



January 14, 2020

To Whom It May Concern:

There will be a Regular Meeting of the Board of Water Commissioners on Tuesday, January 21, 2020, 6:30 PM at the Water Treatment Plant, 1080 Terryville Avenue, Bristol, CT 06010.

Very truly yours,

A handwritten signature in black ink, appearing to read "Robert J. Longo".

Robert J. Longo
Superintendent

RJL/rl



AGENDA JANUARY 21, 2020

1. Pledge of Allegiance
2. Moment of Silence
3. Approval of the minutes of the December 17, 2019 Regular Board Meeting
4. Approval of the Department Reports for the Month of December 2019
5. Public Participation
6. Customer Complaints
7. Committee Reports:
 - A) Cell Tower Committee
 - B) Level A Mapping
8. Connwood Foresters, Inc. – Proposal for 2020/21 Watershed Forest Management Program
9. Investments
10. Water & Sewer Merger
11. Activity Report – Weston & Sampson Engineering
12. Chairwoman's Report
13. Superintendent's Report
14. Old Business
15. New Business
16. Adjournment

**BRISTOL WATER DEPARTMENT
DECEMBER 2019**

WATER BILLING

Water Bills rendered December 2019	<u>\$762,825.77</u>
Water Bills remaining unpaid as of December 2019	<u>\$331,454.24</u>

PRECIPITATION

For the Month	<u>7.64 "</u>	Normal	<u>3.40 "</u>	Departure from Normal	<u>4.24 "</u>
For the Year	<u>62.87 "</u>	Normal	<u>45.90 "</u>	Departure from Normal	<u>16.97 "</u>

RESERVOIR CAPACITY

Total Available Capacity - December 2019	<u>124,956,000</u>	Gallons	<u>97.75%</u>
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PRODUCTION

Monthly Production - December 2019	<u>143,071,660</u>	Gallons
Monthly Production - December 2018	<u>169,107,239</u>	Gallons

CASH STATEMENT

BALANCE:DEC 1, 2019	1,293,325.84
REVENUE:	
ACCOUNTS RECEIVABLE	772,875.51
SERVICE ACCOUNTS	(7,319.57)
FINES	5,000.00
SEWER ACCOUNTS	587,910.35
LIENS	2,917.09
PENALTIES	6,260.59
REMOVE METER	300.00
CLOSING COSTS	5,325.00
REINSTATE FEES	3,875.00
ASSESSMENTS	
ADMIN FEE/LIENS (WPC)	640.00
LAND LEASE	2,341.21
CELL TOWER LEASE	16,939.48
SCRAP METAL SALES	
TIMBER SALES	40,120.00
TRANSFER FROM GROVE/WOLCOTT	
TOTAL REVENUE:	1,437,184.66
TOTAL REVENUE SUPER NOW CHECKING ACCOUNT	1,437,184.66
DISBURSEMENTS (VOUCHERS):	612,437.29
TRANSFERS:	
SEWER TRANSFER (CASH OUT)	579,062.24
TRANSFER TO PROCUREMENT ACCOUNT	
TRANSFER TO GOALS ENABLING	
<u>ACCOUNT BALANCES:</u>	
SUPER NOW CHECKING ACCOUNT	
BALANCE: DEC 31 , 2019	1,539,010.97
GOALS ENABLING FUND	
BALANCE: DEC 31 , 2019	5,342,744.06
GROVE/OLD WOLCOTT TANKS	
BALANCE: DEC 31, 2019	304,911.55
CONSTRUCTION ACCOUNT	
BALANCE: DEC 1, 2019	58,179.00
DEPOSIT	2,323.00
DISBURSEMENTS	(3,893.50)
BALANCE: DEC 31, 2019	56,608.50
PAYROLL CASH ACCOUNT	
BALANCE: DEC 1, 2019	113,113.35
DEPOSIT	349,547.19
DISBURSEMENTS	(289,009.79)
BALANCE: DEC 31, 2019	173,650.75

2019 2020 BRISTOL WATER DEPARTMENT BUDGET											
Dec-19	APPROVED BUDGET	EXPENDED JULY	EXPENDED AUGUST	EXPENDED SEPTEMBER	EXPENDED OCTOBER	EXPENDED NOVEMBER	EXPENDED DECEMBER	EXPENDED TO DATE	%		
CLASSIFICATION	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020	2019 2020
SALARIES	\$ 2,563,771.00	\$159,599.50	\$192,565.69	\$161,923.80	\$268,116.62	\$181,646.95	\$269,393.53	\$1,233,246.09	48.10%		
FRINGE BENEFITS	\$ 1,447,394.00	\$107,571.10	\$110,343.23	\$108,839.86	\$109,202.78	\$112,759.80	\$115,435.75	\$664,152.52	45.89%		
OPERATING SERVICES	\$ 2,654,809.00	\$584,132.72	\$216,077.03	\$129,326.37	\$259,291.80	\$115,345.48	\$60,795.21	\$1,364,968.61	51.41%		
MATERIALS & SUPPLIES	\$ 859,305.00	\$532.10	\$89,036.03	\$130,823.66	\$79,099.30	\$86,096.45	\$68,741.35	\$454,328.89	52.87%		
CAPITAL OUTLAY	\$ 1,215,124.00	\$0.00	\$113,702.91	\$11,060.00	\$36,021.40	\$0.00	\$12,240.00	\$173,024.31	14.24%		
GRAND TOTAL	\$ 8,740,403.00	\$851,835.42	\$721,724.89	\$541,973.69	\$751,731.90	\$495,848.68	\$526,605.84	\$3,889,720.42	44.50%		
OPERATING SERVICES											
LIGHT & POWER	\$ 400,719.00		\$27,737.84	\$34,714.77	\$47,624.28	\$83,267.15	\$27,458.40	\$220,802.44	55.10%		
TELEPHONE	\$ 17,600.00	\$1,163.90	\$1,209.82	\$1,165.37	\$1,139.67	\$1,159.17	\$1,144.25	\$6,982.18	39.67%		
POSTAGE	\$ 49,041.00	-\$733.50	\$5,205.36	\$2,764.44	\$15,976.41	\$235.00	\$135.91	\$23,583.62	48.09%		
ADVERTISING	\$ 16,350.00			\$286.00				\$286.00	1.75%		
MAINTENANCE/SERVICE	\$ 40,366.00	\$314.56	\$3,726.11	\$8,415.21	\$9,837.22	\$566.59	\$3,591.01	\$26,450.70	65.53%		
LEASE	\$ 11,427.00		\$70.16	\$1,273.20	\$1,346.61			\$2,689.97	23.54%		
CONFERENCE & MEMBERSHIP	\$ 27,030.00	\$151.20	\$69.00	\$540.00	\$3,881.09	\$441.00	\$219.00	\$5,301.29	19.61%		
TAXES	\$ 583,417.00	\$287,034.07						\$287,034.07	49.20%		
PROFESSIONAL SERVICES	\$ 240,300.00	\$3,366.41	\$61,558.60	\$3,788.63	\$22,163.72	\$12,431.09	\$3,592.04	\$106,920.49	44.49%		
LIENS	\$ 6,300.00	\$75.00	\$70.00	\$145.00	\$95.00	\$5.00		\$390.00	6.19%		
MISCELLANEOUS	\$ 6,570.00		\$472.45	\$262.15	\$271.45	\$114.01	\$114.01	\$1,234.07	18.78%		
CONTRACTOR SERVICES	\$ 565,160.00		\$21,732.32	\$42,445.56	\$150,000.62	\$12,890.74	\$20,304.86	\$247,374.10	43.77%		
DEBT SERVICES	\$ 404,729.00	\$262,575.73	\$45,035.73	\$4,235.73	\$4,235.73	\$4,235.73	\$4,235.73	\$324,554.38	80.19%		
SEWER USE FEE	\$ 10,800.00				\$2,700.00			\$2,700.00	25.00%		
NEW BRITAIN AGREEMENT	\$ 275,000.00	\$30,185.35	\$49,189.64	\$29,290.31				\$108,665.30	39.51%		
TOTAL OPERATING SERVICES	\$ 2,654,809.00	\$584,132.72	\$216,077.03	\$129,326.37	\$259,291.80	\$115,345.48	\$60,795.21	\$1,364,968.61	51.41%		
SUPPLIES AND MATERIALS											
MOTOR FUELS	\$ 43,871.00	\$2,572.30	\$5,419.44	\$3,223.93	\$4,482.44	\$4,087.73	\$1,277.86	\$21,063.70	48.01%		
OFFICE SUPPLIES	\$ 27,240.00		\$2,668.80	\$7,647.83	\$2,013.49	\$8,045.39	\$2,377.76	\$22,753.27	83.53%		
MAINTENANCE SUP & MATERIALS	\$ 346,000.00	-\$2,040.20	\$35,914.69	\$51,193.50	\$46,612.61	\$44,993.29	\$47,187.79	\$223,861.68	64.70%		
MV PARTS & SUPPLIES	\$ 15,150.00		\$246.84	\$3,318.94	\$1,180.61	\$337.38	\$1,821.61	\$6,905.38	45.58%		
MV SERVICE & REPAIRS	\$ 35,000.00		\$607.04	\$759.97	\$1,277.74	\$18,805.07	\$1,004.52	\$22,454.34	64.16%		
HEATING FUEL	\$ 37,406.00		\$432.28			\$1,584.78	\$1,678.09	\$3,695.15	9.88%		
CHEMICAL TREATMENT	\$ 195,163.00		\$23,746.94	\$16,713.16	\$23,532.41	\$8,242.81	\$13,393.72	\$85,629.04	43.88%		
MISCELLANEOUS	\$ 5,000.00							\$0.00	0.00%		
INSURANCE	\$ 154,475.00		\$20,000.00	\$47,966.33				\$67,966.33	44.00%		
TOTAL SUPPLIES & MATERIALS	\$ 859,305.00	\$532.10	\$89,036.03	\$130,823.66	\$79,099.30	\$86,096.45	\$68,741.35	\$454,328.89	52.87%		
CAPITAL OUTLAY											
CAPITAL EQUIPMENT	\$ 197,000.00		\$103,803.91		\$36,021.40			\$139,825.31	70.98%		
CAPITAL OUTLAY	\$ 565,000.00							\$0.00	0.00%		
MISC. UTILITY ASSETS	\$ 453,124.00		\$9,899.00	\$11,060.00			\$12,240.00	\$33,199.00	7.33%		
CAPITAL OUTLAY TOTAL	\$ 1,215,124.00	\$0.00	\$113,702.91	\$11,060.00	\$36,021.40	\$0.00	\$12,240.00	\$173,024.31	14.24%		
GRAND TOTAL	\$ 8,740,403.00	\$851,835.42	\$721,724.89	\$541,973.69	\$751,731.90	\$495,848.68	\$526,605.84	\$3,889,720.42	44.50%		

CITY OF BRISTOL WATER DEPARTMENT CAPITAL OUTLAY BUDGET YEAR 2019-20										
	BUDGET REQUEST 2019-20	EXPENDED JULY 2019	EXPENDED AUG 2019	EXPENDED SEPT 2019	EXPENDED OCT 2019	EXPENDED NOV 2019	EXPENDED DEC 2019	EXPENDED TO- DATE		
CAPITAL EQUIPMENT										
2018 CHEVY 2500 BACKHOE	\$54,000.00		\$103,803.91					\$0.00	\$0.00	\$0.00
REPLACE TRUCK 2	\$35,000.00			\$36,021.40				\$36,021.40		\$103,803.91
TOTAL CAPITAL EQUIPMENT	\$197,000.00		\$103,803.91	\$0.00	\$36,021.40	\$0.00	\$0.00	\$139,825.31		\$0.00
UTILITY ASSETS										
DISTRIBUTION SECTION										
(1) Chop Saw	\$900.00									\$0.00
(1) Road Saw	\$2,050.00									\$0.00
(1) Pin Locator	\$900.00									\$0.00
(1) 2" Pump	\$500.00									\$0.00
(1) Aqua Scope Leak Machine	\$2,800.00									\$0.00
(1) Manhole Blower	\$700.00									\$0.00
Insertion Valves	\$25,000.00									\$0.00
Regulator Repairs	\$25,000.00									\$0.00
Automatic Flushing Station	\$4,500.00									\$0.00
TOTAL UTILITY ASSETS DISTRIBUTION SECTION	\$62,350.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
METER SHOP SECTION										
5/8" Meters 650@110.60	\$71,890.00			\$11,060.00						\$11,060.00
Transmitters 200 @98.55	\$19,710.00								\$12,240.00	\$12,240.00
1 1/2" T-10 METER (5)	\$2,829.00									\$0.00
1" T-10 METER (10)	\$2,650.00									\$0.00
2" T-10 METER (5)	\$3,195.00									\$0.00
3/4" T-10 METER(20)	\$3,600.00									\$0.00
6" DETECTOR CHECK (2)	\$7,000.00									\$0.00
TOTAL UTILITY ASSETS METER SHOP SECTION	\$110,874.00	\$0.00	\$0.00	\$11,060.00	\$0.00	\$0.00	\$12,240.00	\$23,300.00		\$23,300.00

2019 SHUT-OFFS BREAKDOWN Still off to date for non-pay: (100)

MONTH/ DISTRICT	TERMINATION LETTERS SENT	DOOR HANGERS DELIVERED	# ACCTS. OUTSTANDING @ SHUT-OFF DAY	# ACCTS. ACTUALLY SHUT-OFF THROUGHOUT SHUT-OFF DAY	# ACCTS. STILL OFF @ END OF SHUT-OFF DAY	# ACCTS. THAT REMAINED OFF @ END OF MONTH
JANUARY 03	429	305	37	23	37	6
FEBRUARY 01	342	269	19	5	1	0
MARCH 02	349	251	27	12	6	5
APRIL 03	447	339	42	20	7	3
MAY 01	327	278	31	15	9	3
JUNE 02	348	292	38	22	5	4
JULY 03	443	317	29	17	4	3
AUGUST 01	299	222	19	10	4	3
SEPTEMBER 02	462	328	34	18	11	6
OCTOBER 03	427	340	44	23	12	8
NOVEMBER 01	489	364	74	37	15	7
DECEMBER 02	498	359	68	37	15	9

BEFORE RECEIVING A TERMINATION LETTER, THE CUSTOMER HAS RECEIVED THEIR ORIGINAL BILL PLUS A SECOND AND THIRD NOTICE. Example: Invoiced 8/1, 2nd Notice 9/1, 3rd Notice 10/1. THE TERMINATION LETTER IS SENT APPROX. 1 WEEK AFTER 3RD NOTICE. DOOR HANGERS FOLLOW IN 1-2 WEEKS WITH SHUT-OFF DAY 1 WEEK LATER.



What are you looking for?

Current Monthly Summary

Current Month Payment Summary

Payment Type	Number Of Transactions	Total Paid
Credit/Debit Card	740	\$120,063.22
EFT (Check)	315	\$51,377.06
Online Bank Direct	401	\$55,003.02
Total	1456	\$226,443.30

Paperless Statistics

Invoice Type	Paperless
Water	3752

Customer Registration Statistics

Customer Count	Registered Count	Registered %
20052	7581	37.81

Monthly Invoice Summary

Invoice Count
No records to display.

Auto-Pay Statistics

Invoice Type	AutoPay
Water	1178

Pay By Text Registration Statistics

Customer Count	Registered Count	Registered %
1985	1397	70.38

CONNWOOD FORESTERS, INC.

39 CHERRY HILL ROAD, PO Box 150
ROCKFALL, CONNECTICUT 06481
860-349-9910
CONNWOOD.COM

A FOREST OWNERS' COOPERATIVE ASSOCIATION ENGAGED SINCE 1945 IN THE STEWARDSHIP OF FORESTS FOR WOOD, WATER, WILDLIFE, RECREATION, AND AESTHETICS.

Summary of Bristol Water Department Forestry Activities Since 2016 Plan Renewal

Year	Stands	Type	Acres	MBF	Revenue [^]	Status	TSI Stands	Acres	Cost	Status
2017	CD2,3,8,1995	Improvement Harvest	70	207	\$16,900	Sold	CD9	38	\$2500	Marked
2018	CD 5,6,7	Improvement Harvest	110	235	\$91,664	Cut	R3	6	\$500	Cut
2019	W1996	Shelterwood	58	136	\$40,120	Sold	R2	15	\$1000	Marked
2020	CD 1, 4, 1999	IH/Shelterwood	80	200	\$20,000		E5	15	\$1000	
2021	R1999,2004	Thinning	40	150	\$10,800					
2022	E1998	Shelterwood	39	78	\$7,800					
2023	W6, 1995	Thinning	52	160	\$15,160					
2024	S1998	Shelterwood	60	120	\$8,400					
2025	N1996	Thinning	45	90	\$9,000					
2026	W2003 *	Thinning	45	90	\$9,000					

Stand	Young Forest Activity	Acres	Year	Status
4W	TSI - release sugar maple	4	2019	Marked
7	TSI - release white pine crop trees	7	2019	Marked
34	TSI - release sugar maple	4	2019	Marked
19	TSI - release oak and white pine	10	2020	
11S	TSI - release oak and sugar maple	11	2021	
	Intensive vine cutting	3	2021	
4	TSI - release white pine and oak and thin spruce and pine	4	2022	
	Intensive vine cutting	4	2022	
34	Improvement harvest – Combine with Stand 1998 Harvest	8	2022	
67	Intensive vine and invasive cutting	8	2023	
10	TSI - release red oak, sugar maple and white pine	10	2024	
43	TSI - Release oak and white pine	14	2025	
	Intensive vine cutting	5	2025	
86	TSI - release oak and sugar maple	10	2026	

[^]**Bold is received revenue**

* Moved to end of schedule due to dead ash trees

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Bristol Water Department Proposal for 2020/21 Watershed Forest Management Program

Commercial Timber Harvest Operations

For all projects that involve the sale of commercial forest products, CFI will handle on behalf of Bristol all aspects of timber sale preparation and oversight including the following services:

1. Confirm the location of previously marked and located property boundary lines;
2. Determine cutting area boundaries, access routes to reach the timber to be harvested and locations for loading logs onto trucks ("landings");
3. Locate and designate with flagging main "skid roads" (trails in the forest used to haul logs from the stump to the loading location), stream crossings and wetland crossings;
4. Obtain any required permits, and coordinate activities with local and state officials;
5. Select and designate with paint trees to be harvested (CFI will tally each tree marked to facilitate an estimate of the amount of useable wood material and its value);
6. Summarize the information gathered during the sale preparation, notify reputable buyers, and "show" the sale to potential purchasers;
7. Work with Bristol Water Department (BWD) to develop a sales agreement that protects BWD and the forest;
8. Solicit bids and help BWD select the successful purchaser;
9. Ensure that the purchaser posts a cash performance bond, has the required insurance, and makes payments according to the schedule specified in the contract;
10. Monitor the ongoing logging operation to ensure compliance with the terms of the contract;
11. Keep BWD informed about the status of the project, and notify BWD when the job has been completed.

The estimated cost specified for commercial timber harvest projects will include Connwood's time to prepare one application and attend one inland wetland or zoning meeting for each required permit. The Bristol Water Department will be responsible for any permit application fees or performance bonds associated with the permits. If Connwood's attendance is required at more than one meeting per permit or permits other than inland wetlands or zoning are necessary, CFI will bill Bristol at the hourly rate specified below. Therefore, the total cost for the project may exceed the estimated expenses stated below.

The cost for Connwood's services will be billed on a time-and-material basis. The applicable hourly rates will be **\$60.00** for professional forestry services and **\$50.00** for technical services. Transportation will be charged at the federal rate and material used by CFI (e.g. tree marking paint) will be billed at standard rates. Transportation mileage and time is charged round-trip from our Rockfall Office. In some cases, the costs in this proposal differ from those listed in the 2016 Management Plan. The revised costs reflect changes in the scope of services to be provided.

Under certain circumstances, some of which are listed below, forest management projects may require work that was not foreseen during the writing of the BWD Forest Management Plans. Examples of such circumstances include:

1. Compliance with existing or future state or Federal regulations or statutes may require unforeseen work. For example, the Connecticut Forest Practices Act (when enacted) will require registration of timber harvests with the Division of Forestry. Additionally, local wetland and zoning regulations change continually.
2. Public relations services, such as providing information to reporters, may be required for some projects.
3. Wetland and zoning permits for commercial timber harvesting operations may require CFI's presence at several meetings and/or application fees.
4. Timber buyers occasionally renege on commercial timber harvest contracts, even after making one or more payments. When this occurs, CFI must spend additional time to market the sale to a different buyer.
5. Unusual problems, such as equipment failures, may arise during the harvesting of commercial timber sales. CFI should spend extra time supervising these situations to ensure that the terms of the timber sale contract are upheld.
6. Other circumstances, which were not anticipated but should be addressed, may arise.

Additional work that is required to complete a project as a result of one of these considerations will be billed at the rates for time and materials stated above. The additional work may cause the total cost of the project to exceed the estimated amounts. In all such cases CFI will obtain appropriate approval from BWD prior to undertaking the additional work.

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2020 Proposed Forest Management Activities – Please refer to attached maps

2020 Timber Harvest: CD 1, 4, 1999: ~80 acres of commercial operations in Harwinton. There are two possible landings. One is an existing landing on Woodchuck Lane that is currently reserved for use by the 2017 harvest. The other potential landing is on a neighbor's property on Town Line Road in New Hartford. We would need to negotiate an easement with this landowner to create a landing here.* It is a good landing site with dry flat ground and good road sight lines. It is 3000' to the Woodchuck Land landing and 300' to the Town Line Road landing.

In the plan, an improvement harvest is recommended for stands 1 and 4 that will remove poor-quality/unhealthy trees (sawtimber and cordwood) to favor the healthiest and most vigorous trees. I added Stand 1999 since we will likely not bother to return to this area for many decades and it has some monster pine trees that will not keep their timber value much longer. Any ash trees will be salvage harvested in anticipation of its likely demise. There are some big ash trees in Stand 1999. This harvest will remove approximately 200,000 boardfeet on about 80 acres.

*You may want to consider applying for a CT DEEP Watershed Land Acquisition Grant to buy land here for permanent access to the Cooks Dam property.

Estimated Gross Revenue: **\$10,000 - \$25,000**

Budget: **\$7,500 - \$10,000** (\$60/h)

Annual Harvest Planning:

Town hall research for access, boundaries and neighbors. Walk management areas and meet with BWD staff regarding potential issues for future work.

Estimated Gross Revenue: **\$0**

Budget: **\$800-\$1000** (\$60/h)

2020 Pre-commercial Young Tree Thinning (TSI): E5: 15 acres of non-commercial operations in Bristol at Reservoir #7.

This pre-commercial thinning of young trees will release desirable crop trees from crown competition. This will be done by cutting down the unwanted trees around the well-formed trees to give them more light and space to grow more vigorously and thereby improving overall forest health. Many of the trees to be cut down are weevilled pines. Any vines will be cut.

Estimated Gross Revenue: **\$0**

Budget: **\$800-\$1200** (\$50/h) – marking only

2020 Pre-commercial Young Tree Thinning (TSI): 19: 10 acres of non-commercial operations in former Red Pine Plantations – See the 2018 Young Forest Evaluation Report.

This pre-commercial thinning of young trees will release desirable crop trees from crown competition. This will be done by cutting down the unwanted trees around the crop trees to give them more light and space to grow more vigorously and thereby improving overall forest health. Any vines will be cut.

Estimated Gross Revenue: **\$0**

Budget: **\$700-\$1000** (\$50/h) – marking only

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2021 Proposed Forest Management Activities – Please refer to attached maps

2021 Timber Harvest: R1999 & R2004: Most of this area was last harvested in 1999. ~40 acres of commercial operations in Plymouth to one landing.

In the plan, a thinning improvement harvest is recommended for this white pine stand that will remove poor-quality/unhealthy trees (sawtimber and cordwood) to favor the healthiest and most vigorous trees and to provide sunlight for tree regeneration on the forest floor. This harvest will remove approximately 150,000 boardfeet on about 40 acres.

For environmental reasons, the landing is being kept out of the fenced area around Reservoir 1. The 19 acres within the chain-link fencing is near two reservoir feeder streams. These streams are fed by underground pipes bringing in water from the upper reservoirs. We may want to consider extra environmental precautions for the 19-acre harvest area.

Due to a poor oak market, this harvest was moved from 2025 to 2021. This will delay selling oak until (hopefully) the oak market improves.

Estimated Gross Revenue: **\$10,000 - \$15,000**

Budget: **\$5,000 - \$7,000** (\$60/h)

Annual Harvest Planning:

Town hall research for access, boundaries and neighbors. Walk management areas and meet with BWD staff regarding potential issues for future work.

Estimated Gross Revenue: **\$0**

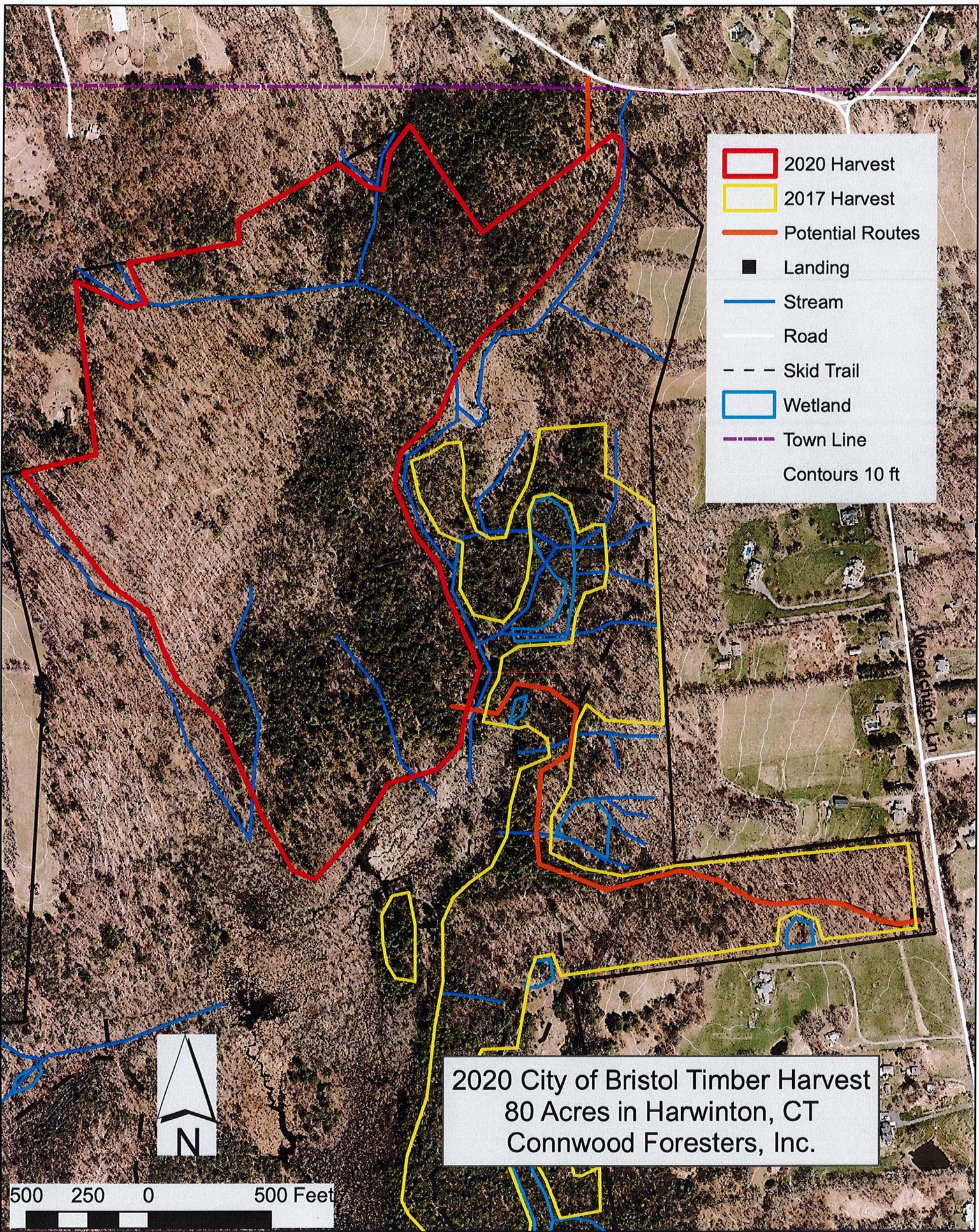
Budget: **\$800-\$1000** (\$60/h)

2021 Pre-commercial Young Tree Thinning (TSI): 11S: 11 acres of non-commercial operations in former Red Pine Plantations – See the 2018 Young Forest Evaluation Report.

This pre-commercial thinning of young trees will release desirable crop trees from crown competition. This will be done by cutting down the unwanted trees around the crop trees to give them more light and space to grow more vigorously and thereby improving overall forest health. Any vines will be cut. There will be 3 acres of intensive vine cutting – see map.

Estimated Gross Revenue: **\$0**

Budget: **\$700-\$1000** (\$50/h) – marking only



- 2020 Harvest
- 2017 Harvest
- Potential Routes
- Landing
- Stream
- Road
- Skid Trail
- Wetland
- Town Line
- Contours 10 ft

2020 City of Bristol Timber Harvest
80 Acres in Harwinton, CT
Connwood Foresters, Inc.



2021 City of Bristol Timber Harvest 40 Acres in Plymouth, CT Connwood Foresters, Inc.

-  Bristol Line
-  Landing
-  2021 Harvest
-  Stream
-  Woods Road
-  Fence
-  Boundary
-  Roads



19 Ac

21 Ac

600 300 0 600 Feet

E Main St US Hwy 6

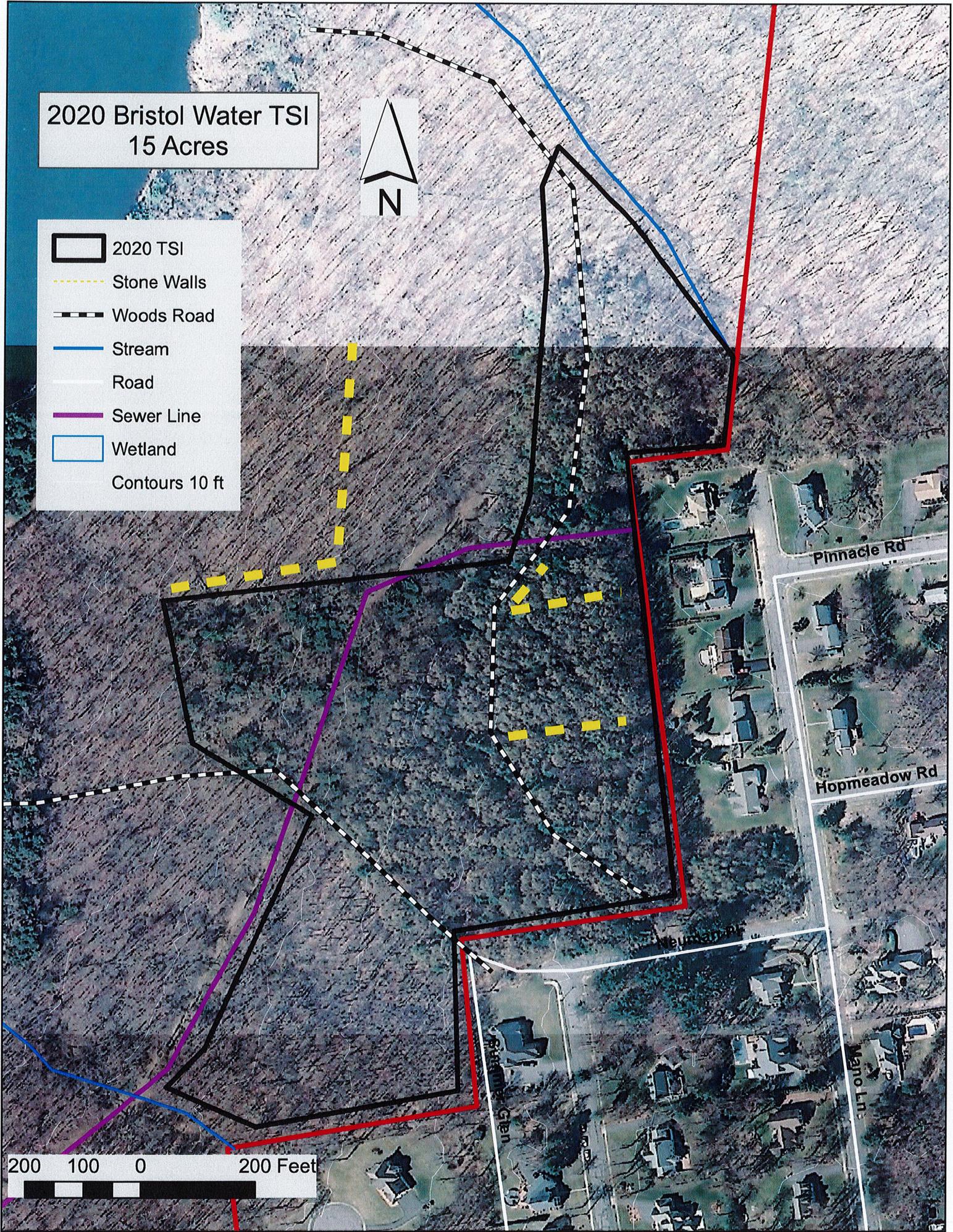
North Ave

Elgin St

2020 Bristol Water TSI
15 Acres

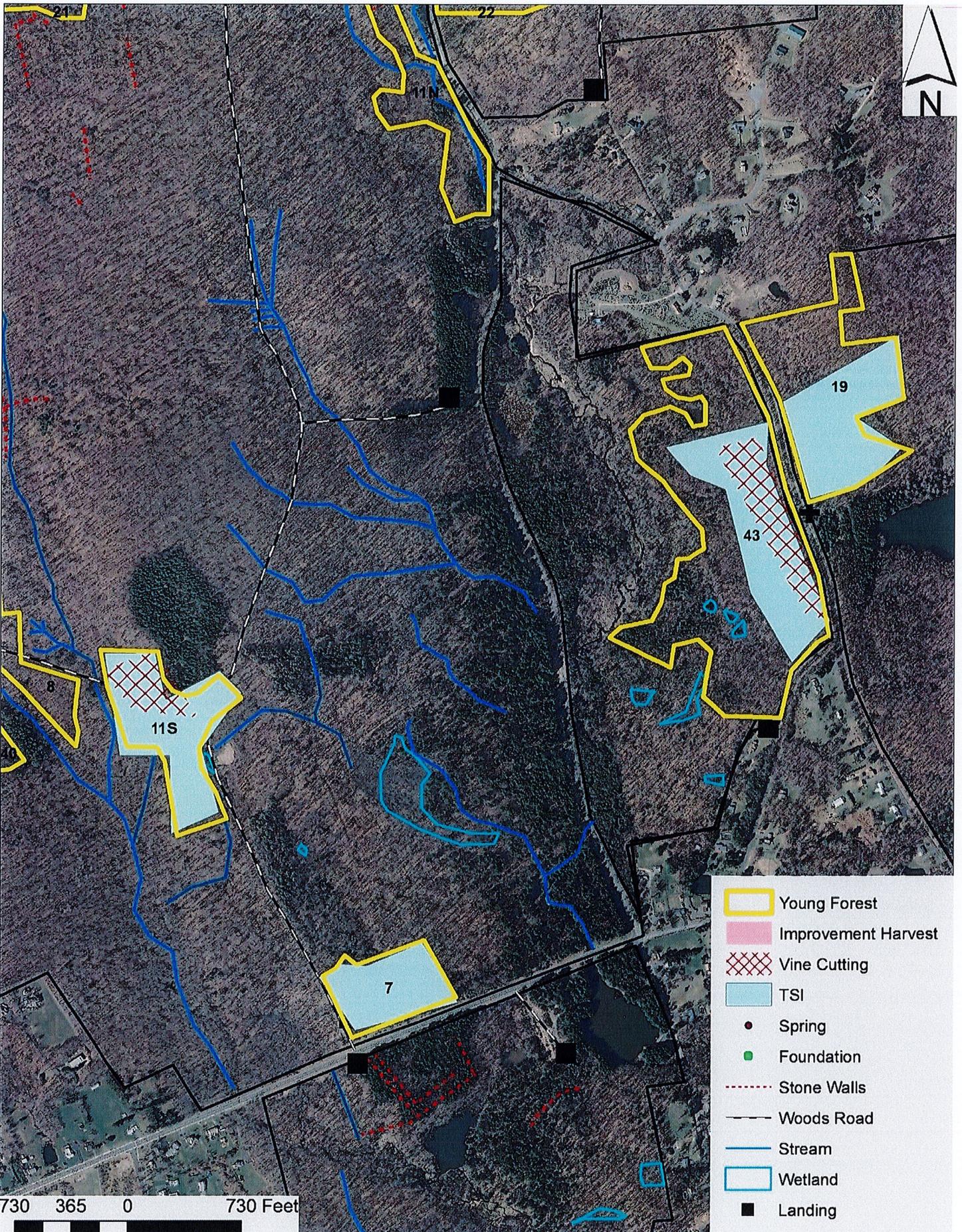


-  2020 TSI
-  Stone Walls
-  Woods Road
-  Stream
-  Road
-  Sewer Line
-  Wetland
- Contours 10 ft



200 100 0 200 Feet

South Stands



WESTON & SAMPSON ACTIVITY REPORT
CITY OF BRISTOL WATER DEPARTMENT
For the meeting on January 21, 2020

On-Call Engineering Services (2070524):

1. Weston & Sampson is currently working on the following tasks:
 - a. CTDEEP General Permits: All Permit application have been submitted to DEEP:
 - i. Miscellaneous Discharges of Sewer Compatible (MISC) Wastewater for the discharge from the WFP to the sanitary sewer.
 1. Responded to DEEP comments. Received draft approval letter for the permit.
 - b. GIS: Anticipate locating / surveying unburied valve box covers. Awaiting direction from BWD.
 - c. Water Supply Plan Update: No activity this period. Awaiting letter from DPH.
 - d. Groundwater Under the Direct Influence of a Surface Water (Mix Street Well #3):
 - i. Assisting the BWD with performing a GWUDI study of Well #3. Met with BWD to discuss data. BWD staff collecting required water quality samples and submitting same to the laboratory for analysis. Results are forwarded to Weston & Sampson for monitoring and compilation into the report. The GWUDI study will involve sample collection for a one-year period. Data collection continues as planned. Approximately 10 weeks remain.
 - e. Mix Street and Mechanic Street infrastructure improvements (2190087):
 - i. Construction of water main along access road to Mix Street chemical feed building is complete. Obtained Project Closure documentation from DPH
 - ii. Developed draft design drawings for water main installation at Mechanic Street to support DPH application related to achieving 4-log virus inactivation. Developed details for redirecting analytical instrumentation discharge back into the distribution system piping. Reviewing pipe size alternatives.
 - f. CTDEEP Water Diversion and Streamflow Reporting Requirements:
 - i. Assisting the BWD with the new CTDEEP requirement related to the collection of daily operation data (diversion / duration) for all thirteen (13) registered diversions, beginning January 1, 2020, and preparing an Initial Reporting Form for each dam, due February 28, 2020.
 - g. PFAS Public Awareness:
 - i. Developed a technical memorandum summarizing the emerging concern of PFAS in drinking water and outlining proposed actions to increase public awareness for the City of Bristol.