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Via Electronic Mail

January 29, 2025

Mr. Joshua Fontaine
U.S. Environmental Protection Agency, New England Region
Five Post Office Square
Suite 100
Boston, MA 02109

Re: GE-Pittsfield/Housatonic River Site
Rest of River (GECD850)
Baseline Monitoring Program: Data Summary Report for 2023

Dear Mr. Fontaine:

GE's Second Revised Baseline Monitoring Plan for the Rest of River, as conditionally approved by EPA, provided that the results of the baseline monitoring conducted during each year of that program will be presented in an annual Baseline Data Summary Report (BDSR), to be submitted by March 31 of the following year. Baseline sampling was initiated in 2023 and included surface water and fish collection. Due to a delay in receipt of the laboratory analytical data for the 2023 fish samples, GE requested that the submittal date for the 2023 Baseline DSR be revised from March 31, 2024 to 30 days after receipt and validation of all 2023 PCB analytical data, including the PCB congener data from the 2023 fish samples, and that request was approved by EPA on March 28, 2024. All those data have now been received and validated, with the last of the PCB congener data from the 2023 fish samples received in December 2024 and validated in January 2025. The enclosed BDSR for 2023 presents a summary of the 2023 baseline sampling activities and results.

Please let me know if you have any questions about the enclosed report.

Very truly yours,

Kevin G. Mooney
Senior Project Manager

Enclosure

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Public Information Repository at David M. Hunt Library in Falls Village, CT
GE Internal Repository

January 2025
Housatonic River – Rest of River

Baseline Monitoring Program: Data Summary Report for 2023

Prepared for General Electric Company

January 2025
Housatonic River – Rest of River

Baseline Monitoring Program: Data Summary Report for 2023

Prepared for
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ABBREVIATIONS

BDSR	Baseline Data Summary Report
BMP	*Baseline Monitoring Plan*
EPA	U.S. Environmental Protection Agency
GE	General Electric Company
Interim BMP	*Interim Baseline Monitoring Work Plan*
kg	kilogram
mg	milligram
mm	millimeter
Pace	Pace Analytical Services, Inc.
PCB	polychlorinated biphenyl
Revised Final Permit	Revised Final Resource Conservation and Recovery Act Permit Modification
revised FSP/QAPP	*Revised Field Sampling Plan/Quality Assurance Project Plan, Project Operations Plan and Site Health and Safety Plan*
ROR	Rest of River
Second Revised BMP	*Second Revised Baseline Monitoring Plan*
TSS	total suspended solids
WWTP	wastewater treatment plant
YOY	young-of-the-year

1 Introduction

1.1 Background

On December 16, 2020, pursuant to the Consent Decree for the GE-Pittsfield/Housatonic River Site (EPA and GE 2000), the U.S. Environmental Protection Agency (EPA) issued to the General Electric Company (GE) a Revised Final Corrective Action Permit under the Resource Conservation and Recovery Act (Revised Final Permit; EPA 2020), specifying a Remedial Action to address polychlorinated biphenyls (PCBs) in the Rest of River (ROR) portion of that site. The ROR extends from the Confluence of the East and West Branches of the Housatonic River in Pittsfield downstream through western Massachusetts and Connecticut.

The Revised Final Permit requires GE to conduct a Baseline Monitoring Program, which must include the collection of "PCB data in surface water, sediment, and biota (and other data) . . . to serve as a baseline for the evaluation of the potential impacts of the Corrective Measures [i.e., remediation activities] and project operations as well as to inform model parameterization in the model re-evaluation plan" (Section II.B.4.b.(1)(a)). Further, Section II.B.4.b.(2) of the Revised Final Permit states: "For areas where MNR [monitored natural recovery] is the Performance Standard, monitoring shall begin with baseline monitoring and shall continue throughout the Remedial Action and O&M [operation and maintenance]." To address these requirements, GE was required to submit a Baseline Monitoring Plan (BMP) to provide for the collection of baseline (i.e., pre-remediation) data on PCBs in surface water, sediments, and biota in the ROR area.

In accordance with similar requirements under a prior version of the Revised Final Permit, GE previously submitted an *Interim Baseline Monitoring Work Plan* on January 10, 2022 (Anchor QEA 2022), proposing surface water sampling at specified locations in the ROR. Following that sampling in 2022, GE submitted an *Interim Baseline Surface Water Monitoring Report* on March 6, 2023 (Anchor QEA and Arcadis 2023) summarizing the data collected, and that report was conditionally approved by EPA on April 4, 2023.

In the meantime, in accordance with directions from EPA under the Revised Final Permit, GE submitted an overall *Second Revised Baseline Monitoring Plan* (Second Revised BMP) on January 30, 2023 (Anchor QEA 2023), and that plan was conditionally approved by EPA on February 16, 2023.

Section 5 of Second Revised BMP states that the results of baseline monitoring conducted during each year of such monitoring will be presented in an annual Baseline Data Summary Report (BDSR). It provides that each BDSR is to present a summary of the work performed during the previous year and is to be submitted by March 31 of the following year. Baseline sampling was initiated in 2023 and included surface water and fish collection. Due to a delay in receipt of all laboratory analytical data for 2023, GE requested that the submittal date for the 2023 BDSR be revised from March 31,

2024 to 30 days after receipt and validation of all 2023 PCB analytical data, including the PCB congener data from the 2023 fish samples, and that request was approved by EPA on March 28, 2024. After further laboratory delays, all those data have now been received and validated, with the last of the PCB congener data from the 2023 fish samples received in December 2024 and validated in January 2025. This BDSR for 2023 provides a summary of the 2023 baseline sampling activities and results.

1.2 Site Description

The ROR area consists of the portion of the Housatonic River and its backwaters and floodplain (excluding portions of certain residential properties) downstream of the Confluence (located approximately two miles downstream from the GE facility in Pittsfield). The ROR area is shown on Figure 1-1 and identified according to river reach designations established by EPA. Subreaches within Reaches 5 through 8 are shown on Figure 1-2.

2 Summary of 2023 Baseline Monitoring Activities

Pursuant to the schedule provided in Section 5 of the Second Revised BMP, the first year of baseline monitoring (i.e., 2023) included surface water and fish sampling. A summary of those activities is provided in this section.

2.1 Surface Water Sampling and Analysis

Surface water sampling activities for 2023 were initiated on April 14, 2023. Consistent with the Second Revised BMP, as supplemented by the *Interim Baseline Surface Water Monitoring Report*, surface water samples were collected monthly from April through December 2023, for a total of nine sampling events. Sampling was generally performed in accordance with the Second Revised BMP and *Interim Baseline Surface Water Monitoring Report* (as modified by EPA's April 4, 2023, conditional approval letter for that report). However, several modifications/adjustments were made to the specific sampling locations and sample collection methods described in the Second Revised BMP. These modifications were reviewed with EPA prior to initiation of the program and documented in an email to EPA dated April 20, 2023. Most of these modifications were minor and were made to address health and safety concerns and/or access limitations associated with the originally proposed sampling locations. The most substantive changes included the following: (1) moving the sampling location at Bulls Bridge Dam upstream to the Route 341 Bridge in Kent, Connecticut; (2) moving the Bleachery Dam/Boardman Road sampling location downstream to the Route 202 Bridge in New Milford, Connecticut; and (3) moving the Lake Zoar/Stevenson Dam and Lake Housatonic Dam/Derby Dam sampling locations in Connecticut to locations along the north and south shorelines just upstream of the dams. These modifications were approved by EPA in an email dated April 24, 2023.

Surface water sampling and analysis activities conducted during 2023 are summarized in the remainder of this section.

2.1.1 Sample Collection

Arcadis U.S., Inc. (Arcadis), on behalf of GE, performed the 2023 surface water sampling during nine events at 14 locations, including one location in the East Branch (Pomeroy Avenue Bridge) and 13 locations in the ROR—namely, near Pittsfield Wastewater Treatment Plant (WWTP); New Lenox Road Bridge; Woods Pond Dam (wing walls); Old Pleasant Street Bridge (immediately upstream of the Route 102 bridge in Lee, Massachusetts); Rising Pond Dam (wing walls); Route 7A/Ashley Falls Road Bridge and, subsequently, its alternate location at Rannapo Road Bridge;[1] Falls Village Dam; Lime Rock Road/Route 7 Bridge located in Canaan, Connecticut (Canaan Town Line Bridge); Route 341

[1] Rannapo Road Bridge (listed as a possible alternate location to the Route 7A Bridge in the Second Revised Baseline Monitoring Plan) replaced the Route 7A Bridge location starting in May 2023 due to the existence of more favorable river conditions for sampling at that location.

Bridge; Route 202 Bridge; Shepaug Dam; Stevenson Dam; and Lake Housatonic Dam (Derby Dam). Sample locations are shown on Figures 2-1a through 2-1o. Sampling methods at Pomeroy Avenue Bridge, near Pittsfield WWTP, New Lenox Road Bridge, Old Pleasant Street Bridge, Route 7A/Ashley Falls Road Bridge/Rannapo Road Bridge, Canaan Town Line Bridge, Route 341 Bridge, Route 202 Bridge, and Shepaug Dam involved the collection of composite grab samples at each location, representative of three stations laterally across the river (25%, 50%, and 75% of the total river width at each location) and 50% of the total river depth at each station. Shepaug Dam locations were shifted slightly to avoid the spillway. Sampling methods at Woods Pond Dam and Rising Pond Dam involved the collection of composite grab samples at each location, representative of two stations laterally (three feet from the east edge and three feet from the west edge of the river/wing wall) and 50% of the total river depth at each station. Sampling methods at Falls Village Dam, Stevenson Dam, and Derby Dam involved the collection of composite grab samples at each location, representative of two stations laterally (near the shoreline on both sides of the river, just upstream of the respective dams) and 50% of the total river depth at each station. Field parameters (water temperature, pH, conductivity, turbidity, and dissolved oxygen) were measured at each location.

All samples were submitted to Pace Analytical Services, Inc. (Pace), in Minneapolis, Minnesota, for high-resolution PCB congener analysis using EPA Method 1668C, with congener-specific reporting limits ranging from 0.0196 to 3.1 nanograms per liter, and to the Pace laboratory in Melville, New York, for total suspended solids (TSS) analysis using EPA Method SM 2540D.[2] Table 2-1 summarizes the sample locations and analyses performed for each sample location.

Table 2-1
Summary of Surface Water Sampling and Analysis

Location	Sample Collection Method	Number of Samples Collected and Analyzed	
		PCB Congeners (Method 1668C)	TSS (SM 2540D)
Pomeroy Avenue	Grab Sampler	9	9
Near Pittsfield WWTP	Grab Sampler	9	9
New Lenox Road	Grab Sampler	9	9
Woods Pond Dam (Wing Walls)	Grab Sampler	9	9
Old Pleasant Street Bridge	Grab Sampler	9	9
Rising Pond Dam (Wing Walls)	Grab Sampler	9	9
Route 7A/Ashley Falls Road Bridge*/Rannapo Road Bridge	Grab Sampler*/ Kemmerer	8**	9
Falls Village Dam	Grab Sampler	9	9
Canaan Town Line Bridge	Kemmerer	9	9
Route 341 Bridge	Kemmerer	9	9

[2] Con-Test, a Pace laboratory in East Longmeadow, Massachusetts, analyzed a portion of the April 2023 TSS samples.

Location	Sample Collection Method	Number of Samples Collected and Analyzed	
		PCB Congeners (Method 1668C)	TSS (SM 2540D)
Route 202 Bridge	Grab Sampler	9	9
Shepaug Dam	Kemmerer	9	9
Stevenson Dam	Grab Sampler	9	9
Derby Dam	Grab Sampler	9	9
Total		**125**	**126**

Notes:

* A grab sampler was used at the Route 7A/Ashley Falls Road Bridge location during the April 2023 sampling event. Starting with the May 2023 event, the sample location was moved to Rannapo Road Bridge, where a Kemmerer sampler was used.

** The April 2023 Route 7A/Ashley Falls Road Bridge PCB congener sample was lost in shipment to the lab and was not analyzed.

Surface water samples were split with EPA at one location during each sampling event. EPA submitted those split samples to Eurofins in West Sacramento, California, for high-resolution PCB congener analysis by EPA Method 1668A.

2.1.2 Data Validation

Following receipt of the analytical results, the PCB and TSS data collected by GE underwent data review and validation in accordance with the pertinent procedures specified in GE's revised *Field Sampling Plan/Quality Assurance Project Plan* (revised FSP/QAPP; Arcadis 2023). This included validation of all such data to a Tier I level and validation of a minimum of 25% of the data to a Tier II level. The data validation reports are provided in Appendix A. As summarized in Table A-1 (in Appendix A), 100% of the PCB data and 100% of the TSS data are considered usable.

2.1.3 Results

The surface water analytical data collected during 2023 are summarized in Table 2-2 and in Tables B-1 and B-2 in Appendix B. Table 2-2 presents the validated total PCB congener and TSS analytical results, along with field parameter information, from each sampled location. Table B-1 in Appendix B provides individual congener PCB results. Table B-2 provides the individual PCB congener analytical results from split samples collected by EPA in 2023 (and the corresponding GE sample results). Surface water total PCB congener concentrations are plotted by river mile on Figure 2-2.

2.2 Fish Sampling and Analysis

The design of the baseline sampling program for fish was partly based upon previous sampling of fish in the ROR as described in the Second Revised BMP, as well as the scope of future monitoring activities anticipated to occur during and after active remediation. Fish were collected at locations within each targeted reach based on habitat availability. Because the Biota Performance Standards specified in the Revised Final Permit are based on PCB exposure in adult fish, baseline fish sampling

included the collection and analysis of adult fish. Young-of-the-year (YOY) fish were also included to provide additional lines of evidence for the evaluation of time trends. The Second Revised BMP required fish sampling to be performed during two separate events to reach the target number of samples (i.e., a total of 20 adult fish and 14 YOY composite samples per species). Therefore, for the first fish sampling event conducted in 2023, a total of 10 adult fish and seven YOY composite samples were targeted per species within each of the target reaches. A description of the sampling approach for the collection of fish samples is provided in the subsections below.

2.2.1 Sample Collection

Anchor QEA and Arcadis, on behalf of GE, conducted the baseline fish sampling event from September 26 through October 13, 2023 (i.e., a 14-day period). In accordance with the Second Revised BMP and a March 29, 2022, EPA conditional approval letter, 14 locations were sampled for adult fish, and eight of those locations included collection of YOY fish. Figures 2-3a through 2-3n are maps showing the baseline fish sampling locations in all reaches. Those locations were situated in Reaches 5A, 5B/5C, 6, 7D, 7G, 8, and 9 in Massachusetts and Reaches 10 through 16 in Connecticut. Target adult fish species were generally consistent with those targeted historically. They consisted of largemouth bass (*Micropterus salmoides*), yellow perch (*Perca flavescens*), and brown bullhead (*Ameiurus nebulosus*) at locations in Massachusetts and smallmouth bass (*M. dolomiueu*), yellow perch, brown bullhead, northern pike (*Esox lucius*) and fallfish (*Semotilus corporalis*) in the Connecticut reaches. In addition, due to a lack of observed brown bullhead in several reaches, white suckers (*Catostomus commersonii*) were collected as a substitute. This proposed substitution was later documented in a letter to EPA dated October 24, 2023, which was approved by EPA on December 6, 2023.

Because the Biota Performance Standards for fish apply to the edible portion for humans (i.e., fillets), collection of adult fish targeted the legal or edible size, which are fish greater than 305 millimeters (mm) for bass, 200 mm for bullhead, and 170 mm for yellow perch. Northern pike were targeted at a length greater than 660 mm, with some fish of lesser size being retained due to a lack of availability of larger pike. There were no minimum lengths specified for fallfish or white sucker. Reasonable efforts were made to obtain a representative sample of fish across age and size classes.

Target species for YOY fish included largemouth bass and yellow perch in Reaches 5A through 9 and smallmouth bass and yellow perch in Reach 11. Smallmouth bass were targeted in Reach 11 (rather than largemouth bass) because of the low density of largemouth bass in that reach. Similar to historical collections, YOY samples were composite samples consisting of fish of the same species of similar size. The Second Revised BMP stated that YOY composite samples would consist of 10 individual whole-body fish per species; however, due to a lack of abundance in certain reaches, the number of YOY fish per composite was reduced to a minimum of five individual whole-body fish per species. This modification was also subsequently documented in GE's October 24, 2023, letter, which was approved by EPA.

As noted above, a total of 10 adult fish and seven YOY composite fish samples per species per reach were targeted during the 2023 sampling event. However, the target sample counts could not be obtained at several reaches due to a lack of preferred habitat for those species. Table 2-3 shows the actual sample counts by species and reach. Reasonable efforts were made to collect the target numbers, including multiple mobilizations to several of the reaches. Decisions regarding the adequacy of the sample collection efforts and decisions to discontinue sampling for the year at a given location were made in consultation with the EPA field representative.[3]

2.2.1.1 Methods

Sample collection was performed using electrofishing vessels. For reaches that had limited access and shallow water depths, a 14-foot jon boat was used. This boat was outfitted with a 10-horsepower outboard motor and Smith-Root VVP-158 electronics, powered by a 5,000-watt generator. Components were assembled on site, and the vessel was hand launched. For reaches with maintained boat ramps and deep water, two 16-foot Smith-Root electrofishing vessels powered by outboard motors were used. These vessels included Apex and 5.0 GPP electronics, respectively, that were powered by gas generators.

Prior to sampling at each location, water quality data were collected with a YSI Pro DSS multi-parameter probe. Measurements included temperature (in °C), pH, conductivity (in milliSiemens per centimeter), turbidity (in nephelometric turbidity units), and dissolved oxygen (in milligrams [mg] per liter). The water quality results are provided in Table 2-4. Electrofishing occurred generally along transects near the riverbanks, targeting areas of preferred habitat (e.g., vegetation, undercut banks, downed trees, and deep pools). GPS coordinates were logged with an onboard unit at the upstream and downstream extent of the transects at each sampling location. Shocking seconds were logged to document level of effort, as shown in Table 2-3.

Once collected, fish were kept in live-wells or coolers with wet ice until being transferred to the field processing team. Sample processing occurred either on site or at GE's Building 59 in Pittsfield. Each fish collected was weighed (to the nearest 1.0 gram for adult fish, nearest 10 grams for northern pike, and nearest 0.1 gram for YOY fish), and total length was measured (to the nearest mm) and recorded. These measurements were made as soon as possible following collection. Measurements were made with calibrated instruments. Each sample was wrapped in clean aluminum foil (shiny side out), labeled, placed in a plastic resealable storage bag, and kept on ice or frozen following data processing. In addition, observed external abnormalities were noted in the field log.

[3] GE subsequently collected additional fish samples in 2024 in accordance with the Second Revised BMP, and because the 2023 and 2024 collections still did not achieve the target numbers for some species and locations, GE is discussing with EPA conducting additional fish sampling at some locations in 2025. The 2024 fish sampling and any 2025 fish sampling will be described and the results presented in the annual BDSRs for those years.

Chain-of-custody forms were generated after data were entered into the database and samples were grouped by species and location. Samples were either kept on wet ice and shipped for overnight delivery to the Pace laboratory in Green Bay, Wisconsin, for analysis, or frozen and shipped at the end of a sampling event.

2.2.1.2 Laboratory Sample Preparation

Details related to preparation of fish samples for analysis were summarized in GE's October 24, 2023, letter that was approved by EPA. All processing of fish samples for analysis was performed by Pace Green Bay. For adult fish, the portions of the fish generally eaten by humans (fillets) were analyzed. The adult fish samples were prepared by removing the left fillet, excluding the rib cage, and removing the skin for analysis; the right fillet was included in a few samples where needed for sufficient sample mass. The belly flap was also retained along with the fillet for analyses. Otoliths were removed from adult fish by the laboratory for use in future age determination if needed. For YOY fish, samples were analyzed as whole-body composites.

2.2.1.3 Laboratory Analysis

All fish samples collected were analyzed for PCB as Aroclors using EPA Method 8082A and for percent lipid content. The target reporting limit/practical quantitation limit for fish tissue Aroclor PCB analysis was approximately 0.05 mg/kilogram (kg). Approximately 25% of the collected adult and YOY fish samples were also submitted for PCB congener analyses by EPA Method 1668C (in addition to the Aroclor analyses) to evaluate whether the Aroclor method can meet project data quality objectives. The subset of fish that was selected for analysis of PCB congeners was determined in consultation with EPA. The sex of each individual fish was also determined by the laboratory independent of the field determination.

2.2.2 Data Validation

Following receipt of the analytical results, the Aroclor and congener PCB data collected by GE underwent data review and validation in accordance with the pertinent procedures specified in GE's revised FSP/QAPP. This included validation of all such data to a Tier I level and validation of a minimum of 25% of the data to a Tier II level. The data validation reports are provided in Appendix C. As summarized in Table C-1 (in Appendix C), 99.7% of the Aroclor PCB data are considered usable and 100% of the congener PCB data are considered usable.

2.2.3 Results

A total of 497 fish samples were collected in 2023 and submitted for Aroclor PCB analysis; these included 426 adult and 71 composite YOY fish samples. Approximately 25% of the samples (124 fish, including 108 adults and 16 YOY composites) were split and submitted for PCB congener analysis. Summary statistics for Aroclor and congener PCBs are presented in Tables 2-5 and 2-6, respectively.

Table 2-5 also includes summary statistics for lipid content. Figures 2-4a through 2-4g show the Aroclor PCB results plotted by reach for all species. A tabulation of all fish Aroclor and congener PCB data is provided in Appendix D.

In addition, general fish condition was assessed by field measurements and visual observation. Observed external abnormalities, where present, were recorded and are summarized in Table 2-7. Also, results for fish sex determination (adult fish only), where the sex was possible to determine, are provided in Table 2-8.

2.3 Fish Community Survey

As part of a separate baseline program, on February 20, 2023, GE submitted a *Revised Baseline Restoration Assessment Work Plan for Rest of River Reaches 5B Through 8* (Revised Reach 5B–8 BRA Work Plan; AECOM 2023), which was approved by EPA on March 8, 2023. The Revised Reach 5B–8 BRA Work Plan described GE's proposed process and activities to implement a baseline restoration assessment for the reaches downstream of Reach 5A in which remediation is required (i.e., Reaches 5B through 8). One element of that assessment was to perform fish community surveys. As noted in that work plan, the fish community surveys in Reaches 5B through 8 would be performed at the same locations in those reaches where fish tissue sampling is being conducted as part of the Baseline Monitoring Program. Accordingly, fish community surveys were conducted in those reaches concurrently with, and at the same locations as, the Baseline Monitoring Program fish sample collections. While the community surveys are not part of the Baseline Monitoring Program, GE has elected for completeness to summarize the fish community data collected in 2023 in this BDSR. A summary of that effort, survey locations and tables of the survey results by reach and overall are provided in Appendix E.

It should be noted that fish community surveys were conducted in both 2023 and 2024. As with this 2023 BDSR, the 2024 fish community data will be summarized in the BDSR for 2024. In addition, the collective 2023 to 2024 fish community survey data from Reach 6 (Woods Pond) were already evaluated and presented in the *Baseline Restoration Assessment Report for Reach 6* (AECOM 2024), which was submitted to EPA on October 31, 2024; the 2023 to 2024 fish community data from Reaches 5B/5C will be evaluated and presented in the upcoming Baseline Restoration Assessment Report for Reaches 5B and 5C, which is due on February 28, 2025; and the fish community survey data from further downstream reaches will be presented and evaluated in future reach-specific BRA reports.

3 References

AECOM, 2023. *Revised Baseline Restoration Assessment Work Plan for Rest of River Reaches 5B Through 8*. Prepared for General Electric Company. February 2023.

AECOM, 2024. *Baseline Restoration Assessment Report for Housatonic Rest of River Reach 6*. Prepared for General Electric Company. October 2024.

Anchor QEA, 2022. *Interim Baseline Monitoring Work Plan*. Housatonic River – Rest of River. Prepared for General Electric Company, Pittsfield, Massachusetts. January 2022.

Anchor QEA, 2023. *Second Revised Baseline Monitoring Plan*. Housatonic River – Rest of River. Prepared for General Electric Company, Pittsfield, Massachusetts. January 2023.

Anchor QEA and Arcadis, 2023. *Interim Baseline Surface Water Monitoring Report*. Housatonic River – Rest of River. Prepared for General Electric Company, Pittsfield, Massachusetts. March 2023.

Arcadis, 2013. *Revised Field Sampling Plan/Quality Assurance Project Plan, Project Operations Plan and Site Health and Safety Plan.* Prepared for General Electric Company, Pittsfield, Massachusetts. Housatonic River – Rest of River. July 2013.

EPA, 2020. *Revised Final Permit Modification to the Reissued RCRA Permit and Selection of CERCLA Remedial Action and Operation & Maintenance for Rest of River*. December 2020.

EPA and GE, 2000. Consent Decree in United States of America, State of Connecticut, and Commonwealth of Massachusetts v. General Electric Company. Civil Action Nos. 99-30225, 99 30226, 99-30227-MAP, entered by the United States District Court for the District of Massachusetts. October 27, 2000.

Tables

Table 2-2
Summary of 2023 Surface Water Data

Baseline Monitoring Program: Data Summary Report for 2023
Housatonic River - Rest of River

Location	Sample Date	PCB Congeners By HRMS (EPA 1668C) (ng/L)	Total Suspended Solids (mg/L)	Field Parameters					
				Conductivity (mS/cm)	pH (Standard Units)	Sample Depth (m)	Water Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
POMEROY AVE BRIDGE	4/21/2023	10.2	3.2	0.342	7.58	0.29	15.4	2	NA
	5/18/2023	10.1	2.4	0.492	8.00	0.21	15.2	2	11.63
	6/15/2023	9.71	2.4	0.453	8.01	0.23	18.6	5.15	8.53
	7/14/2023	2.87	11.6	0.155	7.87	1.11	21.3	9.31	4.84
	8/17/2023	4.45	10.7	0.180	8.18	0.60	20.8	12.6	5.47
	9/14/2023	8.27	4.0	0.325	7.82	0.31	18.8	3.21	8.81
	10/13/2023	9.61	ND(2.0)	0.330	7.04	0.26	12.8	1.53	11.81
	11/17/2023	7.23	2.0	0.319	7.68	0.33	5.4	2.11	12.42
	12/15/2023	6.54	2.4	0.218	7.00	0.43	3.7	2.80	11.75
NEAR PITTSFIELD WWTP	4/21/2023	33.5	2.8	0.335	7.56	0.85	13	2	NA
	5/18/2023	38.9	2.4	0.420	7.76	0.76	13.62	3	9.98
	6/15/2023	57.5	4.4	0.406	7.92	0.81	17.5	6.68	8.41
	7/14/2023	68.2	7.2	0.186	7.63	1.80	19.7	10.2	7.25
	8/17/2023	70.1	17.3 J	0.193	7.98	1.04	20.4	14.2	8.85
	9/14/2023	45.2	6.4	0.302	7.70	0.89	19.3	3.87	8.37
	10/12/2023	26.1	3.2	0.319	7.88	0.90	13.2	2.10	10.84
	11/16/2023	18.0	3.2	0.332	7.71	0.96	5.6	2.00	12.54
	12/14/2023	28.2	3.6	0.242	7.99	1.11	1.3	4.22	14.42
NEW LENOX RD BRIDGE	4/21/2023	36.2	3.2	0.365	7.42	1.13	16.1	3	NA
	5/18/2023	41.6	ND(2.0)	0.450	7.34	1.12	14.93	3	10.57
	6/15/2023	46.4	2.8	0.409	7.90	1.13	18.7	6.64	4.83
	7/13/2023	70.6	12.0	0.226	7.85	1.56	22.4	9.18	3.78
	8/17/2023	76.1	13.3 J	0.204	7.27	1.31	21.2	26.1	6.55
	9/14/2023	59.7	6.8	0.322	7.63	1.22	21.3	8.10	8.70
	10/12/2023	32.5	3.6	0.349	7.48	1.21	15.0	2.32	8.86
	11/16/2023	21.0	2.4	0.360	7.38	1.19	8.0	2.56	9.20
	12/14/2023	28.3	2.0	0.256	7.84	1.36	2.1	7.70	10.67
WOODS POND DAM	4/20/2023	54.2	3.6	0.34	8.27	0.67	11	4	12.13
	5/17/2023	77.0	4.8	0.432	8.45	0.69	17.2	4	11.17
	6/14/2023	85.2	7.2	0.455	7.78	0.69	20.3	6.68	6.04
	7/13/2023	95.5	9.6	0.21	7.49	0.88	21.4	15.4	5.56
	8/16/2023	78.0	4.4 J	0.276	7.98	0.75	21.8	5.97	7.30
	9/13/2023	71.4	5.6	0.341	7.61	0.69	21.7	3.88	6.75
	10/11/2023	52.9	4.4	0.303	8.00	0.76	13.4	2.06	10.70
	11/16/2023	26.7	ND(2.0)	0.347	7.50	0.72	5.6	2.32	12.54
	12/14/2023	33.8	2.0	0.245	7.75	0.72	2.1	4.55	13.23
OLD PLEASANT ST BRIDGE	4/20/2023	45.8	2.8	0.35	8.06	0.42	14	5	10.65
	5/17/2023	48.3	3.2	0.423	8.45	0.35	17.49	4	9.03
	6/14/2023	41.0	3.2	0.47	8.42	0.28	21.4	4.15	5.48
	7/13/2023	123	14.0	0.239	7.87	0.79	23.4	14.7	5.17
	8/16/2023	61.5	6.0 J	0.293	8.46	0.57	23.0	7.81	5.39
	9/13/2023	62.3	4.8	0.348	8.16	0.44	22.2	2.25	8.61
	10/11/2023	39.6	3.2	0.311	8.36	0.47	14.1	3.40	9.40
	11/15/2023	28.3	ND(2.0)	0.347	8.16	0.46	6.3	2.64	10.68
	12/14/2023	34.2	ND(2.0)	0.243	7.57	0.62	2.1	6.39	12.10
RISING POND DAM	4/20/2023	34.3 [36.9]	8.0 [8.4]	0.33	8.08	0.69	10.2	4	11.88
	5/17/2023	39.0 J [25.1 J]	9.2 [10.8]	0.402	8.09	0.60	15.95	7	8.65
	6/14/2023	16.9 J [13.3 J]	4.8 [4.0]	0.47	8.02	0.62	20.0	4.66	6.51
	7/12/2023	50.9 [54.9]	16.0 [19.6]	0.168	7.65	1.07	21.4	45.8	8.26
	8/16/2023	28.8 [28.1]	2.8 J [4.0 J]	0.353	8.44	0.75	22.1	7.59	9.87
	9/13/2023	26.8 J [33.3 J]	4.8 [5.2]	0.326	7.98	0.67	22	4.30	8.44
	10/11/2023	27.4 J [32.5 J]	3.2 [3.6]	0.291	8.17	0.68	13.7	4.04	12.90
	11/15/2023	17.4 [14.3]	ND(2.0) [ND(2.0)]	0.339	8.16	0.67	5.3	2.49	13.22
	12/13/2023	29.2 [33.4]	2.4 [4.0]	0.203	7.95	0.85	2.7	9.26	13.71
RT. 7A BRIDGE	4/19/2023	NA[1]	12	0.310	8.12	1.27	11.1	7	9.35

Table 2-2
Summary of 2023 Surface Water Data

Baseline Monitoring Program: Data Summary Report for 2023
Housatonic River - Rest of River

Location	Sample Date	PCB Congeners By HRMS (EPA 1668C) (ng/L)	Total Suspended Solids (mg/L)	Field Parameters					
				Conductivity (mS/cm)	pH (Standard Units)	Sample Depth (m)	Water Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
RANNAPO RD BRIDGE[2]	5/16/2023	4.32	4.4	0.364	8.25	1.12	18.39	6	7.80
	6/13/2023	2.31	4.8	0.42	8.28	0.86	21.2	4.01	5.37
	7/12/2023	16.1	16.0	0.170	7.72	1.75	22.4	16.5	4.25
	8/16/2023	8.54	5.6 J	0.347	8.25	1.11	22.2	16.4	6.17
	9/13/2023	12.4	6.4	0.334	7.95	0.96	21.8	5.97	8.10
	10/11/2023	20.9	7.2	0.289	8.23	1.10	14.0	6.73	9.40
	11/15/2023	7.01	ND(2.0)	0.351	8.02	0.94	6.3	4.73	7.91
	12/13/2023	15.3	10.0	0.199	7.76	1.73	3.3	12.1	10.20
FALLS VILLAGE DAM	4/14/2023	3.08	2.6	0.26	6.80	0.80	17.7	3	6.44
	5/16/2023	3.94	6.4	0.29	7.45	0.81	17.23	7	10.28
	6/13/2023	2.92	5.2	0.37	8.13	1.33	20.2	3.73	10.43
	7/12/2023	12.3	86.7	0.16	7.37	0.76	20.9	38.1	7.14
	8/15/2023	3.55	3.2 J	0.340	8.09	0.75	21.8	4.49	6.54
	9/13/2023	7.69	4.4	0.341	7.48	0.75	22.2	3.48	7.15
	10/11/2023	12.6	6.4	0.271	8.09	0.66	13.1	6.16	9.38
	11/15/2023	6.25	ND(2.0)	0.336	7.85	0.64	5.2	3.73	13.46
	12/13/2023	14.0	8.4	0.191	7.65	0.90	3.4	9.92	13.23
CANAAN TLINE BRIDGE	4/19/2023	6.59	ND(2.0)	0.162	7.92	1.50	10.8	3	10.65
	5/16/2023	0.670	4.8	0.290	8.45	1.37	18.21	5	9.35
	6/13/2023	1.56	5.6	0.421	8.54	1.20	22.3	4.56	7.02
	7/12/2023	12.1	26.8	0.164	7.87	2.11	23.7	30.6	3.65
	8/15/2023	1.41	8.8 J	0.320	8.39	1.47	21.2	13.6	5.18
	9/12/2023	3.66	3.2	0.343	8.30	1.35	25.6	3.90	8.36
	10/10/2023	18.3	6.0	0.268	8.13	1.60	14.1	6.56	9.12
	11/14/2023	8.27	ND(2.0)	0.328	7.99	1.32	5.6	2.74	8.94
	12/13/2023	11.9	10.4	0.194	7.70	2.12	4.6	14.4	10.34
RT. 341 BRIDGE	4/19/2023	5.32	4.0	0.281	8.38	0.91	12.5	4	7.96
	5/16/2023	0.449	2.8	0.327	8.09	0.79	20.6	2	10.28
	6/13/2023	1.37	4.4	0.368	8.61	0.75	21.7	5.10	5.64
	7/11/2023	8.58	68.0	0.158	8.07	1.57	22.3	46.7	4.66
	8/15/2023	0.732	5.2 J	0.292	8.80	0.76	21.9	5.46	5.10
	9/12/2023	2.11	3.2	0.317	8.54	0.78	23.9	5.45	9.20
	10/10/2023	10.7	8.8	0.265	8.42	0.94	14.6	7.17	7.68
	11/14/2023	4.20	2.4	0.316	8.47	0.71	5.9	1.91	12.44
	12/12/2023	6.91	26.0	0.166	8.08	1.22	5.2	22.6	12.64
RT. 202 BRIDGE	4/18/2023	2.65	ND(2.0)	0.289	8.35	1.2	13.4	3	9.44
	5/15/2023	0.427	2.8	0.296	8.80	1.2	19.26	2	11.52
	6/12/2023	0.525	3.6	0.367	8.60	1.1	21.8	4.32	8.14
	7/11/2023	5.04	66.7	0.182	8.04	2.2	23.0	48.5	4.83
	8/14/2023	0.640	7.2 J	0.277	9.18	1.24	24.6	8.00	8.13
	9/12/2023	1.11	6.0	0.326	7.84	1.24	23.5	5.14	8.50
	10/10/2023	4.57	8.8	0.299	7.59	1.44	14.2	6.96	10.91
	11/14/2023	1.98	ND(2.0)	0.337	8.35	1.26	7.2	1.44	9.49
	12/12/2023	4.31	27.2	0.196	7.69	1.71	5.3	17.1	12.37
SHEPAUG DAM	4/14/2023	3.59	2.4 J	0.226	8.10	10	17.8	4	11.20
	5/15/2023	0.949	4.0	0.259	8.40	9.7	19.31	3	11.75
	6/12/2023	0.0874	2.4	0.289	8.13	10	21.3	1.75	7.82
	7/24/2023	1.12	2.8	0.217	7.73	9.7	25.7	12.3	7.12
	8/14/2023	0.503	ND(2.0 J)	0.275	7.89	9.64	26.7	4.58	5.80
	9/11/2023	0.607	ND(2.0)	0.262	7.81	9.68	26.2	3.72	7.42
	10/9/2023	0.737	2.4	0.216	7.86	9.74	17.0	4.22	7.61
	11/13/2023	1.65	ND(2.0)	0.325	7.85	9.62	9.2	4.32	8.0
	12/11/2023	1.63	2.4	0.241	7.80	9.04	5.4	5.46	14.68

Table 2-2
Summary of 2023 Surface Water Data

Baseline Monitoring Program: Data Summary Report for 2023
Housatonic River - Rest of River

Location	Sample Date	PCB Congeners By HRMS (EPA 1668C) (ng/L)	Total Suspended Solids (mg/L)	Field Parameters					
				Conductivity (mS/cm)	pH (Standard Units)	Sample Depth (m)	Water Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
STEVENSON DAM	4/18/2023	1.53	7.0	0.225	8.22	0.5	12.8	3	11.14
	5/15/2023	0.0346	3.6	0.248	8.33	0.6	17.15	2	13.07
	6/12/2023	ND(0.266)	2.8	0.272	8.45	0.6	19.5	1.47	7.81
	7/11/2023	0.481	5.6	0.274	8.09	0.7	24.0	10.0	7.90
	8/14/2023	ND(0.247)	ND(2.0 J)	0.233	8.76	0.61	25.1	2.26	10.88
	9/11/2023	ND(0.249)	2.0	0.261	7.80	0.66	25.1	2.47	8.99
	10/9/2023	0.178	2.0	0.185	7.33	0.61	17.3	2.36	8.41
	11/13/2023	0.709	ND(2.0)	0.298	7.66	0.46	9.7	1.05	8.77
	12/11/2023	0.158	2.0	0.238	7.63	0.50	4.9	2.66	15.50
DERBY DAM	4/18/2023	1.09	ND(2.0)	0.229	7.56	0.9	11.3	4	11.38
	5/15/2023	0.105	4.0	0.231	7.48	0.9	15.85	4	11.82
	6/12/2023	0.0279	2.4	0.227	8.25	0.9	20.3	2.03	7.66
	7/11/2023	0.263	6.4	0.280	8.06	1.2	24.2	6.31	7.82
	8/14/2023	0.106	ND(2.0 J)	0.242	7.75	1.02	24.0	2.89	7.17
	9/11/2023	0.156	ND(2.0)	0.277	7.43	1.04	23.8	2.20	8.11
	10/9/2023	0.391	2.0	0.184	7.46	0.96	16.3	1.44	9.42
	11/13/2023	0.648	2.4	0.294	7.67	0.85	8.9	1.22	9.11
	12/11/2023	0.409	2.8	0.220	7.59	1.02	5.4	4.36	14.43

Notes

[1] The April 2023 Route 7A Bridge PCB congener sample was lost in shipment to the lab and was not analyzed.

[2] Rannapo Road Bridge (listed as a possible alternate location to Rt. 7A Bridge in the Second Revised Baseline Monitoring Plan) replaced the Route 7A Bridge location starting in May 2023 due to the existence of more favorable river conditions for sampling at that location.

ng/L = nanogram per liter
mg/L = milligram per liter
mS/cm = micro Siemens per centimeter
m = meter
°C = degrees centigrade
NTU = Nephelometric Turbidity unit
NA = Not Analyzed
Field duplicate sample results are presented in brackets.
ND = Analyte was not detected. The number in parentheses is the associated reporting limit.
J = Indicates the compound was positively identified; however, the associated numerical value is an estimated concentration only.

Table 2-3
Fish Sample Counts by Reach and Species

Reach	Description	State	Dates	Shocking Seconds	Sampling Time (hours)	LMB 305 (mm)[1]	SMB 305 (mm)[1]	YP 170 (mm)[1]	BB 200 (mm)[1]	WS	NP 660 (mm)	FF NA	YOY LMB/SMB NA	YOY YP NA	Site Total	Notes
5A	Confluence to WWTP	Massachusetts	9/26/2023 9/27/2023 10/6/2023	1,772 7,963 6,414	4.5	7		10		10			4	7	**38**	No BB observed.
5B/C	WWTP to Woods Pond	Massachusetts	9/27/2023 10/9/2023	9,782 3,718	4.0	10		10	1	10			7	7	**45**	
6	Woods Pond	Massachusetts	9/27/2023 9/28/2023	1,905 7,910	3.0	10		10	0	10			7	7	**44**	No BB observed. 10 WS collected as substitute.
7D		Massachusetts	10/12/2023	15,189	4.5	1		2	5	10			7	0	**25**	Collected 10 WS in addition to BB.
7G	Glendale Dam Impoundment	Massachusetts	10/12/2023	9,645	3.0	10		6	10				7	0	**33**	
8	Rising Pond	Massachusetts	10/13/2023	10,427	3.0	10		7	0	10			1	1	**29**	No BB observed. 10 WS collected as substitute.
9	Massachusetts/Connecticut Border near Route 341 Bridge	Massachusetts	9/28/2023 10/5/2023	12,687 3,910	5.0	10		10	0	10			7	7	**44**	No BB observed. 10 WS collected as substitute.
10	Falls Village	Connecticut	10/5/2023	4,833	2.0	10		10	10						**30**	
11	West Cornwall	Connecticut	10/10/2023	15,178	4.5		10	4	0	10	6		2	0	**32**	No BB observed. 10 WS collected as substitute.
12	Bulls Bridge Impoundment	Connecticut	10/10/2023 10/13/2023	7,394 6,320	4.5		10	2		10	4				**26**	Collected 10 WS as substitute for BB. One BB was collected but not submitted for analysis.
13	Route 7 Gaylordsville to New Milford	Connecticut	10/13/2023	11,282	3.0		10	5				10			**25**	
14	Lake Lillinoah	Connecticut	10/2/2023 10/4/2023	6,818 1,819	2.5	9	10	10	10		10				**49**	LMB not required in this reach per the work plan.
15	Lake Zoar	Connecticut	10/3/2023	20,909	6.0		10	10	10		7				**37**	
16	Lake Housatonic	Connecticut	10/4/2023	9,070	2.5		10	10	10		10				**40**	
					Species Total	**77**	**60**	**106**	**56**	**80**	**37**	**10**	**42**	**29**	**497**	

Notes:
1. Length in mm is total length
YOY composite samples consist of 5 individuals
FF: fallfish
BB: brown bullhead
LMB: largemouth bass
NA: not applicable
NP: northern pike
SMB: smallmouth Bass
YP: yellow perch
WS: white sucker
YOY: young of year

Target sample count reached
Target sample count not reached

Table 2-4
Summary of Water Quality Data Collected During Fish Sampling

Year	Date	Reach	Water Temperature (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
2023	9/26/23	5A	15.48	7.57	0.213	10.0	7.11
	9/27/23	5B/5C	12.55	7.16	0.285	11.2	7.89
	9/27/23	6	14.56	7.37	0.288	13.9	8.39
	10/11/23	7D	12.51	6.95	0.295	0.0	9.31
	10/11/23	7G	12.92	7.13	0.294	3.5	8.69
	10/12/23	8	13.18	7.37	0.312	7.3	7.89
	9/28/23	9	13.32	7.39	0.328	15.5	11.7
	10/5/23	10	21.38	7.72	0.256	3.6	9.23
	10/10/23	11	13.55	7.01	0.277	7.9	9.46
	10/10/23	12	13.52	7.28	0.270	2.5	8.53
	10/13/23	13	13.15	7.03	0.301	0.92	10.1
	10/2/23	14	16.64	7.36	0.186	1.4	9.53
	10/3/23	15	15.86	7.48	0.154	11.3	9.86
	10/4/23	16	16.58	7.59	0.160	0.0	10.7

Notes
mg/L: milligram per liter
mS/cm: milliSiemen per centimeter
NTU: nephelometric turbidity unit

Table 2-5
Summary of Fish Aroclor PCB and Lipid Data

Species	Age	Method	Metric	R05A	R05B/C	R06	R07D	R07G	R08	R09	R10	R11	R12	R13	R14	R15	R16
Brown Bullhead	Adult	--	Sample Count	--	1	--	5	10	--	--	10	--	--	--	10	10	10
		Lipids	Minimum (%)	--	0.7	--	0.97	0.58	--	--	0.92	--	--	--	0.93	0.4	0.83
			Average (%)	--	0.7	--	1.81	0.9	--	--	1.35	--	--	--	1.96	1.17	1.23
			Maximum (%)	--	0.7	--	3.1	1.6	--	--	2	--	--	--	4.7	2.3	2
			Standard Deviation (%)	--	0	--	0.74	0.31	--	--	0.3	--	--	--	1.13	0.68	0.32
		SW8082A	Minimum (mg/kg)	--	2	--	2.04	0.93	--	--	0.0199	--	--	--	0.116	0.0831	0.0208
			Average (mg/kg)	--	2	--	4.41	2.46	--	--	0.74	--	--	--	0.32	0.16	0.09
			Maximum (mg/kg)	--	2	--	6.64	4.2	--	--	1.27	--	--	--	0.6915	0.316	0.134
			Standard Deviation (mg/kg)	--	0	--	1.78	0.92	--	--	0.38	--	--	--	0.15	0.08	0.03
Fallfish	Adult	--	Sample Count	--	--	--	--	--	--	--	--	--	--	10	--	--	--
		Lipids	Minimum (%)	--	--	--	--	--	--	--	--	--	--	0.75	--	--	--
			Average (%)	--	--	--	--	--	--	--	--	--	--	1.11	--	--	--
			Maximum (%)	--	--	--	--	--	--	--	--	--	--	1.5	--	--	--
			Standard Deviation (%)	--	--	--	--	--	--	--	--	--	--	0.27	--	--	--
		SW8082A	Minimum (mg/kg)	--	--	--	--	--	--	--	--	--	--	0.0145	--	--	--
			Average (mg/kg)	--	--	--	--	--	--	--	--	--	--	0.24	--	--	--
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	--	--	0.672	--	--	--
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	--	--	0.21	--	--	--
Largemouth Bass	Adult	--	Sample Count	7	10	10	1	10	10	10	10	--	--	--	9	--	--
		Lipids	Minimum (%)	0.52	0.28	0.6	1.7	0.56	0.43	0.69	0.39	--	--	--	0.62	--	--
			Average (%)	1.23	0.83	0.95	1.7	1.2	0.75	1.26	1.04	--	--	--	1.58	--	--
			Maximum (%)	1.7	1.6	1.6	1.7	2.7	1.3	2.1	1.5	--	--	--	2.5	--	--
			Standard Deviation (%)	0.34	0.42	0.35	0	0.58	0.28	0.4	0.29	--	--	--	0.69	--	--
		SW8082A	Minimum (mg/kg)	4.48	1.88	0.6863	9.51	0.2566	2.54	0.456	0.0094	--	--	--	0.178	--	--
			Average (mg/kg)	8.75	6.24	7.14	9.51	3.8	3.44	1.61	0.77	--	--	--	0.68	--	--
			Maximum (mg/kg)	15.5	13.5	21.1	9.51	8.92	6.17	3.23	2.18	--	--	--	1.71	--	--
			Standard Deviation (mg/kg)	3.47	3.47	6.15	0	2.69	1.03	0.93	0.64	--	--	--	0.51	--	--
	YOY	--	Sample Count	4	7	7	7	7	1	7	--	--	--	--	--	--	--
		Lipids	Minimum (%)	2.5	3.1	2.6	3.1	2.2	2.5	2.3	--	--	--	--	--	--	--
			Average (%)	3.2	3.7	3.26	3.54	2.76	2.5	2.61	--	--	--	--	--	--	--
			Maximum (%)	4.1	4	3.6	4.4	3.1	2.5	2.9	--	--	--	--	--	--	--
			Standard Deviation (%)	0.59	0.31	0.32	0.38	0.26	0	0.2	--	--	--	--	--	--	--
		SW8082A	Minimum (mg/kg)	11.4	8.949	8.623	6.92	5.49	11	1.96	--	--	--	--	--	--	--
			Average (mg/kg)	12.28	13.18	12.75	9.04	7.11	11	2.49	--	--	--	--	--	--	--
			Maximum (mg/kg)	13.3	16.051	17.629	14.667	8.28	11	2.84	--	--	--	--	--	--	--
			Standard Deviation (mg/kg)	0.7	2.15	3.13	2.4	0.97	0	0.27	--	--	--	--	--	--	--

Table 2-5
Summary of Fish Aroclor PCB and Lipid Data

Species	Age	Method	Metric	R05A	R05B/C	R06	R07D	R07G	R08	R09	R10	R11	R12	R13	R14	R15	R16
Northern Pike	Adult	--	Sample Count	--	--	--	--	--	--	--	--	6	4	--	10	7	10
		Lipids	Minimum (%)	--	--	--	--	--	--	--	--	1	0.41	--	1	0.33	0.6
			Average (%)	--	--	--	--	--	--	--	--	1.87	0.73	--	1.7	1.05	1.6
			Maximum (%)	--	--	--	--	--	--	--	--	3.9	1.1	--	2.4	1.4	3.6
			Standard Deviation (%)	--	--	--	--	--	--	--	--	1.1	0.26	--	0.42	0.35	1
		SW8082A	Minimum (mg/kg)	--	--	--	--	--	--	--	--	1.61	0.786	--	0.215	0.968	0.1408
			Average (mg/kg)	--	--	--	--	--	--	--	--	3.36	1.4	--	1.81	2.04	0.97
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	7.15	2.31	--	3.25	3.51	2.612
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	1.91	0.59	--	1.04	0.74	0.93
Smallmouth Bass	Adult	--	Sample Count	--	--	--	--	--	--	--	--	10	10	10	10	10	10
		Lipids	Minimum (%)	--	--	--	--	--	--	--	--	0.96	0.67	0.92	1.1	0.7	0.9
			Average (%)	--	--	--	--	--	--	--	--	1.38	1.15	1.26	1.99	1.71	2.1
			Maximum (%)	--	--	--	--	--	--	--	--	2	1.7	1.9	3	3.4	2.9
			Standard Deviation (%)	--	--	--	--	--	--	--	--	0.29	0.31	0.36	0.56	0.85	0.6
		SW8082A	Minimum (mg/kg)	--	--	--	--	--	--	--	--	0.46	0.679	0.39	0.195	0.1706	0.1913
			Average (mg/kg)	--	--	--	--	--	--	--	--	1.32	1	0.54	0.81	0.69	0.38
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	3.06	1.49	0.738	2.05	1.93	0.7392
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	0.75	0.27	0.15	0.47	0.51	0.16
	YOY	--	Sample Count	--	--	--	--	--	--	--	--	2	--	--	--	--	--
		Lipids	Minimum (%)	--	--	--	--	--	--	--	--	4.4	--	--	--	--	--
			Average (%)	--	--	--	--	--	--	--	--	4.45	--	--	--	--	--
			Maximum (%)	--	--	--	--	--	--	--	--	4.5	--	--	--	--	--
			Standard Deviation (%)	--	--	--	--	--	--	--	--	0.05	--	--	--	--	--
		SW8082A	Minimum (mg/kg)	--	--	--	--	--	--	--	--	1.82	--	--	--	--	--
			Average (mg/kg)	--	--	--	--	--	--	--	--	1.9	--	--	--	--	--
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	1.97	--	--	--	--	--
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	0.08	--	--	--	--	--
White Sucker	Adult	--	Sample Count	10	10	10	10	--	10	10	--	10	10	--	--	--	--
		Lipids	Minimum (%)	0.56	0.78	0.46	0.58	--	1.3	0.93	--	1.4	0.96	--	--	--	--
			Average (%)	1.51	1.63	1.34	3.55	--	2.62	2.62	--	3.06	1.28	--	--	--	--
			Maximum (%)	2.6	3.6	2.6	7	--	3.8	3.8	--	4.5	2.2	--	--	--	--
			Standard Deviation (%)	0.58	0.79	0.66	1.94	--	0.75	1.03	--	1.04	0.47	--	--	--	--
		SW8082A	Minimum (mg/kg)	2.21	3.7	3.24	2.36	--	2.54	0.0082	--	1.05	0.21	--	--	--	--
			Average (mg/kg)	7.7	11.73	8.56	14	--	5.11	2.68	--	2.74	0.29	--	--	--	--
			Maximum (mg/kg)	19.7	20.3	14.869	26.9	--	10.695	5.04	--	5.19	0.4903	--	--	--	--
			Standard Deviation (mg/kg)	4.84	5.7	4.04	8.23	--	2.34	1.58	--	1.33	0.09	--	--	--	--

Table 2-5
Summary of Fish Aroclor PCB and Lipid Data

Species	Age	Method	Metric	R05A	R05B/C	R06	R07D	R07G	R08	R09	R10	R11	R12	R13	R14	R15	R16
Yellow Perch	Adult	--	Sample Count	10	10	10	2	6	7	10	10	4	2	5	10	10	10
		Lipids	Minimum (%)	0.68	0.4	0.49	0.48	0.64	0.47	0.63	0.73	0.68	0.81	0.76	0.36	0.44	0.34
			Average (%)	0.88	0.66	0.68	0.74	0.86	0.73	0.95	0.98	0.92	0.95	1.11	0.52	0.56	0.51
			Maximum (%)	1.2	0.96	0.82	1	1	0.96	1.5	1.2	1.2	1.1	1.4	0.84	0.75	0.68
			Standard Deviation (%)	0.15	0.15	0.1	0.27	0.14	0.14	0.26	0.13	0.24	0.15	0.24	0.14	0.1	0.1
		SW8082A	Minimum (mg/kg)	2.29	1.75	1.39	1.65	1.22	0.8747	0.242	0.2195	0.289	0.22	0.1718	0.0256	0.0485	0.036
			Average (mg/kg)	3.5	2.5	3.42	3.1	1.55	1.52	0.66	0.49	0.6	0.29	0.21	0.08	0.08	0.08
			Maximum (mg/kg)	4.76	3.98	6.85	4.56	2.05	2.21	1.01	1.12	1.01	0.359	0.241	0.171	0.134	0.1823
			Standard Deviation (mg/kg)	0.84	0.77	1.56	1.51	0.31	0.43	0.27	0.25	0.27	0.07	0.03	0.04	0.03	0.04
	YOY	--	Sample Count	7	7	7	--	--	1	7	--	--	--	--	--	--	--
		Lipids	Minimum (%)	2.4	2.4	2.2	--	--	2.6	1.9	--	--	--	--	--	--	--
			Average (%)	3.44	3.52	2.82	--	--	2.6	2.35	--	--	--	--	--	--	--
			Maximum (%)	4.1	4.3	3.2	--	--	2.6	2.8	--	--	--	--	--	--	--
			Standard Deviation (%)	0.6	0.72	0.32	--	--	0	0.3	--	--	--	--	--	--	--
		SW8082A	Minimum (mg/kg)	7.16	8.936	10.32	--	--	6.19	2.35	--	--	--	--	--	--	--
			Average (mg/kg)	9.67	12.33	11.73	--	--	6.19	2.73	--	--	--	--	--	--	--
			Maximum (mg/kg)	11.901	14.034	12.72	--	--	6.19	3.27	--	--	--	--	--	--	--
			Standard Deviation (mg/kg)	1.48	1.6	0.97	--	--	0	0.26	--	--	--	--	--	--	--

Notes:
--: not applicable
mg/kg: milligram per kilogram
YOY: young of year

Table 2-6
Summary of Fish Congener PCB Data

Species	Age	Method	Metric	R05A	R05C	R06	R07D	R07G	R08	R09	R10	R11	R12	R13	R14	R15	R16
Brown Bullhead	Adult	--	Sample Count	--	--	--	--	--	--	--	--	--	--	--	--	10	--
		E1668C	Minimum (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	0.11	--
			Average (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	0.24	--
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	0.44	--
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	0.11	--
Largemouth Bass	Adult	--	Sample Count	--	10	10	--	--	10	--	--	--	--	--	--	--	--
		E1668C	Minimum (mg/kg)	--	2.5	0.78	--	--	2.5	--	--	--	--	--	--	--	--
			Average (mg/kg)	--	4.69	4.64	--	--	3.08	--	--	--	--	--	--	--	--
			Maximum (mg/kg)	--	7.2	7.4	--	--	3.8	--	--	--	--	--	--	--	--
			Standard Deviation (mg/kg)	--	1.32	1.85	--	--	0.42	--	--	--	--	--	--	--	--
	YOY	--	Sample Count	4	3	5	2	--	--	--	--	--	--	--	--	--	--
		E1668C	Minimum (mg/kg)	6.5	8.2	7.6	5.1	--	--	--	--	--	--	--	--	--	--
			Average (mg/kg)	7.03	9.04	9.1	5.95	--	--	--	--	--	--	--	--	--	--
			Maximum (mg/kg)	7.4	9.5	12	6.8	--	--	--	--	--	--	--	--	--	--
			Standard Deviation (mg/kg)	0.37	0.65	1.58	0.9	--	--	--	--	--	--	--	--	--	--
Northern Pike	Adult	--	Sample Count	--	--	--	--	--	--	--	--	--	--	--	--	7	--
		E1668C	Minimum (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	1.4	--
			Average (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	2.1	--
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	3.4	--
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	0.63	--
Smallmouth Bass	Adult	--	Sample Count	--	--	--	--	--	--	--	--	10	--	--	--	10	--
		E1668C	Minimum (mg/kg)	--	--	--	--	--	--	--	--	0.7	--	--	--	0.2	--
			Average (mg/kg)	--	--	--	--	--	--	--	--	1.28	--	--	--	0.7	--
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	2.3	--	--	--	1.6	--
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	0.48	--	--	--	0.41	--
	YOY	--	Sample Count	--	--	--	--	--	--	--	--	2	--	--	--	--	--
		E1668C	Minimum (mg/kg)	--	--	--	--	--	--	--	--	1.7	--	--	--	--	--
			Average (mg/kg)	--	--	--	--	--	--	--	--	2.05	--	--	--	--	--
			Maximum (mg/kg)	--	--	--	--	--	--	--	--	2.4	--	--	--	--	--
			Standard Deviation (mg/kg)	--	--	--	--	--	--	--	--	0.37	--	--	--	--	--
White Sucker	Adult	--	Sample Count	--	10	10	1	--	10	--	--	10	--	--	--	--	--
		E1668C	Minimum (mg/kg)	--	4.4	2.7	9.2	--	3.3	--	--	1.4	--	--	--	--	--
			Average (mg/kg)	--	6.41	5.8	9.2	--	4.37	--	--	2.61	--	--	--	--	--
			Maximum (mg/kg)	--	8.4	8.1	9.2	--	6	--	--	4.5	--	--	--	--	--
			Standard Deviation (mg/kg)	--	1.49	1.86	0	--	0.73	--	--	0.94	--	--	--	--	--

Notes:
--: note applicable
mg/kg: milligram per kilogram
YOY: young of year

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
Reach 05A			
Largemouth Bass	Adult	HBMP-R05A-01LB-01-ADLT-20230926	--
		HBMP-R05A-01LB-01-ADLT-20230927	--
		HBMP-R05A-01LB-01-ADLT-20231006	--
		HBMP-R05A-01LB-02-ADLT-20230927	--
		HBMP-R05A-01LB-02-ADLT-20231006	--
		HBMP-R05A-01LB-03-ADLT-20230927	--
		HBMP-R05A-01LB-04-ADLT-20230927	--
	YOY	HBMP-R05A-01LB-01-YOY-20230928	--
		HBMP-R05A-01LB-02-YOY-20230928	--
		HBMP-R05A-01LB-03-YOY-20230928	--
		HBMP-R05A-01LB-04-YOY-20230928	--
		HBMP-R05A-01LB-05-YOY-20230928	--
		HBMP-R05A-01LB-06-YOY-20230928	--
		HBMP-R05A-01LB-07-YOY-20230928	--
		HBMP-R05A-01LB-08-YOY-20230928	--
		HBMP-R05A-01LB-09-YOY-20230928	--
		HBMP-R05A-01LB-10-YOY-20230928	--
White Sucker	Adult	HBMP-R05A-01WS-01-ADLT-20230926	--
		HBMP-R05A-01WS-02-ADLT-20230926	--
		HBMP-R05A-01WS-03-ADLT-20230926	--
		HBMP-R05A-01WS-04-ADLT-20230926	--
		HBMP-R05A-01WS-05-ADLT-20230926	--
		HBMP-R05A-01WS-06-ADLT-20230926	--
		HBMP-R05A-01WS-07-ADLT-20230926	--
		HBMP-R05A-01WS-08-ADLT-20230926	--
		HBMP-R05A-01WS-09-ADLT-20230926	--
		HBMP-R05A-01WS-10-ADLT-20230926	--
Yellow Perch	Adult	HBMP-R05A-01YP-01-ADLT-20230926	--
		HBMP-R05A-01YP-01-ADLT-20230927	--
		HBMP-R05A-01YP-02-ADLT-20230926	--
		HBMP-R05A-01YP-02-ADLT-20230927	--
		HBMP-R05A-01YP-03-ADLT-20230926	--
		HBMP-R05A-01YP-03-ADLT-20230927	--
		HBMP-R05A-01YP-04-ADLT-20230926	--
		HBMP-R05A-01YP-05-ADLT-20230926	--
		HBMP-R05A-01YP-06-ADLT-20230926	--
		HBMP-R05A-01YP-07-ADLT-20230926	--
	YOY	HBMP-R05A-01YP-01-YOY-20230928	--
		HBMP-R05A-01YP-02-YOY-20230928	--
		HBMP-R05A-01YP-03-YOY-20230928	--
		HBMP-R05A-01YP-04-YOY-20230928	--
		HBMP-R05A-01YP-05-YOY-20230928	--
		HBMP-R05A-01YP-06-YOY-20230928	--
		HBMP-R05A-01YP-07-YOY-20230928	--
Reach 05B/C			
Brown Bullhead	Adult	HBMP-R05C-01BB-01-ADLT-20230927	--
Largemouth Bass	Adult	HBMP-R05C-01LB-01-ADLT-20230927	--
		HBMP-R05C-01LB-02-ADLT-20230927-RE	--
		HBMP-R05C-01LB-03-ADLT-20230927	--
		HBMP-R05C-01LB-04-ADLT-20230927	--
		HBMP-R05C-01LB-05-ADLT-20230927	--
		HBMP-R05C-01LB-06-ADLT-20230927	--
		HBMP-R05C-01LB-07-ADLT-20230927	Lesion on the left side above opercular flap
		HBMP-R05C-01LB-08-ADLT-20230927	--
		HBMP-R05C-01LB-09-ADLT-20230927	--
		HBMP-R05C-01LB-10-ADLT-20230927	--
	YOY	HBMP-R05C-01LB-01-YOY-20230928	--
		HBMP-R05C-01LB-02-YOY-20230928	--
		HBMP-R05C-01LB-03-YOY-20230928	--
		HBMP-R05C-01LB-04-YOY-20230928	--
		HBMP-R05C-01LB-05-YOY-20230928	--
		HBMP-R05C-01LB-06-YOY-20230928	--
		HBMP-R05C-01LB-07-YOY-20230928	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
White Sucker	Adult	HBMP-R05C-01WS-01-ADLT-20230927	--
		HBMP-R05C-01WS-02-ADLT-20230927-RE	--
		HBMP-R05C-01WS-03-ADLT-20230927	--
		HBMP-R05C-01WS-04-ADLT-20230927	--
		HBMP-R05C-01WS-05-ADLT-20230927	--
		HBMP-R05C-01WS-06-ADLT-20230927	--
		HBMP-R05C-01WS-07-ADLT-20230927	--
		HBMP-R05C-01WS-08-ADLT-20230927	--
		HBMP-R05C-01WS-09-ADLT-20230927	--
		HBMP-R05C-01WS-10-ADLT-20230927	--
Yellow Perch	Adult	HBMP-R05C-01YP-01-ADLT-20230927	--
		HBMP-R05C-01YP-02-ADLT-20230927	--
		HBMP-R05C-01YP-03-ADLT-20230927	--
		HBMP-R05C-01YP-04-ADLT-20230927	--
		HBMP-R05C-01YP-05-ADLT-20230927	--
Yellow Perch (cont)	Adult (cont.)	HBMP-R05C-01YP-06-ADLT-20230927	--
		HBMP-R05C-01YP-07-ADLT-20230927	--
		HBMP-R05C-01YP-08-ADLT-20230927	--
		HBMP-R05C-01YP-09-ADLT-20230927	--
		HBMP-R05C-01YP-10-ADLT-20230927	--
	YOY	HBMP-R05C-01YP-01-YOY-20230927	--
		HBMP-R05C-01YP-01-YOY-20230928	--
		HBMP-R05C-01YP-01-YOY-20231009	--
		HBMP-R05C-01YP-02-YOY-20230928	--
		HBMP-R05C-01YP-02-YOY-20231009	--
		HBMP-R05C-01YP-03-YOY-20231009	--
		HBMP-R05C-01YP-04-YOY-20231009	--
		HBMP-R05C-01YP-05-YOY-20231009	--
Reach 06			
Largemouth Bass	Adult	HBMP-R06-01LB-01-ADLT-20230928	--
		HBMP-R06-01LB-02-ADLT-20230928	--
		HBMP-R06-01LB-03-ADLT-20230928	--
		HBMP-R06-01LB-04-ADLT-20230928	--
		HBMP-R06-01LB-05-ADLT-20230928	--
		HBMP-R06-01LB-06-ADLT-20230928	--
		HBMP-R06-01LB-07-ADLT-20230928	--
		HBMP-R06-01LB-08-ADLT-20230928	--
		HBMP-R06-01LB-09-ADLT-20230928	--
		HBMP-R06-01LB-10-ADLT-20230928	--
	YOY	HBMP-R06-01LB-01-YOY-20230928	--
		HBMP-R06-01LB-02-YOY-20230928	--
		HBMP-R06-01LB-03-YOY-20230928	--
		HBMP-R06-01LB-04-YOY-20230928	--
		HBMP-R06-01LB-05-YOY-20230928	--
		HBMP-R06-01LB-06-YOY-20230928	--
		HBMP-R06-01LB-07-YOY-20230928	--
White Sucker	Adult	HBMP-R06-01WS-01-ADLT-20230928	--
		HBMP-R06-01WS-02-ADLT-20230928	--
		HBMP-R06-01WS-03-ADLT-20230928	--
		HBMP-R06-01WS-04-ADLT-20230928	--
		HBMP-R06-01WS-05-ADLT-20230928	--
		HBMP-R06-01WS-06-ADLT-20230928	--
		HBMP-R06-01WS-07-ADLT-20230928	--
		HBMP-R06-01WS-08-ADLT-20230928	--
		HBMP-R06-01WS-09-ADLT-20230928	--
		HBMP-R06-01WS-10-ADLT-20230928	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
Yellow Perch	Adult	HBMP-R06-01YP-01-ADLT-20230928	--
		HBMP-R06-01YP-02-ADLT-20230928	--
		HBMP-R06-01YP-03-ADLT-20230928	--
		HBMP-R06-01YP-04-ADLT-20230928	--
		HBMP-R06-01YP-05-ADLT-20230928	--
		HBMP-R06-01YP-06-ADLT-20230928	--
		HBMP-R06-01YP-07-ADLT-20230928	--
		HBMP-R06-01YP-08-ADLT-20230928	--
		HBMP-R06-01YP-09-ADLT-20230928	--
		HBMP-R06-01YP-10-ADLT-20230928	--
	YOY	HBMP-R06-01YP-01-YOY-20230928	--
		HBMP-R06-01YP-02-YOY-20230928	--
		HBMP-R06-01YP-03-YOY-20230928	--
		HBMP-R06-01YP-04-YOY-20230928	--
		HBMP-R06-01YP-05-YOY-20230928	--
		HBMP-R06-01YP-06-YOY-20230928	--
		HBMP-R06-01YP-07-YOY-20230928	--
Reach 07D			
Brown Bullhead	Adult	HBMP-R07D-01BB-01-ADLT-20231011	--
		HBMP-R07D-01BB-02-ADLT-20231011	--
		HBMP-R07D-01BB-03-ADLT-20231011	--
		HBMP-R07D-01BB-04-ADLT-20231011	--
		HBMP-R07D-01BB-05-ADLT-20231011	--
Largemouth Bass	Adult	HBMP-R07D-01LB-01-ADLT-20231011	--
	YOY	HBMP-R07D-01LB-01-YOY-20231011	--
		HBMP-R07D-01LB-02-YOY-20231011	--
		HBMP-R07D-01LB-03-YOY-20231011	--
		HBMP-R07D-01LB-04-YOY-20231011	--
		HBMP-R07D-01LB-05-YOY-20231011	--
		HBMP-R07D-01LB-06-YOY-20231011	--
		HBMP-R07D-01LB-07-YOY-20231011	--
White Sucker	Adult	HBMP-R07D-01WS-01-ADLT-20231011	--
		HBMP-R07D-01WS-02-ADLT-20231011-RE	--
		HBMP-R07D-01WS-03-ADLT-20231011	--
		HBMP-R07D-01WS-04-ADLT-20231011	--
		HBMP-R07D-01WS-05-ADLT-20231011	--
		HBMP-R07D-01WS-06-ADLT-20231011	--
		HBMP-R07D-01WS-07-ADLT-20231011	--
		HBMP-R07D-01WS-08-ADLT-20231011	--
		HBMP-R07D-01WS-09-ADLT-20231011	--
		HBMP-R07D-01WS-10-ADLT-20231011	--
Yellow Perch	Adult	HBMP-R07D-01YP-01-ADLT-20231011	--
		HBMP-R07D-01YP-02-ADLT-20231011	--
Reach O7G			
Brown Bullhead	Adult	HBMP-R07G-01BB-01-ADLT-20231012	--
		HBMP-R07G-01BB-02-ADLT-20231012	--
		HBMP-R07G-01BB-03-ADLT-20231012	--
		HBMP-R07G-01BB-04-ADLT-20231012	--
		HBMP-R07G-01BB-05-ADLT-20231012	--
		HBMP-R07G-01BB-06-ADLT-20231012	--
		HBMP-R07G-01BB-07-ADLT-20231012	--
		HBMP-R07G-01BB-08-ADLT-20231012	--
		HBMP-R07G-01BB-09-ADLT-20231012	--
		HBMP-R07G-01BB-10-ADLT-20231012	--
Largemouth Bass	Adult	HBMP-R07G-01LB-01-ADLT-20231012	--
		HBMP-R07G-01LB-02-ADLT-20231012	--
		HBMP-R07G-01LB-03-ADLT-20231012	--
		HBMP-R07G-01LB-04-ADLT-20231012	--
		HBMP-R07G-01LB-05-ADLT-20231012	--
		HBMP-R07G-01LB-06-ADLT-20231012	--
		HBMP-R07G-01LB-07-ADLT-20231012	--
		HBMP-R07G-01LB-08-ADLT-20231012	--
		HBMP-R07G-01LB-09-ADLT-20231012	--
		HBMP-R07G-01LB-10-ADLT-20231012	--
	YOY	HBMP-R07G-01LB-01-YOY-20231012	--
		HBMP-R07G-01LB-02-YOY-20231012	--
		HBMP-R07G-01LB-03-YOY-20231012	--
		HBMP-R07G-01LB-04-YOY-20231012	--
		HBMP-R07G-01LB-05-YOY-20231012	--
		HBMP-R07G-01LB-06-YOY-20231012	--
		HBMP-R07G-01LB-07-YOY-20231012	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
Yellow Perch	Adult	HBMP-R07G-01YP-01-ADLT-20231012	--
		HBMP-R07G-01YP-02-ADLT-20231012	--
		HBMP-R07G-01YP-03-ADLT-20231012	--
		HBMP-R07G-01YP-04-ADLT-20231012	--
		HBMP-R07G-01YP-05-ADLT-20231012	--
		HBMP-R07G-01YP-06-ADLT-20231012	--
Reach 08			
Largemouth Bass	Adult	HBMP-R08-01LB-01-ADLT-20231012	--
		HBMP-R08-01LB-01-ADLT-20231013	--
		HBMP-R08-01LB-02-ADLT-20231012	--
		HBMP-R08-01LB-03-ADLT-20231012	--
		HBMP-R08-01LB-04-ADLT-20231012	--
		HBMP-R08-01LB-05-ADLT-20231012	--
		HBMP-R08-01LB-06-ADLT-20231012	--
		HBMP-R08-01LB-07-ADLT-20231012	--
		HBMP-R08-01LB-08-ADLT-20231012	--
		HBMP-R08-01LB-09-ADLT-20231012	--
	YOY	HBMP-R08-01LB-01-YOY-20231013	--
White Sucker	Adult	HBMP-R08-01WS-01-ADLT-20231012	--
		HBMP-R08-01WS-02-ADLT-20231012	--
		HBMP-R08-01WS-03-ADLT-20231012	--
		HBMP-R08-01WS-04-ADLT-20231012	--
		HBMP-R08-01WS-05-ADLT-20231012	--
		HBMP-R08-01WS-06-ADLT-20231012	--
		HBMP-R08-01WS-07-ADLT-20231012	--
		HBMP-R08-01WS-08-ADLT-20231012	--
		HBMP-R08-01WS-09-ADLT-20231012	--
		HBMP-R08-01WS-10-ADLT-20231012	--
Yellow Perch	Adult	HBMP-R08-01YP-01-ADLT-20231012	--
		HBMP-R08-01YP-01-ADLT-20231013	--
		HBMP-R08-01YP-02-ADLT-20231012	--
		HBMP-R08-01YP-02-ADLT-20231013	--
		HBMP-R08-01YP-03-ADLT-20231012	--
		HBMP-R08-01YP-03-ADLT-20231013	--
		HBMP-R08-01YP-04-ADLT-20231012	--
	YOY	HBMP-R08-01YP-01-YOY-20231013	--
Reach 09			
Largemouth Bass	Adult	HBMP-R09-01LB-01-ADLT-20230929	--
		HBMP-R09-01LB-01-ADLT-20231005	--
		HBMP-R09-01LB-02-ADLT-20230929	--
		HBMP-R09-01LB-02-ADLT-20231005	--
		HBMP-R09-01LB-03-ADLT-20230929	--
		HBMP-R09-01LB-04-ADLT-20230929	--
		HBMP-R09-01LB-05-ADLT-20230929	--
		HBMP-R09-01LB-06-ADLT-20230929	--
		HBMP-R09-01LB-07-ADLT-20230929	--
		HBMP-R09-01LB-08-ADLT-20230929	--
	YOY	HBMP-R09-01LB-01-YOY-20230929	--
		HBMP-R09-01LB-02-YOY-20230929	--
		HBMP-R09-01LB-03-YOY-20230929	--
Largemouth Bass (cont.)	YOY (cont.)	HBMP-R09-01LB-04-YOY-20230929	--
		HBMP-R09-01LB-05-YOY-20230929	--
		HBMP-R09-01LB-06-YOY-20230929	--
		HBMP-R09-01LB-07-YOY-20230929	--
White Sucker	Adult	HBMP-R09-01WS-01-ADLT-20230928	--
		HBMP-R09-01WS-01-ADLT-20231005	--
		HBMP-R09-01WS-02-ADLT-20230928	--
		HBMP-R09-01WS-02-ADLT-20231005	--
		HBMP-R09-01WS-03-ADLT-20230928	--
		HBMP-R09-01WS-03-ADLT-20231005	--
		HBMP-R09-01WS-04-ADLT-20230928	Wound near the dorsal fin
		HBMP-R09-01WS-04-ADLT-20231005	--
		HBMP-R09-01WS-05-ADLT-20230928	--
		HBMP-R09-01WS-05-ADLT-20231005	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
Yellow Perch	Adult	HBMP-R09-01YP-01-ADLT-20230928	--
		HBMP-R09-01YP-01-ADLT-20231005	--
		HBMP-R09-01YP-02-ADLT-20230928	--
		HBMP-R09-01YP-02-ADLT-20231005	--
		HBMP-R09-01YP-03-ADLT-20231005	--
		HBMP-R09-01YP-04-ADLT-20231005	--
		HBMP-R09-01YP-05-ADLT-20231005	--
		HBMP-R09-01YP-06-ADLT-20231005	--
		HBMP-R09-01YP-07-ADLT-20231005	--
		HBMP-R09-01YP-08-ADLT-20231005	--
	YOY	HBMP-R09-01YP-01-YOY-20230929	--
		HBMP-R09-01YP-02-YOY-20230929	--
		HBMP-R09-01YP-03-YOY-20230929	--
		HBMP-R09-01YP-04-YOY-20230929	--
		HBMP-R09-01YP-05-YOY-20230929	--
		HBMP-R09-01YP-06-YOY-20230929	--
		HBMP-R09-01YP-07-YOY-20230929	--
Reach 10			
Brown Bullhead	Adult	HBMP-R10-01BB-01-ADLT-20231006	--
		HBMP-R10-01BB-02-ADLT-20231006	--
		HBMP-R10-01BB-03-ADLT-20231006	--
		HBMP-R10-01BB-04-ADLT-20231006	--
		HBMP-R10-01BB-05-ADLT-20231006	--
		HBMP-R10-01BB-06-ADLT-20231006	--
		HBMP-R10-01BB-07-ADLT-20231006	--
		HBMP-R10-01BB-08-ADLT-20231006	--
		HBMP-R10-01BB-09-ADLT-20231006	--
		HBMP-R10-01BB-10-ADLT-20231006	--
Largemouth Bass	Adult	HBMP-R10-01LB-01-ADLT-20231006	--
		HBMP-R10-01LB-02-ADLT-20231006	--
		HBMP-R10-01LB-03-ADLT-20231006	--
		HBMP-R10-01LB-04-ADLT-20231006	--
		HBMP-R10-01LB-05-ADLT-20231006	--
		HBMP-R10-01LB-06-ADLT-20231006	--
		HBMP-R10-01LB-07-ADLT-20231006	--
		HBMP-R10-01LB-08-ADLT-20231006	--
		HBMP-R10-01LB-09-ADLT-20231006	--
		HBMP-R10-01LB-10-ADLT-20231006	--
Yellow Perch	Adult	HBMP-R10-01YP-01-ADLT-20231006	--
		HBMP-R10-01YP-02-ADLT-20231006	--
		HBMP-R10-01YP-03-ADLT-20231006	--
		HBMP-R10-01YP-04-ADLT-20231006	--
		HBMP-R10-01YP-05-ADLT-20231006	--
		HBMP-R10-01YP-06-ADLT-20231006	--
		HBMP-R10-01YP-07-ADLT-20231006	--
		HBMP-R10-01YP-08-ADLT-20231006	--
		HBMP-R10-01YP-09-ADLT-20231006	--
		HBMP-R10-01YP-10-ADLT-20231006	--
Reach 11			
Northern Pike	Adult	HBMP-R11-01NP-01-ADLT-20231011	--
		HBMP-R11-01NP-02-ADLT-20231011	--
		HBMP-R11-01NP-03-ADLT-20231011	--
		HBMP-R11-01NP-04-ADLT-20231011	--
		HBMP-R11-01NP-05-ADLT-20231011	--
		HBMP-R11-01NP-06-ADLT-20231011	--
Smallmouth Bass	Adult	HBMP-R11-01SB-01-ADLT-20231011	--
		HBMP-R11-01SB-02-ADLT-20231011	--
		HBMP-R11-01SB-03-ADLT-20231011	--
		HBMP-R11-01SB-04-ADLT-20231011	--
		HBMP-R11-01SB-05-ADLT-20231011	--
		HBMP-R11-01SB-06-ADLT-20231011	--
		HBMP-R11-01SB-07-ADLT-20231011	--
		HBMP-R11-01SB-08-ADLT-20231011	--
		HBMP-R11-01SB-09-ADLT-20231011	--
		HBMP-R11-01SB-10-ADLT-20231011	--
	YOY	HBMP-R11-01SB-01-YOY-20231011	--
		HBMP-R11-01SB-02-YOY-20231011	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
White Sucker	Adult	HBMP-R11-01WS-01-ADLT-20231011	--
		HBMP-R11-01WS-02-ADLT-20231011	--
		HBMP-R11-01WS-03-ADLT-20231011	--
		HBMP-R11-01WS-04-ADLT-20231011	--
		HBMP-R11-01WS-05-ADLT-20231011	--
		HBMP-R11-01WS-06-ADLT-20231011	--
		HBMP-R11-01WS-07-ADLT-20231011	--
		HBMP-R11-01WS-08-ADLT-20231011	--
		HBMP-R11-01WS-09-ADLT-20231011	--
		HBMP-R11-01WS-10-ADLT-20231011	--
Yellow Perch	Adult	HBMP-R11-01YP-01-ADLT-20231011	--
		HBMP-R11-01YP-02-ADLT-20231011	--
		HBMP-R11-01YP-03-ADLT-20231011	--
		HBMP-R11-01YP-04-ADLT-20231011	--
Reach 12			
Northern Pike	Adult	HBMP-R12-01NP-01-ADLT-20231011	--
		HBMP-R12-01NP-01-ADLT-20231013	--
		HBMP-R12-01NP-02-ADLT-20231013	--
		HBMP-R12-01NP-03-ADLT-20231013	--
Smallmouth Bass	Adult	HBMP-R12-01SB-01-ADLT-20231011	--
		HBMP-R12-01SB-02-ADLT-20231011	--
		HBMP-R12-01SB-03-ADLT-20231011	--
		HBMP-R12-01SB-04-ADLT-20231011	--
		HBMP-R12-01SB-05-ADLT-20231011	--
		HBMP-R12-01SB-06-ADLT-20231011	--
		HBMP-R12-01SB-07-ADLT-20231011	--
		HBMP-R12-01SB-08-ADLT-20231011	--
		HBMP-R12-01SB-09-ADLT-20231011	--
		HBMP-R12-01SB-10-ADLT-20231011	--
White Sucker	Adult	HBMP-R12-01WS-01-ADLT-20231013	--
		HBMP-R12-01WS-02-ADLT-20231013	--
		HBMP-R12-01WS-03-ADLT-20231013	--
		HBMP-R12-01WS-04-ADLT-20231013	--
		HBMP-R12-01WS-05-ADLT-20231013	--
		HBMP-R12-01WS-06-ADLT-20231013	--
		HBMP-R12-01WS-07-ADLT-20231013	--
		HBMP-R12-01WS-08-ADLT-20231013	--
		HBMP-R12-01WS-09-ADLT-20231013	--
		HBMP-R12-01WS-10-ADLT-20231013	--
Yellow Perch	Adult	HBMP-R12-01YP-01-ADLT-20231011	--
		HBMP-R12-01YP-01-ADLT-20231013	--
Reach 13			
Fallfish	Adult	HBMP-R13-01FL-01-ADLT-20231013	--
		HBMP-R13-01FL-02-ADLT-20231013	--
		HBMP-R13-01FL-03-ADLT-20231013	--
		HBMP-R13-01FL-04-ADLT-20231013	--
		HBMP-R13-01FL-05-ADLT-20231013	--
		HBMP-R13-01FL-06-ADLT-20231013	--
		HBMP-R13-01FL-07-ADLT-20231013	--
		HBMP-R13-01FL-08-ADLT-20231013	--
		HBMP-R13-01FL-09-ADLT-20231013	--
		HBMP-R13-01FL-10-ADLT-20231013	--
Smallmouth Bass	Adult	HBMP-R13-01SB-01-ADLT-20231013	--
		HBMP-R13-01SB-02-ADLT-20231013	--
		HBMP-R13-01SB-03-ADLT-20231013	--
		HBMP-R13-01SB-04-ADLT-20231013	--
		HBMP-R13-01SB-05-ADLT-20231013	--
		HBMP-R13-01SB-06-ADLT-20231013	--
		HBMP-R13-01SB-07-ADLT-20231013	--
		HBMP-R13-01SB-08-ADLT-20231013	--
		HBMP-R13-01SB-09-ADLT-20231013	--
		HBMP-R13-01SB-10-ADLT-20231013	--
Yellow Perch	Adult	HBMP-R13-01YP-01-ADLT-20231013	--
		HBMP-R13-01YP-02-ADLT-20231013	--
		HBMP-R13-01YP-03-ADLT-20231013	--
		HBMP-R13-01YP-04-ADLT-20231013	--
		HBMP-R13-01YP-05-ADLT-20231013	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
Reach 14			
Brown Bullhead	Adult	HBMP-R14-01BB-01-ADLT-20231005	--
		HBMP-R14-01BB-02-ADLT-20231005	--
		HBMP-R14-01BB-03-ADLT-20231005	--
		HBMP-R14-01BB-04-ADLT-20231005	--
		HBMP-R14-01BB-05-ADLT-20231005	--
		HBMP-R14-01BB-06-ADLT-20231005	--
		HBMP-R14-01BB-07-ADLT-20231005	--
		HBMP-R14-01BB-08-ADLT-20231005	--
		HBMP-R14-01BB-09-ADLT-20231005	--
		HBMP-R14-01BB-10-ADLT-20231005	--
Largemouth Bass	Adult	HBMP-R14-01LB-01-ADLT-20231003	--
		HBMP-R14-01LB-02-ADLT-20231003	--
		HBMP-R14-01LB-03-ADLT-20231003	--
		HBMP-R14-01LB-04-ADLT-20231003	--
		HBMP-R14-01LB-05-ADLT-20231003	--
		HBMP-R14-01LB-06-ADLT-20231003	--
		HBMP-R14-01LB-07-ADLT-20231003	--
		HBMP-R14-01LB-08-ADLT-20231003	--
		HBMP-R14-01LB-09-ADLT-20231003	--
Northern Pike	Adult	HBMP-R14-01NP-01-ADLT-20231003	--
		HBMP-R14-01NP-02-ADLT-20231003	--
		HBMP-R14-01NP-03-ADLT-20231003	--
		HBMP-R14-01NP-04-ADLT-20231003	--
		HBMP-R14-01NP-05-ADLT-20231003	--
		HBMP-R14-01NP-06-ADLT-20231003	--
		HBMP-R14-01NP-07-ADLT-20231003	--
		HBMP-R14-01NP-08-ADLT-20231003	--
		HBMP-R14-01NP-09-ADLT-20231003	--
		HBMP-R14-01NP-10-ADLT-20231003	--
Smallmouth Bass	Adult	HBMP-R14-01SB-01-ADLT-20231003	--
		HBMP-R14-01SB-01-ADLT-20231005	--
		HBMP-R14-01SB-02-ADLT-20231003	--
		HBMP-R14-01SB-02-ADLT-20231005	--
		HBMP-R14-01SB-03-ADLT-20231003	--
		HBMP-R14-01SB-03-ADLT-20231005	--
		HBMP-R14-01SB-04-ADLT-20231003	--
		HBMP-R14-01SB-04-ADLT-20231005	--
		HBMP-R14-01SB-05-ADLT-20231003	--
		HBMP-R14-01SB-05-ADLT-20231005	--
Yellow Perch	Adult	HBMP-R14-01YP-01-ADLT-20231003	--
		HBMP-R14-01YP-02-ADLT-20231003	--
		HBMP-R14-01YP-03-ADLT-20231003	--
		HBMP-R14-01YP-04-ADLT-20231003	--
		HBMP-R14-01YP-05-ADLT-20231003	--
		HBMP-R14-01YP-06-ADLT-20231003	--
		HBMP-R14-01YP-07-ADLT-20231003	--
		HBMP-R14-01YP-08-ADLT-20231003	--
		HBMP-R14-01YP-09-ADLT-20231003	--
		HBMP-R14-01YP-10-ADLT-20231003	--
Reach 15			
Brown Bullhead	Adult	HBMP-R15-01BB-01-ADLT-20231004	--
		HBMP-R15-01BB-02-ADLT-20231004	--
		HBMP-R15-01BB-03-ADLT-20231004	--
		HBMP-R15-01BB-04-ADLT-20231004	--
		HBMP-R15-01BB-05-ADLT-20231004	--
		HBMP-R15-01BB-06-ADLT-20231004	--
		HBMP-R15-01BB-07-ADLT-20231004	--
		HBMP-R15-01BB-08-ADLT-20231004	Melanoma
		HBMP-R15-01BB-09-ADLT-20231004	--
		HBMP-R15-01BB-10-ADLT-20231004	--
Northern Pike	Adult	HBMP-R15-01NP-01-ADLT-20231004	--
		HBMP-R15-01NP-02-ADLT-20231004	--
		HBMP-R15-01NP-03-ADLT-20231004	--
		HBMP-R15-01NP-04-ADLT-20231004	--
		HBMP-R15-01NP-05-ADLT-20231004	--
		HBMP-R15-01NP-06-ADLT-20231004	--
		HBMP-R15-01NP-07-ADLT-20231004	--

Table 2-7
Observations of Fish Abnormalities

Species	Age	Sample ID	Abnormalities
Smallmouth Bass	Adult	HBMP-R15-01SB-01-ADLT-20231004	--
		HBMP-R15-01SB-02-ADLT-20231004	--
		HBMP-R15-01SB-03-ADLT-20231004	--
		HBMP-R15-01SB-04-ADLT-20231004	--
		HBMP-R15-01SB-05-ADLT-20231004	--
		HBMP-R15-01SB-06-ADLT-20231004	--
		HBMP-R15-01SB-07-ADLT-20231004	--
		HBMP-R15-01SB-08-ADLT-20231004	--
		HBMP-R15-01SB-09-ADLT-20231004	--
		HBMP-R15-01SB-10-ADLT-20231004	--
Yellow Perch	Adult	HBMP-R15-01YP-01-ADLT-20231004	--
		HBMP-R15-01YP-02-ADLT-20231004	--
		HBMP-R15-01YP-03-ADLT-20231004	--
		HBMP-R15-01YP-04-ADLT-20231004	--
		HBMP-R15-01YP-05-ADLT-20231004	--
		HBMP-R15-01YP-06-ADLT-20231004	--
		HBMP-R15-01YP-07-ADLT-20231004	--
		HBMP-R15-01YP-08-ADLT-20231004	--
		HBMP-R15-01YP-09-ADLT-20231004	--
		HBMP-R15-01YP-10-ADLT-20231004	--
Reach 16			
Brown Bullhead	Adult	HBMP-R16-01BB-01-ADLT-20231004	--
		HBMP-R16-01BB-02-ADLT-20231004	--
		HBMP-R16-01BB-03-ADLT-20231004	--
		HBMP-R16-01BB-04-ADLT-20231004	--
		HBMP-R16-01BB-05-ADLT-20231004	--
		HBMP-R16-01BB-06-ADLT-20231004	--
		HBMP-R16-01BB-07-ADLT-20231004	--
		HBMP-R16-01BB-08-ADLT-20231004	--
		HBMP-R16-01BB-09-ADLT-20231004	--
		HBMP-R16-01BB-10-ADLT-20231004	--
Northern Pike	Adult	HBMP-R16-01NP-01-ADLT-20231004	Hook wound on lower mandible
		HBMP-R16-01NP-01-ADLT-20231005	--
		HBMP-R16-01NP-02-ADLT-20231004	Damaged left eye; hole in lower mandible
		HBMP-R16-01NP-02-ADLT-20231005	--
		HBMP-R16-01NP-03-ADLT-20231004	--
		HBMP-R16-01NP-03-ADLT-20231005	--
		HBMP-R16-01NP-04-ADLT-20231004	--
		HBMP-R16-01NP-04-ADLT-20231005	--
		HBMP-R16-01NP-05-ADLT-20231004	--
		HBMP-R16-01NP-06-ADLT-20231004	--
Smallmouth Bass	Adult	HBMP-R16-01SB-01-ADLT-20231004	--
		HBMP-R16-01SB-01-ADLT-20231005	--
		HBMP-R16-01SB-02-ADLT-20231004	--
		HBMP-R16-01SB-02-ADLT-20231005	--
		HBMP-R16-01SB-03-ADLT-20231004	--
		HBMP-R16-01SB-03-ADLT-20231005	--
		HBMP-R16-01SB-04-ADLT-20231004	--
		HBMP-R16-01SB-05-ADLT-20231004	--
		HBMP-R16-01SB-06-ADLT-20231004	--
		HBMP-R16-01SB-07-ADLT-20231004	--
Yellow Perch	Adult	HBMP-R16-01YP-01-ADLT-20231004	--
		HBMP-R16-01YP-01-ADLT-20231005	--
		HBMP-R16-01YP-02-ADLT-20231004	--
		HBMP-R16-01YP-03-ADLT-20231004	--
		HBMP-R16-01YP-04-ADLT-20231004	--
		HBMP-R16-01YP-05-ADLT-20231004	--
		HBMP-R16-01YP-06-ADLT-20231004	--
		HBMP-R16-01YP-07-ADLT-20231004	--
		HBMP-R16-01YP-08-ADLT-20231004	--
		HBMP-R16-01YP-09-ADLT-20231004	--

Notes:
--: not applicable
YOY: young of year

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Reach 05A			
Largemouth Bass	Adult	HBMP-R05A-01LB-01-ADLT-20230926	Male
		HBMP-R05A-01LB-01-ADLT-20230927	Female
		HBMP-R05A-01LB-01-ADLT-20231006	Male
		HBMP-R05A-01LB-02-ADLT-20230927	Female
		HBMP-R05A-01LB-02-ADLT-20231006	Male
		HBMP-R05A-01LB-03-ADLT-20230927	Male
		HBMP-R05A-01LB-04-ADLT-20230927	Female
White Sucker	Adult	HBMP-R05A-01WS-01-ADLT-20230926	Female
		HBMP-R05A-01WS-02-ADLT-20230926	Female
		HBMP-R05A-01WS-03-ADLT-20230926	Male
		HBMP-R05A-01WS-04-ADLT-20230926	Unknown
		HBMP-R05A-01WS-05-ADLT-20230926	Female
		HBMP-R05A-01WS-06-ADLT-20230926	Male
		HBMP-R05A-01WS-07-ADLT-20230926	Female
		HBMP-R05A-01WS-08-ADLT-20230926	Female
		HBMP-R05A-01WS-09-ADLT-20230926	Male
		HBMP-R05A-01WS-10-ADLT-20230926	Male
Yellow Perch	Adult	HBMP-R05A-01YP-01-ADLT-20230926	Female
		HBMP-R05A-01YP-01-ADLT-20230927	Female
		HBMP-R05A-01YP-02-ADLT-20230926	Female
		HBMP-R05A-01YP-02-ADLT-20230927	Female
		HBMP-R05A-01YP-03-ADLT-20230926	Female
		HBMP-R05A-01YP-03-ADLT-20230927	Female
		HBMP-R05A-01YP-04-ADLT-20230926	Female
		HBMP-R05A-01YP-05-ADLT-20230926	Male
		HBMP-R05A-01YP-06-ADLT-20230926	Female
		HBMP-R05A-01YP-07-ADLT-20230926	Female
Reach 05B/C			
Brown Bullhead	Adult	HBMP-R05C-01BB-01-ADLT-20230927	Female
Largemouth Bass	Adult	HBMP-R05C-01LB-01-ADLT-20230927	Male
		HBMP-R05C-01LB-02-ADLT-20230927-RE	Male
		HBMP-R05C-01LB-03-ADLT-20230927	Female
		HBMP-R05C-01LB-04-ADLT-20230927	Male
		HBMP-R05C-01LB-05-ADLT-20230927	Male
		HBMP-R05C-01LB-06-ADLT-20230927	Female
		HBMP-R05C-01LB-07-ADLT-20230927	Male
		HBMP-R05C-01LB-08-ADLT-20230927	Female
		HBMP-R05C-01LB-09-ADLT-20230927	Male
		HBMP-R05C-01LB-10-ADLT-20230927	Male

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
White Sucker	Adult	HBMP-R05C-01WS-01-ADLT-20230927	Female
		HBMP-R05C-01WS-02-ADLT-20230927-RE	Female
		HBMP-R05C-01WS-03-ADLT-20230927	Male
		HBMP-R05C-01WS-04-ADLT-20230927	Male
		HBMP-R05C-01WS-05-ADLT-20230927	Female
		HBMP-R05C-01WS-06-ADLT-20230927	Female
		HBMP-R05C-01WS-07-ADLT-20230927	Female
		HBMP-R05C-01WS-08-ADLT-20230927	Female
		HBMP-R05C-01WS-09-ADLT-20230927	Female
		HBMP-R05C-01WS-10-ADLT-20230927	Male
Yellow Perch	Adult	HBMP-R05C-01YP-01-ADLT-20230927	Female
		HBMP-R05C-01YP-02-ADLT-20230927	Female
		HBMP-R05C-01YP-03-ADLT-20230927	Female
		HBMP-R05C-01YP-04-ADLT-20230927	Female
		HBMP-R05C-01YP-05-ADLT-20230927	Female
		HBMP-R05C-01YP-06-ADLT-20230927	Female
		HBMP-R05C-01YP-07-ADLT-20230927	Female
		HBMP-R05C-01YP-08-ADLT-20230927	Female
		HBMP-R05C-01YP-09-ADLT-20230927	Female
		HBMP-R05C-01YP-10-ADLT-20230927	Female
Reach 06			
Largemouth Bass	Adult	HBMP-R06-01LB-01-ADLT-20230928	Female
		HBMP-R06-01LB-02-ADLT-20230928	Male
		HBMP-R06-01LB-03-ADLT-20230928	Female
		HBMP-R06-01LB-04-ADLT-20230928	Female
		HBMP-R06-01LB-05-ADLT-20230928	Male
		HBMP-R06-01LB-06-ADLT-20230928	Female
		HBMP-R06-01LB-07-ADLT-20230928	Male
		HBMP-R06-01LB-08-ADLT-20230928	Male
		HBMP-R06-01LB-09-ADLT-20230928	Female
		HBMP-R06-01LB-10-ADLT-20230928	Female
White Sucker	Adult	HBMP-R06-01WS-01-ADLT-20230928	Female
		HBMP-R06-01WS-02-ADLT-20230928	Female
		HBMP-R06-01WS-03-ADLT-20230928	Unknown
		HBMP-R06-01WS-04-ADLT-20230928	Unknown
		HBMP-R06-01WS-05-ADLT-20230928	Unknown
		HBMP-R06-01WS-06-ADLT-20230928	Female
		HBMP-R06-01WS-07-ADLT-20230928	Female
		HBMP-R06-01WS-08-ADLT-20230928	Female
		HBMP-R06-01WS-09-ADLT-20230928	Female
		HBMP-R06-01WS-10-ADLT-20230928	Unknown

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Yellow Perch	Adult	HBMP-R06-01YP-01-ADLT-20230928	Female
		HBMP-R06-01YP-02-ADLT-20230928	Male
		HBMP-R06-01YP-03-ADLT-20230928	Female
		HBMP-R06-01YP-04-ADLT-20230928	Male
		HBMP-R06-01YP-05-ADLT-20230928	Female
		HBMP-R06-01YP-06-ADLT-20230928	Female
		HBMP-R06-01YP-07-ADLT-20230928	Male
		HBMP-R06-01YP-08-ADLT-20230928	Male
		HBMP-R06-01YP-09-ADLT-20230928	Male
		HBMP-R06-01YP-10-ADLT-20230928	Male
Reach 07D			
Brown Bullhead	Adult	HBMP-R07D-01BB-01-ADLT-20231011	Female
		HBMP-R07D-01BB-02-ADLT-20231011	Female
		HBMP-R07D-01BB-03-ADLT-20231011	Female
		HBMP-R07D-01BB-04-ADLT-20231011	Female
		HBMP-R07D-01BB-05-ADLT-20231011	Female
Largemouth Bass	Adult	HBMP-R07D-01LB-01-ADLT-20231011	Female
White Sucker	Adult	HBMP-R07D-01WS-01-ADLT-20231011	Female
		HBMP-R07D-01WS-02-ADLT-20231011-RE	Female
		HBMP-R07D-01WS-03-ADLT-20231011	Female
		HBMP-R07D-01WS-04-ADLT-20231011	Female
		HBMP-R07D-01WS-05-ADLT-20231011	Female
		HBMP-R07D-01WS-06-ADLT-20231011	Male
		HBMP-R07D-01WS-07-ADLT-20231011	Male
		HBMP-R07D-01WS-08-ADLT-20231011	Female
		HBMP-R07D-01WS-09-ADLT-20231011	Female
		HBMP-R07D-01WS-10-ADLT-20231011	Female
Yellow Perch	Adult	HBMP-R07D-01YP-01-ADLT-20231011	Female
		HBMP-R07D-01YP-02-ADLT-20231011	Female
Reach 07G			
Brown Bullhead	Adult	HBMP-R07G-01BB-01-ADLT-20231012	Female
		HBMP-R07G-01BB-02-ADLT-20231012	Female
		HBMP-R07G-01BB-03-ADLT-20231012	Female
		HBMP-R07G-01BB-04-ADLT-20231012	Female
		HBMP-R07G-01BB-05-ADLT-20231012	Female
		HBMP-R07G-01BB-06-ADLT-20231012	Female
		HBMP-R07G-01BB-07-ADLT-20231012	Unknown
		HBMP-R07G-01BB-08-ADLT-20231012	Unknown
		HBMP-R07G-01BB-09-ADLT-20231012	Female
		HBMP-R07G-01BB-10-ADLT-20231012	Female

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Largemouth Bass	Adult	HBMP-R07G-01LB-01-ADLT-20231012	Male
		HBMP-R07G-01LB-02-ADLT-20231012	Male
		HBMP-R07G-01LB-03-ADLT-20231012	Female
		HBMP-R07G-01LB-04-ADLT-20231012	Male
		HBMP-R07G-01LB-05-ADLT-20231012	Female
		HBMP-R07G-01LB-06-ADLT-20231012	Female
		HBMP-R07G-01LB-07-ADLT-20231012	Male
		HBMP-R07G-01LB-08-ADLT-20231012	Male
		HBMP-R07G-01LB-09-ADLT-20231012	Male
		HBMP-R07G-01LB-10-ADLT-20231012	Male
Yellow Perch	Adult	HBMP-R07G-01YP-01-ADLT-20231012	Female
		HBMP-R07G-01YP-02-ADLT-20231012	Female
		HBMP-R07G-01YP-03-ADLT-20231012	Female
		HBMP-R07G-01YP-04-ADLT-20231012	Female
		HBMP-R07G-01YP-05-ADLT-20231012	Female
		HBMP-R07G-01YP-06-ADLT-20231012	Unknown
Reach 08			
Largemouth Bass	Adult	HBMP-R08-01LB-01-ADLT-20231012	Female
		HBMP-R08-01LB-01-ADLT-20231013	Male
		HBMP-R08-01LB-02-ADLT-20231012	Female
		HBMP-R08-01LB-03-ADLT-20231012	Female
		HBMP-R08-01LB-04-ADLT-20231012	Female
		HBMP-R08-01LB-05-ADLT-20231012	Female
		HBMP-R08-01LB-06-ADLT-20231012	Male
		HBMP-R08-01LB-07-ADLT-20231012	Male
		HBMP-R08-01LB-08-ADLT-20231012	Male
		HBMP-R08-01LB-09-ADLT-20231012	Female
White Sucker	Adult	HBMP-R08-01WS-01-ADLT-20231012	Male
		HBMP-R08-01WS-02-ADLT-20231012	Female
		HBMP-R08-01WS-03-ADLT-20231012	Male
		HBMP-R08-01WS-04-ADLT-20231012	Female
		HBMP-R08-01WS-05-ADLT-20231012	Male
		HBMP-R08-01WS-06-ADLT-20231012	Female
		HBMP-R08-01WS-07-ADLT-20231012	Male
		HBMP-R08-01WS-08-ADLT-20231012	Female
		HBMP-R08-01WS-09-ADLT-20231012	Female
		HBMP-R08-01WS-10-ADLT-20231012	Female

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Yellow Perch	Adult	HBMP-R08-01YP-01-ADLT-20231012	Female
		HBMP-R08-01YP-01-ADLT-20231013	Male
		HBMP-R08-01YP-02-ADLT-20231012	Male
		HBMP-R08-01YP-02-ADLT-20231013	Female
		HBMP-R08-01YP-03-ADLT-20231012	Female
		HBMP-R08-01YP-03-ADLT-20231013	Male
		HBMP-R08-01YP-04-ADLT-20231012	Female
Reach 09			
Largemouth Bass	Adult	HBMP-R09-01LB-01-ADLT-20230929	Male
		HBMP-R09-01LB-01-ADLT-20231005	Female
		HBMP-R09-01LB-02-ADLT-20230929	Male
		HBMP-R09-01LB-02-ADLT-20231005	Male
		HBMP-R09-01LB-03-ADLT-20230929	Male
		HBMP-R09-01LB-04-ADLT-20230929	Female
		HBMP-R09-01LB-05-ADLT-20230929	Female
		HBMP-R09-01LB-06-ADLT-20230929	Female
		HBMP-R09-01LB-07-ADLT-20230929	Male
		HBMP-R09-01LB-08-ADLT-20230929	Male
White Sucker	Adult	HBMP-R09-01WS-01-ADLT-20230928	Male
		HBMP-R09-01WS-01-ADLT-20231005	Male
		HBMP-R09-01WS-02-ADLT-20230928	Male
		HBMP-R09-01WS-02-ADLT-20231005	Male
		HBMP-R09-01WS-03-ADLT-20230928	Female
		HBMP-R09-01WS-03-ADLT-20231005	Female
		HBMP-R09-01WS-04-ADLT-20230928	Female
		HBMP-R09-01WS-04-ADLT-20231005	Male
		HBMP-R09-01WS-05-ADLT-20230928	Male
		HBMP-R09-01WS-05-ADLT-20231005	Female
Yellow Perch	Adult	HBMP-R09-01YP-01-ADLT-20230928	Female
		HBMP-R09-01YP-01-ADLT-20231005	Female
		HBMP-R09-01YP-02-ADLT-20230928	Female
		HBMP-R09-01YP-02-ADLT-20231005	Female
		HBMP-R09-01YP-03-ADLT-20231005	Male
		HBMP-R09-01YP-04-ADLT-20231005	Male
		HBMP-R09-01YP-05-ADLT-20231005	Male
		HBMP-R09-01YP-06-ADLT-20231005	Male
		HBMP-R09-01YP-07-ADLT-20231005	Male
		HBMP-R09-01YP-08-ADLT-20231005	Female

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Reach 10			
Brown Bullhead	Adult	HBMP-R10-01BB-01-ADLT-20231006	Female
		HBMP-R10-01BB-02-ADLT-20231006	Female
		HBMP-R10-01BB-03-ADLT-20231006	Female
		HBMP-R10-01BB-04-ADLT-20231006	Male
		HBMP-R10-01BB-05-ADLT-20231006	Female
		HBMP-R10-01BB-06-ADLT-20231006	Female
		HBMP-R10-01BB-07-ADLT-20231006	Female
		HBMP-R10-01BB-08-ADLT-20231006	Female
		HBMP-R10-01BB-09-ADLT-20231006	Female
		HBMP-R10-01BB-10-ADLT-20231006	Female
Largemouth Bass	Adult	HBMP-R10-01LB-01-ADLT-20231006	Female
		HBMP-R10-01LB-02-ADLT-20231006	Male
		HBMP-R10-01LB-03-ADLT-20231006	Male
		HBMP-R10-01LB-04-ADLT-20231006	Female
		HBMP-R10-01LB-05-ADLT-20231006	Male
		HBMP-R10-01LB-06-ADLT-20231006	Female
		HBMP-R10-01LB-07-ADLT-20231006	Female
		HBMP-R10-01LB-08-ADLT-20231006	Male
		HBMP-R10-01LB-09-ADLT-20231006	Female
		HBMP-R10-01LB-10-ADLT-20231006	Male
Yellow Perch	Adult	HBMP-R10-01YP-01-ADLT-20231006	Male
		HBMP-R10-01YP-02-ADLT-20231006	Male
		HBMP-R10-01YP-03-ADLT-20231006	Male
		HBMP-R10-01YP-04-ADLT-20231006	Female
		HBMP-R10-01YP-05-ADLT-20231006	Female
		HBMP-R10-01YP-06-ADLT-20231006	Female
		HBMP-R10-01YP-07-ADLT-20231006	Male
		HBMP-R10-01YP-08-ADLT-20231006	Male
		HBMP-R10-01YP-09-ADLT-20231006	Female
		HBMP-R10-01YP-10-ADLT-20231006	Female
Reach 11			
Northern Pike	Adult	HBMP-R11-01NP-01-ADLT-20231011	Female
		HBMP-R11-01NP-02-ADLT-20231011	Male
		HBMP-R11-01NP-03-ADLT-20231011	Male
		HBMP-R11-01NP-04-ADLT-20231011	Male
		HBMP-R11-01NP-05-ADLT-20231011	Female
		HBMP-R11-01NP-06-ADLT-20231011	Male

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Smallmouth Bass	Adult	HBMP-R11-01SB-01-ADLT-20231011	Male
		HBMP-R11-01SB-02-ADLT-20231011	Female
		HBMP-R11-01SB-03-ADLT-20231011	Female
		HBMP-R11-01SB-04-ADLT-20231011	Female
		HBMP-R11-01SB-05-ADLT-20231011	Female
		HBMP-R11-01SB-06-ADLT-20231011	Male
		HBMP-R11-01SB-07-ADLT-20231011	Male
		HBMP-R11-01SB-08-ADLT-20231011	Male
		HBMP-R11-01SB-09-ADLT-20231011	Female
		HBMP-R11-01SB-10-ADLT-20231011	Female
White Sucker	Adult	HBMP-R11-01WS-01-ADLT-20231011	Female
		HBMP-R11-01WS-02-ADLT-20231011	Female
		HBMP-R11-01WS-03-ADLT-20231011	Female
		HBMP-R11-01WS-04-ADLT-20231011	Female
		HBMP-R11-01WS-05-ADLT-20231011	Male
		HBMP-R11-01WS-06-ADLT-20231011	Male
		HBMP-R11-01WS-07-ADLT-20231011	Male
		HBMP-R11-01WS-08-ADLT-20231011	Male
		HBMP-R11-01WS-09-ADLT-20231011	Male
		HBMP-R11-01WS-10-ADLT-20231011	Female
Yellow Perch	Adult	HBMP-R11-01YP-01-ADLT-20231011	Female
		HBMP-R11-01YP-02-ADLT-20231011	Male
		HBMP-R11-01YP-03-ADLT-20231011	Male
		HBMP-R11-01YP-04-ADLT-20231011	Male
Reach 12			
Northern Pike	Adult	HBMP-R12-01NP-01-ADLT-20231011	Male
		HBMP-R12-01NP-01-ADLT-20231013	Female
		HBMP-R12-01NP-02-ADLT-20231013	Female
		HBMP-R12-01NP-03-ADLT-20231013	Male
Smallmouth Bass	Adult	HBMP-R12-01SB-01-ADLT-20231011	Male
		HBMP-R12-01SB-02-ADLT-20231011	Male
		HBMP-R12-01SB-03-ADLT-20231011	Male
		HBMP-R12-01SB-04-ADLT-20231011	Female
		HBMP-R12-01SB-05-ADLT-20231011	Male
		HBMP-R12-01SB-06-ADLT-20231011	Male
		HBMP-R12-01SB-07-ADLT-20231011	Female
		HBMP-R12-01SB-08-ADLT-20231011	Female
		HBMP-R12-01SB-09-ADLT-20231011	Female
		HBMP-R12-01SB-10-ADLT-20231011	Male

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
White Sucker	Adult	HBMP-R12-01WS-01-ADLT-20231013	Unknown
		HBMP-R12-01WS-02-ADLT-20231013	Male
		HBMP-R12-01WS-03-ADLT-20231013	Female
		HBMP-R12-01WS-04-ADLT-20231013	Male
		HBMP-R12-01WS-05-ADLT-20231013	Female
		HBMP-R12-01WS-06-ADLT-20231013	Male
		HBMP-R12-01WS-07-ADLT-20231013	Female
		HBMP-R12-01WS-08-ADLT-20231013	Male
		HBMP-R12-01WS-09-ADLT-20231013	Male
		HBMP-R12-01WS-10-ADLT-20231013	Male
Yellow Perch	Adult	HBMP-R12-01YP-01-ADLT-20231011	Female
		HBMP-R12-01YP-01-ADLT-20231013	Female
Reach 13			
Fallfish	Adult	HBMP-R13-01FL-01-ADLT-20231013	Unknown
		HBMP-R13-01FL-02-ADLT-20231013	Female
		HBMP-R13-01FL-03-ADLT-20231013	Male
		HBMP-R13-01FL-04-ADLT-20231013	Unknown
		HBMP-R13-01FL-05-ADLT-20231013	Female
		HBMP-R13-01FL-06-ADLT-20231013	Unknown
		HBMP-R13-01FL-07-ADLT-20231013	Unknown
		HBMP-R13-01FL-08-ADLT-20231013	Unknown
		HBMP-R13-01FL-09-ADLT-20231013	Unknown
		HBMP-R13-01FL-10-ADLT-20231013	Male
Smallmouth Bass	Adult	HBMP-R13-01SB-01-ADLT-20231013	Male
		HBMP-R13-01SB-02-ADLT-20231013	Male
		HBMP-R13-01SB-03-ADLT-20231013	Male
		HBMP-R13-01SB-04-ADLT-20231013	Male
		HBMP-R13-01SB-05-ADLT-20231013	Female
		HBMP-R13-01SB-06-ADLT-20231013	Male
		HBMP-R13-01SB-07-ADLT-20231013	Male
		HBMP-R13-01SB-08-ADLT-20231013	Female
		HBMP-R13-01SB-09-ADLT-20231013	Female
		HBMP-R13-01SB-10-ADLT-20231013	Female
Yellow Perch	Adult	HBMP-R13-01YP-01-ADLT-20231013	Male
		HBMP-R13-01YP-02-ADLT-20231013	Male
		HBMP-R13-01YP-03-ADLT-20231013	Female
		HBMP-R13-01YP-04-ADLT-20231013	Male
		HBMP-R13-01YP-05-ADLT-20231013	Female

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Reach 14			
Brown Bullhead	Adult	HBMP-R14-01BB-01-ADLT-20231005	Female
		HBMP-R14-01BB-02-ADLT-20231005	Female
		HBMP-R14-01BB-03-ADLT-20231005	Female
		HBMP-R14-01BB-04-ADLT-20231005	Female
		HBMP-R14-01BB-05-ADLT-20231005	Female
		HBMP-R14-01BB-06-ADLT-20231005	Female
		HBMP-R14-01BB-07-ADLT-20231005	Female
		HBMP-R14-01BB-08-ADLT-20231005	Female
		HBMP-R14-01BB-09-ADLT-20231005	Female
		HBMP-R14-01BB-10-ADLT-20231005	Female
Largemouth Bass	Adult	HBMP-R14-01LB-01-ADLT-20231003	Male
		HBMP-R14-01LB-02-ADLT-20231003	Male
		HBMP-R14-01LB-03-ADLT-20231003	Female
		HBMP-R14-01LB-04-ADLT-20231003	Female
		HBMP-R14-01LB-05-ADLT-20231003	Female
		HBMP-R14-01LB-06-ADLT-20231003	Male
		HBMP-R14-01LB-07-ADLT-20231003	Male
		HBMP-R14-01LB-08-ADLT-20231003	Female
		HBMP-R14-01LB-09-ADLT-20231003	Female
Northern Pike	Adult	HBMP-R14-01NP-01-ADLT-20231003	Female
		HBMP-R14-01NP-02-ADLT-20231003	Female
		HBMP-R14-01NP-03-ADLT-20231003	Female
		HBMP-R14-01NP-04-ADLT-20231003	Male
		HBMP-R14-01NP-05-ADLT-20231003	Female
		HBMP-R14-01NP-06-ADLT-20231003	Male
		HBMP-R14-01NP-07-ADLT-20231003	Male
		HBMP-R14-01NP-08-ADLT-20231003	Female
		HBMP-R14-01NP-09-ADLT-20231003	Male
		HBMP-R14-01NP-10-ADLT-20231003	Male
Smallmouth Bass	Adult	HBMP-R14-01SB-01-ADLT-20231003	Male
		HBMP-R14-01SB-01-ADLT-20231005	Female
		HBMP-R14-01SB-02-ADLT-20231003	Male
		HBMP-R14-01SB-02-ADLT-20231005	Female
		HBMP-R14-01SB-03-ADLT-20231003	Female
		HBMP-R14-01SB-03-ADLT-20231005	Male
		HBMP-R14-01SB-04-ADLT-20231003	Male
		HBMP-R14-01SB-04-ADLT-20231005	Male
		HBMP-R14-01SB-05-ADLT-20231003	Female
		HBMP-R14-01SB-05-ADLT-20231005	Male

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Yellow Perch	Adult	HBMP-R14-01YP-01-ADLT-20231003	Female
		HBMP-R14-01YP-02-ADLT-20231003	Female
		HBMP-R14-01YP-03-ADLT-20231003	Female
		HBMP-R14-01YP-04-ADLT-20231003	Female
		HBMP-R14-01YP-05-ADLT-20231003	Female
		HBMP-R14-01YP-06-ADLT-20231003	Female
		HBMP-R14-01YP-07-ADLT-20231003	Male
		HBMP-R14-01YP-08-ADLT-20231003	Female
		HBMP-R14-01YP-09-ADLT-20231003	Female
		HBMP-R14-01YP-10-ADLT-20231003	Female
Reach 15			
Brown Bullhead	Adult	HBMP-R15-01BB-01-ADLT-20231004	Female
		HBMP-R15-01BB-02-ADLT-20231004	Female
		HBMP-R15-01BB-03-ADLT-20231004	Female
		HBMP-R15-01BB-04-ADLT-20231004	Female
		HBMP-R15-01BB-05-ADLT-20231004	Female
		HBMP-R15-01BB-06-ADLT-20231004	Unknown
		HBMP-R15-01BB-07-ADLT-20231004	Female
		HBMP-R15-01BB-08-ADLT-20231004	Female
		HBMP-R15-01BB-09-ADLT-20231004	Female
		HBMP-R15-01BB-10-ADLT-20231004	Female
Northern Pike	Adult	HBMP-R15-01NP-01-ADLT-20231004	Female
		HBMP-R15-01NP-02-ADLT-20231004	Male
		HBMP-R15-01NP-03-ADLT-20231004	Female
		HBMP-R15-01NP-04-ADLT-20231004	Male
		HBMP-R15-01NP-05-ADLT-20231004	Female
		HBMP-R15-01NP-06-ADLT-20231004	Female
		HBMP-R15-01NP-07-ADLT-20231004	Female
Smallmouth Bass	Adult	HBMP-R15-01SB-01-ADLT-20231004	Female
		HBMP-R15-01SB-02-ADLT-20231004	Male
		HBMP-R15-01SB-03-ADLT-20231004	Female
		HBMP-R15-01SB-04-ADLT-20231004	Male
		HBMP-R15-01SB-05-ADLT-20231004	Male
		HBMP-R15-01SB-06-ADLT-20231004	Male
		HBMP-R15-01SB-07-ADLT-20231004	Male
		HBMP-R15-01SB-08-ADLT-20231004	Male
		HBMP-R15-01SB-09-ADLT-20231004	Female
		HBMP-R15-01SB-10-ADLT-20231004	Female

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Yellow Perch	Adult	HBMP-R15-01YP-01-ADLT-20231004	Female
		HBMP-R15-01YP-02-ADLT-20231004	Female
		HBMP-R15-01YP-03-ADLT-20231004	Female
		HBMP-R15-01YP-04-ADLT-20231004	Female
		HBMP-R15-01YP-05-ADLT-20231004	Male
		HBMP-R15-01YP-06-ADLT-20231004	Male
		HBMP-R15-01YP-07-ADLT-20231004	Female
		HBMP-R15-01YP-08-ADLT-20231004	Female
		HBMP-R15-01YP-09-ADLT-20231004	Female
		HBMP-R15-01YP-10-ADLT-20231004	Female
Reach 16			
Brown Bullhead	Adult	HBMP-R16-01BB-01-ADLT-20231004	Female
		HBMP-R16-01BB-02-ADLT-20231004	Unknown
		HBMP-R16-01BB-03-ADLT-20231004	Female
		HBMP-R16-01BB-04-ADLT-20231004	Female
		HBMP-R16-01BB-05-ADLT-20231004	Female
		HBMP-R16-01BB-06-ADLT-20231004	Female
		HBMP-R16-01BB-07-ADLT-20231004	Female
		HBMP-R16-01BB-08-ADLT-20231004	Female
		HBMP-R16-01BB-09-ADLT-20231004	Male
		HBMP-R16-01BB-10-ADLT-20231004	Female
Northern Pike	Adult	HBMP-R16-01NP-01-ADLT-20231004	Male
		HBMP-R16-01NP-01-ADLT-20231005	Male
		HBMP-R16-01NP-02-ADLT-20231004	Male
		HBMP-R16-01NP-02-ADLT-20231005	Male
		HBMP-R16-01NP-03-ADLT-20231004	Female
		HBMP-R16-01NP-03-ADLT-20231005	Female
		HBMP-R16-01NP-04-ADLT-20231004	Female
		HBMP-R16-01NP-04-ADLT-20231005	Female
		HBMP-R16-01NP-05-ADLT-20231004	Female
		HBMP-R16-01NP-06-ADLT-20231004	Female
Smallmouth Bass	Adult	HBMP-R16-01SB-01-ADLT-20231004	Female
		HBMP-R16-01SB-01-ADLT-20231005	Female
		HBMP-R16-01SB-02-ADLT-20231004	Male
		HBMP-R16-01SB-02-ADLT-20231005	Male
		HBMP-R16-01SB-03-ADLT-20231004	Female
		HBMP-R16-01SB-03-ADLT-20231005	Male
		HBMP-R16-01SB-04-ADLT-20231004	Female
		HBMP-R16-01SB-05-ADLT-20231004	Male
		HBMP-R16-01SB-06-ADLT-20231004	Male
		HBMP-R16-01SB-07-ADLT-20231004	Male

Table 2-8
Fish Sex Determination

Species	Age	Sample ID	Sex
Yellow Perch	Adult	HBMP-R16-01YP-01-ADLT-20231004	Female
		HBMP-R16-01YP-01-ADLT-20231005	Female
		HBMP-R16-01YP-02-ADLT-20231004	Female
		HBMP-R16-01YP-03-ADLT-20231004	Female
		HBMP-R16-01YP-04-ADLT-20231004	Female
		HBMP-R16-01YP-05-ADLT-20231004	Female
		HBMP-R16-01YP-06-ADLT-20231004	Female
		HBMP-R16-01YP-07-ADLT-20231004	Male
		HBMP-R16-01YP-08-ADLT-20231004	Female
		HBMP-R16-01YP-09-ADLT-20231004	Female

Figures

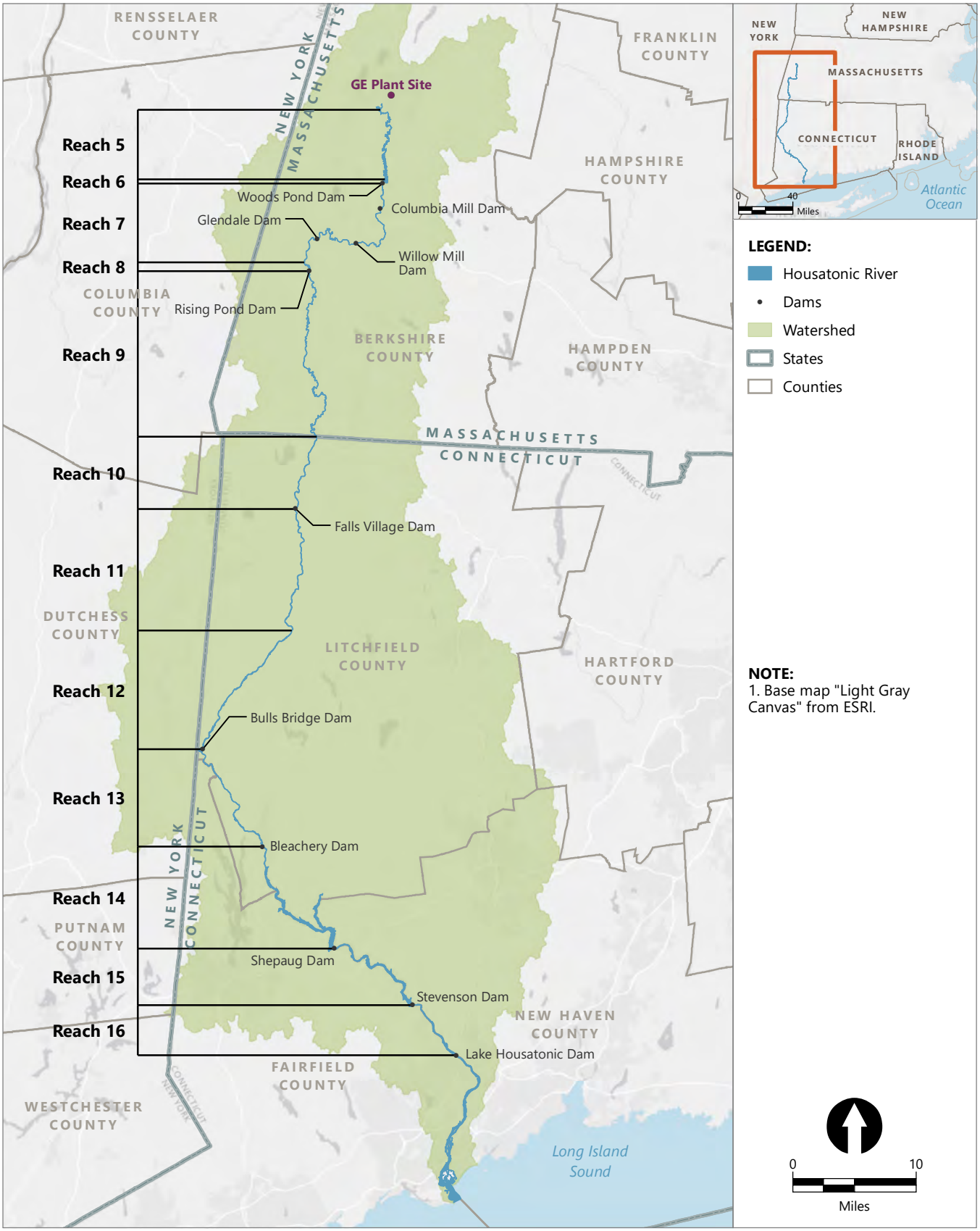

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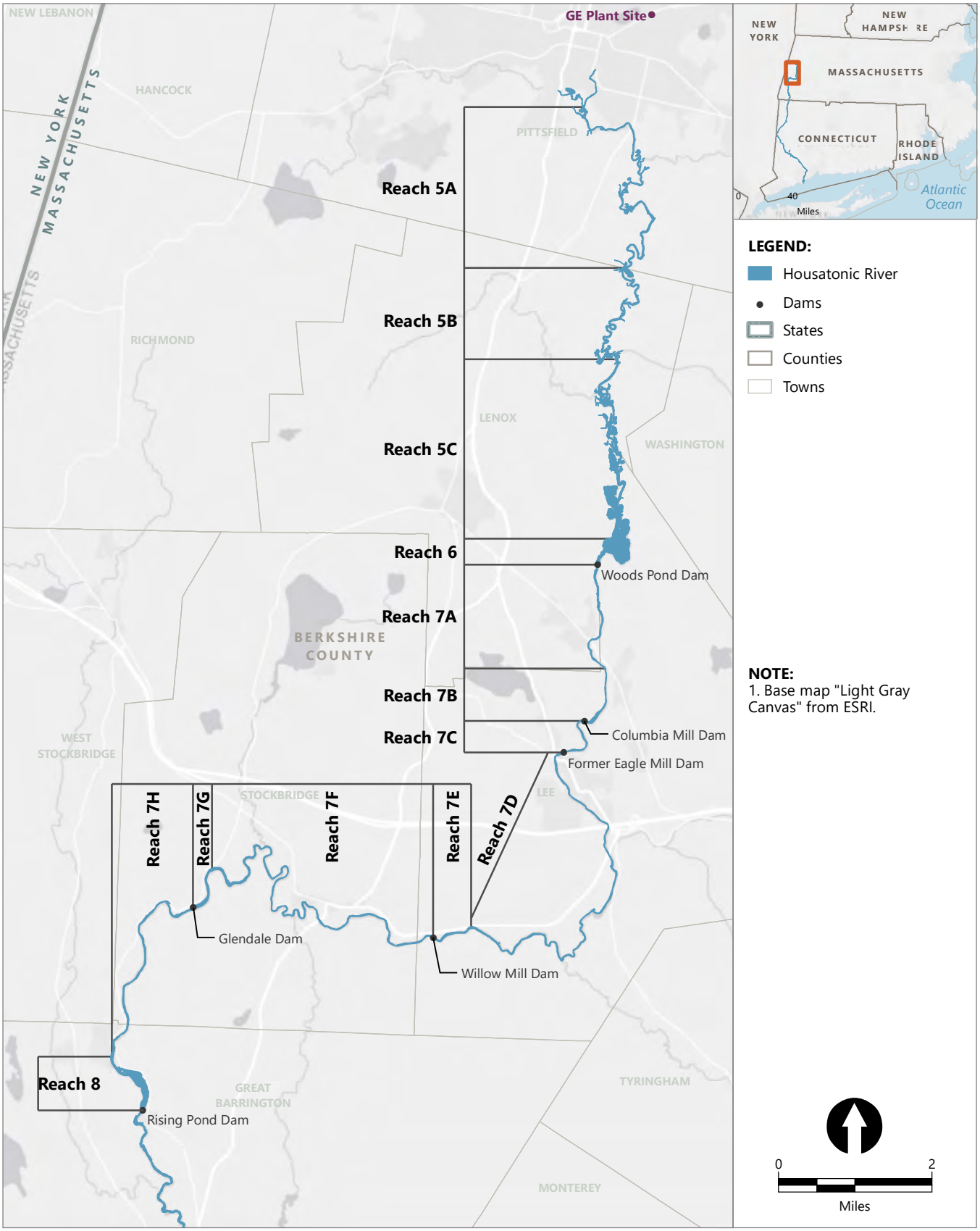
Figure 1-1
Rest of River Area
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



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ANCHOR QEA

Figure 1-2
Reaches 5 Through 8
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 60
Feet

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Filepath: \\GSTFile01\GIS\Jobs\GE_0469\HousatonicRiver\Maps\Reports\BMP\Results2023\Results2023.aprx

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Figure 2-1a
Surface Water Sampling Locations (East Branch – Pomeroy Avenue)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 290
Feet

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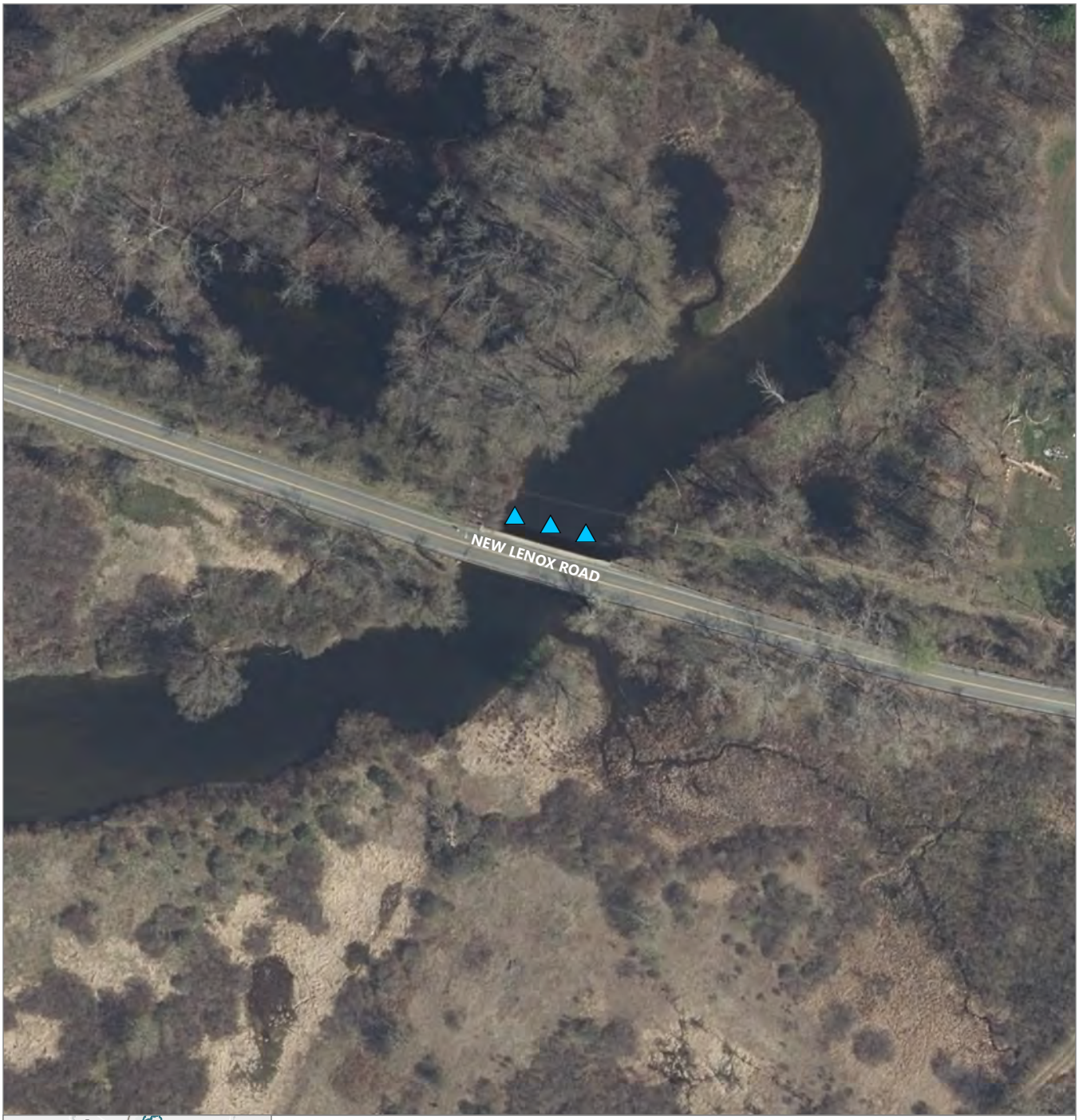
Figure 2-1b
Surface Water Sampling Locations (Near Pittsfield WWTP)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



LEGEND:

Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 130
Feet

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Figure 2-1c
Surface Water Sampling Locations (New Lenox Road)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

▲ Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 100
Feet

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Figure 2-1d
Surface Water Sampling Locations (Woods Pond Dam)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

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Figure 2-1e
Surface Water Sampling Locations (Route 102)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

▲ Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 100
Feet

Publish Date: 2025/01/22, 8:27 PM | User: tweldy
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Figure 2-1f
Surface Water Sampling Locations (Rising Pond Dam)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

▲ Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 100
Feet

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Figure 2-1g
Surface Water Sampling Locations (Ashley Falls Road/Route 7A)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

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Figure 2-1h
Surface Water Sampling Locations (Rannapo Bridge)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

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Figure 2-1i
Surface Water Sampling Locations (Falls Village Dam)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

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ANCHOR QEA

Figure 2-1j
Surface Water Sampling Locations (Canaan Townline Bridge)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

▲ Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 100
Feet

Publish Date: 2025/01/22, 12:28 PM | User: tweldy
Filepath: \\GSTFile01\GIS\Jobs\GE_0469\HousatonicRiver\Maps\Reports\BMP\Results2023\Results2023.aprx

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Figure 2-1k
Surface Water Sampling Locations (Bridge Street/Route 341)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

▲ Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 80
Feet

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Figure 2-1l
Surface Water Sampling Locations (Bridge Street/Route 202)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 390
Feet

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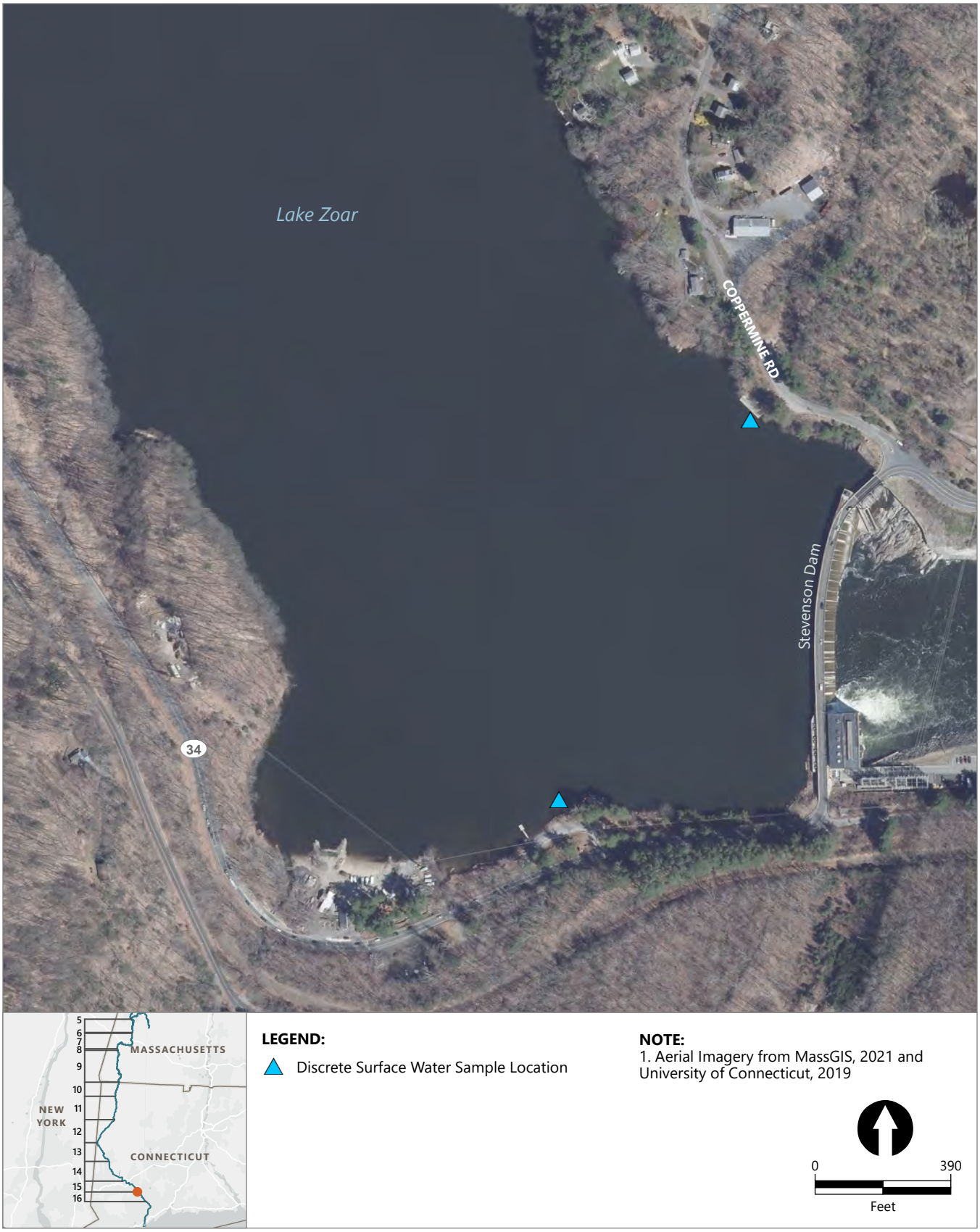
Figure 2-1m
Surface Water Sampling Locations (Lake Lillinonah – Shepaug Dam)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



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Filepath: \\GSTFile01\GIS\Jobs\GE_0469\HousatonicRiver\Maps\Reports\BMP\Results2023\Results2023.aprx

ANCHOR QEA

Figure 2-1n
Surface Water Sampling Locations (Lake Zoar – Stevenson Dam)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

▲ Discrete Surface Water Sample Location

NOTE:
1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019

0 310
Feet

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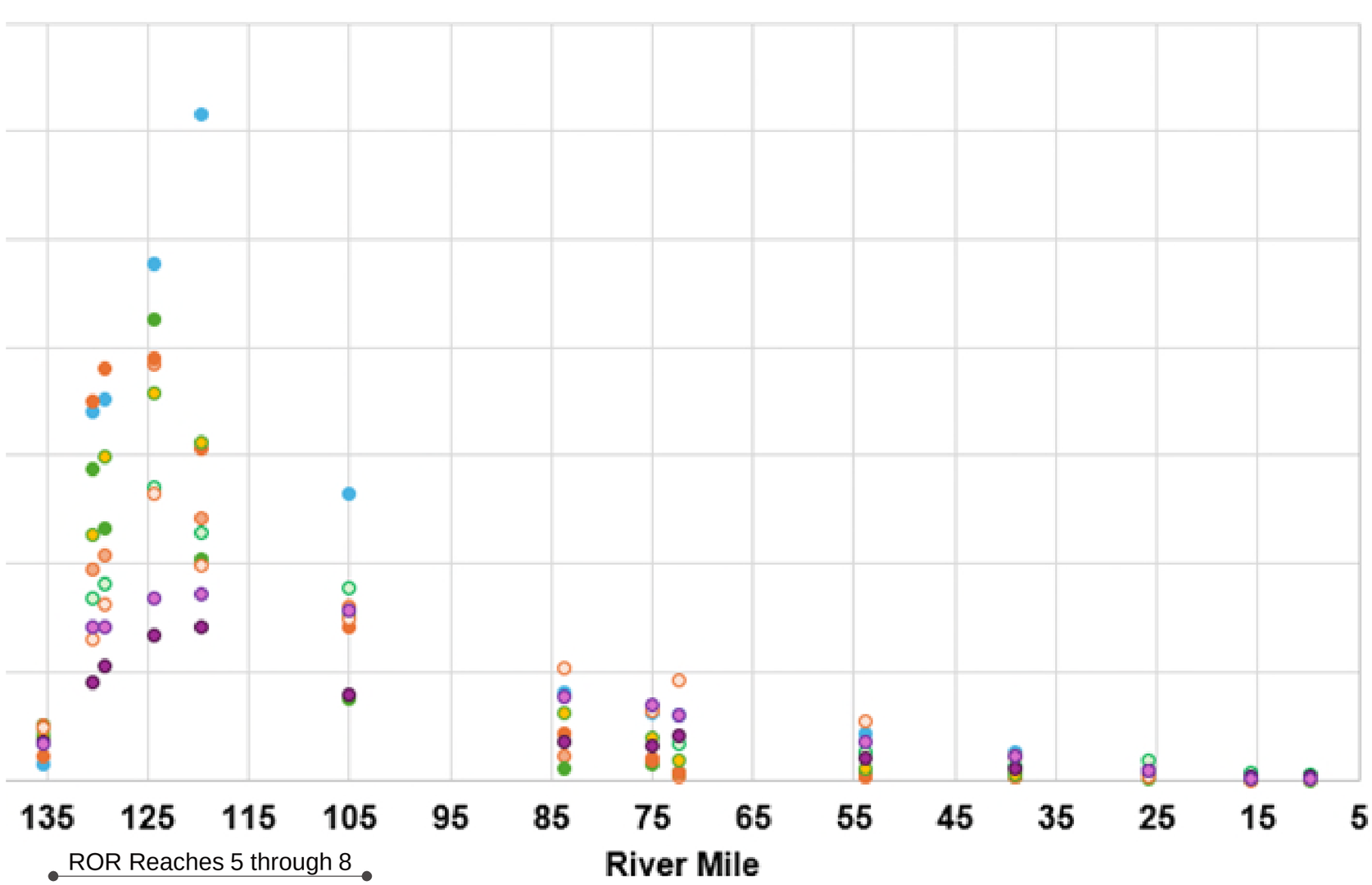
Figure 2-1o
Surface Water Sampling Locations (Lake Housatonic – Derby Dam)
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



Legend:

- April
- May
- June
- July
- August
- September
- October
- November
- December

Notes:

1. Rannapo Road Bridge (listed as a possible alternate location to Rt. 7A Bridge in the Second Revised Baseline Monitoring Plan) replaced the Route 7A Bridge location starting in May 2023 due to the existence of more favorable river conditions for sampling at that location.
2. Duplicate results are averaged for presentation purposes.
3. For analytes that were not detected, the value presented is half the associated reporting limit.
4. ng/L = nanogram per liter; PCB = polychlorinated biphenyl; ROR = Rest of River

HOUSATONIC RIVER – REST OF RIVER BASELINE MONITORING PROGRAM: DATA SUMMARY REPORT FOR 2023

SURFACE WATER TOTAL PCBS BY RIVER MILE

ARCADIS

FIGURE **2-2**

LEGEND:

- Road
- Housatonic River

Fish Sampling Area

- Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.

0 460
Feet

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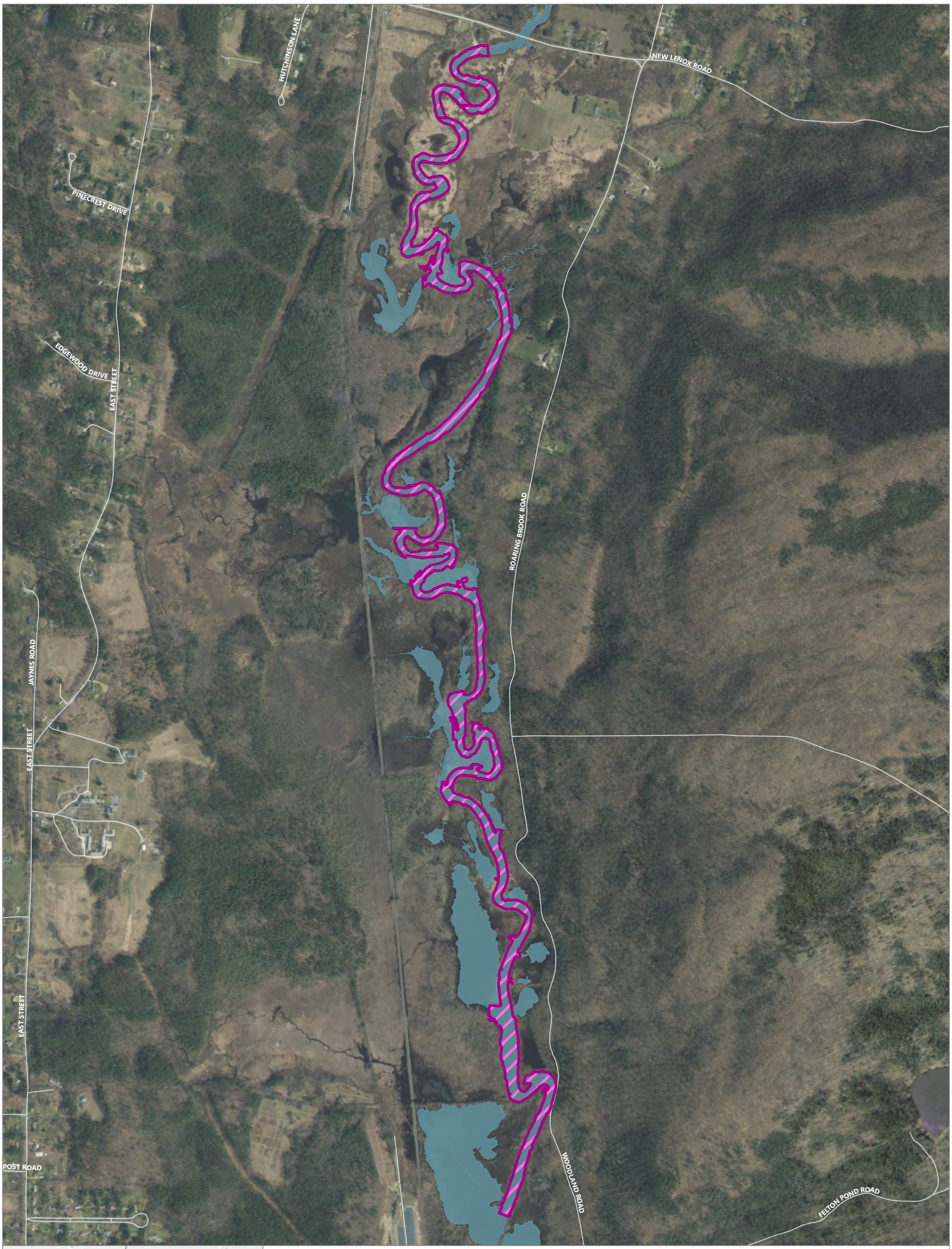
Figure 2-3a
Extents of 2023 Fish Collection–Reach 5A
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



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ANCHOR QEA

Figure 2-3b
Extents of 2023 Fish Collection–Reach 5BC
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

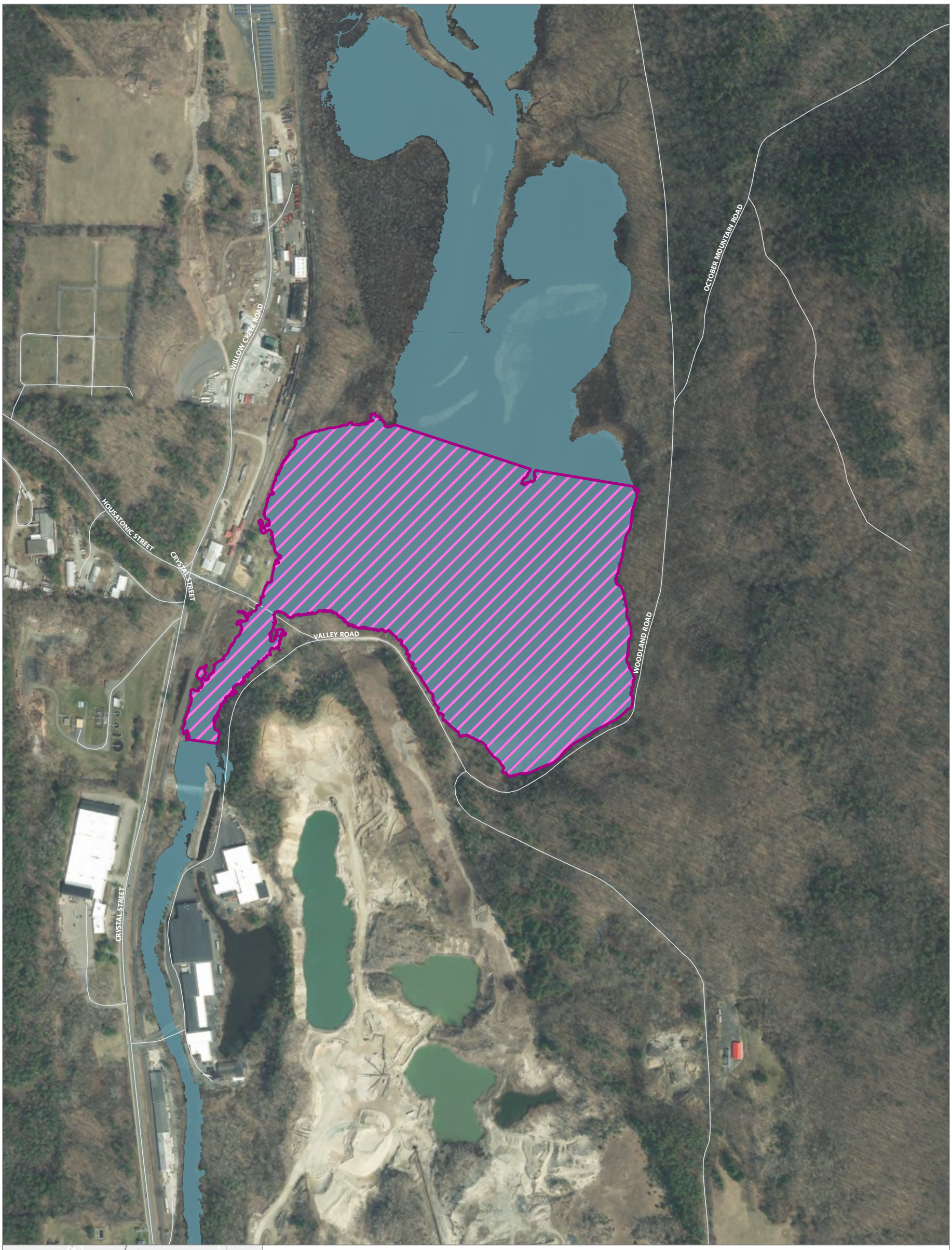

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Figure 2-3c
Extents of 2023 Fish Collection–Reach 6
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

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Figure 2-3d
Extents of 2023 Fish Collection–Reach 7D
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

Road

Housatonic River

Fish Sampling Area

Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.

0 820

Feet

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Figure 2-3e
Extents of 2023 Fish Collection–Reach 7G
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

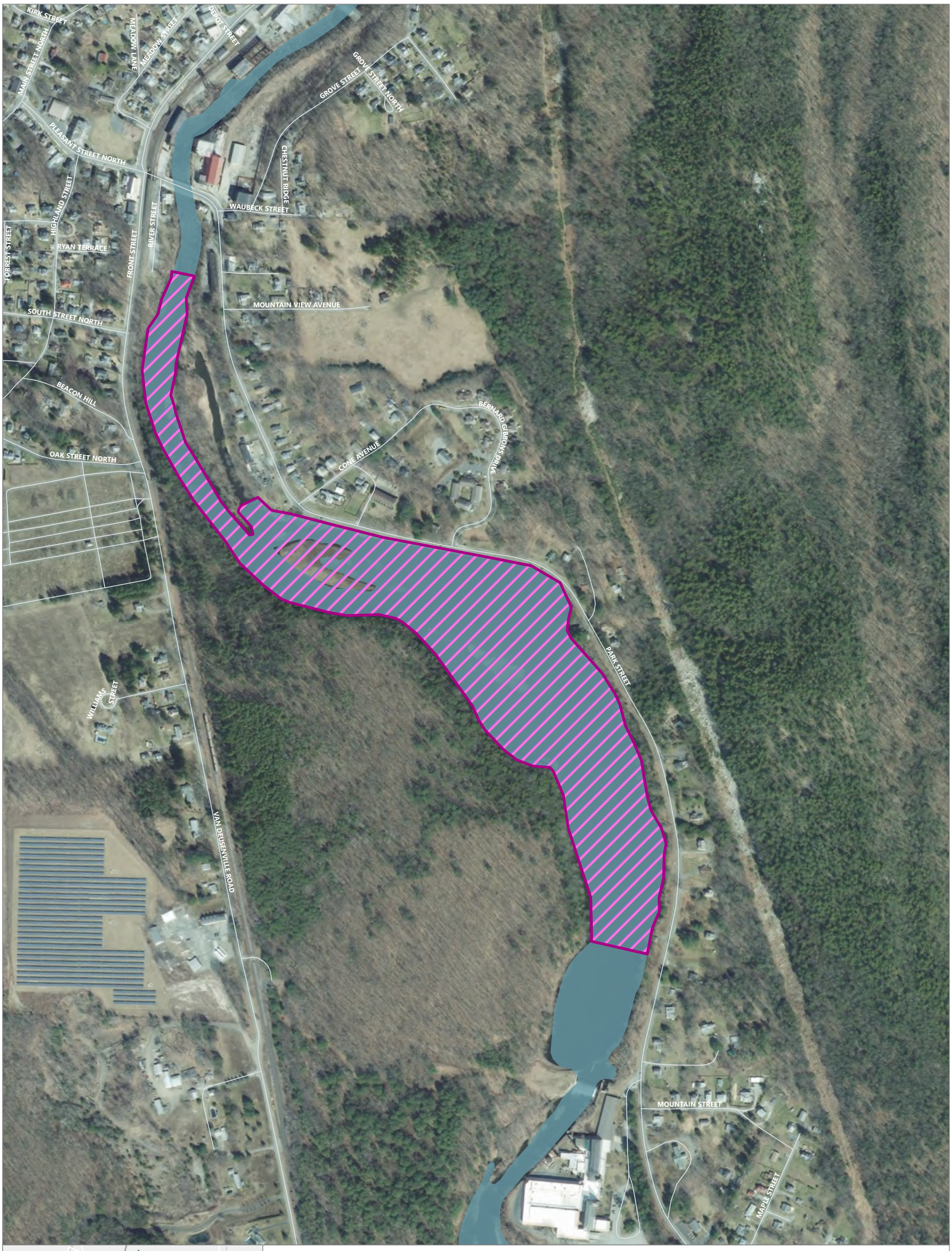

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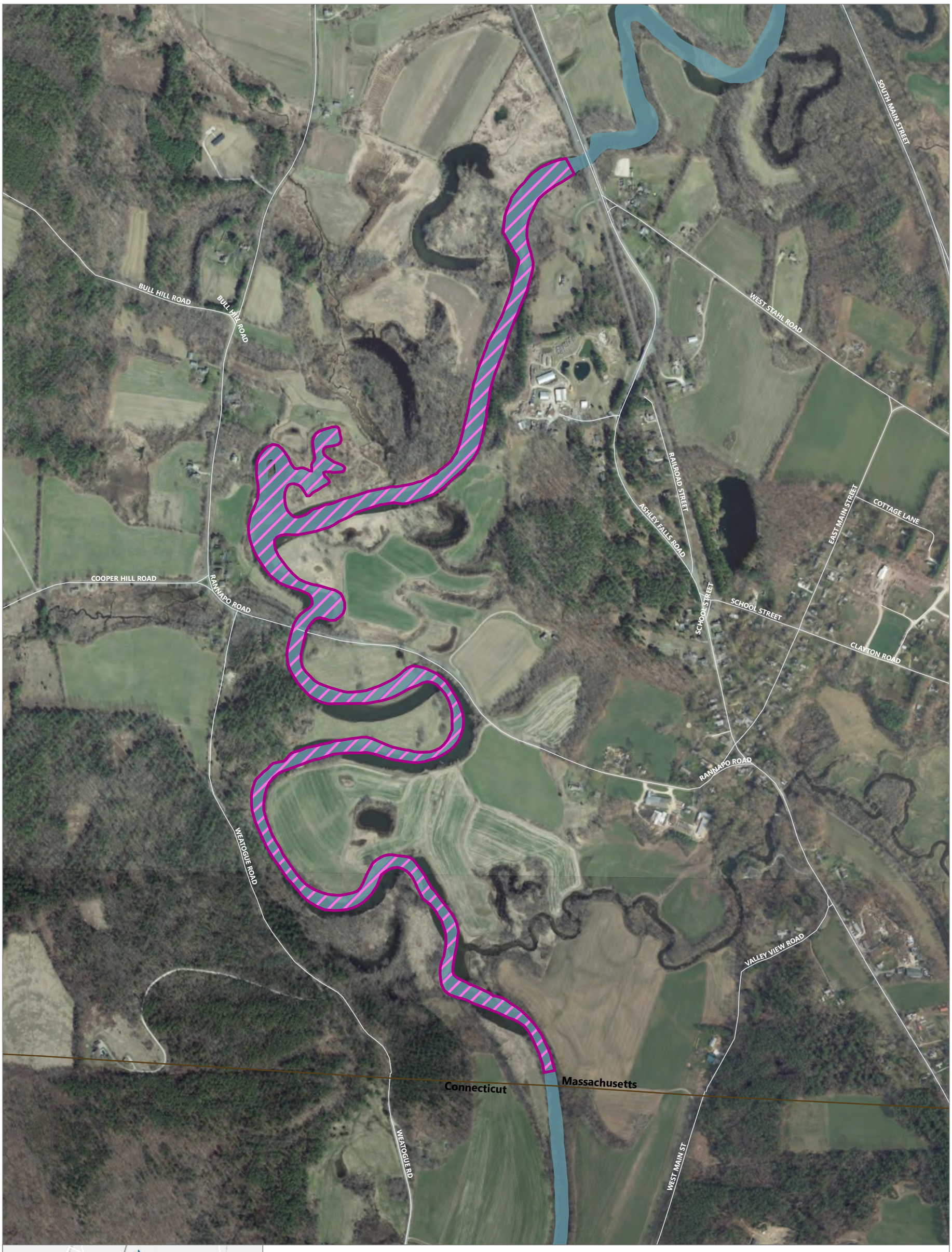
Figure 2-3f
Extents of 2023 Fish Collection–Reach 8
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



LEGEND:

- Road
- Housatonic River

Fish Sampling Area

- Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.
3. Community Survey Sampling was not performed in Reach 9

0 920
Feet

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Figure 2-3g
Extents of 2023 Fish Collection–Reach 9
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

LEGEND:

- Road
- Housatonic River

Fish Sampling Area

- Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.
3. Community Survey Sampling was not performed in Reach 10

0 1,060
Feet

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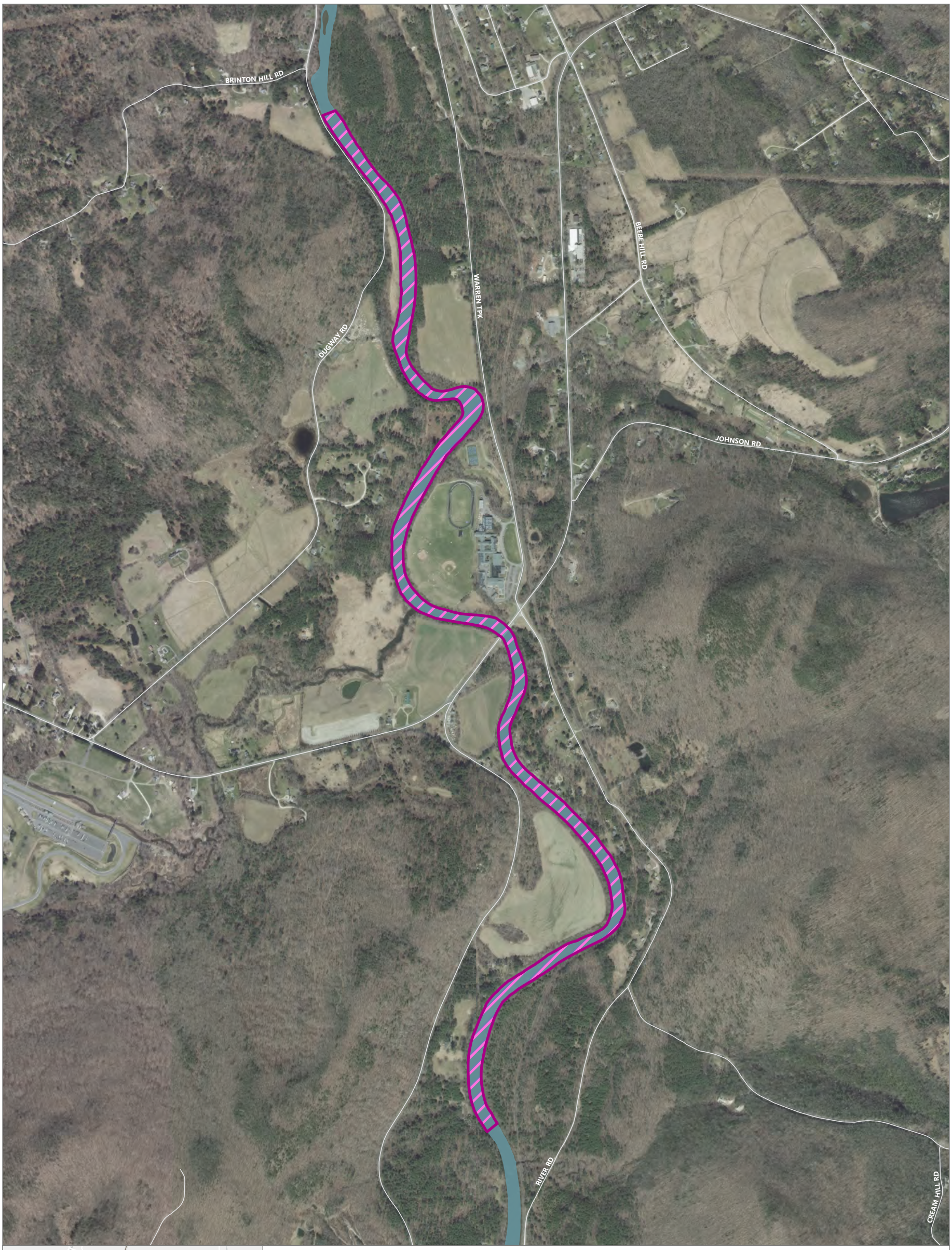
Figure 2-3h
Extents of 2023 Fish Collection–Reach 10
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



LEGEND:

- Road
- Housatonic River

Fish Sampling Area

- Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.
3. Community Survey Sampling was not performed in Reach 11

0 1,240

Feet

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Figure 2-3i
Extents of 2023 Fish Collection–Reach 11
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

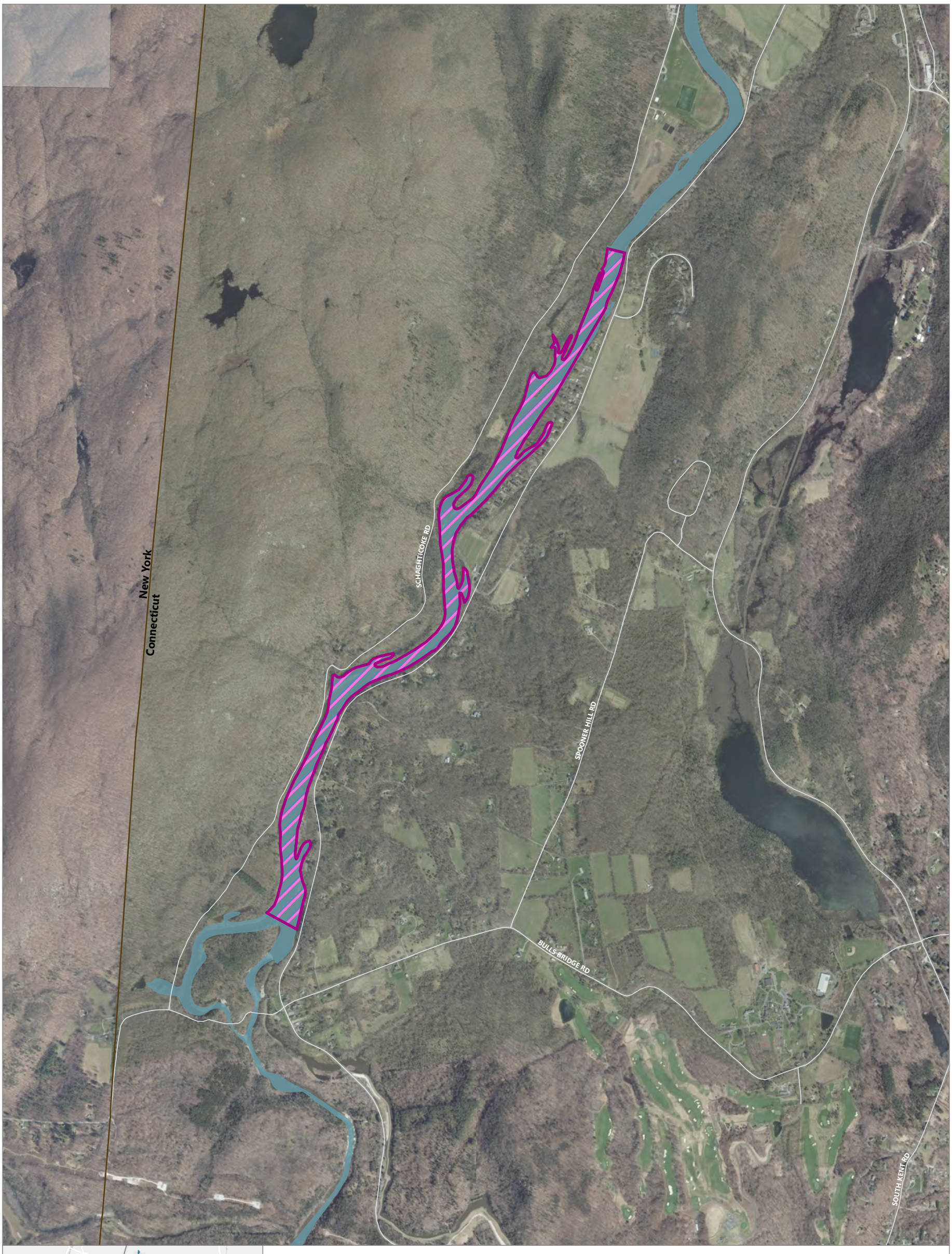

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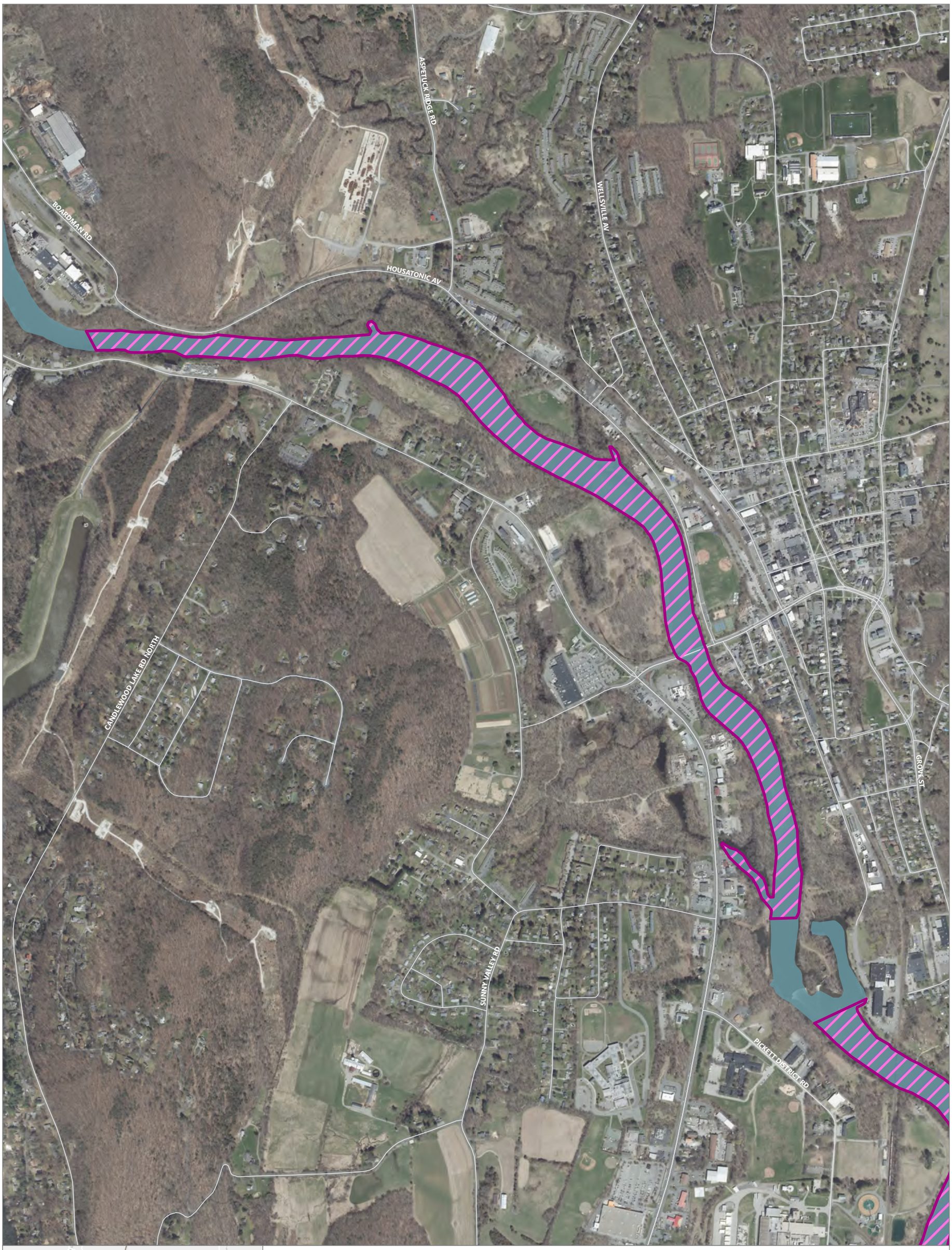
Figure 2-3j
Extents of 2023 Fish Collection–Reach 12
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



LEGEND:

Road

Housatonic River

Fish Sampling Area

Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.
3. Community Survey Sampling was not performed in Reach 13

0 1,060

Feet

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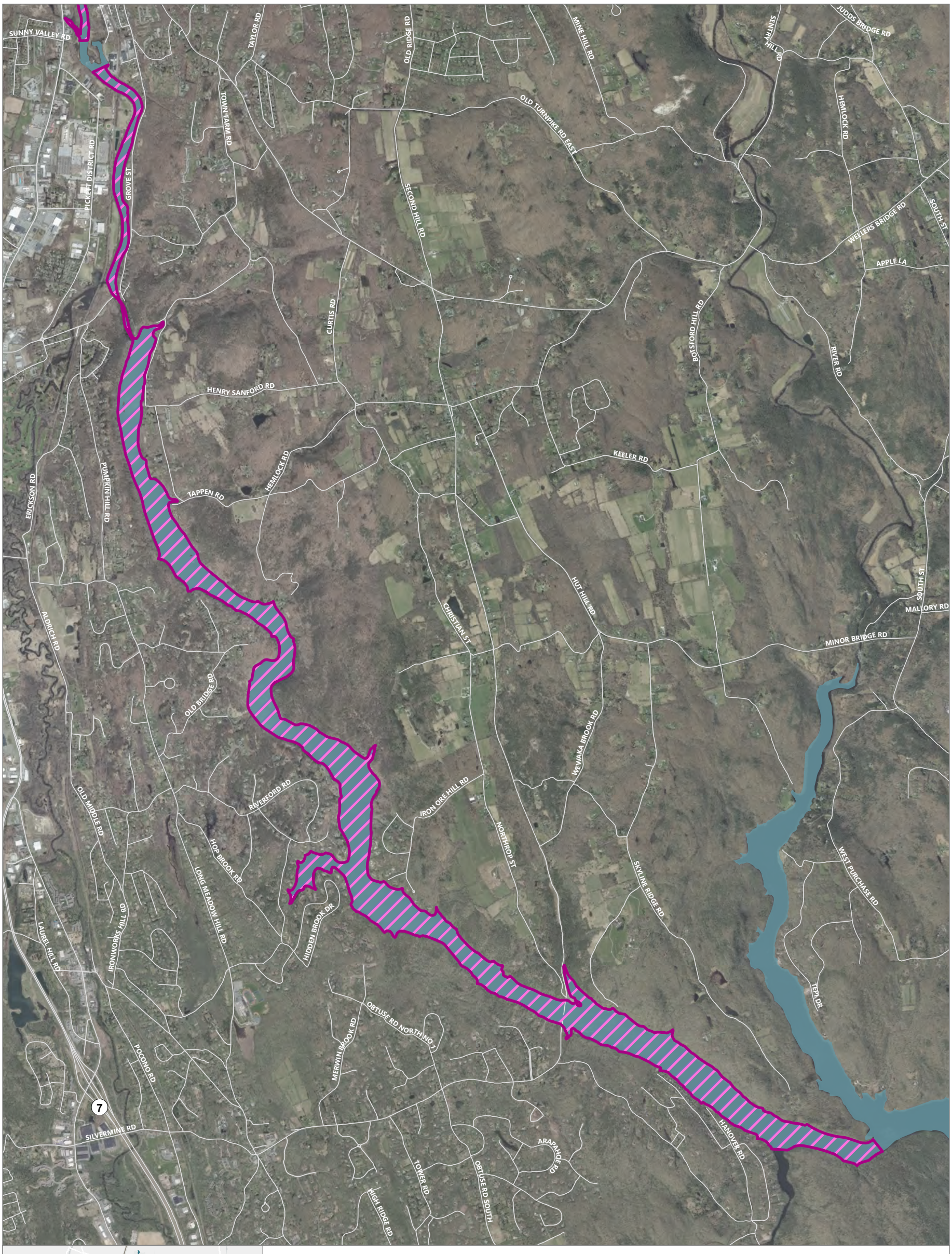
Figure 2-3k
Extents of 2023 Fish Collection–Reach 13
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



LEGEND:

- Road
- Housatonic River

Fish Sampling Area

- Tissue Sampling

NOTES:

1. Aerial Imagery from MassGIS, 2021 and University of Connecticut, 2019
2. Fish Sampling Areas represent extent of survey area, actual survey locations within each sampling area varies by reach.
3. Community Survey Sampling was not performed in Reach 14

0 2,000
Feet

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Figure 2-3I
Extents of 2023 Fish Collection–Reach 14
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

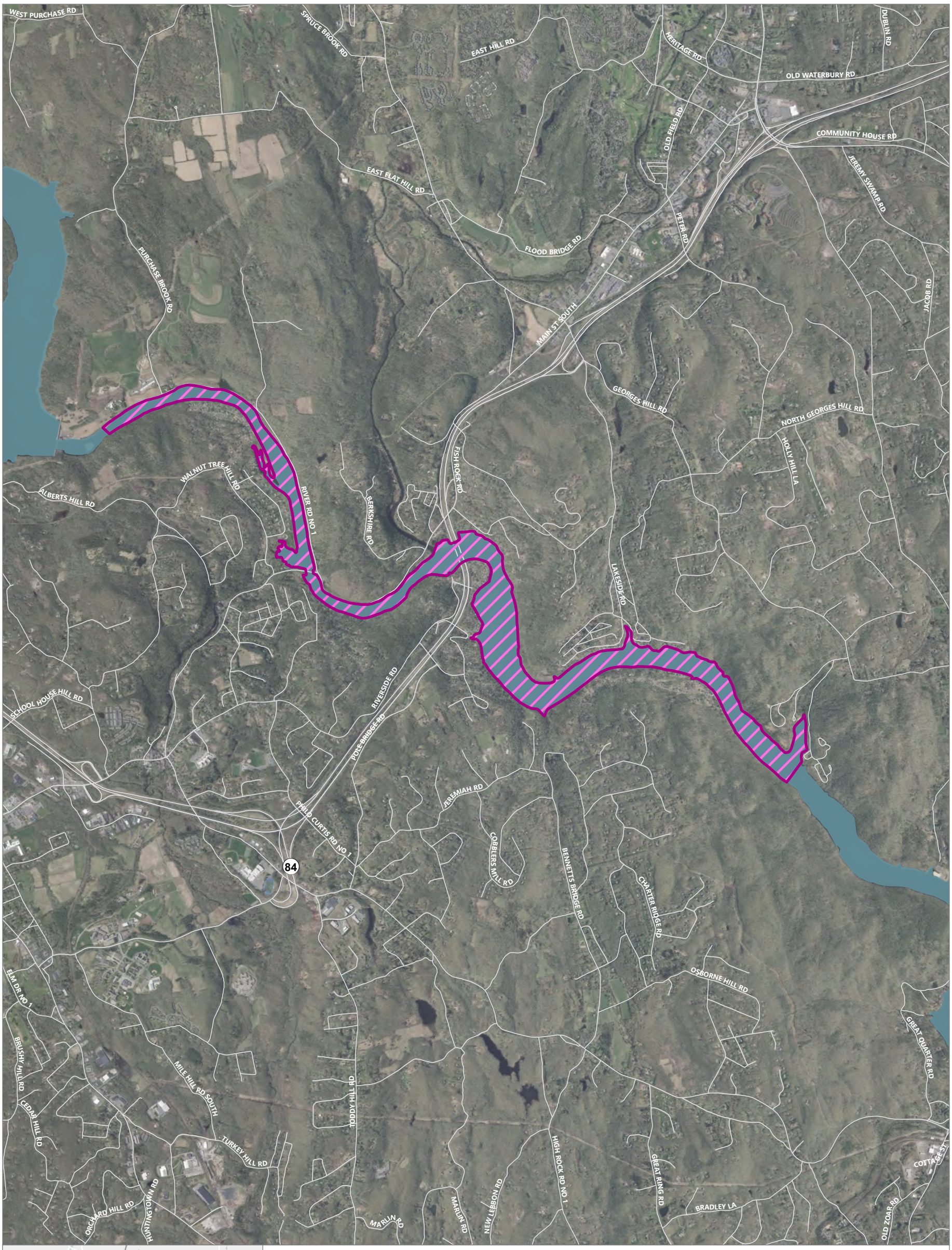

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Figure 2-3m
Extents of 2023 Fish Collection–Reach 15
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River

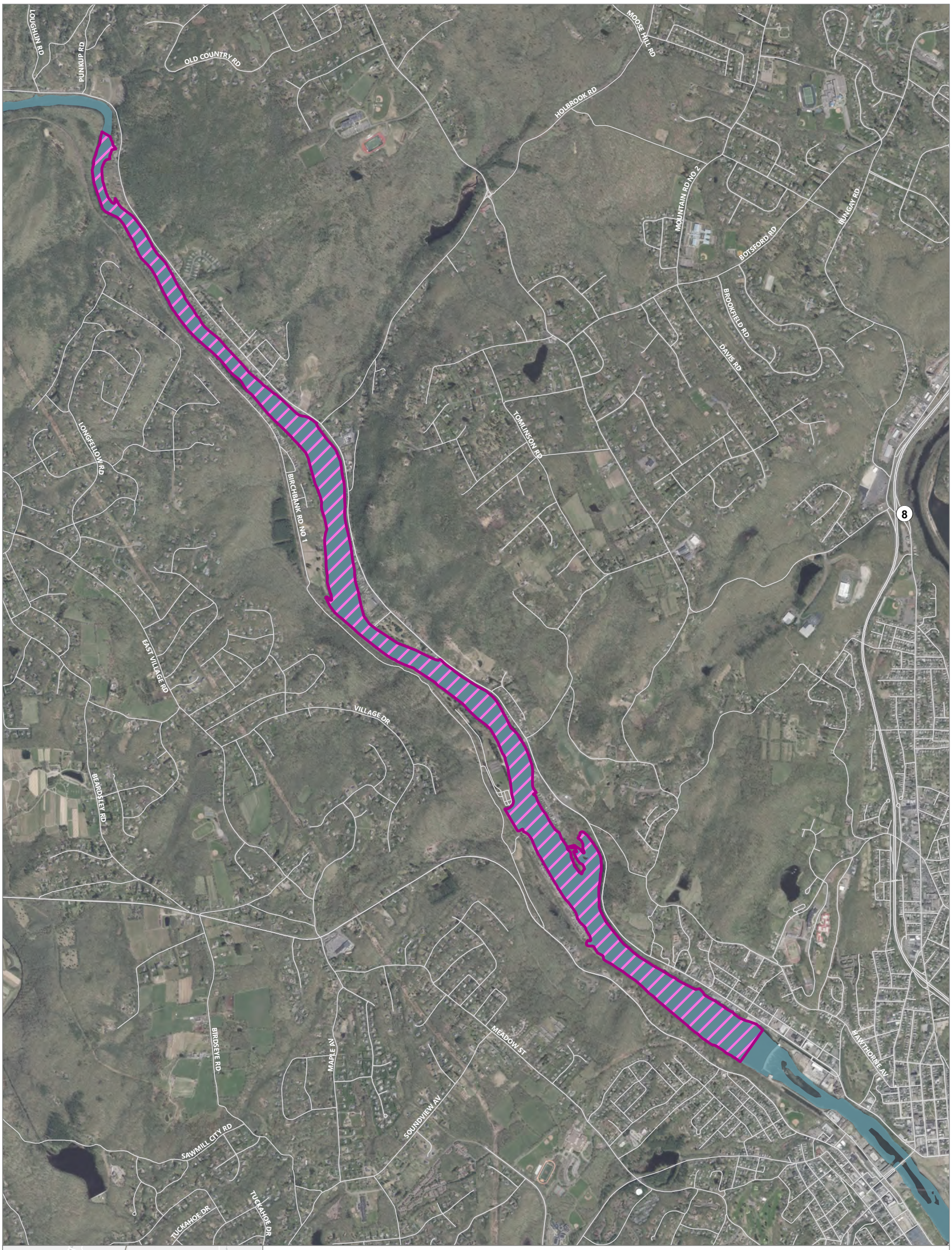

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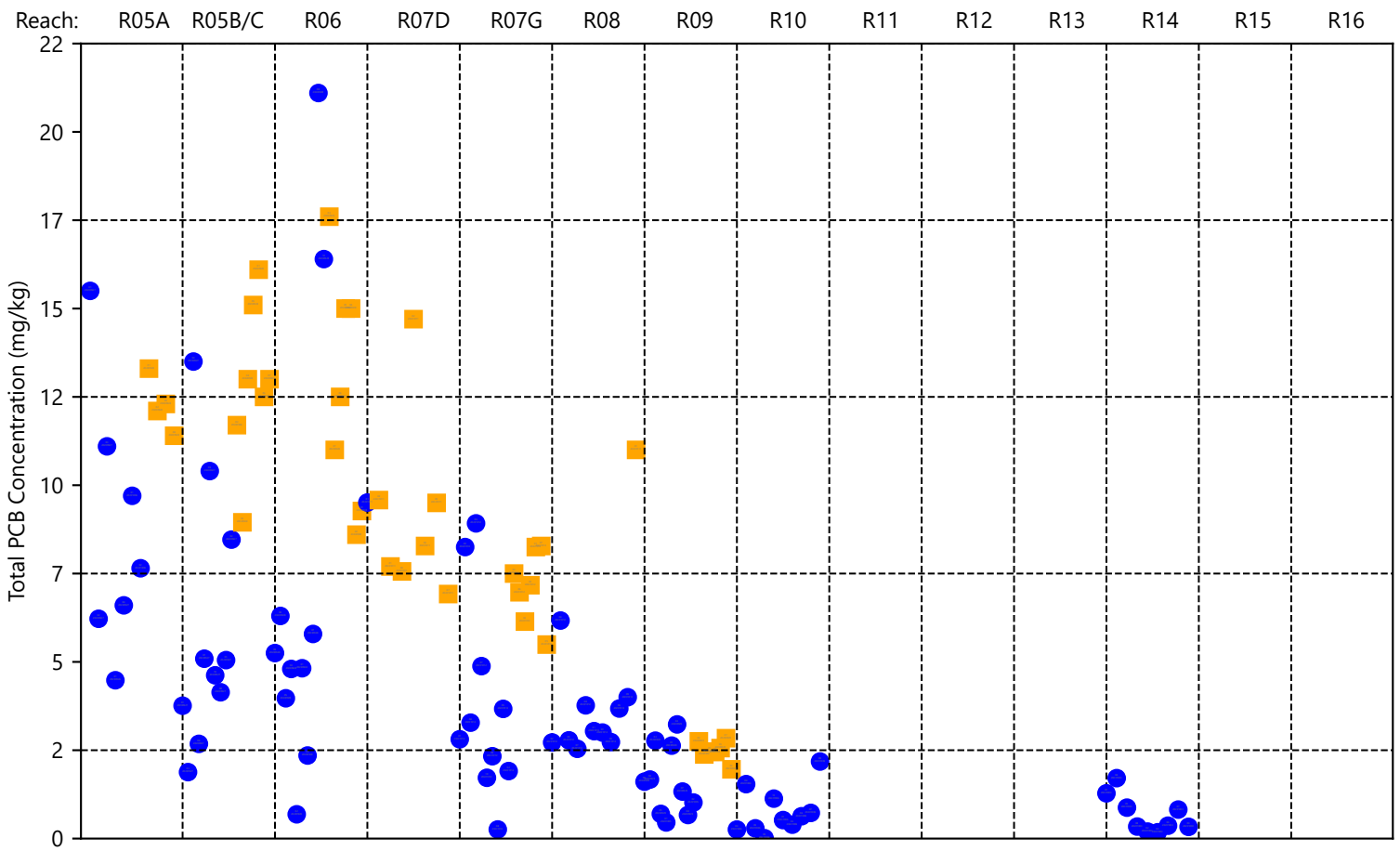
Figure 2-3n
Extents of 2023 Fish Collection–Reach 16
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River – Rest of River



Total fish analyzed: 117 (Adults – 77, Young-of-Year – 40)

Adults
Young-of-Year

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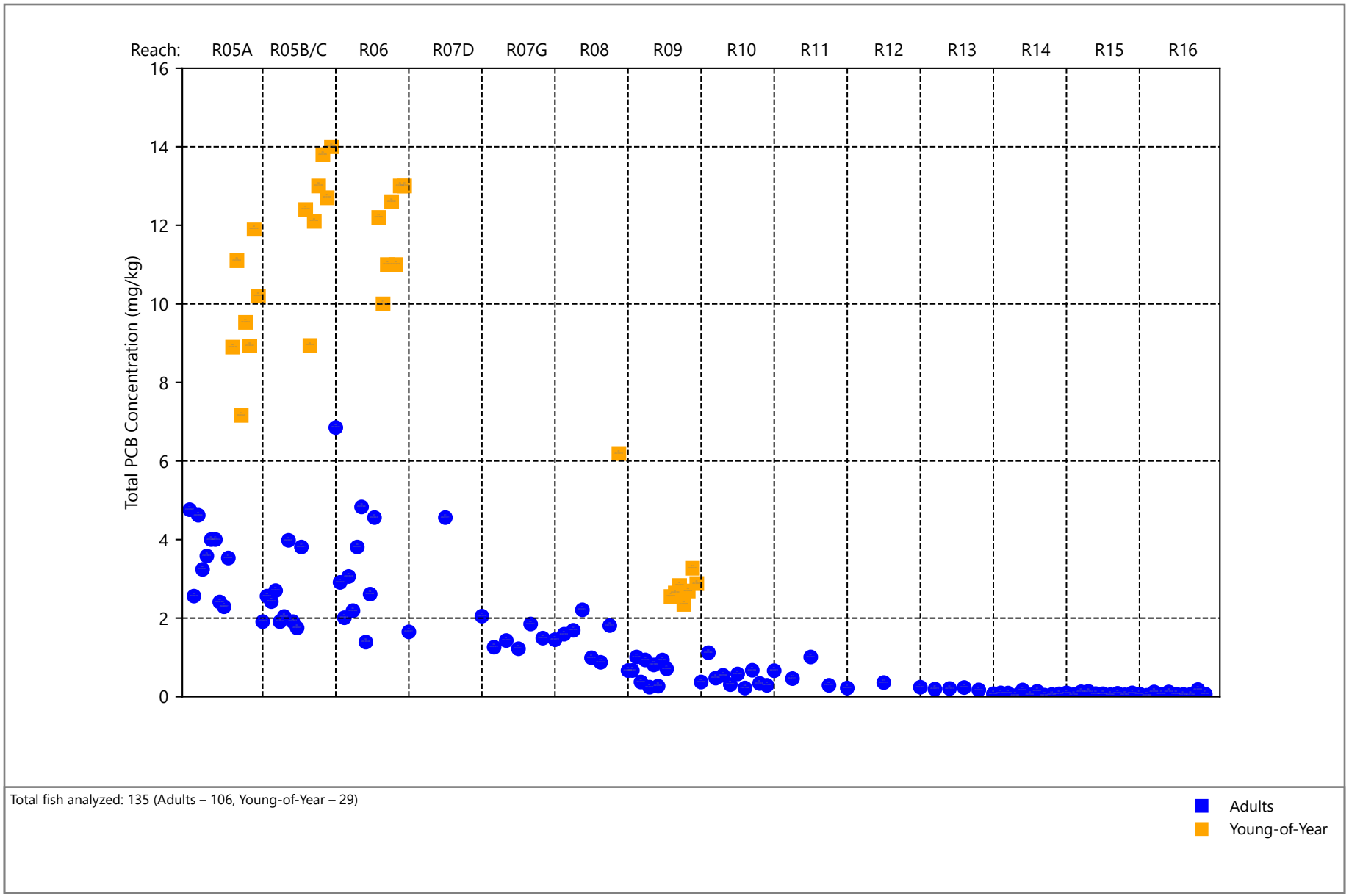
ANCHOR QEA

Figure 2-4a
Fish Aroclor Total PCB Concentrations by Reach: Largemouth Bass
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River



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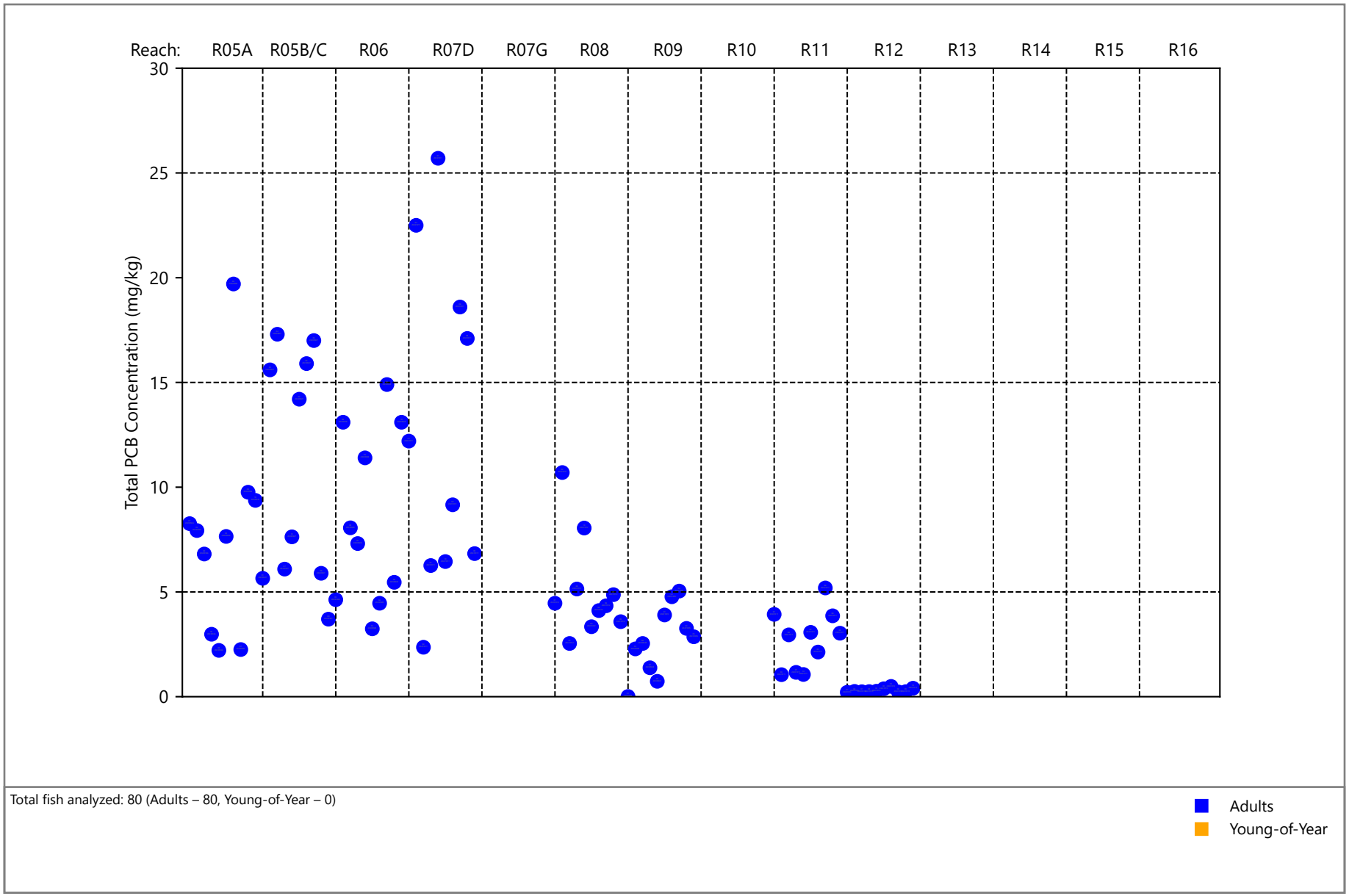
ANCHOR QEA

Figure 2-4b
Fish Aroclor Total PCB Concentrations by Reach: Yellow Perch
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River



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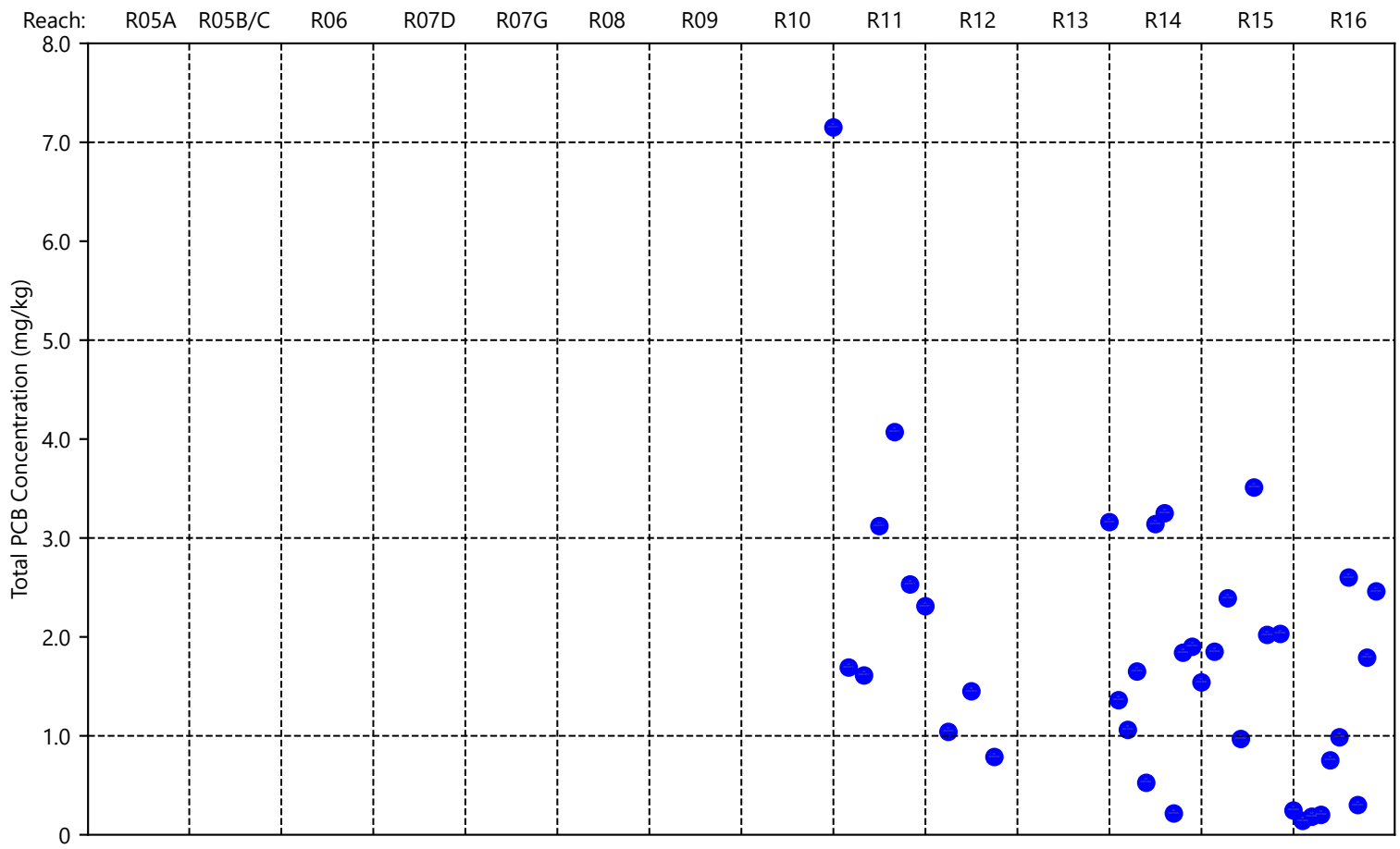
ANCHOR QEA

Figure 2-4c
Fish Aroclor Total PCB Concentrations by Reach: White Sucker
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River



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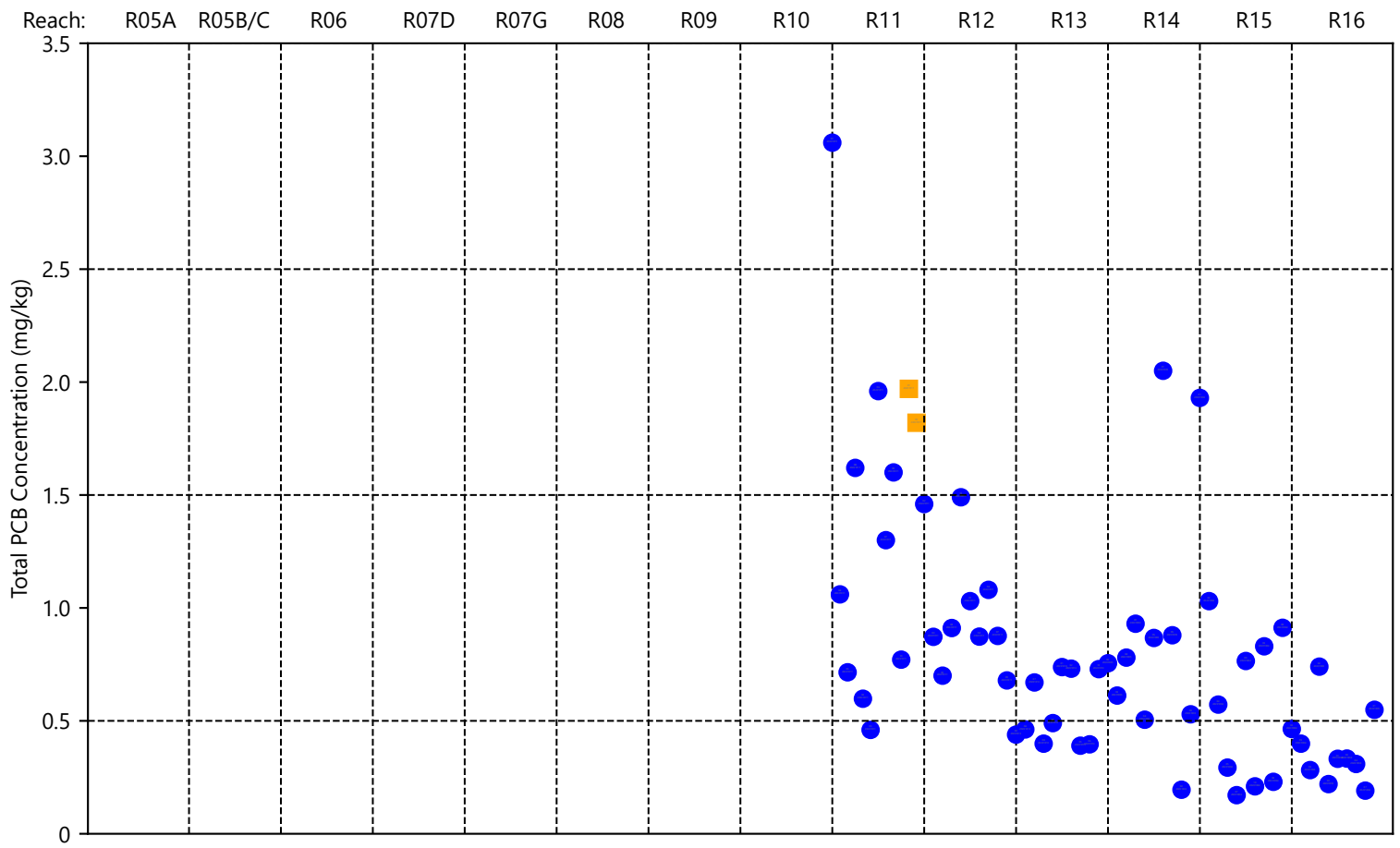
ANCHOR QEA

Figure 2-4d
Fish Aroclor Total PCB Concentrations by Reach: Northern Pike
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River



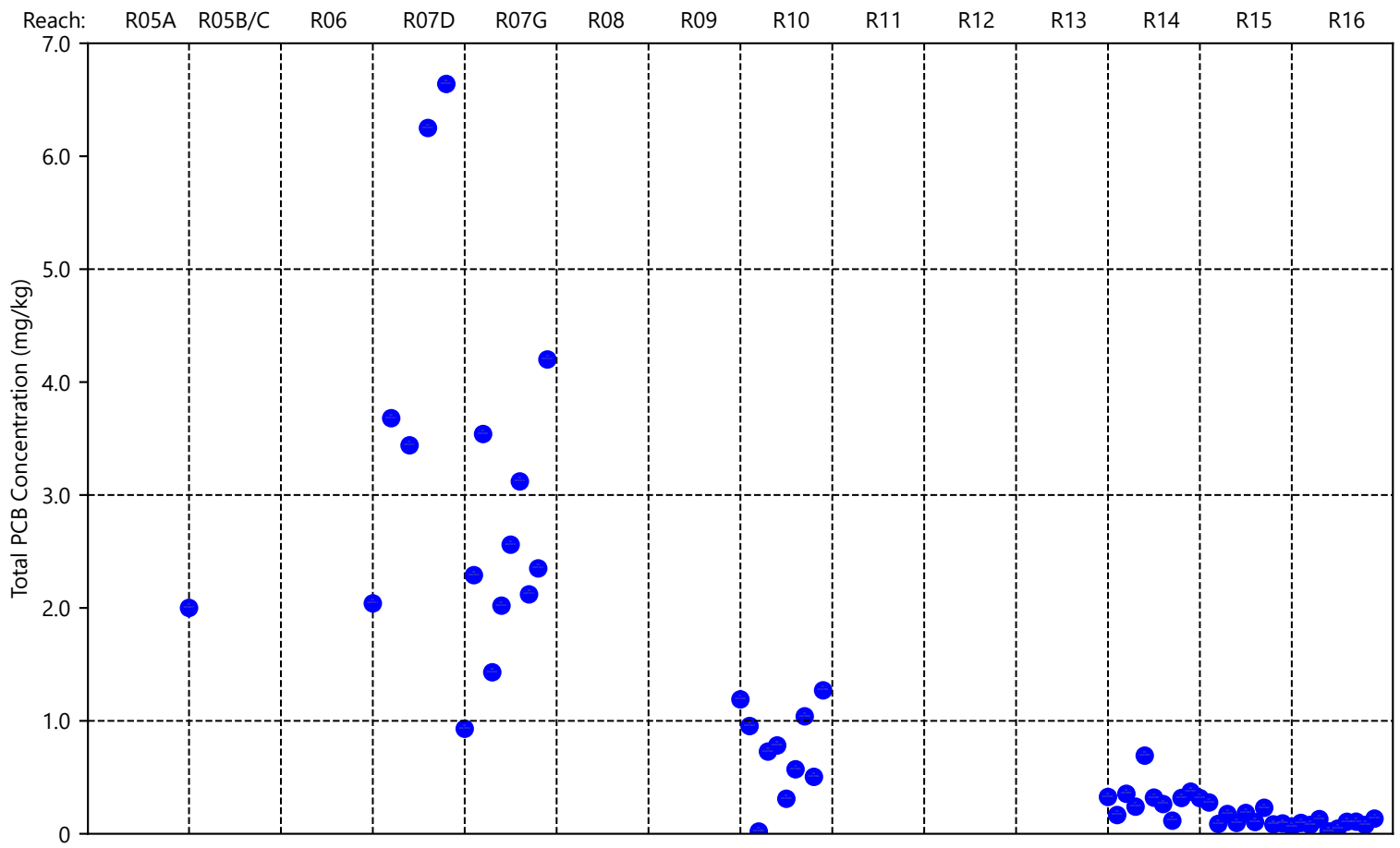
Total fish analyzed: 62 (Adults – 60, Young-of-Year – 2)

Adults
Young-of-Year

Publish Date: 01/28/2025 11:03 AM | User: BAL-DGRA2
File Path: \\WCL-FS1\Amesbury\Projects\General_Electric\Housatonic_River_()\Analysis\BMP_Fish\Python\Figure_DSR_HR_BMP_Fish_TPCB.py

ANCHOR QEA

Figure 2-4e
Fish Aroclor Total PCB Concentrations by Reach: Smallmouth Bass
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River



Total fish analyzed: 56 (Adults – 56, Young-of-Year – 0)

Adults
Young-of-Year

Publish Date: 01/28/2025 11:03 AM | User: BAL-DGRA2
File Path: \\WCL-FS1\Amesbury\Projects\General_Electric\Housatonic_River_()\Analysis\BMP_Fish\Python\Figure_DSR_HR_BMP_Fish_TPCB.py

ANCHOR QEA

Figure 2-4f
Fish Aroclor Total PCB Concentrations by Reach: Brown Bullhead
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River

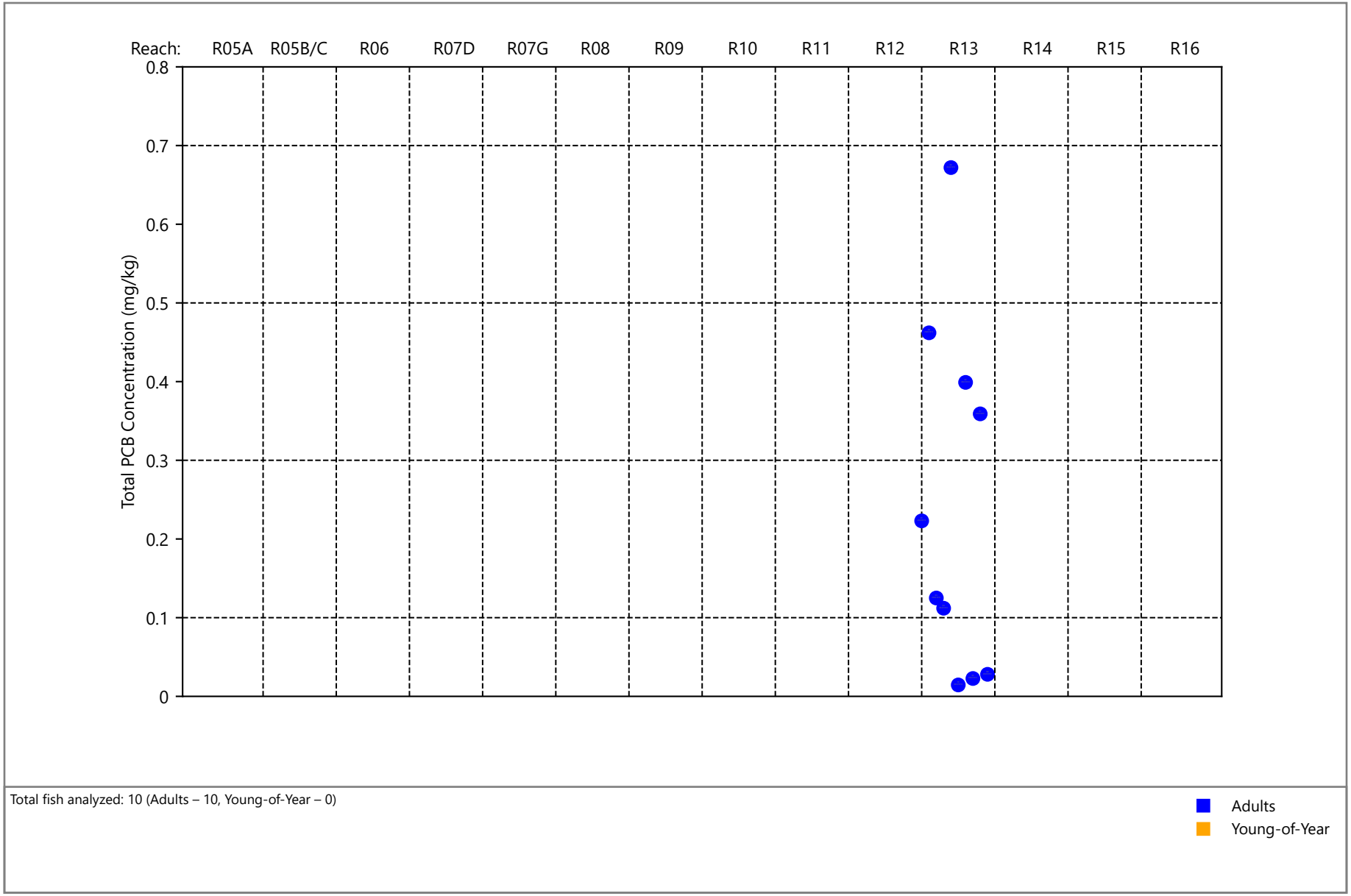


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Figure 2-4g
Fish Aroclor Total PCB Concentrations by Reach: Fallfish
Baseline Monitoring Program: Data Summary Report (2023)
Housatonic River - Rest of River