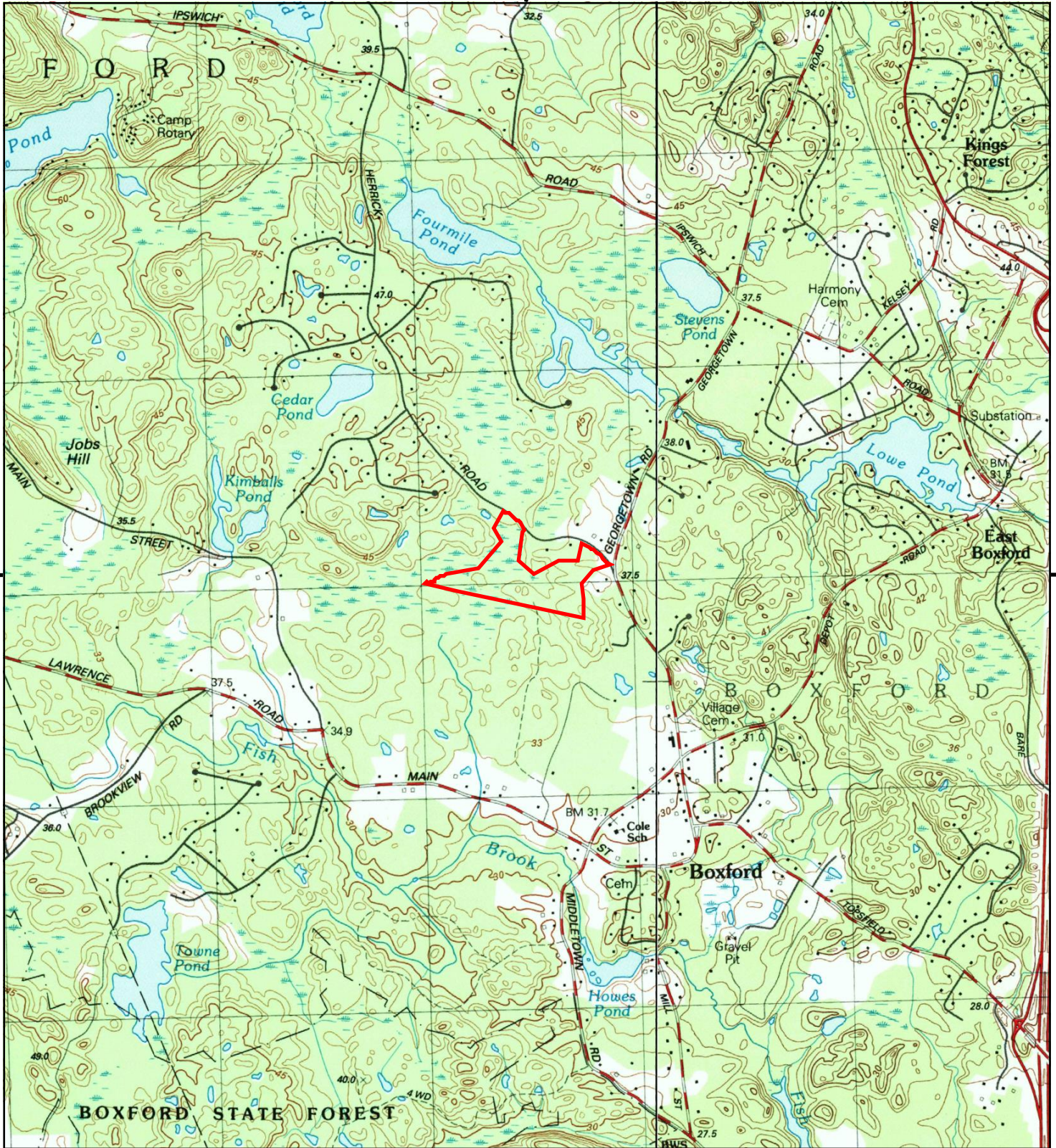
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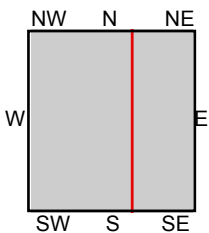
E, Ipswich, 1997, 7.5-minute

SITE NAME: Dorman Land
 ADDRESS: Herrick Road
 Boxford, MA 01921
 CLIENT: Derosa Environmental Consulting, Inc





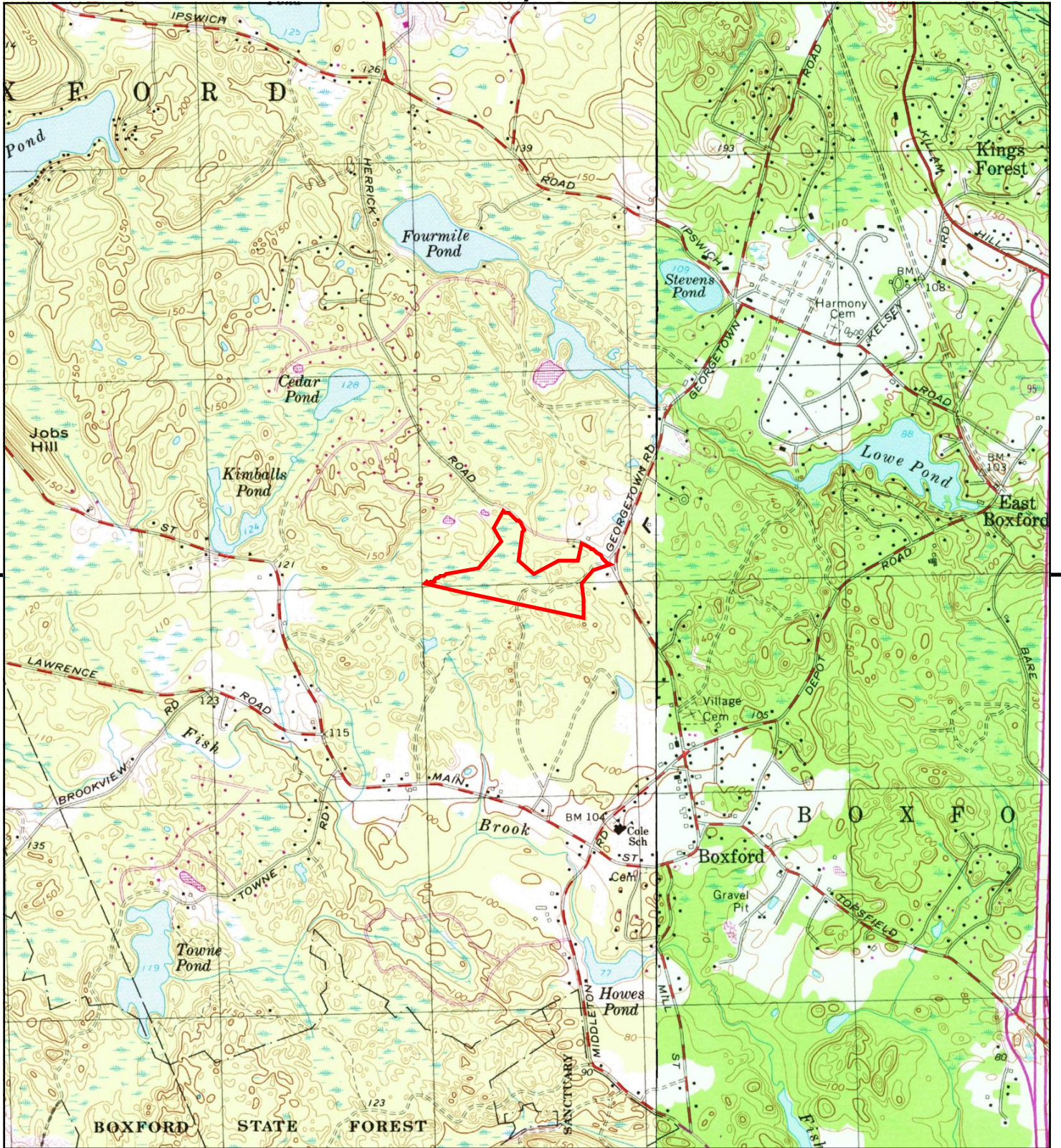
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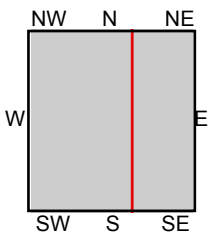
TP, Lawrence, 1987, 7.5-minute
E, Ipswich, 1985, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herriek Road
 Boxford, MA 01921
CLIENT: Dersa Environmental Consulting, Inc





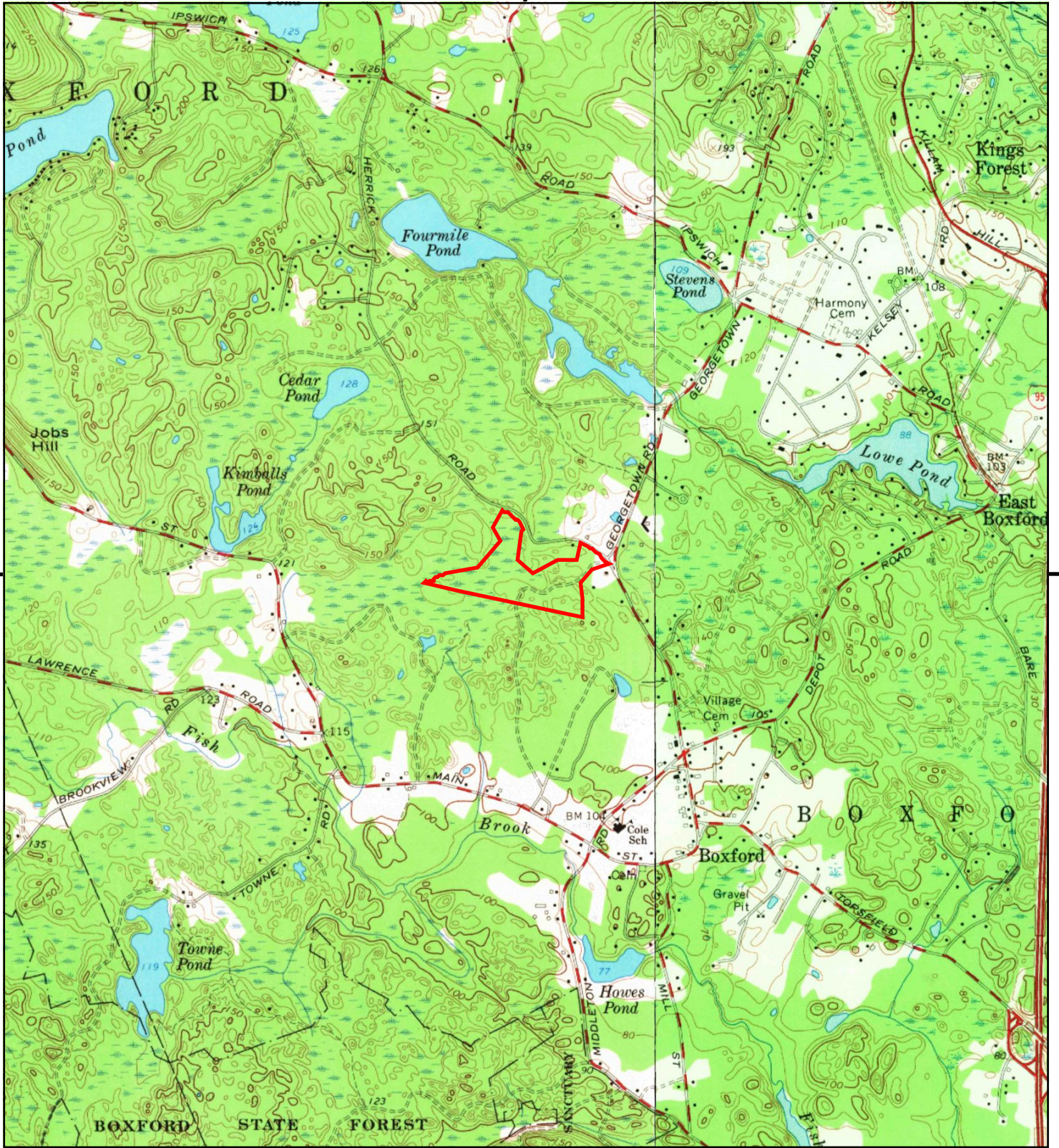
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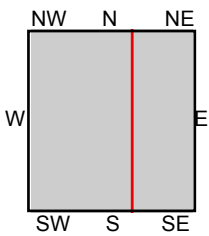
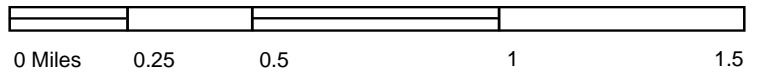
TP, South Groveland, 1979, 7.5-minute
E, Georgetown, 1979, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Dersa Environmental Consulting, Inc





This report includes information from the following map sheet(s).



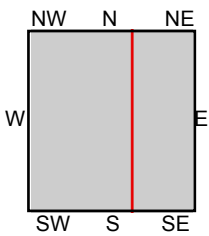
TP, South Groveland, 1966, 7.5-minute
 E, Georgetown, 1966, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
 Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





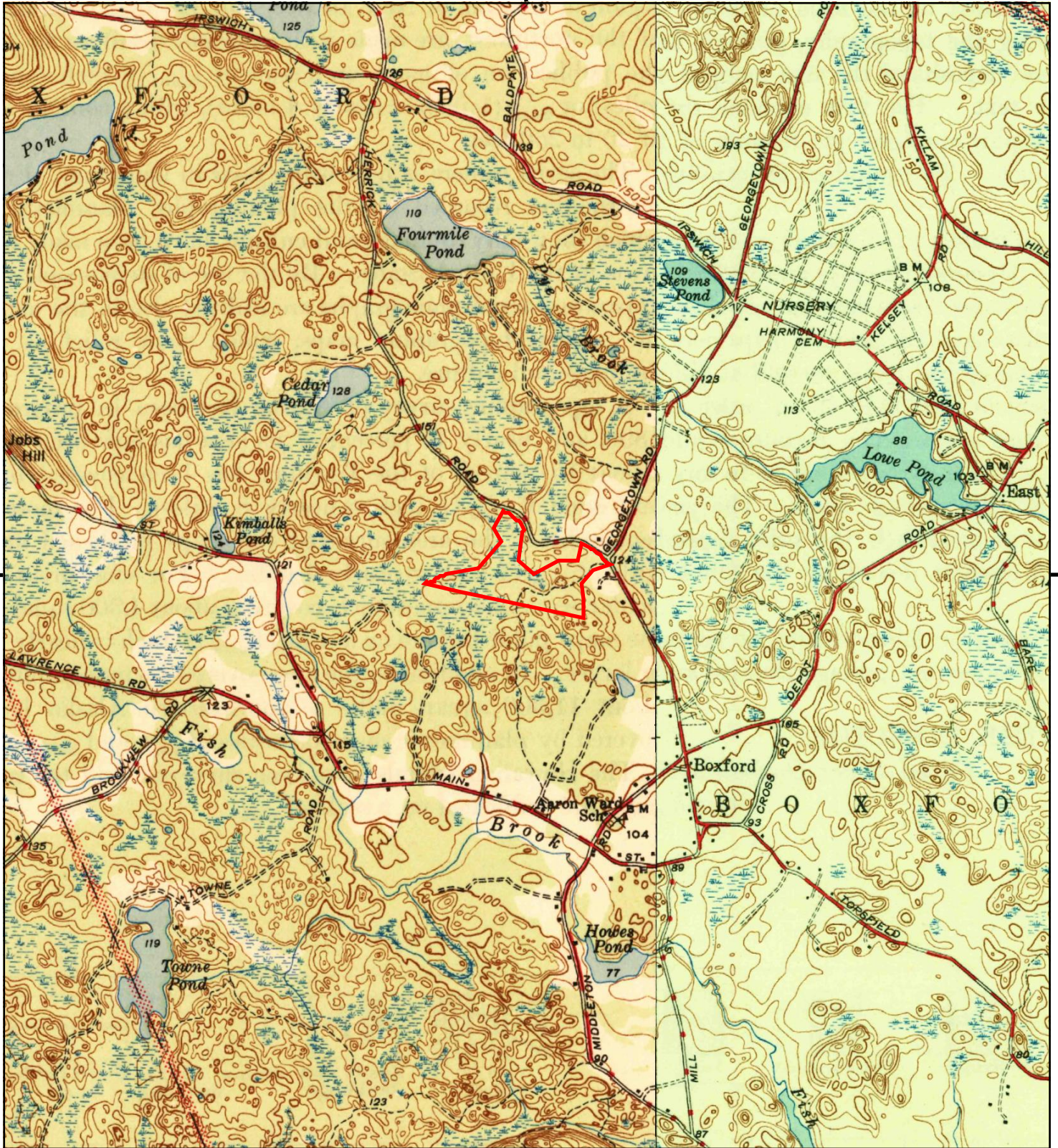
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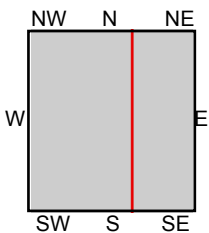
TP, South Groveland, 1952, 7.5-minute
E, Georgetown, 1953, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





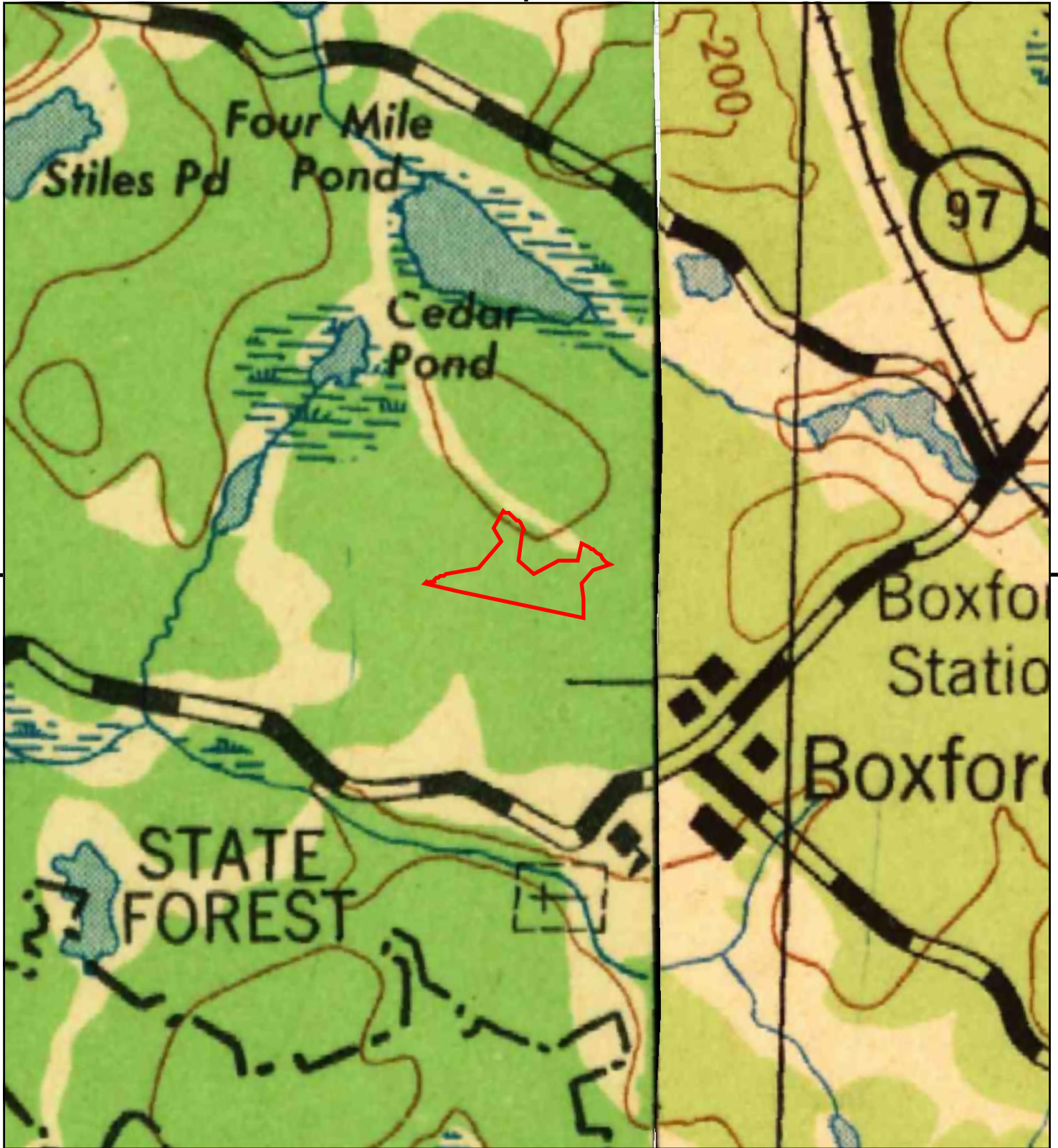
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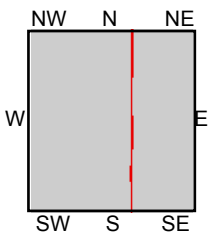
TP, South Groveland, 1944, 7.5-minute
E, Georgetown, 1944, 7.5-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





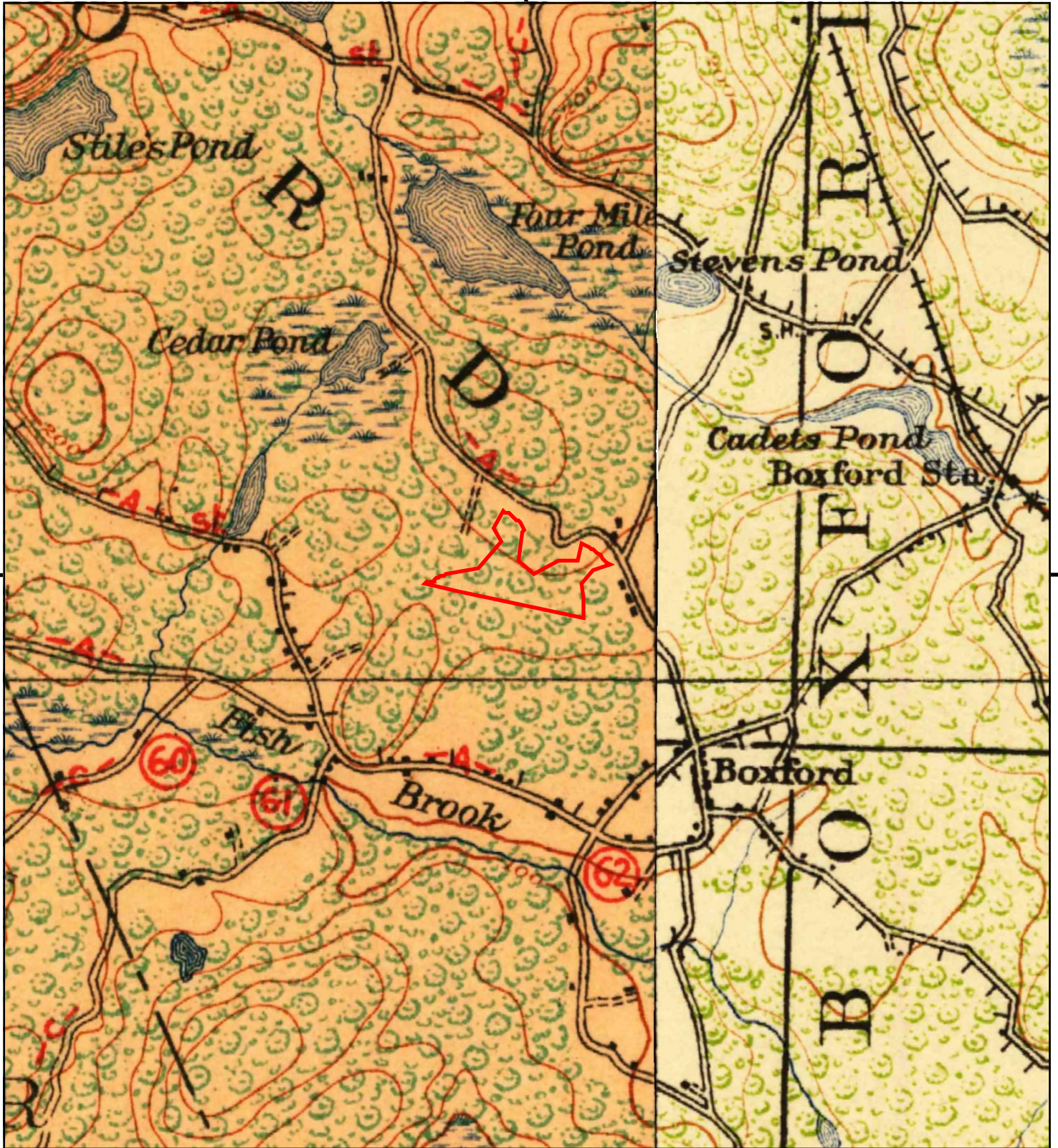
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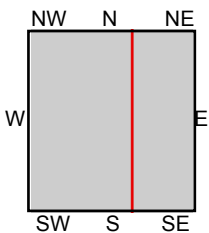
TP, Lowell, 1943, 30-minute
NE, Cape Ann, 1943, 30-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





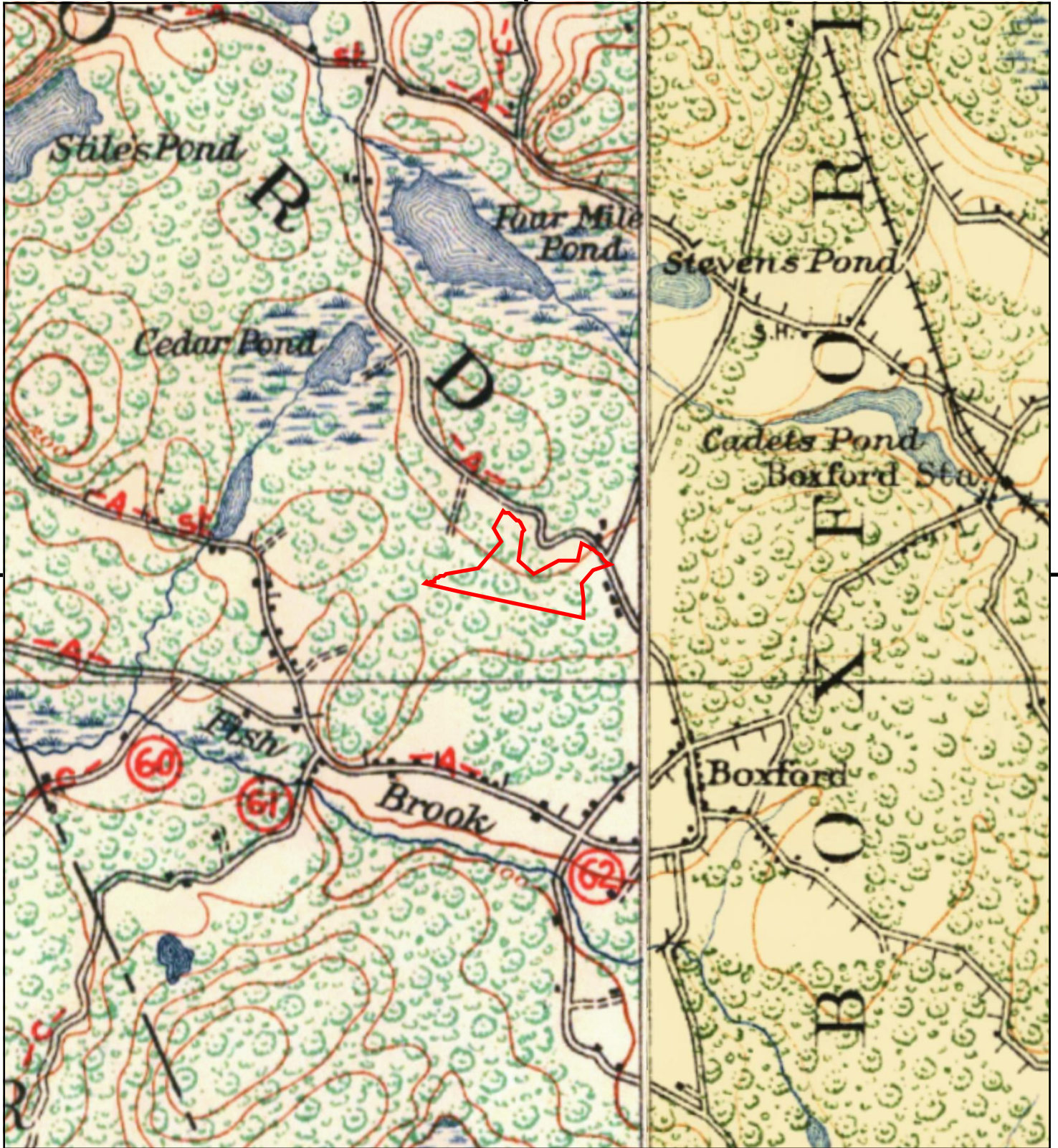
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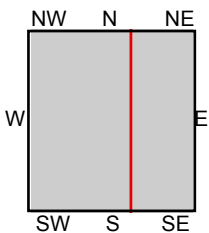
TP, Lawrence, 1918, 15-minute
SE, Salem, 1919, 15-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





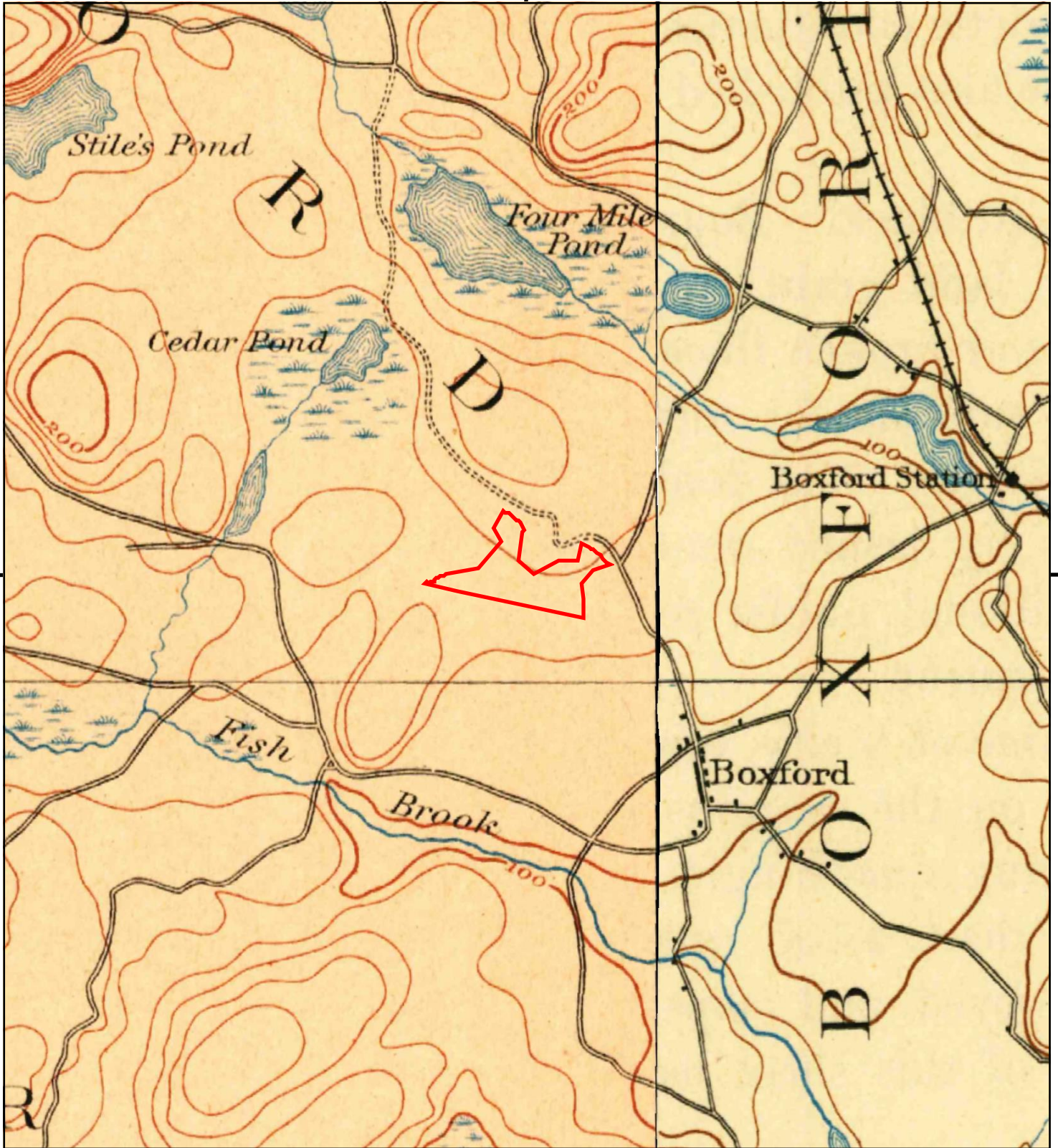
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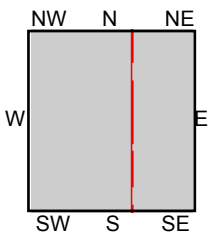
TP, LAWRENCE, 1915, 15-minute
SE, SALEM, 1915, 15-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





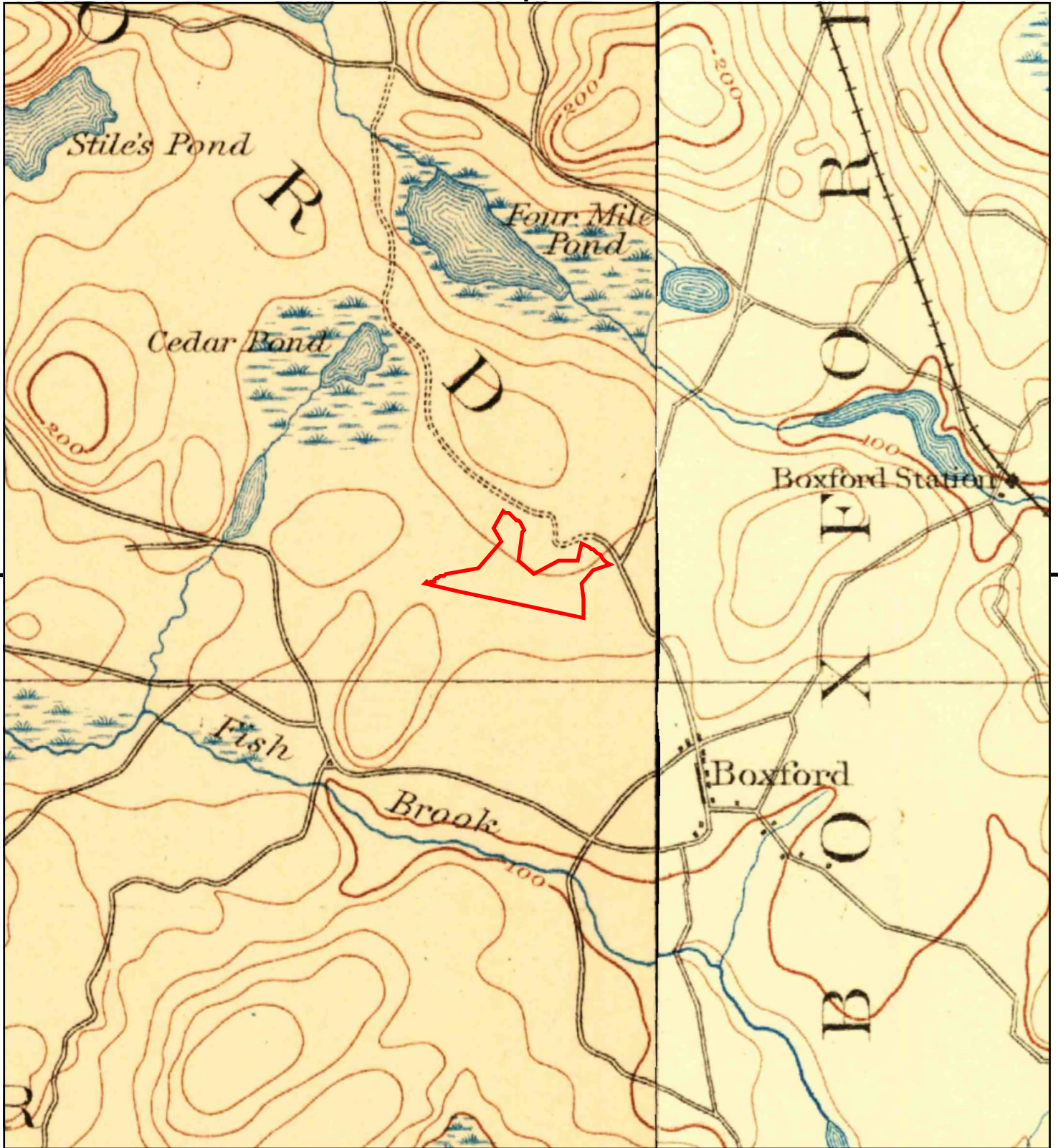
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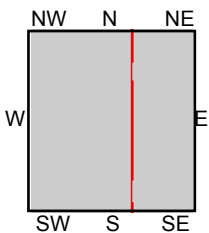
TP, Lawrence, 1893, 15-minute
SE, Salem, 1893, 15-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





This report includes information from the following map sheet(s).



TP, Lawrence, 1888, 15-minute
SE, Salem, 1888, 15-minute

SITE NAME: Dorman Land
ADDRESS: Herrick Road
Boxford, MA 01921
CLIENT: Derosa Environmental Consulting, Inc





Dorman Land

Herrick Road

Boxford, MA 01921

Inquiry Number: 7359677.8

June 08, 2023

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/08/23

Site Name:

Dorman Land
Herrick Road
Boxford, MA 01921
EDR Inquiry # 7359677.8

Client Name:

Derosa Environmental Consulting, Inc
167 Main St
Rowley, MA 01969
Contact: Abby Manzi



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2018	1"=500'	Flight Year: 2018	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: April 03, 1995	USGS/DOQQ
1985	1"=500'	Flight Date: April 17, 1985	USDA
1978	1"=500'	Flight Date: April 23, 1978	USGS
1971	1"=500'	Flight Date: May 15, 1971	USGS
1965	1"=500'	Flight Date: April 04, 1965	USGS
1960	1"=500'	Flight Date: May 01, 1960	USGS
1952	1"=500'	Flight Date: October 31, 1952	USDA
1938	1"=500'	Flight Date: January 11, 1938	USGS

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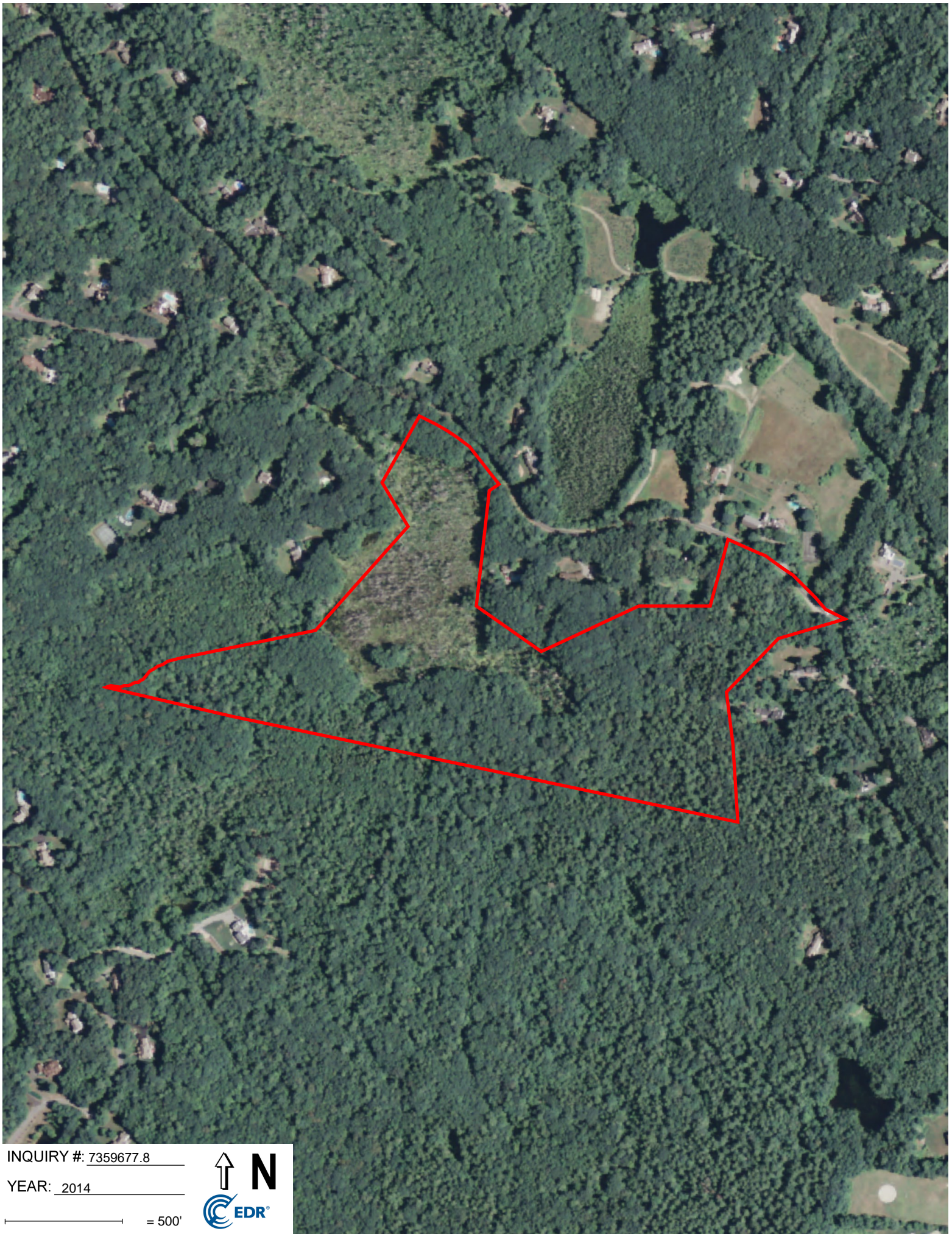
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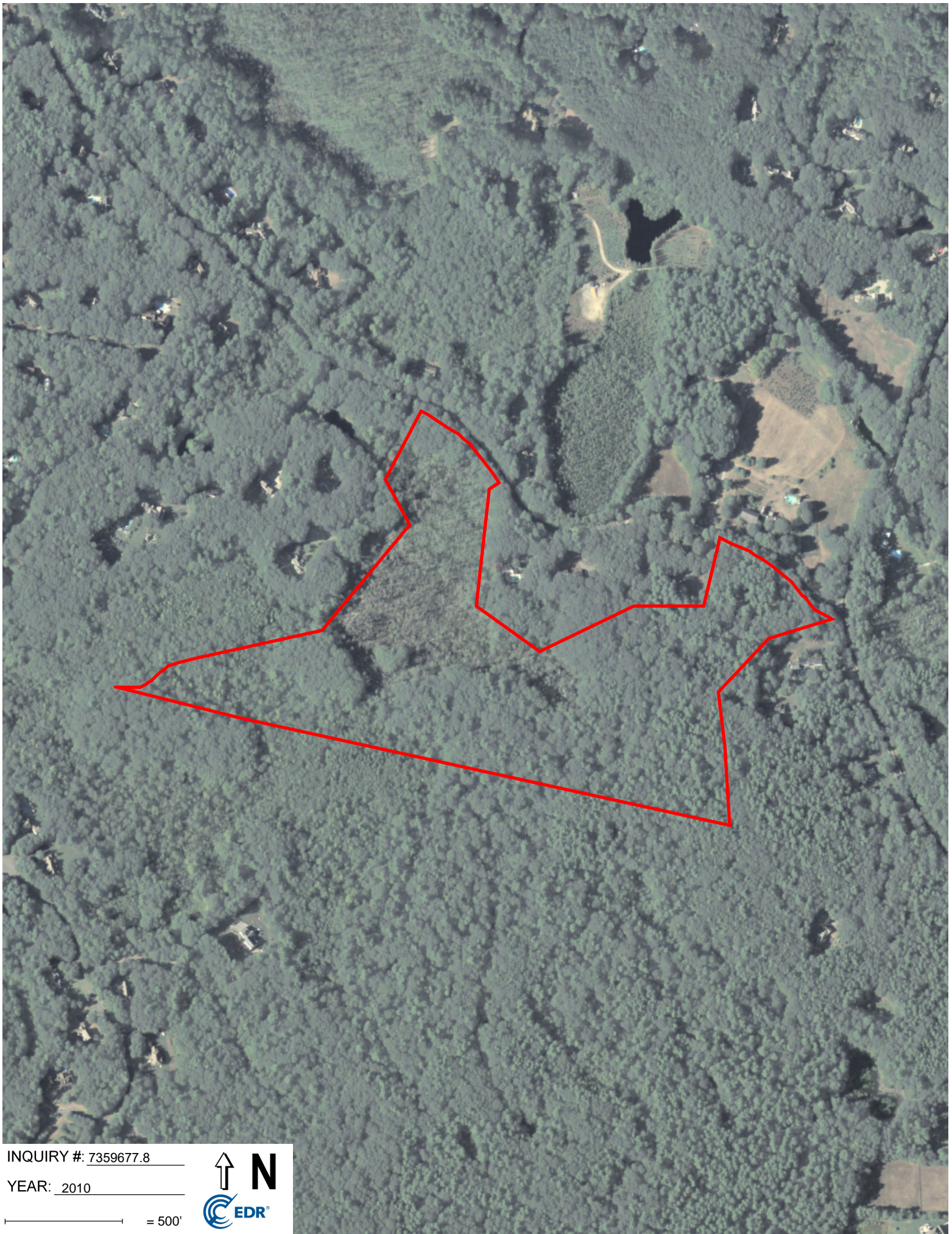


INQUIRY #: 7359677.8

YEAR: 2014

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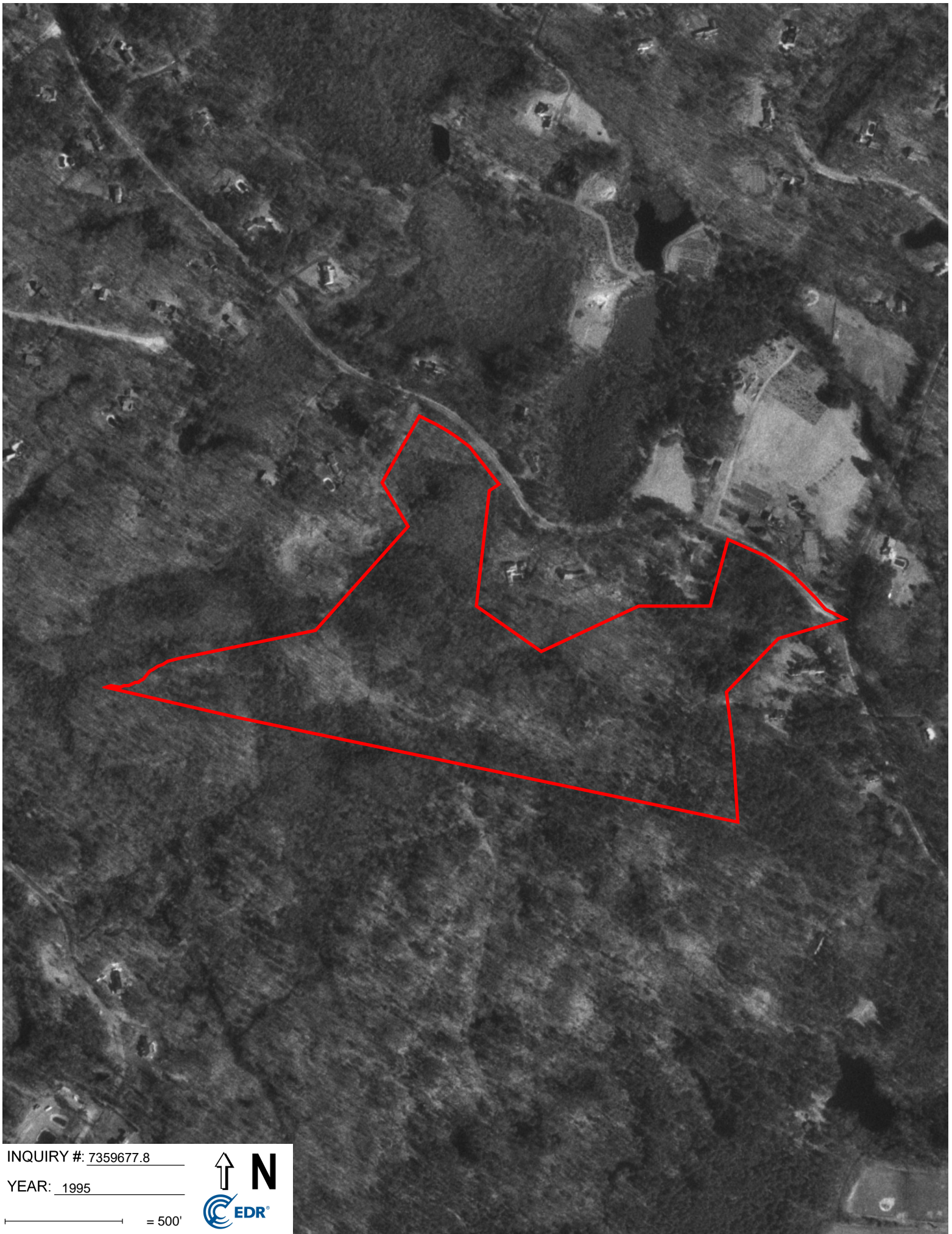


INQUIRY #: 7359677.8

YEAR: 2010

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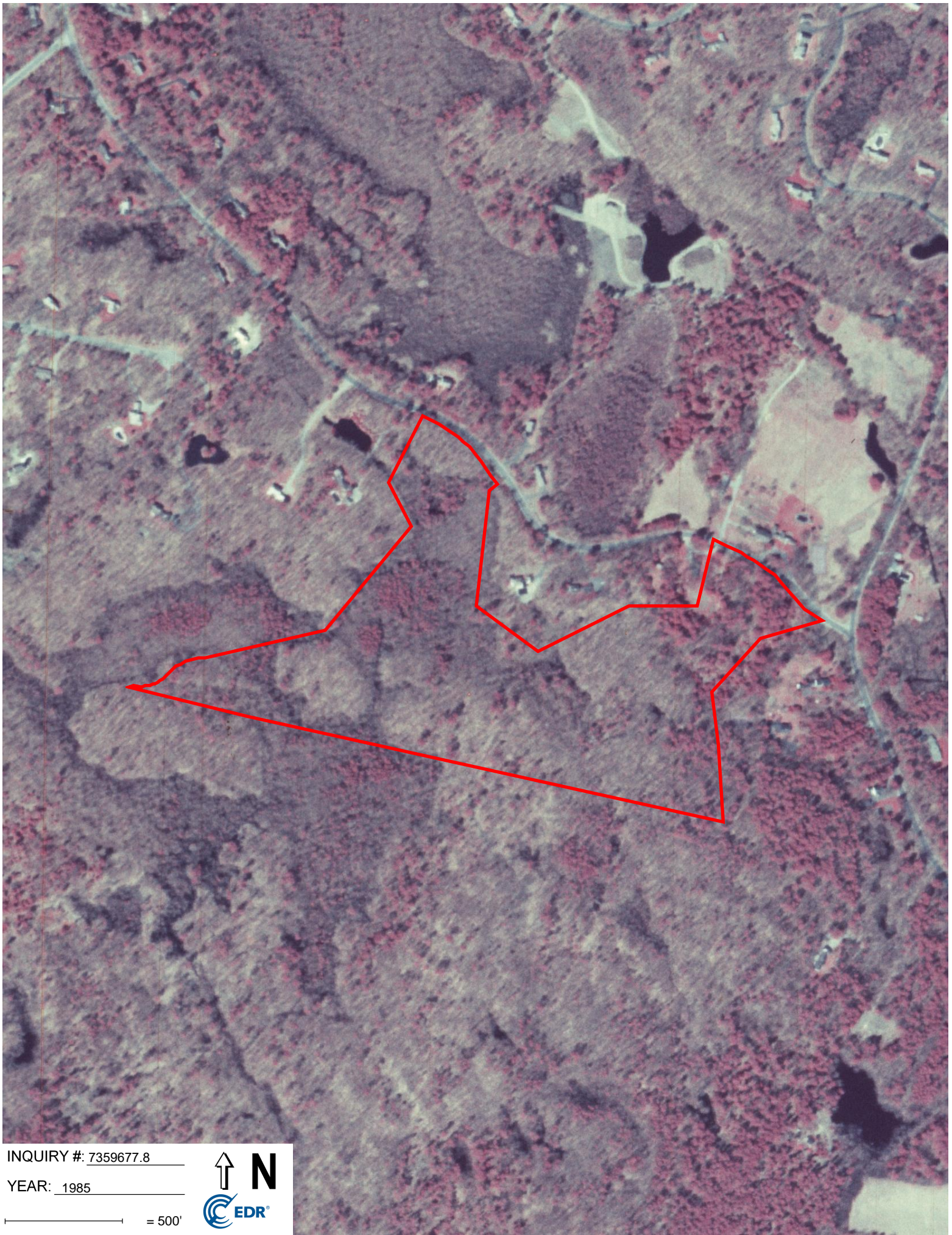


INQUIRY #: 7359677.8

YEAR: 1995

— = 500'





INQUIRY #: 7359677.8

YEAR: 1985

 = 500'



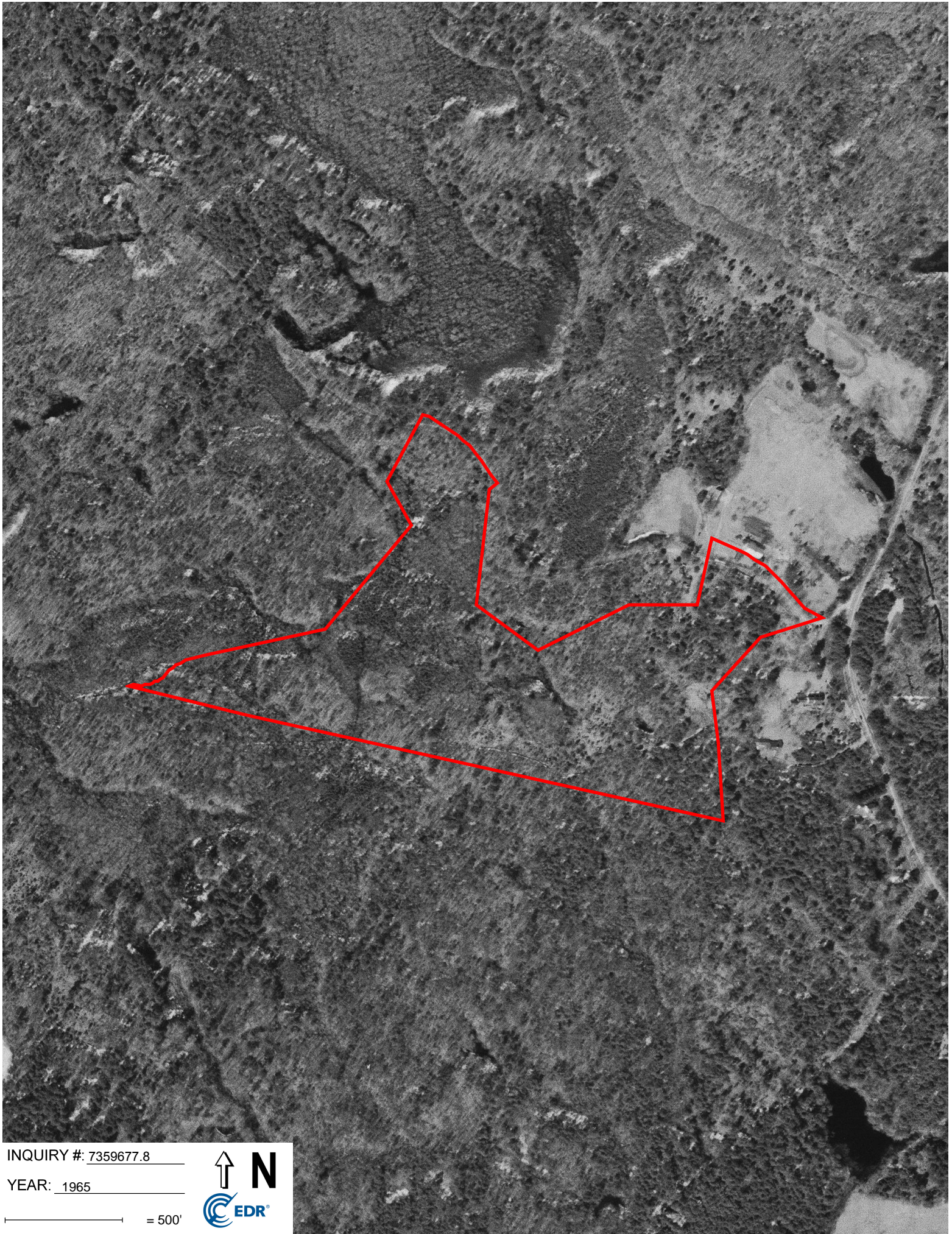


INQUIRY #: 7359677.8

YEAR: 1971

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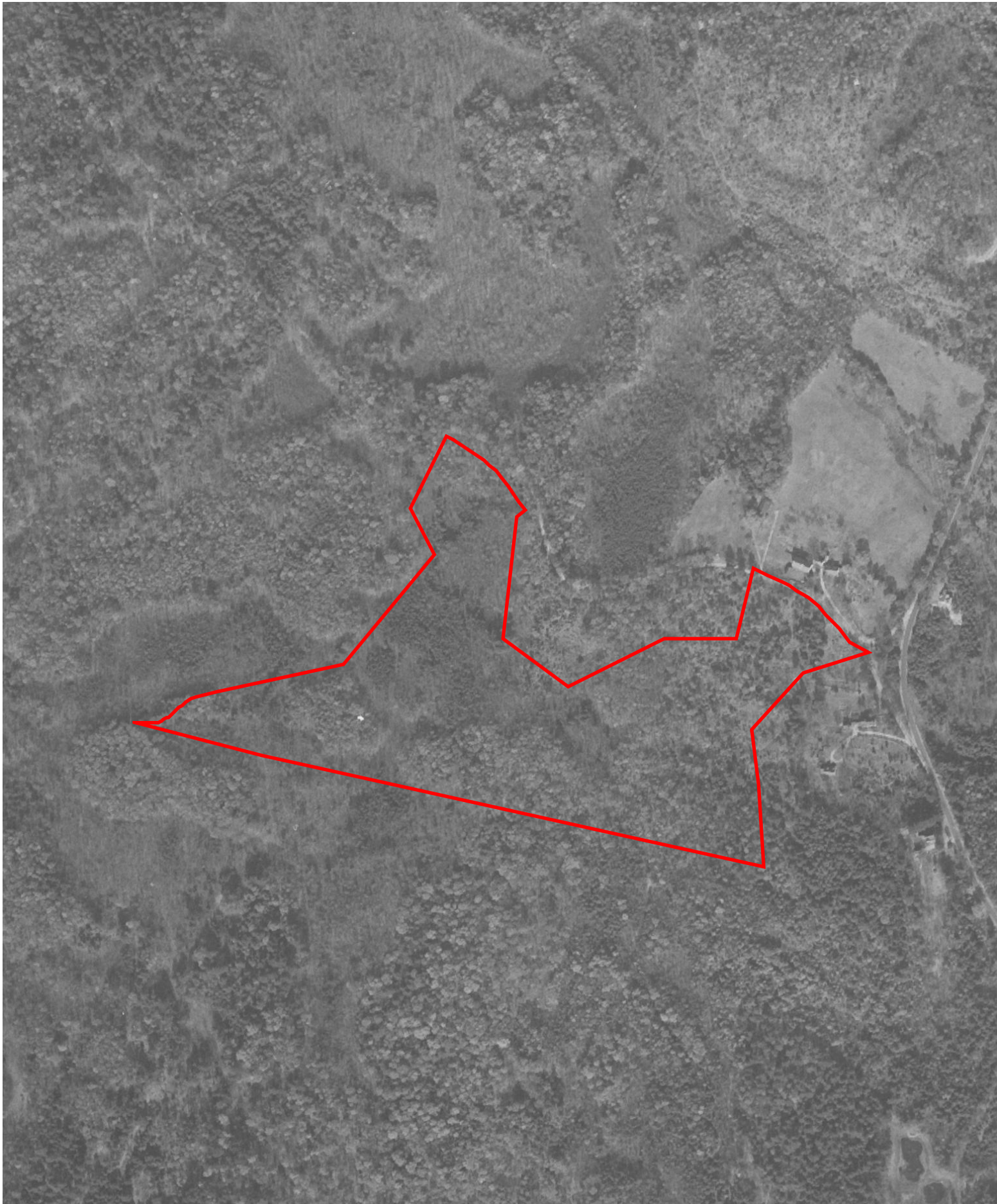


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YEAR: 1965

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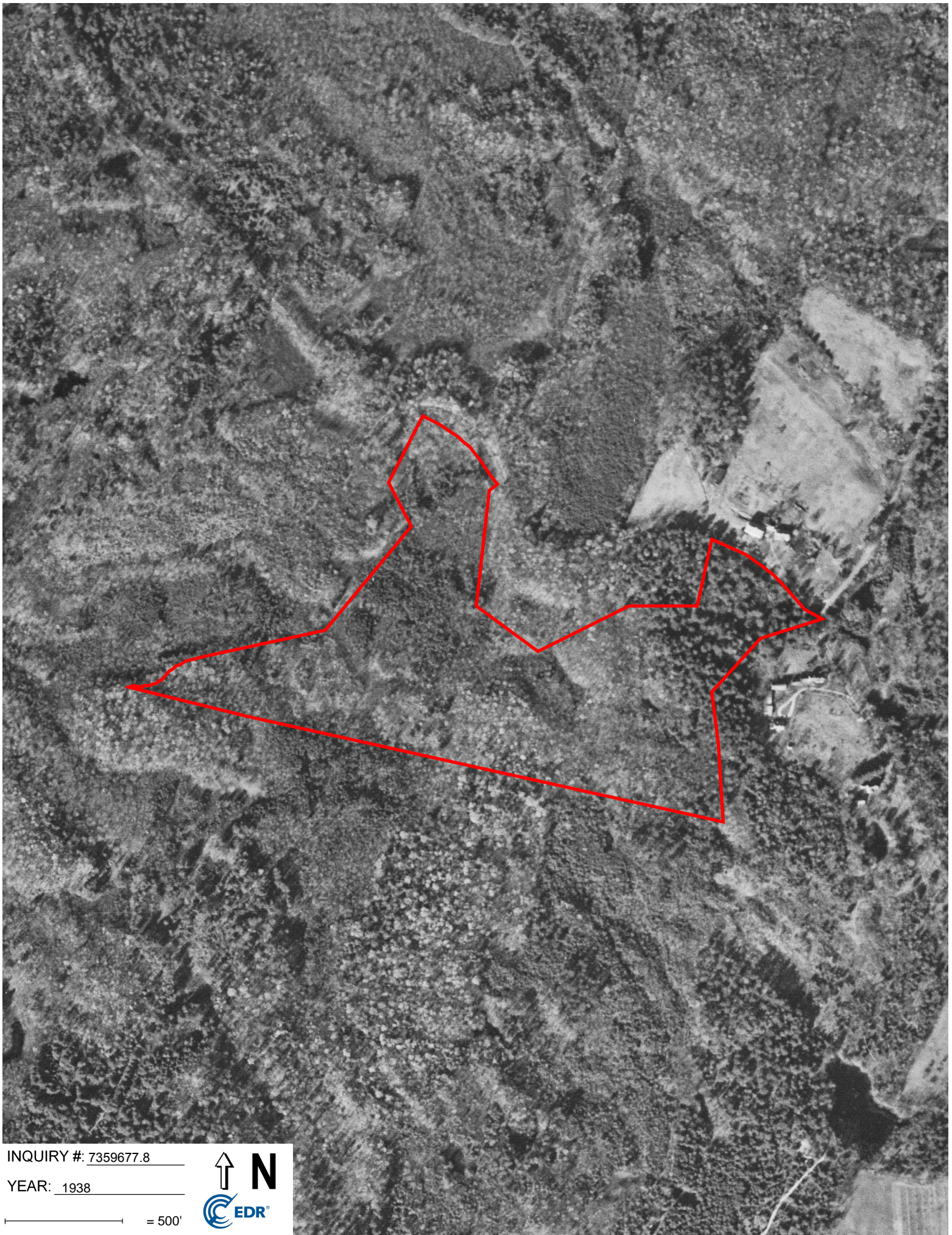


INQUIRY #: 7359677.8

YEAR: 1952

— = 500'





INQUIRY #: 7359677.8

YEAR: 1938

— = 500'



Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA

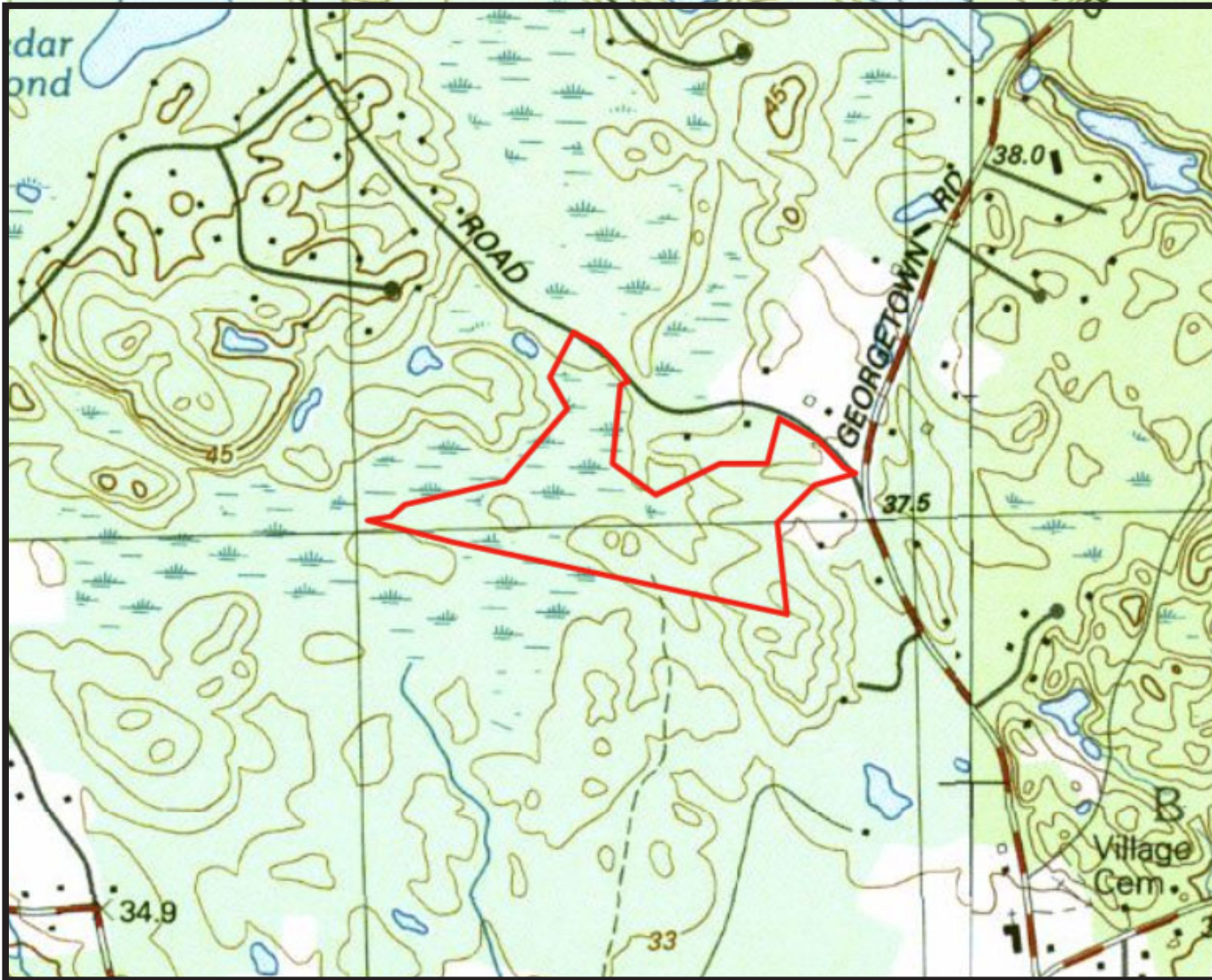


Figure 1. Topographic Map

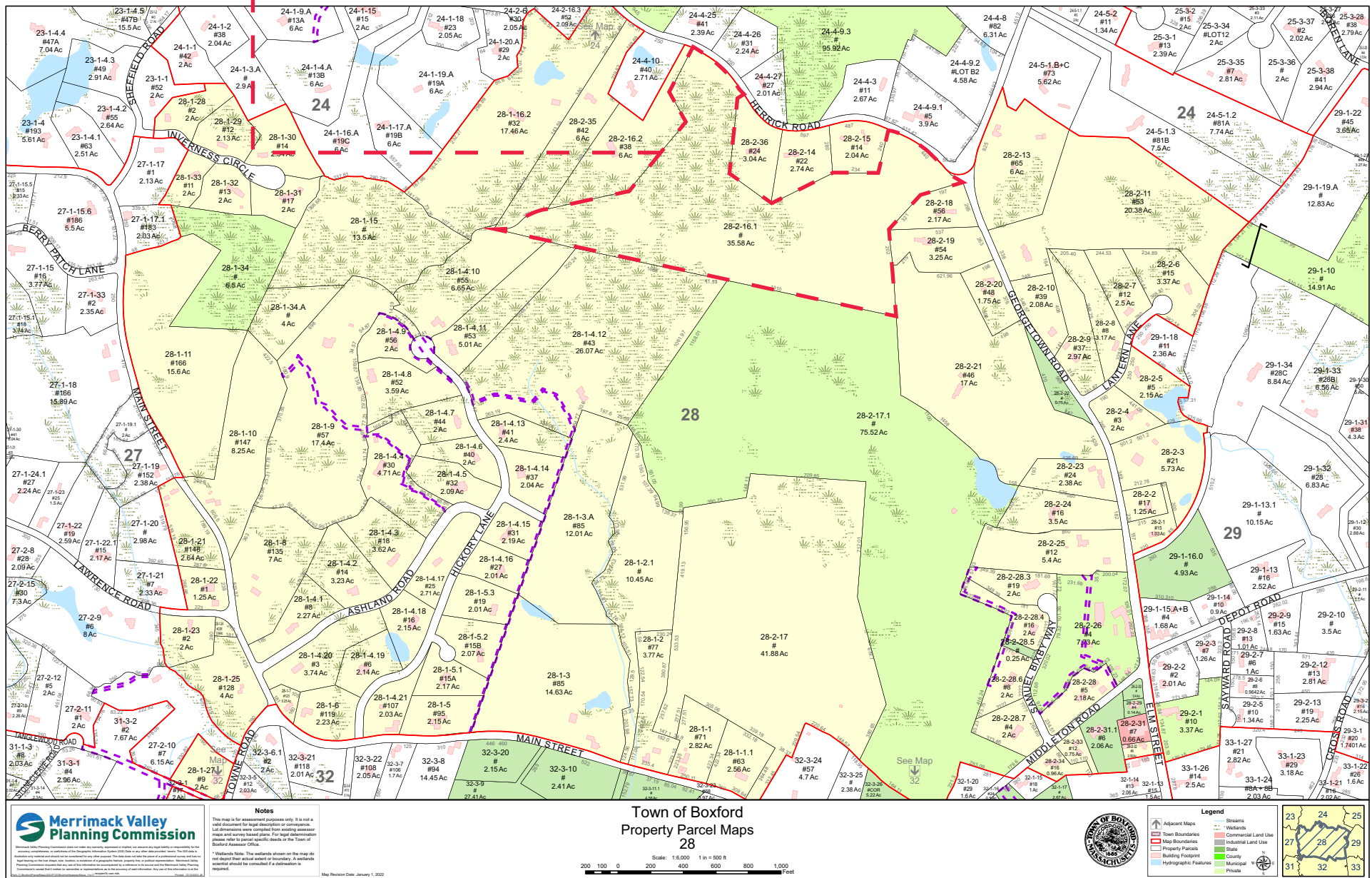
USGS Topographic Maps



Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA

Figure 2. Assessor's Map



Town of Boxford
Property Parcel Maps
28

Merrimack Valley Planning Commission

Notes
This map is for assessment purposes only. It is not a valid document for legal description or conveyance. Lot dimensions were compiled from existing assessor maps and aerial imagery based data. For legal descriptions, please refer to the official records of the Town of Boxford Assessor's Office.

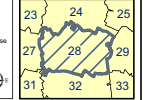
Wetlands Note: The wetlands shown on this map do not represent the actual wetlands in Boxford, MA. Wetlands are dynamic and change over time. The wetlands shown on this map are based on the most recent data available. For more information, please contact the Massachusetts Department of Environmental Protection (MassDEP) at 508-888-8800. Wetlands should be consulted if a delineation is required.

Map Revision Date: January 1, 2022

Scale: 1:6,000 1 in = 500 ft
0 200 400 600 800 1,000 Feet



Legend
 - Adjacent Maps
 - Town Boundaries
 - Map Boundaries
 - Property Parcels
 - Building Footprint
 - Hydrographic Features
 - Streams
 - Wetlands
 - Commercial Land Use
 - Industrial Land Use
 - State Property Parcels
 - County
 - Private



Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA



Figure 3. Aerial
Photograph

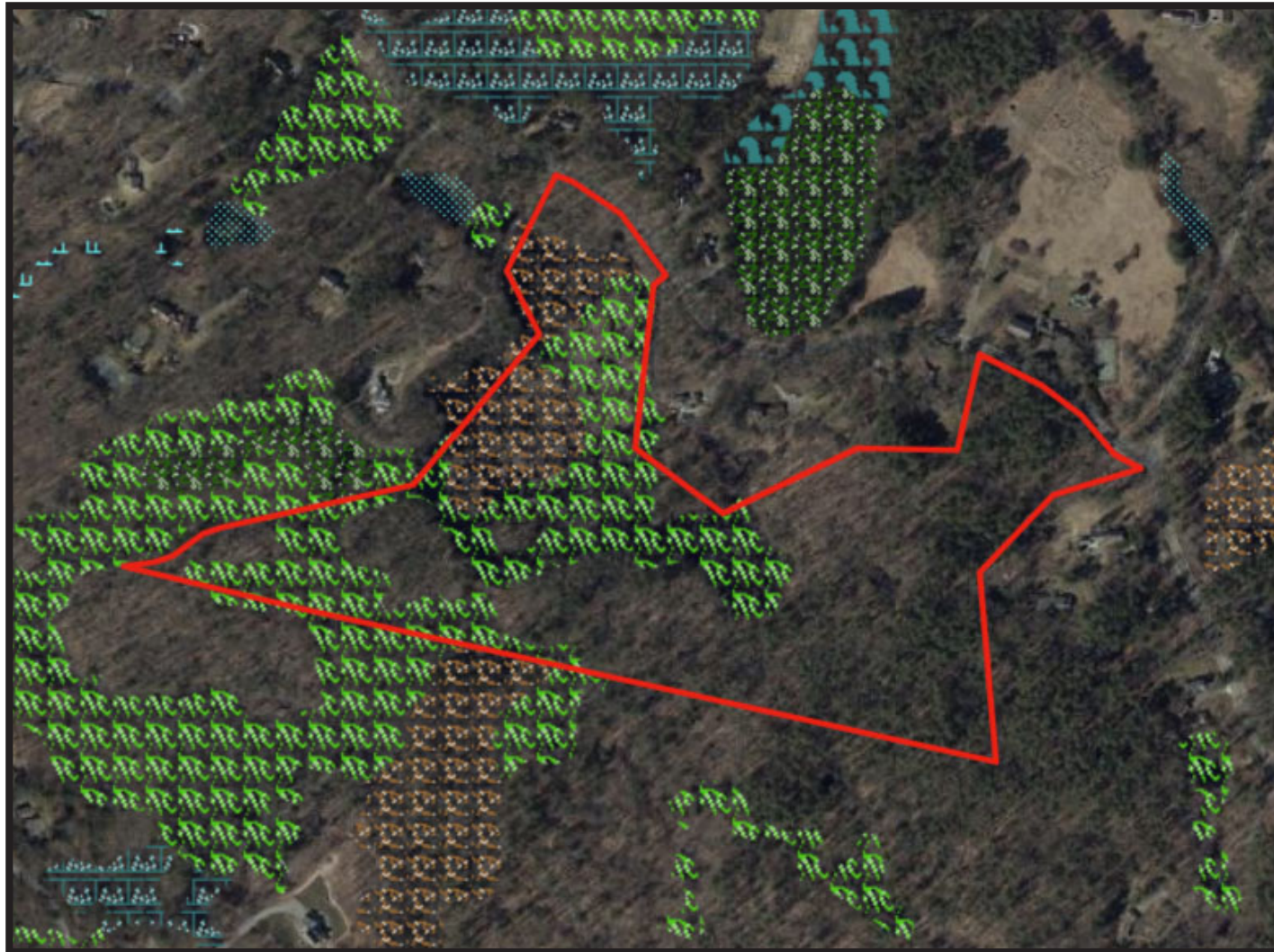
USGS Color Orthos 2019



Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA

Figure 4. Wetlands Map



DEP Wetlands Detailed

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

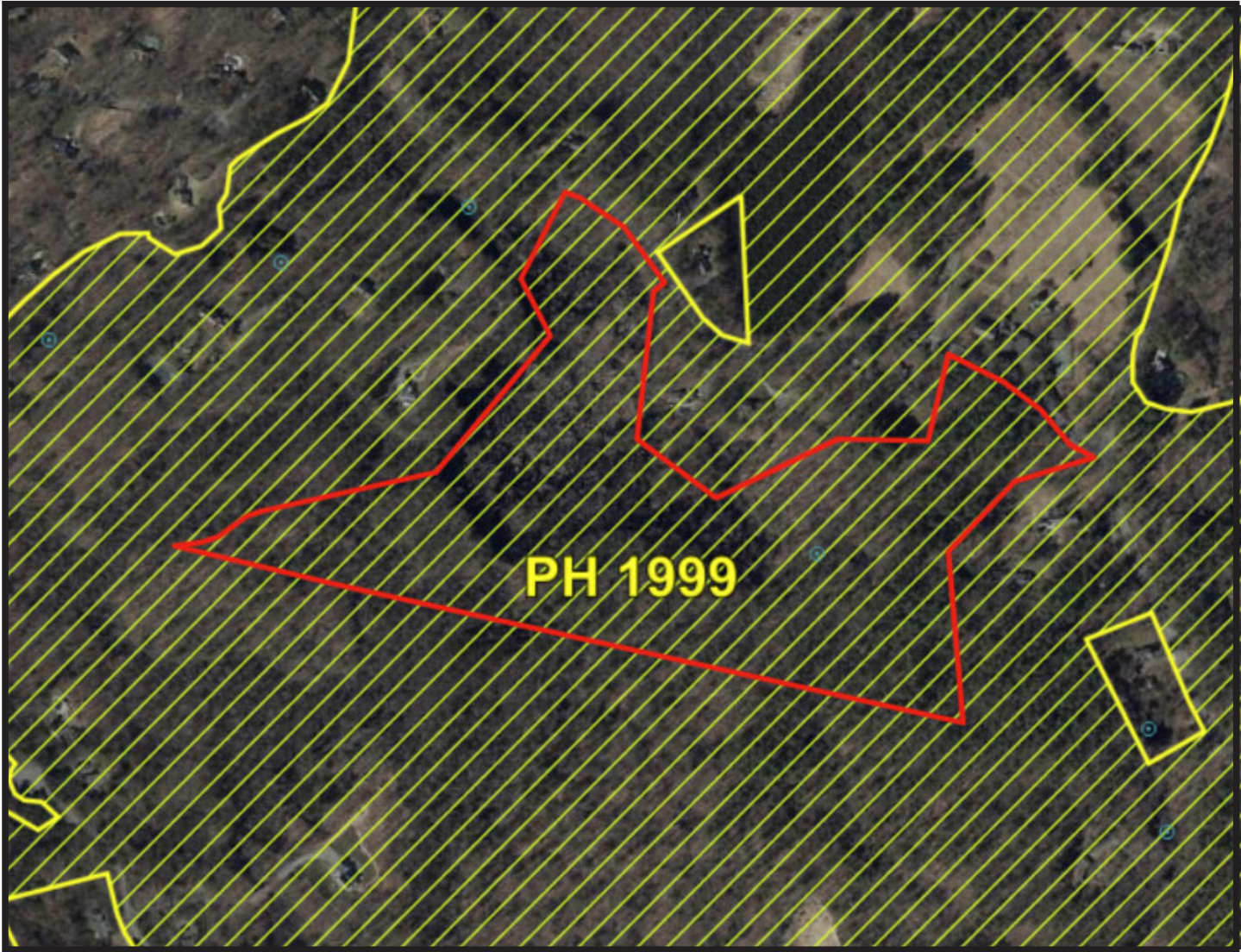
USGS Color Ortho Imagery 2008 30cm



Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA

Figure 5. NHESP Map



- Potential Vernal Pools
●
- NHESP Priority Habitats of Rare Species
▨
- NHESP Natural Communities
▨
- NHESP Estimated Habitats of Rare Wildlife
▨
- NHESP Certified Vernal Pools
★
- NHESP Ecoregions
□
- USGS Color Ortho Imagery 2008 30cm
▨

Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA

Figure 6. FIRMette Map

National Flood Hazard Layer FIRMette



71°0'43"W 42°40'29"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

71°0'5"W 42°40'3"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	<ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	<ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D
OTHER AREAS	<ul style="list-style-type: none"> NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	<ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
OTHER FEATURES	<ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
MAP PANELS	<ul style="list-style-type: none"> Digital Data Available No Digital Data Available Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/12/2023 at 12:24 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes



150 Newburyport Turnpike, Unit No. C-9, Rowley MA 01969
978.948.7717 Fax 978.948.7718

Phase 1: Environmental Site Assessment

Dorman Land, Parcel 28-2-16.1, Boxford, MA

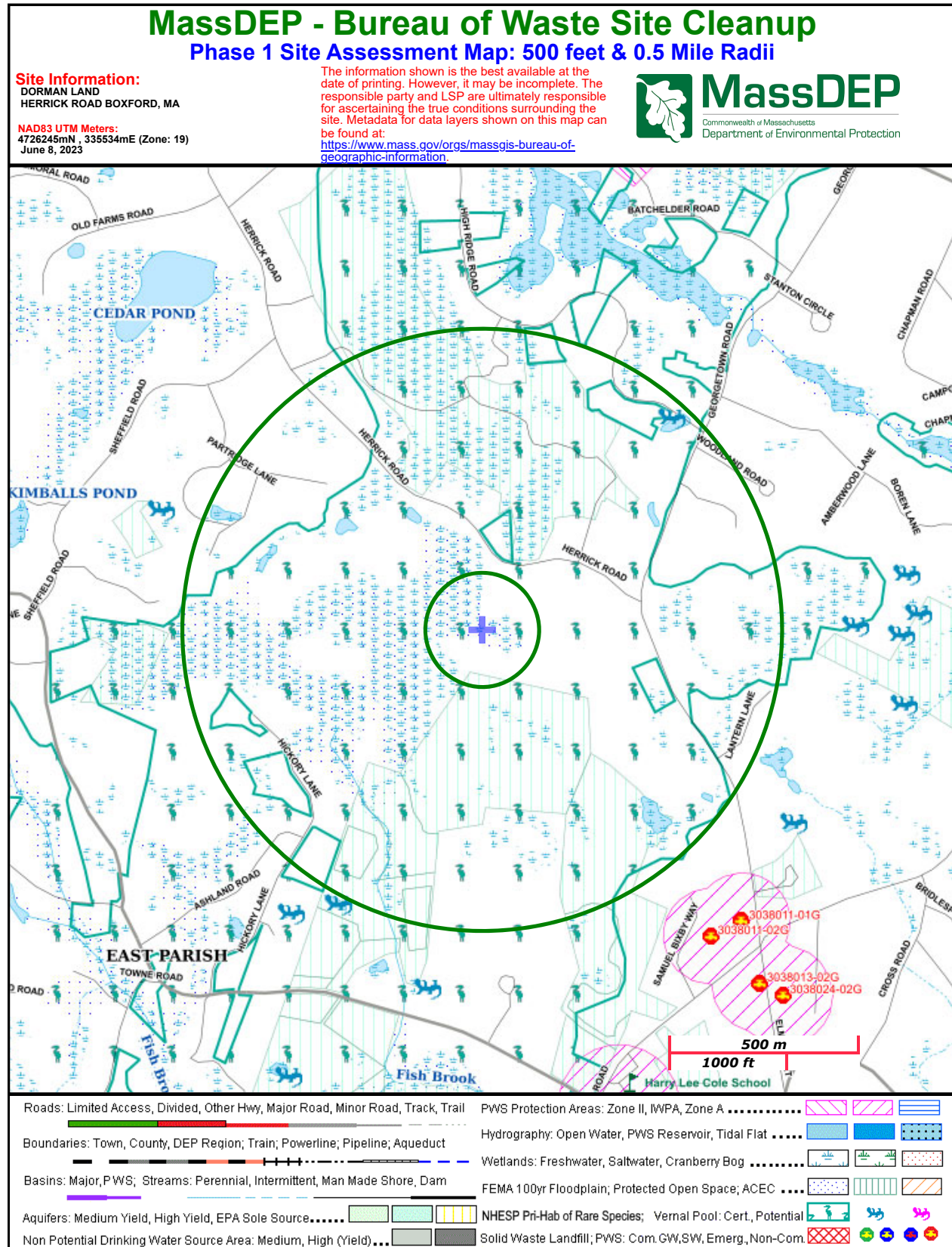


Figure 7. Priority Resource Map

NOTE:

THIS PLAN IS COMPILED BASED ON PLANS & DEEDS OF RECORD. A PERIMETER SURVEY HAS NOT BEEN CONDUCTED BY DONOHUE SURVEY, INC.

ZONING DISTRICT: R-A

ASSESSORS: MAP 28 BLOCK 2 LOT 16.1

REFERENCES:

DEED - BK. 5210 PG. 132

AERIAL MAPPING: BLUESKY GEOSPATIAL LTD (JANUARY 2023)

WETLAND DELINEATION: WETLANDS & LAND MANAGEMENT, INC. (DECEMBER 2022)

WETLANDS IDENTIFICATIONS:

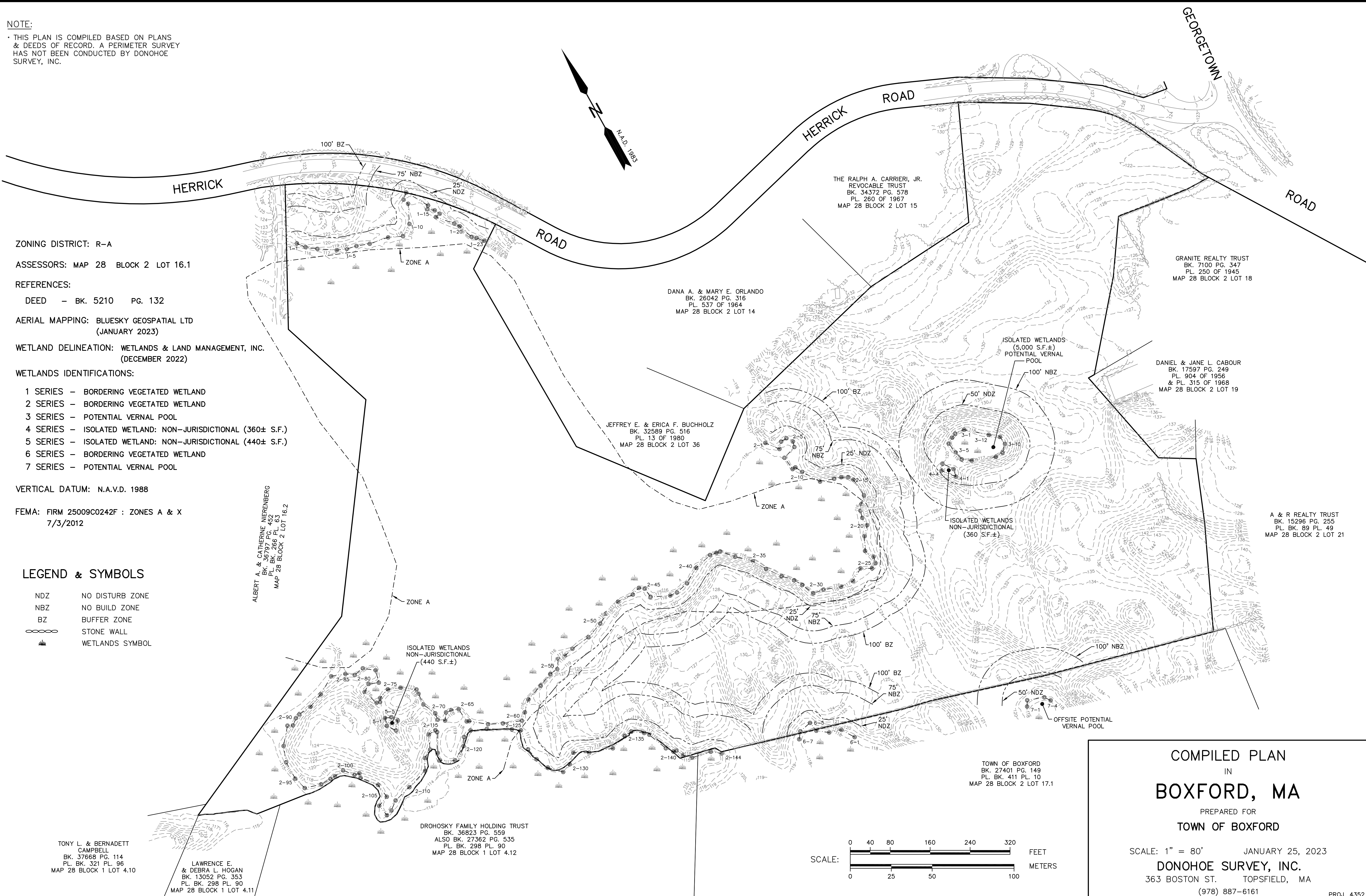
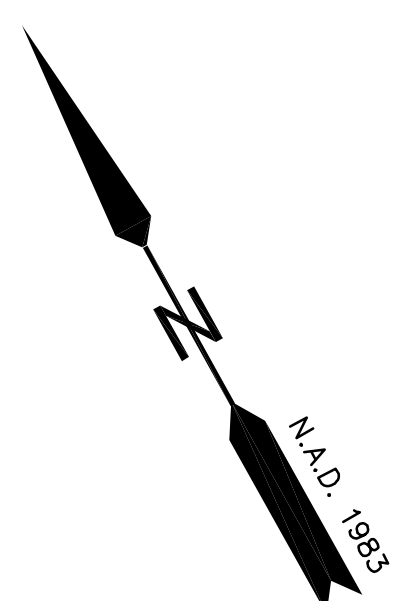
- 1 SERIES - BORDERING VEGETATED WETLAND
- 2 SERIES - BORDERING VEGETATED WETLAND
- 3 SERIES - POTENTIAL VERNAL POOL
- 4 SERIES - ISOLATED WETLAND: NON-JURISDICTIONAL (360± S.F.)
- 5 SERIES - ISOLATED WETLAND: NON-JURISDICTIONAL (440± S.F.)
- 6 SERIES - BORDERING VEGETATED WETLAND
- 7 SERIES - POTENTIAL VERNAL POOL

VERTICAL DATUM: N.A.V.D. 1988

FEMA: FIRM 25009C0242F : ZONES A & X 7/3/2012

LEGEND & SYMBOLS

- NDZ NO DISTURB ZONE
- NBZ NO BUILD ZONE
- BZ BUFFER ZONE
- — — — — STONE WALL
- WETLANDS SYMBOL

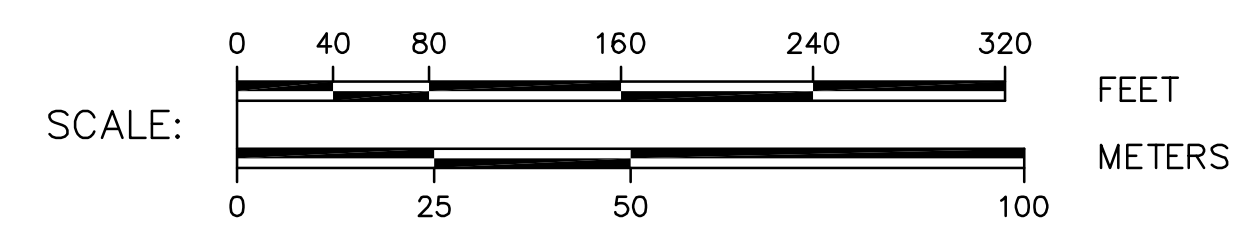


TONY L. & BERNADETT CAMPBELL
BK. 37668 PG. 114
PL. BK. 321 PL. 96
MAP 28 BLOCK 1 LOT 4.10

LAWRENCE E. & DEBRA L. HOGAN
BK. 13052 PG. 353
PL. BK. 298 PL. 90
MAP 28 BLOCK 1 LOT 4.11

DROHOSKY FAMILY HOLDING TRUST
BK. 36823 PG. 559
ALSO BK. 27362 PG. 535
PL. BK. 298 PL. 90
MAP 28 BLOCK 1 LOT 4.12

TOWN OF BOXFORD
BK. 27401 PG. 149
PL. BK. 411 PL. 10
MAP 28 BLOCK 2 LOT 17.1



**COMPILED PLAN
IN
BOXFORD, MA**

PREPARED FOR
TOWN OF BOXFORD

SCALE: 1" = 80' JANUARY 25, 2023
DONOHUE SURVEY, INC.
363 BOSTON ST. TOPSFIELD, MA
(978) 887-6161



REPRESENTATIVE PROJECTS

Private Residence | Dune Grass Restoration
Manchester, MA

Commercial Property | Wetland Restoration
Rowley, MA

Willowdale State Forest | Culvert Repair
Ipswich, MA

Saint Joseph's School | Well Monitoring
Salem, MA

Private Residence | Reconstruction of a Single Family Home
Ipswich, MA

Ipswich River Watershed Association | River Culvert Survey
North Shore, MA

Invasive Plant Management | Restoration Project
Ipswich, MA

Sally's Pond | Trail Restoration Grant
Ipswich, MA

Abigail Manzi, BA

Environmental Scientist

Abby graduated with a bachelor's degree in Environmental Studies and Biology from Guilford College in Greensboro, North Carolina. Her studies focused on sustainable practices and ecology with courses including Sustainable Business, Animal Behavior, Rainforest Ecology and Environmental Policy.

Abby joined DeRosa Environmental Consulting in the fall of 2015. She is currently working at DeRosa Environmental as an Environmental Scientist.

While in college Abby spent a semester abroad in the rainforest in Australia studying Rainforest Ecology, Forestry Management and Socioeconomics. She also spent a month of her time there researching Lumholtz's Tree Kangaroos.

Prior to working at DeRosa Environmental Abby traveled to Hawaii to work on farms and learn about organic farming practices through World Wide Opportunities on Organic Farms (WWOOF).

Abby grew up with a love for the wildlife and nature taking trips every spring out to the vernal pools with her mom to check out the amphibians and camping every summer. She loves anything outdoors including hiking, diving, snowboarding and swimming. She travels as much as possible, especially to new places with animals she has never seen.

EDUCATION

BA, Biology and Environmental Studies | 2014
Guilford College, Greensboro, NC

PROFESSIONAL EXPERIENCE

Environmental Scientist | 2015 – Present
DeRosa Environmental Consulting Inc
Intern | Summer 2013
Ipswich River Watershed Association

Student Researcher | August-December 2012
Center for Rainforest Studies, Queensland, Australia

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

AMWS | Association of Massachusetts Wetland Scientists

CERTIFICATION

40 Hour Hazardous Waste Site Worker (OSHA)

PADI Open Water Diver | 2015

Adult First Aid/CPR/AED | Exp. 8/7/2020

LICENSE

Unmanned Aircraft License | FAA | Exp. 2/19/2021



Michael J. DeRosa

Principal, LSP, LEED AP BC&D

Michael J. DeRosa, Principal and project manager specializing in habitat restoration and wetland restoration projects. He has more than 24 years experience working with ecological systems focused on restoration and rehabilitation of damaged landscapes. Ecological principles inform his design and restoration practices.

Mike was the principal wetland permitting leader for the Turner Hill Resort Center in Ipswich Massachusetts. He has consulted with the Archdiocese of Boston since 1989 in all environmental areas. His firm is known for their expertise in wetland and wildlife habitat restoration and rehabilitation and invasive species control and management.

Mike incorporated DeRosa Environmental Consulting, Inc., in May 1994 after spending 8 years working in the environmental consulting industry as technical director and project manager. Prior to his consulting career he was a researcher at the Harvard School of Tropical Public Health working with infectious diseases and tick transmitted Lyme disease, in particular.

Mike has been involved with many projects associated with MGL Ch. 21e and Massachusetts Contingency Plan (MCP) projects. He received his Licensed Site Professional (LSP Lic. 3452) registration in 1993. Mike is uniquely credentialed in hazardous waste site assessment and remediation and has over 24 years experience in wetland permitting, habitat restoration and mitigation. Mike has permitted projects with all federal, state and local environmental agencies. Mike is on the Practice Faculty at The Boston Architectural College. His new passion is the incorporation of urban agriculture and food justice initiatives in mixed use community based projects.

EDUCATION

MA, Boston University, 1993

North Carolina State University, 1986

Harvard University, 1985

BA, University of Denver, 1982

REPRESENTATIVE PROJECTS

Ipswich River Watershed Association
Ipswich MA

**Miles River Task Force |
Watershed Restoration**
Beverly Wenham Hamilton Ipswich MA

**Paumier Residence |
Dune Restoration**
Manchester MA

**Matignon High School Athletic Fields |
Landfill Cap Remediation**
Cambridge/Somerville MA

**Turner Hill Golf Course |
Wetland Mitigation & Pond Design**
Ipswich MA

**Saint Aidan's Church |
UST Remediation**
Brookline MA

**Saint Kevin's School |
AST Remediation**
Dorchester MA

**Saint Joseph's School |
UST Remediation**
Salem MA

**Ipswich Country Club |
Wetland Restoration**
Ipswich MA

**Ould Newbury Golf Club |
LID Runoff Design**
Newbury MA

**Ferncroft Country Club |
Pond Restoration**
Topsfield/Middleton MA

PROFESSIONAL EXPERIENCES

Principal, LSP, LEED AP BC&D

DeRosa Environmental Consulting, Inc. | 1994-Present

Technical director, Environmental Engineering Division

Web Engineering Associates, Inc. | 1990-1994

Project manager/Environmental Scientist,

Dennison Environmental, Inc. | 1988-1989

Population Ecologist & Wetlands Specialist,

Lelito Environmental Consultants, LLC | 1987-1988

Research Assistant,

North Carolina State University | 1985-1987

Air Pollution Analyst

Entropy Environmentalists, Inc. | 1985-1987

Senior Research Assistant

Harvard University | 1983-1985

Naturalist

The Trustees of Reservations | 1983-1985

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

New England Wildflower Society

USGBC | United States Green Building Council

NGWA | National Ground Water Association

AMWS | Association of Massachusetts Wetland Scientists

LSPA | Licensed Site Professional Association

SWS | Society of Wetland Scientists

MACC | Massachusetts Association of Conversation Commissioners

CERTIFICATIONS AND SPECIAL TRAINING

Licensed Site Professional (LSP), Lic. No. 3452

Professional Wetland Scientist (PWS)

LEED Accredited Professional | 10342989

Certified Ecologist, The Ecological Society of America |

June 2002 – May 2007

CERCLA 40 Hour Hazardous Materials Safety Training |

OSHA 29 CFR 1910.120

Confined Space Entry Training | OSHA 29 CFR 1910.146

Management Training Workshop | Dun and Bradstreet

Hazardous Materials Chemistry Seminar | University of Toledo

Unmanned Aircraft License | FAA | Exp. 2/28/2019

NUMBER

23-04

COMMONWEALTH OF MASSACHUSETTS
TOWN of BOXFORD

FEE

WAIVED

This is to Certify that Boxford Athletic Association

IS HEREBY GRANTED A
COMMON VICTUALLER'S LICENSE

In said 10 Stiles Pond Road, Boxford and at that place only and expires December thirty-first **2023** unless sooner suspended or revoked for violation of the laws of the Commonwealth respecting the licensing of common victuallers. This license is issued in conformity with the authority granted to the licensing authorities by General Laws, Chapter 140, and amendments thereto.

In Testimony Whereof, the undersigned have hereunto affixed their official signatures.

For the SELECT BOARD

Date: _____

Matthew Coogan, Town Administrator

TOWN of BOXFORD

Victueller's Permit

APPLICATION FOR PERMIT

No. _____

May 24, 2023
(Date)

TO THE LICENSING AUTHORITIES:

In accordance with the provisions of the Statutes relating thereto, application for a Permit is hereby made by

Name Boxford Athletic Association / Stiles Pond
(Full name of person, firm or corporation making application)

10 Stiles Pond Rd. Boxford, MA
(Give location by street and number)

State clearly purpose for which permit is requested

To open and sell pre-packaged and fresh (cooked) food and beverages at the beach concessions stand.

Permit issued _____

[Signature] Joselyn DeMarco
(Signature of applicant)
21 Glen Forest Dr.
(Address)

Reappointments - Boards and Committees

BOARD	TERM YEARS	INCUMBENT
Adaptive Reuse Building Committee	1	John Adams
	1	Dan Anastos
	1	Adam Bartke
	1	Robert Gore
	1	Richard O'Brien
	1	Becky Potts
Agricultural Commission	3	Randy Johnson
	3	Charles Kornely
Border to Boston Trail Committee	1	Anthony Brogna
	1	Carole Davis
	1	Stephen Davis
	1	David King
	1	Al Nierenberg
	1	Mark Phelan
	1	James Taggart
Boxford Housing Partnership	1	Jim Barnes
	1	Joseph Hill
	1	Bankson C. Riter Jr.
Cable Television Advisory Committee	1	Bradley Sweet 4 Vacancies
Center at 10 Elm Community Committee	1	Heather Barry
	1	Christine Dean
	1	Lauren Kurkul
	1	Joanna Picardi
	1	Kathy Zolla
Community Preservation Committee	1	Jim Barnes
	1	Tiffany Bartke
	1	Natasha Grigg
	1	Virginia Havey
	1	Barbara Jessel
	1	J. Steven Merriam Jr.
	1	F. Richard Shaw

BOARD	TERM YEARS	INCUMBENT
	1	Angela Steadman
	1	Mark Sullivan
Computer Management Committee	3	Jason Taylor 3 Vacancies
Conservation Commission	3	Francis DiLuna
	3	Doug Hamilton
	3	Greg Kokorda
	3	David Smallman 1 Vacancy
Council on Aging	4	Stephen Harvey
	4	John Shirley
Cultural Arts Council	3	Kathy Zolla 1 Vacancy
Finance Committee	3	Peter Bernardin
	3	Phil McManus
	3	Jeffrey Yespy
Friends of the Ackerman Playground		5 Vacancies
Historic Districts Commission/ Historical Commis	3	Christine Barenfeld (Alternate)
	3	Virginia Havey
	3	Gwendolen Perkins
Lakes, Ponds and Streams Committee	2	Kerri Lummus 4 Vacancies
Land Committee	3	Peter Bernardin
	3	Robert Gore
	3	Stuart Saginor
Masconomet Scholarship Committee	1	Joan Gordon
	1	Andrew Gori
	1	Diane Gori
	1	Dorothy Johnson 1 Vacancy

BOARD	TERM YEARS	INCUMBENT
Open Space and Recreation Plan Committee	1	Lisa Donahue
	1	Jessica Grigg
	1	Doug Hamilton
	1	Mary Langer
	1	Dennis Pyburn
Permanent Building Committee	1	Judith Anderson
	1	Margaret Chow-Menzer
	1	Thomas Duval
	1	Robert Hazelwood
	1	Scott Novak
	1	Richard O'Brien
	1	F. Richard Shaw
Personnel Board		1 Vacancy
Recreation Committee	3	Jeffrey Hixon
	3	John Rowen
	3	Thomas Stevens
		2 Vacancies
Recycling Committee	3	Gerogia Cameron
	3	Laura Dike
Sustainability Committee	1	Marc Aronson
	1	Patrick G. Canonica
	1	Mary Langer
	1	Gary Martin
	1	Keith Sampson
Town Forest Committee	3	Brian Shea
		2 Vacancies
Zoning Board of Appeals	3	Paula Fitzsimmons
	3	Thomas Jonak
	3	David Valzania (Alternate)
		1 Vacancy (Alternate)



Town Of Boxford
Office of the Inspector of Buildings
Peter J. Delaney, Building Inspector

7A Spofford Road Boxford, Massachusetts 01921
1- 978-887-6000 X 161 FAX 978-887-1236

June 7, 2023

Dear Matt,

After running the Open Gov program for about a month and a half now, we've ran into an issue with our reporting. We thought we had it correct, but under review, we noticed some errors. Today we had a meeting with OpenGov support regarding reporting, and it looks like we incorrectly reported the May 2023 permits. On a good note, we under-reported our income for the month. We now have a better understanding of the reporting, and feel confident going forward. Sorry for the inconvenience.

Thank you,

Peter Delaney



Peter Delaney
Inspector of Buildings
Town of Boxford

June 1, 2023

To: Boxford Board of Selectmen

From: Peter Delaney
Inspector of Buildings

Dear Members,
The following permits were issued by Inspectional Services for the month of May 2023:

PERMITS	FEES COLLECTED	VALUE
66 Building Permits (60 Inspections)	\$57,645.14	\$4,341,870.93
47 Building Permits (44 Inspections)	May 2022 Comparison \$29,541.15	\$1,230,852.00
24 Electrical Permits (39 Inspections)	\$2,982.00	
14 Electrical Permits (31 Inspections)	May 2022 Comparison \$1,446.00	
4 Plumbing Permits (12 Inspections)	\$493.00	
9 Plumbing Permits (13 Inspections)	May 2022 Comparison \$819.00	
12 Gas Permits (9 Inspections)	\$1,394.00	
9 Gas Permits (19 Inspections)	May 2022 Comparison \$830.00	
TOTAL FEES COLLECTED	\$62,514.14	
TOTAL FEES COLLECTED	May 2022 Comparison \$31,806.15	

Peter Delaney

Peter Delaney
Cc: Town Administrator
Board of Assessors

6-7-23

MAY 2023 BUILDING PERMITS

Record	Record Type	Label	Amount	Payment Method	Applicant	Date Submitted	Mbl	Location	Valuation	Project Description
										installing rooftop railed solar PV of 12.775KW and 35 modules. No ESS installation
B-23-2	Building Permit	Payment Due	\$ 572.00	Check	Jeffrey Marinello	5/31/2023 18:39	25 05 22	47C POND ST., Boxford MA 01921	\$ 44,073.75	
B-23-2	Building Permit	Payment Due	\$ 195.00	Credit Card	David Burnham	5/31/2023 12:43	10 02 33	8 WHITTIER TER., Boxford MA 0192	\$ 15,000.00	Construct a 60 foot retaining wall for garage project
B-23-2	Building Permit	Payment Due	\$ 3,938.00	Check	Antonio Fortunato	5/30/2023 15:20		54 Ingalls Village Way., Boxford MA	\$ 302,880.00	New construction of a 2 bedroom, 2.5 bath townhome with unfinished basement
B-23-2	Building Permit	Payment Due	\$ 3,696.00	Check	Antonio Fortunato	5/30/2023 15:11		52 Ingalls Village Way., Boxford MA	\$ 284,280.00	New construction of a 2 bedroom, 2.5 bath townhome with unfinished basement
B-23-2	Building Permit	Payment Due	\$ 487.50	E-Check	Kathleen James	5/30/2023 13:34	40 05 11	7 ENDICOTT RD., Boxford MA 0192	\$ 37,500.00	Adding a small addition 600 sq ft and right now installing foundation to retain the pool that is being installed
B-23-2	Building Permit	Payment Due	\$ 85.00	Credit Card	Edward Harrigan	5/23/2023 15:15	20 01 16	142 KILLAM HILL RD., Boxford MA C	\$ 3,000.00	Install stainless steel chimney liner and cap
B-23-1	Building Permit	Payment Due	\$ 602.63	E-Check	george Silvar	5/21/2023 23:13	11 01 22	89 VALLEY RD., Boxford MA 01921	\$ 46,356.00	enlarge 2 bathrooms and add showers
B-23-1	Building Permit	Payment Due	\$ 279.83	Credit Card	Brian Dobbins	5/17/2023 13:10	16 01 16	91 KING GEORGE DR., Boxford MA	\$ 21,525.00	STRIP AND REPLACE SIDING ON BACK OF GARAGE & REPLACE SPECIFIED AREAS OF TRIM WITH PVC
B-23-1	Building Permit	Payment Due	\$ 2,275.00	Credit Card	Francis Hebb	5/24/2023 23:10	05 01 21	62 LAKE SHORE RD., Boxford MA 0	\$ 175,000.00	Interior renovation and 2nd floor addition
B-23-1	Building Permit	Payment Due	\$ 936.00	Check	David Pleazio	5/11/2023 20:13	11 01 03	24 DEER RUN RD., Boxford MA 019	\$ 71,169.94	Install 18.9KW DC (45 Panels) rooftop solar array
B-23-1	Building Permit	Payment Due	\$ 150.00	Check	Douglas McMillan	5/10/2023 19:09	32 01 07	6 MILL RD., Boxford MA 01921	\$ 12,600.00	Demolition and disposal of inground gunite pool and spa & concrete deck
B-23-1	Building Permit	Payment Due	\$ 2,915.00	Check	Antonio Fortunato	5/10/2023 13:46		38 Ingalls Village Way., Boxford M	\$ 224,160.00	New construction of a 2 bedroom, 2.5 bath townhome with unfinished basement
B-23-1	Building Permit	Payment Due	\$ 3,938.00	Check	Antonio Fortunato	5/10/2023 13:46		36 INGALLS VILLAGE WAY., BOXFOI	\$ 302,880.00	New construction of a 2 bedroom, 2.5 bath town home with unfinished basement
B-23-1	Building Permit	Payment Due	\$ 1,707.00	Check	David Pleazio	5/10/2023 13:12		452 IPSWICH RD., Boxford MA 019	\$ 131,280.00	Finished the basement per plans
B-23-1	Building Permit	Payment Due	\$ 767.00	Check	Nathan Ashe	5/10/2023 12:21	13 02 04	452 IPSWICH RD., Boxford MA 0192	\$ 26,800.00	Installation of an interconnected rooftop PV system 38 Panels 14.25 KW DC
B-23-1	Building Permit	Payment Due	\$ 348.40	Credit Card	David Pleazio	5/9/2023 18:06	25 05 22	47C POND ST., Boxford MA 01921	\$ 41,938.00	Reinforce structural beams
B-23-1	Building Permit	Payment Due	\$ 545.19	Credit Card	Louis DeGeorge	5/10/2023 16:55	14 01 19	2 HIGHLAND RD., Boxford MA 019	\$ 10,000.00	Replace deck with smaller size deck.
B-23-1	Building Permit	Payment Due	\$ 130.00	Credit Card	Michael Gaudreau	5/9/2023 19:07	26 03 17	24 ROWLEY RD., Boxford MA 0192	\$ 15,575.00	strip and replace specified defective Hardie Siding
B-23-1	Building Permit	Payment Due	\$ 202.48	Credit Card	Brian Dobbins	5/8/2023 16:45	02 02 13	61A OAK RIDGE RD., Boxford MA 0	\$ 454,440.00	New construction of a 2 bedroom, 2.5 bath town home with finished basement
B-23-1	Building Permit	Payment Due	\$ 5,908.00	Check	Antonio Fortunato	5/8/2023 12:55		82 Ingalls Village Way., Boxford M	\$ 22,036.00	Rebuild chimney, take down to the flashing and rebuild to meet code height abc
B-23-1	Building Permit	Payment Due	\$ 286.47	Credit Card	Dave Bancroft	5/5/2023 19:11	09 01 17	1738&C WASHINGTON ST., Boxfor	\$ 409,920.00	New construction of a 2 bedroom, 2.5 bath townhome with finished basement
B-23-1	Building Permit	Payment Due	\$ 5,329.00	Check	Antonio Fortunato	5/4/2023 20:21		84 Ingalls Village Way., Boxford M	\$ 321,960.00	New construction of a 2 bedroom, 2.5 bath townhome with unfinished basement
B-23-1	Building Permit	Payment Due	\$ 4,186.00	Check	Antonio Fortunato	5/4/2023 20:03		44 Ingalls Village Way., Boxford M	\$ 284,280.00	New construction of a 2 bedroom, 2.5 bath townhome with unfinished basement
B-23-1	Building Permit	Payment Due	\$ 3,696.00	Check	Antonio Fortunato	5/4/2023 19:40		46 Ingalls Village Way., Boxford M	\$ 16,500.00	Taking down existing deck and building same layout. Deck is 19'x25' and 8" off ground
B-23-1	Building Permit	Payment Due	\$ 214.50	Check	Thiago Ribeiro	5/3/2023 18:36	20 02 01	6 TRASK RD., Boxford MA 01921	\$ 28,429.47	Roof Mounted PV Solar Panels- 8,000KW- 20 Panels - 100A- No Battery
B-23-1	Building Permit	Payment Due	\$ 369.59	Credit Card	Daniel Rubin	5/3/2023 15:44	13 02 15	473 MAIN ST., Boxford MA 01921	\$ 3,220.00	Screen Porch
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	Beverly M Small	5/2/2023 21:57	38 03 29	37 ANDREWS FARM RD., Boxford h	\$ 14,700.00	Rooftop addition of 20 (390w) panels, 7.8KWdc, No ESS, No structural changes required.
B-23-1	Building Permit	Payment Due	\$ 191.10	Check	Sunrun Installation Ser	5/2/2023 19:07	42 01 21	370 MIDDLETON RD., Boxford MA	\$ 169,900.00	Rebuild rear deck in like configuration. Replace existing sliding door. Install 5 new windows, replace roof
B-23-1	Building Permit	Payment Due	\$ 2,008.00	Check	Christopher Monaco	5/2/2023 14:03	16 01 10	153 KILLAM HILL RD., Boxford MA	\$ 118,600.00	0
B-23-1	Building Permit	Payment Due	\$ 1,541.80	Check	Gary Tallaksen	5/1/2023 13:11	26 03 04	15 IPSWICH RD., Boxford MA 0192	\$ 4,100.00	Air Seal Attic/BasementBlown Cellulose Attic Bring to R-60Weather Strip DoorsInstall Attic Ventilation
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	Eric Palm	5/31/2023 21:25	38 03 23	33E ANDREWS FARM RD., Boxford	\$ 8,000.00	replace decking material
B-23-2	Building Permit	Payment Due	\$ 85.00	Credit Card	Linda Balek	5/30/2023 20:17	27 02 21	28 BROOKVIEW RD., Boxford MA	\$ 346.44	Insulation, Weatherization, and Air Sealing
B-23-2	Building Permit	Payment Due	\$ 85.00	Credit Card	James Dimopoulos	5/24/2023 17:51	06 01 31	31 WASHINGTON ST., Boxford MA	\$ 21,375.00	strip and reroof
B-23-2	Building Permit	Payment Due	\$ 277.88	Credit Card	James debrecceni	5/24/2023 19:25	05 01 21	694A MAIN ST., Boxford MA 01921	\$ 16,978.00	REMOVE & REPLACE 5 WINDOWS, LIKE SIZES, NO STRUCTURAL WORK
B-23-2	Building Permit	Payment Due	\$ 220.71	Credit Card	JAIME MORIN	5/23/2023 19:31	34 01 30	74 SURREY LANE., Boxford MA 019	\$ 177,911.70	Remove existing siding, fascia & trim on main house and barn and replace with James Hardie fiber cement
B-23-2	Building Permit	Payment Due	\$ 2,312.86	Credit Card	Peter Clarsild	5/26/2023 15:13	11 01 03	24 DEER RUN RD., Boxford MA 019	\$ 8,200.00	Mass Save Weatherization and airsealing
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	Mark Vialpando	5/19/2023 17:59	41 01 01	8 ENDICOTT RD., Boxford MA 0192	\$ 9,500.00	Strip Existing asphalt shingles and Re-roof.
B-23-1	Building Permit	Payment Due	\$ 123.50	Credit Card	Shawn Butler	5/22/2023 3:16	24 03 04	10 COLD SPRING DR., Boxford MA C	\$ 4,024.00	Insulation, Weatherization, and Air Sealing
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	James Dimopoulos	5/18/2023 18:17	24 04 09	57 HIGH RIDGE RD., Boxford MA 01	\$ 4,206.25	Insulation, Weatherization, and Air Sealing
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	James Dimopoulos	5/18/2023 17:13	25 02 07	138 IPSWICH RD., Boxford MA 019	\$ 14,500.00	re-roof house
B-23-1	Building Permit	Payment Due	\$ 188.50	Credit Card	Nathaniel Terenzoni	5/18/2023 15:51	34 01 56	4 LONG HILL., Boxford MA 01921	\$ 1,010.95	insulation, Weatherization, and Air Sealing
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	James Dimopoulos	5/18/2023 14:39	14 02 11	375 IPSWICH RD., Boxford MA 019	\$ 10,000.00	Roofing with strip weathering done in 2019- removing and installing new
B-23-1	Building Permit	Payment Due	\$ 430.00	Credit Card	Claudia Lopez	5/16/2023 16:34	10 01 17	111 WASHINGTON ST., Boxford M	\$ 1,709.48	Insulation, Weatherization, and Air Sealing
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	James Dimopoulos	5/16/2023 15:44	11 02 07	162 SPOFFORD RD., Boxford MA 01	\$ 5,000.00	Insulate 2 Kitchen Walls approximately 240 Sq FtPlaster 2 walls approximately 240 Sq Ftinstall stove hood throu
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	David Lamm	5/15/2023 15:39	11 02 26	26 PINE PLAIN RD., Boxford MA 01	\$ 1,972.62	REMOVE/REPLACE 2 EXISTING WINDOWS. NO STRUCTURAL WORK BEING DONE.
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	Richard Chalone	5/15/2023 22:25	11 02 06	30 PARTURIDGE LN., Boxford MA 01	\$ 9,000.00	INSTALLATION OF (9) REPLACEMENT WINDOWS
B-23-1	Building Permit	Payment Due	\$ 117.00	Credit Card	MANUEL D VASCONCE	5/13/2023 17:17	24 01 02	18 KELSEY RD., Boxford MA 01921	\$ 41,264.00	Remove and replace 13 windows. Similar size like structure
B-23-1	Building Permit	Payment Due	\$ 536.43	Credit Card	JAIME MORIN	5/10/2023 18:14	25 04 01	694B MAIN ST., Boxford MA 01921	\$ 22,000.00	Install 27 squares of roofing material - no structural work
B-23-1	Building Permit	Payment Due	\$ 286.00	Credit Card	Manuel Vasconcelos	5/15/2023 13:05	05 02 32	34 Arrowhead Farm Road., Boxfor	\$ 45,675.00	replace windows and window trim
B-23-1	Building Permit	Payment Due	\$ 593.78	Check	Gary Tallaksen	5/10/2023 15:52		77 TOWNSEND FARM RD., Boxford	\$ 32,000.00	Installing 6 new construction windows in existing openings
B-23-1	Building Permit	Payment Due	\$ 416.00	Credit Card	SHAWN ARSENAULT	5/9/2023 15:27	32 04 09	14 PINE PLAIN RD., Boxford MA 01	\$ 17,950.00	STRIP AND REPLACE ROOF WITH ARCHITECTURAL SHINGLES
B-23-1	Building Permit	Payment Due	\$ 233.35	Credit Card	Brian Dobbins	5/8/2023 17:16	11 02 33	107 King George Dr., Boxford MA 019	\$ 16,950.00	REMOVE AND REPLACE 7 SKYLIGHTS - SPECS ATTACHED
B-23-1	Building Permit	Payment Due	\$ 220.35	Credit Card	Brian Dobbins	5/8/2023 17:02	25 01 12	106 IPSWICH RD., Boxford MA	\$ 9,470.00	REMOVE & REPLACE 1 ENTRY DOOR & 1 STORM DOOR, LIKE SIZE, NO STRUCTURAL WORK
B-23-1	Building Permit	Payment Due	\$ 123.11	Credit Card	JAIME MORIN	5/8/2023 14:47	13 01 09	2 WOOD HILL LN., Boxford MA 019	\$ 5,000.00	Roofer will strip existing rubber roof material, install 1/2" 4x8 sheets of waterproof fiberboard over roof deck
B-23-1	Building Permit	Payment Due	\$ 85.00	Check	Scott Doughman	5/8/2023 14:22	27 01 29	65 LAWRENCE RD., Boxford MA 01	\$ 15,668.00	PERMIT REF # 17-220-A REMOVE AND REPLACE 11 WINDOWS, SAME SIZE, LIKE W/LIKE NO STRUCTURAL CHANGES
B-23-1	Building Permit	Payment Due	\$ 210.72	Credit Card	Scott Doughman	5/5/2023 14:11	27 01 29	65 LAWRENCE RD., Boxford MA 01	\$ 16,209.00	REAPPLY - #20-078 - REMOVE AND REPLACE 9 WINDOWS - SAME SIZE, LIKE W/LIKE, NO STRUCTURAL CHANGES
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	James Cranin	5/4/2023 14:16	25 03 24	3 CHAPMAN WAY., Boxford MA 01	\$ 5,312.00	Insulating attic with blown in cellulose
B-23-1	Building Permit	Payment Due	\$ 211.58	Credit Card	JAIME MORIN	5/3/2023 20:44	16 01 17	99 KING GEORGE DR., Boxford MA	\$ 16,275.00	REMOVE & REPLACE 1 WINDOW & 2 ENTRY DOORS LIKE SIZE NO STRUCTURAL WORK
B-23-1	Building Permit	Payment Due	\$ 85.00	Credit Card	James Fortin	5/3/2023 16:58	20 07 06	72 KING GEORGE DR., Boxford MA	\$ 6,200.00	Air sealing; weatherization; insulating attic
B-23-1	Building Permit	Payment Due	\$ 402.00	Credit Card	David Arrowsmith	5/3/2023 13:06	27 02 09	6 LAWRENCE RD., Boxford MA 019	\$ 15,187.00	replacing 13 squares of roof on the home
B-23-1	Building Permit	Payment Due	\$ 213.20	Credit Card	Tom Gordon	5/2/2023 13:38	20 05 30	2 KING GEORGE DR., Boxford MA	\$ 16,400.00	trip roof and gutters. Install new shingle roof and gutters
B-23-1	Building Permit	Payment Due	\$ 241.00	Credit Card	Felix Tenaglia	5/2/2023 18:03	41 01 01	8 ENDICOTT RD., Boxford MA 0192	\$ 11,700.00	DUCTLESS 15,000btu SINGLE HEAD UNIT FAMILY ROOM, ADD UNIT TO EXISTING HEATING SYSTEM
M-23-1	Mechanical / Sh Permit Fee		\$ 358.00	Credit Card	ALLAN BERRY	5/9/2023 20:19	05 02 12	715 MAIN ST., Boxford MA 01921	\$ 20,200.00	INSTALLATION OF LG DUCTLESS TO HOME (LMU30CHV, LSN090HSVS-2, LS180HSVS, LMN120HSVT)
M-23-1	Mechanical / Sh Permit Fee		\$ 462.00	Credit Card	ALLAN BERRY	5/9/2023 18:26	14 02 44	61A HIGHLAND RD., Boxford MA 0	\$ 28,300.00	INSTALLATION OF 2 LG DUCTLESS UNITS WITH 6 INDOOR HEAD UNITS (LMU24HV - 2, LSN120HSVS - 2, LSN090HSVS - 1, LMN079HVT - 3)
M-23-1	Mechanical / Sh Permit Fee		\$ 488.00	Credit Card	ALLAN BERRY	5/11/2023 21:11	29 01 22	45 BOREN LN., Boxford MA 01921	\$ 30,200.00	REPLACE EXISTING AIR HANDLER WITH A BOSCH (BVA-60W1N1-M20), ZONING, AND ADDING SOME DUCTWORK
M-23-1	Mechanical / Sh Permit Fee		\$ 85.00	Check	Nicholas Tully	5/1/2023 16:35	24 04 09	126 HIGH RIDGE RD., Boxford MA C	\$ 4,000.00	New generator in ground
			\$ 57,645.14						\$ 4,341,870.93	

MAY 2023 ELECTRICAL PERMITS

Record	Record Type Label	Amount	Payment Method	Applicant	Date Submitted	Mbl	Location	Valuation	Project Description
E-23-1	Electrical Per Permit Fee	\$85.00	Check	Jeffrey Marinelli	5/31/2023 18:45	25 05	47C POND ST., Boxford MA 0	\$30,851.62	installing rooftop railed solar PV of 12.775 KW and 35 modules. No ESS Installation
E-23-1	Electrical Per Permit Fee	\$109.50	Check	Michael Horrigan	5/23/2023 15:52	11 01	83 VALLEY RD., Boxford MA 0	\$3,000.00	Pool heater- 50 AMP
E-23-1	Electrical Per Permit Fee	\$113.00	Check	LEON ROY	5/18/2023 13:42	19 02	50 FOUR MILE VILLAGE, , Boxf	\$9,000.00	wiring of new water pump panel and associated controls
E-23-1	Electrical Per Permit Fee	\$95.00	Check	Christopher Vin	5/18/2023 13:31	22 02	361 MAIN ST., Boxford MA 0	\$2,500.00	garage addition add sub panel
E-23-1	Electrical Per Permit Fee	\$179.75	Check	David Picazio	5/11/2023 20:24	11 01	24 DEER RUN RD., Boxford M	\$47,444.63	Install 18.9kW DC (45 Panels) rooftop solar array with new main breaker
E-23-1	Electrical Per Permit Fee	\$150.50	Check	David Picazio	5/10/2023 12:47	13 02	452 IPSWICH RD., Boxford M	\$38,715.55	Install 14.58kW DC (36 panels) rooftop solar array
E-23-9	Electrical Per Permit Fee	\$85.00	Check	Sunrun Installat	5/2/2023 19:29	42 01	370 MIDDLETON RD., Boxfor	\$10,290.00	Rooftop Addition of Interconnected Solar PV array: 20 (390w) panels, 7.8 KWdc, No ESS, No structural changes required as per PE
E-23-9	Electrical Per Permit Fee	\$85.00	Check	Nicholas J Tully	5/1/2023 16:23	24 04	126 HIGH RIDGE RD., , Boxfor	\$4,000.00	install 20KW Generator & 200 AMP Ats. Install 6 recessed lights
E-23-1	Electrical Per Permit Fee	\$170.00	Credit Card	Jake Fredette	5/31/2023 16:05	21 01	68A ROWLEY RD., Boxford M	\$1,000.00	back of home generator install
E-23-1	Electrical Per Permit Fee	\$112.00	Credit Card	Antonio F Grieco	5/30/2023 21:53	14 01	125 SPOFFORD RD., , Boxford	\$1,200.00	reinstall after new Siding is installed
E-23-1	Electrical Per Permit Fee	\$85.00	Credit Card	Daniel Rubin	5/26/2023 15:30	30 01	64 PYE BROOK LN., Boxford h	\$39,077.82	roof mounted pv solar panels- 12.8Kw- 32 panels- 1 Inverter- 200A Main Panel
E-23-1	Electrical Per Permit Fee	\$138.75	Credit Card	John DiCenso	5/25/2023 23:12	19 03	38 BALDPATE RD., , Boxford M	\$5,000.00	wiring of new kitchen remodel
E-23-1	Electrical Per Permit Fee	\$164.75	Credit Card	RICHARD MAHC	5/31/2023 14:10	23 01	10 BENNETT RD., , Boxford MA	\$7,500.00	WIRE NEW REAR GARAGE/SHED
E-23-1	Electrical Per Permit Fee	\$170.00	Credit Card	Jason Hoover	5/22/2023 19:47	42 01	9 GINA WAY., Boxford MA 01	\$2,500.00	Standby Generator right side of home
E-23-1	Electrical Per Permit Fee	\$170.00	Credit Card	David Burnham	5/22/2023 2:21	10 02	8 WHITTIER TER., Boxford M/	\$500.00	Install propane 15kw stand by generator
E-23-1	Electrical Per Permit Fee	\$95.00	Credit Card	Normand Micha	5/20/2023 14:25	22 01	48 ANDERSEN DR., Boxford h	\$450.00	air condenser add. A condenser only
E-23-1	Electrical Per Permit Fee	\$95.00	Credit Card	Heritage Home	5/17/2023 14:23	19 03	11 MORNINGSIDE CIR., , Boxfc	\$1,229.00	furnace wiring in basement
E-23-1	Electrical Per Permit Fee	\$94.00	Credit Card	William Irvin	5/18/2023 18:32	25 04	18 KELSEY RD., , Boxford MA 0	\$800.00	Adding exterior lighting to garage
E-23-1	Electrical Per Permit Fee	\$95.00	Credit Card	Anthony Iuele	5/11/2023 17:58	21 01	10 CAMELOT DR., Boxford M.	\$2,500.00	Wire Heat Pump
E-23-1	Electrical Per Permit Fee	\$95.00	Credit Card	Anthony Humer	5/4/2023 19:09	23 02	16 BALMORAL RD., , Boxford h	\$4,000.00	wire inground pool
E-23-1	Electrical Per Payment D	\$109.50	Credit Card	Anthony Humer	5/4/2023 19:09	23 02	16 BALMORAL RD., , Boxford h	\$22,743.57	Roof Mounted PV Solar Panels- 8.000KW- 20 panels-100A- No Battery
E-23-9	Electrical Per Permit Fee	\$170.00	Credit Card	Daniel Rubin	5/3/2023 16:07	13 02	473 MAIN ST., Boxford MA 0	\$1,600.00	Bathroom remodel
E-23-9	Electrical Per Permit Fee	\$98.50	Credit Card	Michael Ballou	5/3/2023 20:28	13 01	8 WOOD HILL LN., , Boxford M	\$2,500.00	Install 14kw Standby generator with 100 amp RXT ATS
E-23-9	Electrical Per Permit Fee	\$85.00	Credit Card	Nicholas J Tully	5/2/2023 18:04	05 01	98 LAKE SHORE RD., , Boxford	\$5,000.00	Rewire kitchen and bath
E-23-9	Electrical Per Permit Fee	\$141.75	Credit Card	Mike Chesley	5/2/2023 13:15	20 13	48 HILLSIDE RD., Boxford MA	\$5,341.00	Wire Laundry/Bathroom/Hallway Remodel
E-23-1	Electrical Per Permit Fee	\$85.00	E-Check	James McCorm	5/23/2023 13:45	28 01	17 INVERNESS CIR., Boxford t	\$248,743.19	
		\$2,982.00							

MAY 2023 Plumbing Permits

Record #	Record Type	Label	Amount	Payment Method	Applicant	Date Submitted
P-23-13	Plumbing Permit	Permit Fee	\$110.00	Credit Card	Justin Byors	5/30/2023 11:46
P-23-12	Plumbing Permit	Permit Fee	\$110.00	Check	alan freeman	5/24/2023 0:02
P-23-11	Plumbing Permit	Permit Fee	\$168.00	Credit Card	Richard Hackett	5/11/2023 17:03
P-23-10	Plumbing Permit	Permit Fee	\$105.00	Credit Card	Andrew Larson	5/10/2023 16:30
			\$493.00			

MAY 2023 GAS PERMITS

Record #	Record Type	Label	Amount	Payment Method	Applicant	Date Submitted	Mbl	Location	Valuation
G-23-61	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Joseph Buresh	5/31/2023 16:19	21 01 17	68A ROWLEY RD, , Boxford MA 01921	\$1,000.00
G-23-59	Gas Fitter Permit	Permit Fee	\$170.00	Credit Card	Edward Lamphier	5/23/2023 12:24	10 02 33	8 WHITTIER TER, , Boxford MA 01921	\$2,500.00
G-23-60	Gas Fitter Permit	Permit Fee	\$85.00	Check	alan freeman	5/23/2023 23:59	19 03 18	38 BALDPATE RD, , Boxford MA 01921	\$2,000.00
G-23-58	Gas Fitter Permit	Permit Fee	\$170.00	Credit Card	Heritage Home Service	5/17/2023 14:33	19 03 16	11 MORNINGSIDE CIR, , Boxford MA 01921	\$16,416.00
G-23-57	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Thomas Doherty	5/17/2023 14:16		23-25 Ingalls Village Way, , Boxford MA 01921	\$100.00
G-23-56	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Thomas Doherty	5/17/2023 13:43		2 & 4 Hope Ln, , Boxford MA 01921	\$100.00
G-23-55	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Thomas Doherty	5/15/2023 19:15		14 Ingalls Village Way, , Boxford MA 01921	\$100.00
G-23-54	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Thomas Doherty	5/15/2023 19:08		8 & 10 Ingalls Village Way, , Boxford MA 01921	\$100.00
G-23-53	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Thomas Doherty	5/15/2023 19:01		7 Ingalls Village Way, , Boxford MA 01921	\$100.00
G-23-52	Gas Fitter Permit	Permit Fee	\$85.00	Credit Card	Christopher Nardone	5/11/2023 23:58		44 Great Pond Drive, , Boxford MA 01921	\$1,000.00
G-23-51	Gas Fitter Permit	Permit Fee	\$114.00	Credit Card	Richard Hackett	5/11/2023 17:22	15 02 06	49 BALDPATE RD, , Boxford MA 01921	\$5,250.00
G-23-50	Gas Fitter Permit	Permit Fee	\$170.00	Credit Card	Greg Belleville	5/11/2023 16:55	05 01 15	98 LAKE SHORE RD, , Boxford MA 01921	\$1.00
G-23-47	Gas Fitter Permit	Permit Fee	\$90.00	Check	Greg Belleville	5/2/2023 14:35	24 04 09	126 HIGH RIDGE RD, , Boxford MA 01921	\$1,000.00
			\$1,394.00						\$29,667.00

From: [Apitz, Richard P. \(DOT\)](#)
To: [Christopher Olbrot](#)
Cc: [Noel, Brian J. \(DOT\)](#); [Fedele, Mark D. \(DOT\)](#); [Lavallee, Jeffrey M. \(DOT\)](#); [Matt Coogan](#); [Brendan Sweeney](#); [James Riter](#); [Brian Geiger](#)
Subject: RE: Lockwood Lane and Bare Hill Road Bridge Preservation
Date: Monday, June 12, 2023 1:12:01 PM
Attachments: [image001.png](#)

External Sender

Chris,

MassDOT and SPS are planning to close the Lockwood Lane Bridge on June 26th and work at Bare Hill Road should start shortly after that. The contractor should be lighting up the message boards on Lockwood Lane later today. We have the biweekly progress meeting this coming Wednesday at 10 AM, you are welcome to join in the meeting. If there are any questions or concerns please don't hesitate to reach out.

Thank You,
Ricky
617.429.2550

From: Apitz, Richard P. (DOT)
Sent: Monday, June 5, 2023 2:10 PM
To: Christopher Olbrot <colbrot@town.boxford.ma.us>
Cc: Noel, Brian J. (DOT) <Brian.Noel@dot.state.ma.us>; Fedele, Mark D. (DOT) <Mark.Fedele@dot.state.ma.us>; Lavallee, Jeffrey M. (DOT) <Jeffrey.Lavallee@dot.state.ma.us>; Matt Coogan <mcoogan@town.boxford.ma.us>; Brendan Sweeney <bsweeney@town.boxford.ma.us>; JRiter <JRiter@town.boxford.ma.us>; Brian Geiger <bgeiger@town.boxford.ma.us>
Subject: RE: Lockwood Lane and Bare Hill Road Bridge Preservation

Chris,

Please find attached the Traffic Management Plans for Lockwood Lane and Bare Hill Road.

Lockwood Lane will be a full closure with detour and Bare Hill Road will be phase construction with alternating traffic and temp traffic lights at each end of the bridge.

The contractor has requested a June 19th start for Lockwood Lane, but that date is not looking realistic right now. We will let you know more as we know more.

Ricky

From: Christopher Olbrot <colbrot@town.boxford.ma.us>
Sent: Monday, June 5, 2023 1:53 PM
To: Apitz, Richard P. (DOT) <Richard.Apitz@dot.state.ma.us>

Cc: Noel, Brian J. (DOT) <Brian.Noel@dot.state.ma.us>; Fedele, Mark D. (DOT) <Mark.Fedele@dot.state.ma.us>; Lavallee, Jeffrey M. (DOT) <Jeffrey.Lavallee@dot.state.ma.us>; Matt Coogan <mcoogan@town.boxford.ma.us>; Brendan Sweeney <bsweeney@town.boxford.ma.us>; JRiter <JRiter@town.boxford.ma.us>; Brian Geiger <bgeiger@town.boxford.ma.us>

Subject: RE: Lockwood Lane and Bare Hill Road Bridge Preservation

CAUTION: This email originated from a sender outside of the Commonwealth of Massachusetts mail system. Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Thanks Ricky,
Ill pass this along to people here.

Do you know if they plan on shutting down the roads for any portion of this work? If so can you tell me when that might be (roughly) and as we get closer to the work we can post it for extra outreach.

Thanks,
Chris

Chris Olbrot, PE

DPW Superintendent & Town Engineer

Town of Boxford
7B Spofford Rd
Boxford, MA 01921
(p) 978-352-6555
(f) 978-352-5558



Town of
Boxford
Massachusetts

From: Apitz, Richard P. (DOT) <richard.apitz@state.ma.us>

Sent: Monday, June 5, 2023 1:02 PM

To: Christopher Olbrot <colbrot@town.boxford.ma.us>

Cc: Noel, Brian J. (DOT) <brian.noel@state.ma.us>; Fedele, Mark D. (DOT) <mark.fedele@state.ma.us>; Lavallee, Jeffrey M. (DOT) <jeffrey.lavallee@state.ma.us>

Subject: Lockwood Lane and Bare Hill Road Bridge Preservation

External Sender

Hi Chris,

The contractor plans to start installing the posts for construction signs Wednesday – Thursday of this week in the areas of Lockwood Lane and Bare Hill Road. They also plan to be bringing out VMS boards as early as today around Lockwood Lane and will add a message when they lock down a start date for Lockwood Lane. Please feel free to reach out if you have any questions.

Thank You,
Ricky

Richard Apitz
MassDOT - District 4 Construction
617.429.2550
Richard.Apitz@dot.state.ma.us

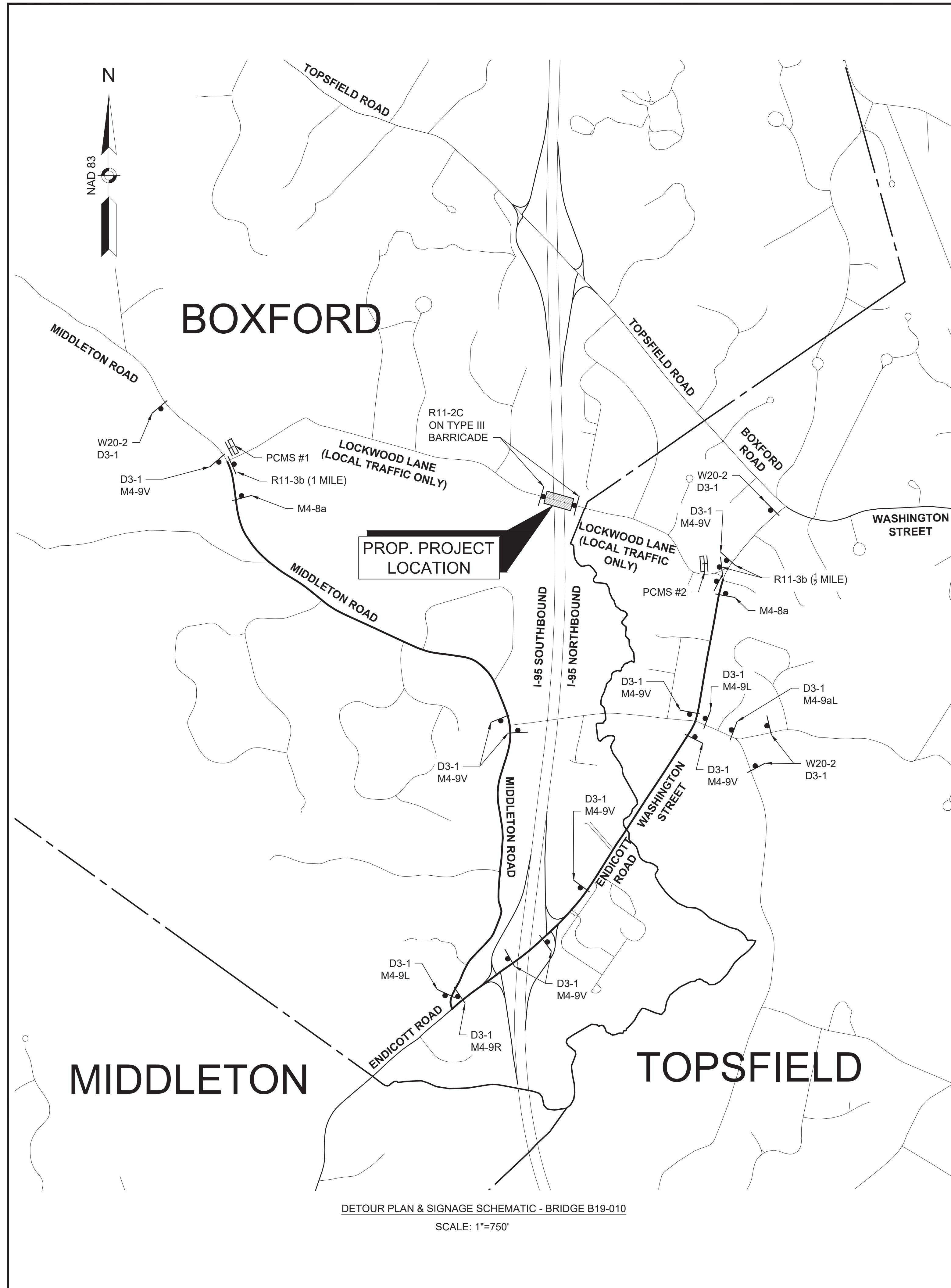
**BOXFORD-MERRIMAC-PEABODY
I-95 AND I-495 CORRIDORS**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	50	74
PROJECT FILE NO.		613004	

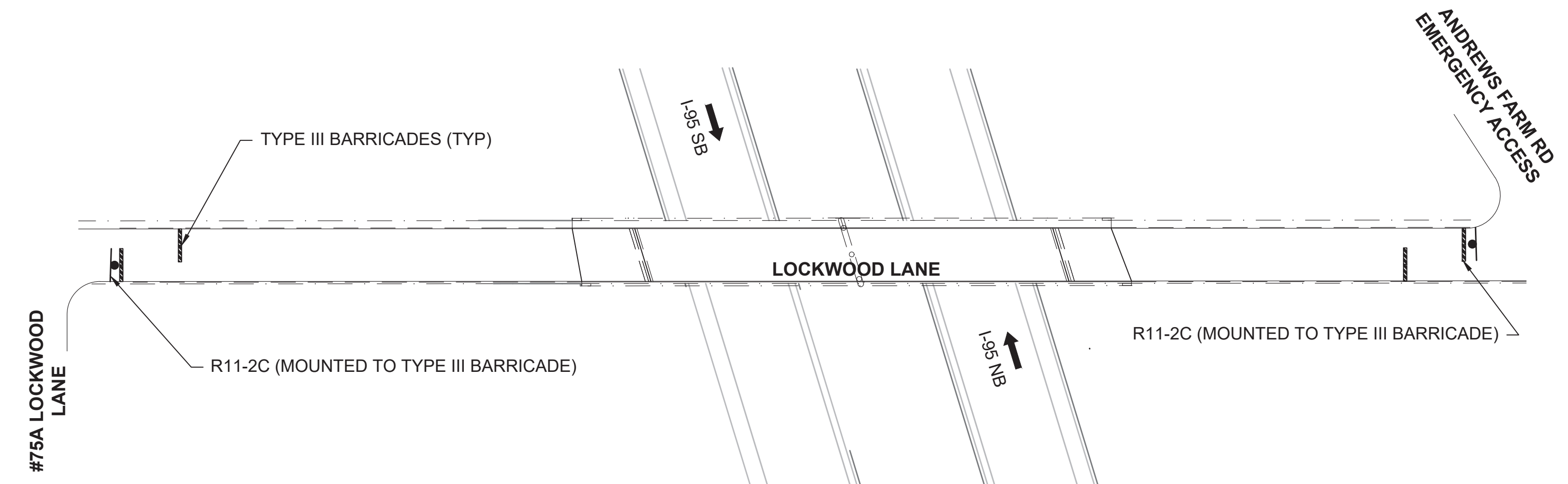
**TEMPORARY TRAFFIC CONTROL PLANS
B-19-010 TTCP (1 OF 3)**

BRIDGE B-19-010 TOPSIDE DETOUR NOTES:

1. ALL DETOURS ARE ESTABLISHED FOR 24-HOURS A DAY. TEMPORARY DETOUR SIGNING, BARRICADES, AND ALL OTHER NECESSARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR DETOUR OF TRAFFIC.
2. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE IN PLACE 14 DAYS PRIOR TO THE INITIATION OF THE DETOUR.
3. REFER TO GENERAL TEMPORARY TRAFFIC CONTROL NOTES ON SHEETS 48 THROUGH 49 FOR ADDITIONAL INFORMATION.



DETOUR PLAN & SIGNAGE SCHEMATIC - BRIDGE B19-010
SCALE: 1"=750'



BRIDGE CLOSURE SET-UP - BRIDGE B-19-010
SCALE: 1"=60'

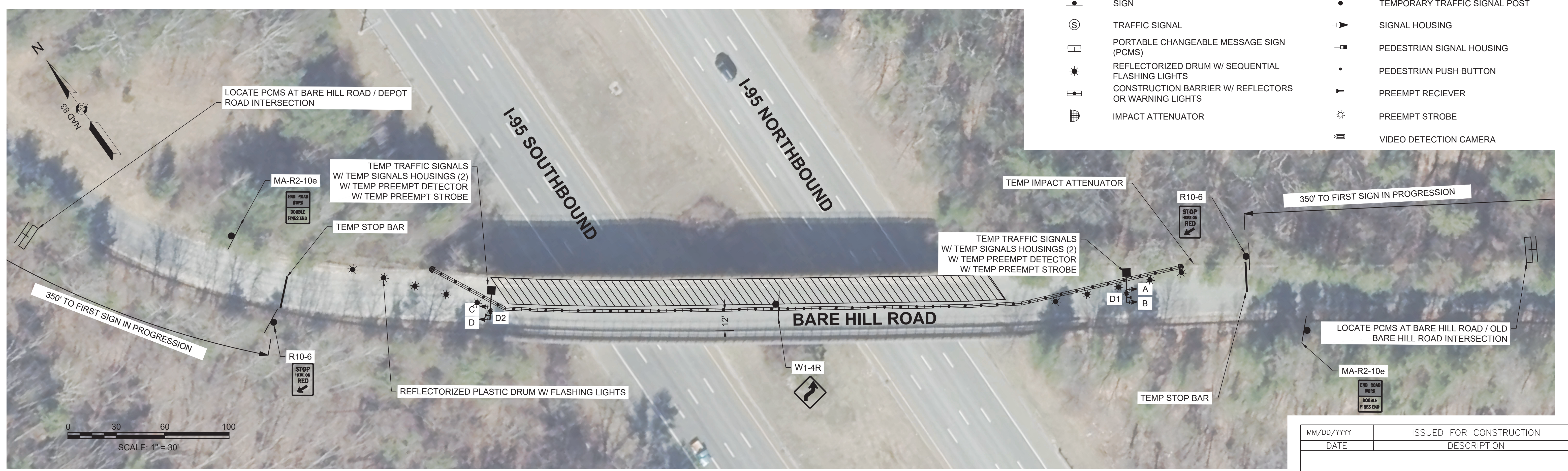
TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- DIRECTION OF TRAVEL
- SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION BARRIER
- TYPE III BARRICADES

MM/DD/YYYY	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	



PHASE 1 - ONE LANE ALTERNATING TRAFFIC WITH TEMPORARY TRAFFIC SIGNAL
SCALE: 1" = 30'



PHASE 2 - ONE LANE ALTERNATING TRAFFIC WITH TEMPOARY TRAFFIC SIGNAL
SCALE: 1" = 30'

TEMPORARY TRAFFIC CONTROL LEGEND

	WORK ZONE		PORTABLE TRAFFIC SIGNAL W/ MAST ARM
	SIGN		TEMPORARY TRAFFIC SIGNAL POST
	TRAFFIC SIGNAL		SIGNAL HOUSING
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)		PEDESTRIAN SIGNAL HOUSING
	REFLECTORIZED DRUM W/ SEQUENTIAL FLASHING LIGHTS		PEDESTRIAN PUSH BUTTON
	CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS		PREEMPT RECIEVER
	IMPACT ATTENUATOR		PREEMPT STROBE
			VIDEO DETECTION CAMERA

MM/DD/YYYY	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	



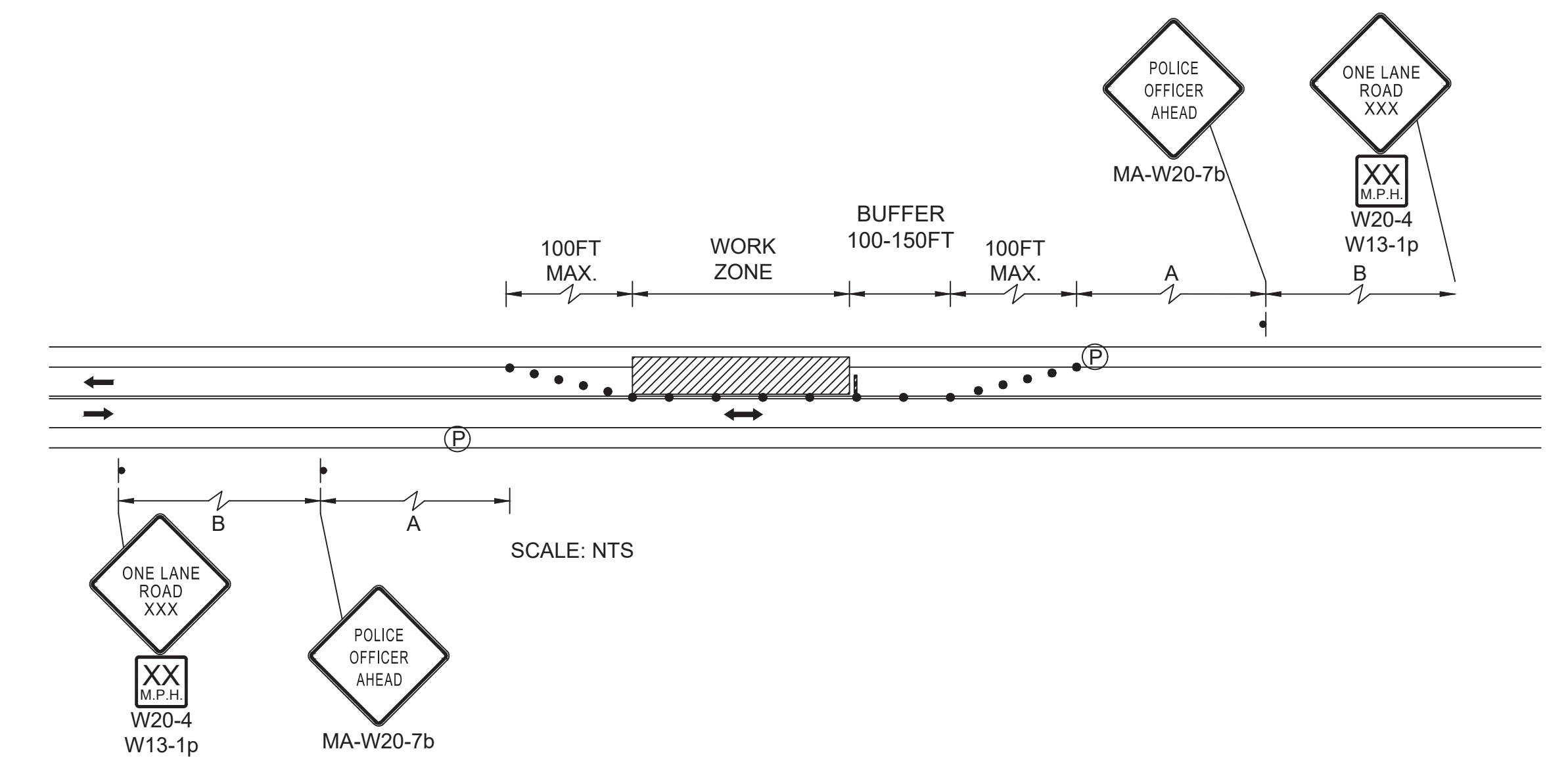
ADVANCED SIGNAGE SCHEMATIC FOR PHASE 1 & PHASE 2 (TEMPORARY TRAFFIC SIGNAL)
SCALE: 1" = 300'

BRIDGE B-19-012 TOPSIDE GENERAL NOTES:

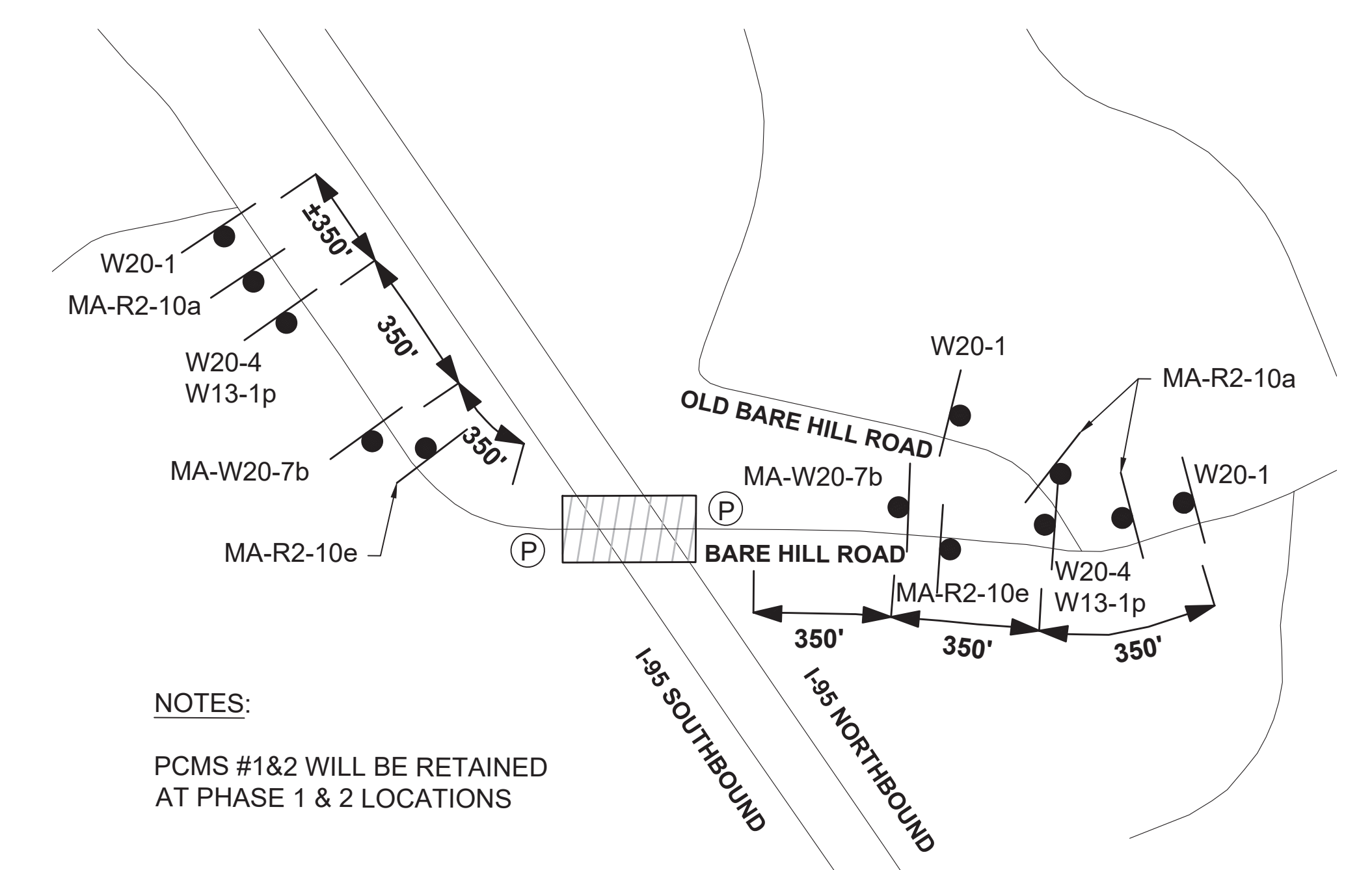
- ALL WORK ZONES FOR PHASE 1 AND 2 ARE ESTABLISHED FOR 24-HOURS A DAY DURING THE DURATION OF THE STAGE. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- ALL WORK ZONES FOR PHASE 3 ARE ESTABLISHED FROM 5:00 AM TO 7:00 PM (AS NEEDED) DURING THE DURATION OF THE STAGE. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- PHASE 3 SET UP SHALL BE UTILIZED FOR ANY SHOULDER / GUARDRAIL WORK THAT EXTENDS BEYOND THE PHASE 1 AND PHASE 2 BRIDGE REPAIR LIMITS. PHASE 3 SHALL NOT BE INSTALLED IN CONJUNCTION WITH PHASE 1 OR PHASE 2.
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE IN PLACE 14 DAYS PRIOR TO THE INITIATION OF WORK.
- ALL DRUMS AND/OR CONES SHALL BE SET @ 20' O.C. MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- REFER TO ADDITIONAL PROJECT WIDE GENERAL NOTES ON SHEETS 48 THROUGH 49.

TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- DIRECTION OF TRAVEL
- SIGN
- POLICE DETAIL
- TRAFFIC SIGNAL
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



**PHASE 3 - ONE LANE ALTERNATING TRAFFIC WITH POLICE DETAIL
FOR GUARDRAIL RELATED WORK**
SCALE: NTS



ADVANCED SIGNAGE SCHEMATIC FOR PHASE 3
SCALE: 1" = 300'

NOTES:

PCMS #1&2 WILL BE RETAINED AT PHASE 1 & 2 LOCATIONS

MM/DD/YYYY	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

A00803 - 56

613004_BR63-57(BAREHILLTMP)DWG Plotted on 23-Dec-2022 2:18 PM Proposal No. 613004-121027 12-23-2022 PS&E Submittal (613004)



TOWN OF BOXFORD
MASSACHUSETTS
01921

OFFICE OF THE CONSERVATION COMMISSION

June 5, 2023

Chair Barbara Jessel
Town of Boxford Select Board
7A Spofford Road
Boxford, MA 01921

Re: Recommendation for Attny Karen C. Troake to be appointed to the Boxford Conservation Commission

Dear Chair Jessel and Members of the Board,

At a meeting held June 1, 2023 the Boxford Conservation Commission interviewed Attny Karen C. Troake for membership on the Commission and subsequently voted unanimously to recommend to the Select Board that Attny Troake be appointed to the Commission.

Sincerely,

Ross Povenmire

KAREN COLLARI TROAKE
51 Topsfield Road, Boxford, MA 01921
E-mail: kcollaritroake@gmail.com
M: (617) 648-6368

Sent via E-mail

May 16, 2023

Ross Povenmire
Director
Conservation Commission
Boxford, MA
E-mail: rpovenmire@town.boxford.ma.us

Natasha Grigg
Board Member
Conservation Commission
Boxford, MA
E-mail: mymol@aol.com

Re: Expression of Interest in Board Member Vacancy, Boxford Conservation Commission

Dear Ross and Natasha,

I am writing to express my interest in joining the Boxford Conservation Commission as a Board Member. My husband, Julian, and I have lived in Boxford for over 20 years. We have raised our children here. Henry is a rising junior at Boston College and Caroline is finishing her junior year at Masco. The open spaces, conservation land, and walking trails in Boxford are one of the reasons we chose to live in Boxford and remained here to raise our family.

I have attached my resume for your review and consideration. As you will see, I have been a practicing attorney for over 25 years, both in private practice and as an in-house attorney at a biotech company. My legal experience aligns well with the responsibilities of the Commission in that as a litigator and an in-house attorney I was required to apply statutes, regulations, and case law to various factual patterns to advocate for, as well as advise my clients.

I would be happy to discuss my interest and qualifications with the Commission if that would be helpful.

Regards,

Karen Collari Troake

KAREN COLLARI TROAKE

51 Topsfield Road, Boxford, MA 01921

E-mail: kcollaritroake@gmail.com

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LEGAL EXPERIENCE

EMD Millipore Corporation, MilliporeSigma, Burlington, MA

Assistant General Counsel (January 2008-August 2011)

Contract Attorney (August 2011-present)

Primary areas of responsibility:

- **Commercial.** Provide legal advice and support on all aspects of commercial agreements and activities worldwide for Life Science division, including product defect and recall related issues, global supply agreements, joint development agreements, quality agreements, service agreements, license agreements, construction contracts, leases, solar panel installation agreements, OEM agreements, and integration support related to acquisitions.
- **Employee benefits.** Provide legal advice and support on all aspects of employee benefit and retirement plans, equity awards, compensation, nonqualified deferred compensation plans, and self-insured medical benefits.
- **Litigation/Dispute Resolution.** Provide legal advice to, support, oversee, and manage outside counsel handling various commercial disputes, including a successful ICC arbitration in London, England with former distributor, and an EPA matter in Ireland.
- **Compliance.** Ensure business teams' compliance with applicable ERISA and IRS regulations regarding employee benefit and retirement plans, as well as monitoring activity on existing environmental actions.

Choate, Hall & Stewart, Boston, MA

Partner, Litigation Department (September 1995-August 1997; July 2000-December 2007)

Responsible for all aspects of litigation matters involving major commercial disputes and white collar criminal litigation. Representative matters include:

- Successfully defended major insurance and financial services company in action to recover pre-payment penalty by borrower.
- Lead counsel for defendant in False Claims Act *qui tam* litigation.
- Assisted in defense of various public companies in securities fraud and shareholder derivative actions.
- Researched and drafted Petition for Certiorari and successful Brief on the Merits in *Bogan and Roderick v. Scott-Harris*, 523 U.S. 44 (1998).

Allen & Overy, London, England

Associate (January 1998-May 2000)

Advised clients (both UK and non-UK companies) on all aspects of share option and other share incentive arrangements, UK employee taxation issues, and UK pensions, including in the context of national and multinational transactions. Representative matters include:

- Advised U.S. executive on both U.S. and UK compensation packages prior to executive's move to UK to become chief executive officer of public company.
- Advised public company on conversion of share option arrangements world-wide as part of takeovers.
- Advised large chemical company on pension aspects of world-wide disposition of business.

Chambers of the Honorable Paul Barbadoro

United States District Court for the District of NH, Concord, NH

Judicial Clerk (September 1994-August 1995)

OTHER EXPERIENCE

Parker River National Wildlife Refuge, Newburyport MA (current) – Plover Warden (Volunteer)

Community Giving Tree, Boxford, MA (2018-20) – Volunteer

Boxford Parent Teacher Organization, Boxford, MA (2011-16) – Board Member and Volunteer

Equality Commission of Massachusetts, Boston, MA (2007) – Boston Bar Association Representative

Professor Francine Sherman, Boston College Law School, Newton, MA (1992) – Research Assistant and Teaching Assistant

Support Committee for Battered Women, Waltham, MA (1991-92) – Volunteer

Hancock Software Inc., Watertown, MA (1990-92) – Office Manager

BAR ADMISSIONS

- Massachusetts State Bar
- United States District Court for the District of NH
- United States District Court for the District of MA

EDUCATION AND HONORS

Boston College Law School, Newton, MA, Juris Doctor (1994), *Magna Cum Laude*
Honors: Order of the Coif; *Boston College Law Review*, Executive Editor and Staff Writer.

College of the Holy Cross, Worcester, MA, Bachelor of Arts in Political Science (1989)
Honors: Honors Program; Pi Sigma Alpha (Political Science Honors Society); Alpha Sigma Nu (Jesuit National Honors Society); Scholastic All-American; Nominated for Outstanding Young Women of America.