

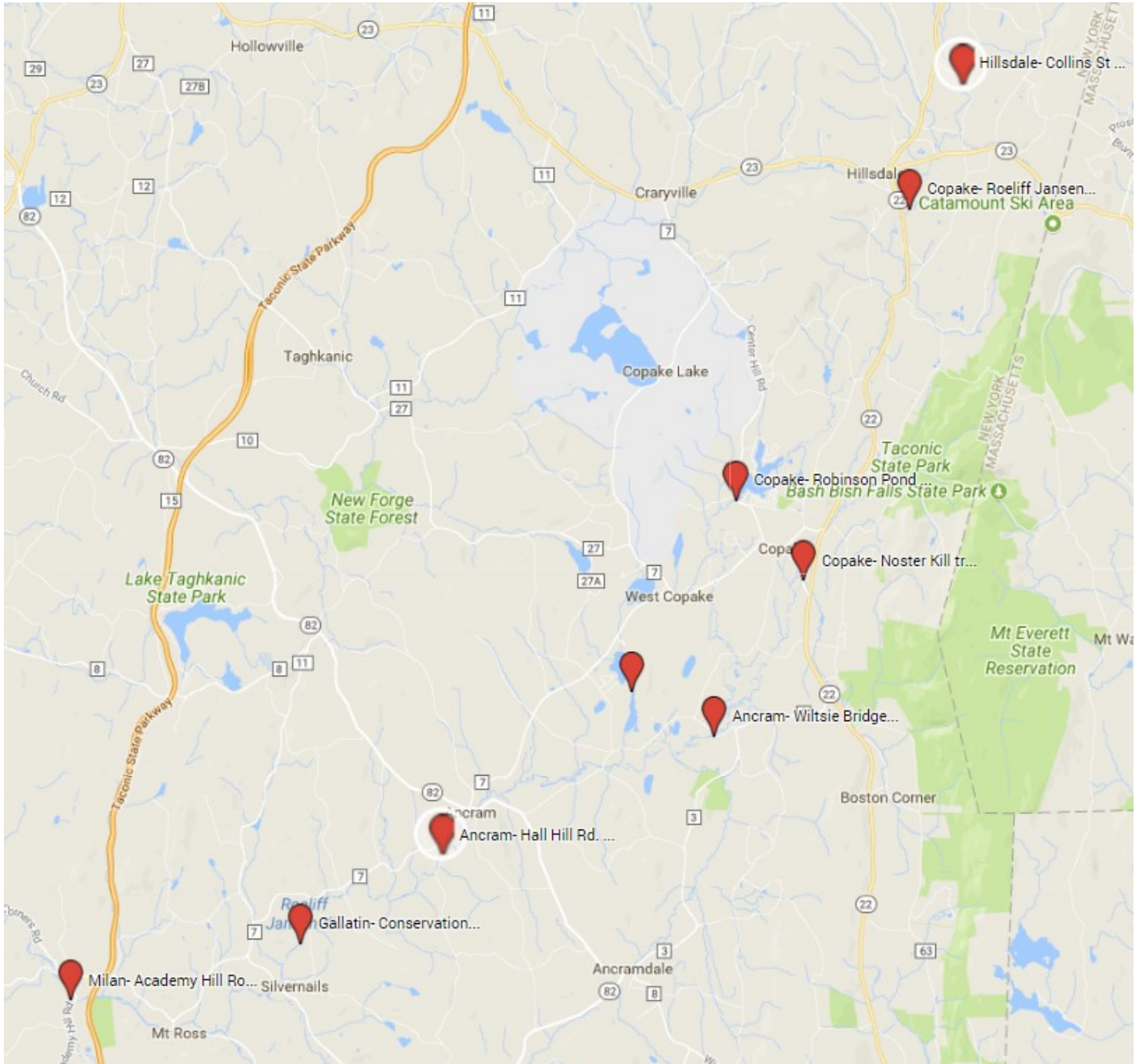
ROEJ WATERSHED
AN COMMUNITY

2018

Upstream Sampling Guide

ROEL WATERSHED AN COMMUNITY

Upstream Sampling Map



<--- Bard College, about 20 minutes west.

SUPPLIES AND GEAR

Sampling Gear:

- In the Kit from Bard:
 - This sampling book
 - Sterile sample containers, one per site plus a few extra
 - Rubber gloves, a pair per site plus a few extra
 - YSI Sampling meter and probe
 - Dipper, in a protective bag, keep dipper covered when not in use
 - Upstream Only: Bucket (for sampling from a bridge), in a protective bag, keep bucket covered when not in use; put nothing but water in the bucket
 - Upstream Only: 2 Safety vests (for sampling from a bridge)
- You need to supply:
 - Permanent marker (sharpie) and good pen
 - Cooler with cubed ice to completely cover samples (no ice packs/blocks)
 - * If using a styrofoam cooler, place samples inside a black trash bag inside the cooler, to block light
 - Watch or phone to tell time
 - Smartphone, GPS or Map for navigation

2018 Sampler Names

May 12 th		
June 9 th		
July 14 th		
August 11 th		
Sept. 15 th		
Oct. 13 th		

STEPS TO FOLLOW WHEN COLLECTING WATER

1. Write the time in the sampling log
2. If not already connected, connect the YSI probe to the meter, ensuring the twist lock is tight. Don't use force, it fits together smoothly.
3. Turn on the YSI meter.
- 4. Put rubber gloves on both hands at the outset, before handling bottle. Only handle bottle with gloved hands.**
5. No matter how you are sampling, **look for clear moving water, and collect water coming towards you.**

Wade out to moving water	Sample from shore with the Dipper	Sample with the Bucket from a Bridge
Find a safe place to wade into the stream. Try not to disturb sediment, face upstream, wait for sediment to dissipate. Uncap the bottle.	Find good footing on the streambank, within 3-4' of clear running water. Uncap the bottle.	You need 18" or more of depth. If too shallow, sample with dipper or by wading out.
Submerge the bottle upside-down. While still underwater, tilt the bottle upwards until air escapes, with opening facing upstream. Repeat 3X, discarding the first two fills and then keeping the 3rd one.	Rinse the dipper at least 3X in the running water. Don't touch the bottom. Dip water from beneath the surface, pour into bottle, and repeat 3X, discarding the first two fills and then keeping the 3rd one.	Both samplers should wear the safety vest. Watch for oncoming traffic. Have your partner slow traffic. Use the line on the handle to raise lower the bucket, and the line on the bottom to tilt. You can see the bucket better on the downstream side of the bridge.
Leave air in neck of bottle, cap and place on ice.	Rinse bucket in running water. Fill and dump. Fill and bring up, and set it down. Place YSI probe into water to the top of the strain relief, wait for the readings to stabilize, then have partner write conductivity (top) and temperature in the log.	Lower bucket, rinse again, bring it up again and set it down. Dip bottle in bucket and discard, dip again and discard, dip and keep. <i>Collect from fresh water; <u>do not collect water contaminated by the probe.</u></i>
Place YSI probe into water to the top of the strain relief, wait for the reading to stabilize, then have partner write conductivity (top) and temperature in the log.	Leave air in neck of bottle, cap and place on ice.	Loop YSI cable loosely around hook on the end of the dipper, lower it into the water to the top of the strain relief, wait for the reading to stabilize, then have partner write conductivity (top) and temperature in the log.
Turn off meter. Discard gloves	Leave air in neck of bottle, cap and place on ice.	Turn off meter. Put bucket in protective bag. Discard gloves.
	Turn off meter. Put dipper in protective bag. Discard gloves.	

6. Place your observations in the log book, such as cloudy water, tide ebb/flow on Hudson shoreline sites, or anything else of note.

May 12, 2018	Temp	Conductivity	Time	Notes
RJ-43.30 Collins St Ext.				
RJ-40.78 RJ Park				
RJ-37.58 Robinson Pd.				
RJ-NK-0.30 Noster/7A				
RJ-31.26 Wiltsie Br.				
RJ-25.22 Hall Hill Rd				
RJ-22.44 Gallatin Cons.				
RJ-17.94 Academy Hill				

June 9, 2018	Temp	Conductivity	Time	Notes
RJ-43.30 Collins St Ext.				
RJ-40.78 RJ Park				
RJ-37.58 Robinson Pd.				
RJ-NK-0.30 Noster/7A				
RJ-31.26 Wiltsie Br.				
RJ-25.22 Hall Hill Rd				
RJ-22.44 Gallatin Cons.				
RJ-17.94 Academy Hill				

July 14, 2018	Temp	Conductivity	Time	Notes
RJ-43.30 Collins St Ext.				
RJ-40.78 RJ Park				
RJ-37.58 Robinson Pd.				
RJ-NK-0.30 Noster/7A				
RJ-31.26 Wiltsie Br.				
RJ-25.22 Hall Hill Rd				
RJ-22.44 Gallatin Cons.				
RJ-17.94 Academy Hill				

Aug. 11, 2018	Temp	Conductivity	Time	Notes
RJ-43.30 Collins St Ext.				
RJ-40.78 RJ Park				
RJ-37.58 Robinson Pd.				
RJ-NK-0.30 Noster/7A				
RJ-31.26 Wiltsie Br.				
RJ-25.22 Hall Hill Rd				
RJ-22.44 Gallatin Cons.				
RJ-17.94 Academy Hill				

Sept. 15, 2018	Temp	Conductivity	Time	Notes
RJ-43.30 Collins St Ext.				
RJ-40.78 RJ Park				
RJ-37.58 Robinson Pd.				
RJ-NK-0.30 Noster/7A				
RJ-31.26 Wiltsie Br.				
RJ-25.22 Hall Hill Rd				
RJ-22.44 Gallatin Cons.				
RJ-17.94 Academy Hill				

Oct. 13, 2018	Temp	Conductivity	Time	Notes
RJ-43.30 Collins St Ext.				
RJ-40.78 RJ Park				
RJ-37.58 Robinson Pd.				
RJ-NK-0.30 Noster/7A				
RJ-31.26 Wiltsie Br.				
RJ-25.22 Hall Hill Rd				
RJ-22.44 Gallatin Cons.				
RJ-17.94 Academy Hill				

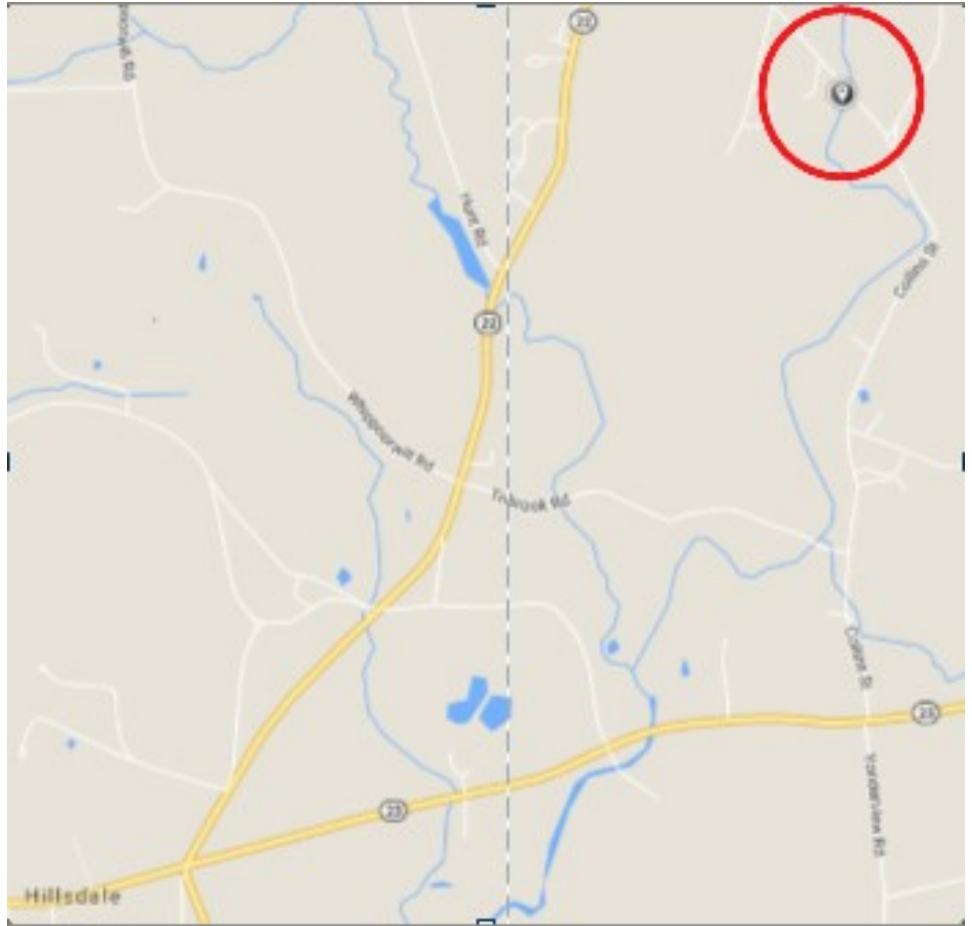
RJ-43.30 Hillsdale- Collins Street Extension

This site is located about six miles downstream of the headwaters of the Roe Jan Kill. Between the stream's source and this site, much of the riparian area is cleared for agricultural use.

GPS: 1040 Collins St Ext Hillsdale

Parking & Access: There is pull-off on the south side of the road just west of the bridge. Be sure to sample at the bridge on Collins St. *Extension*, not at Collins St.

Note: If water is deep enough, sample from bridge.

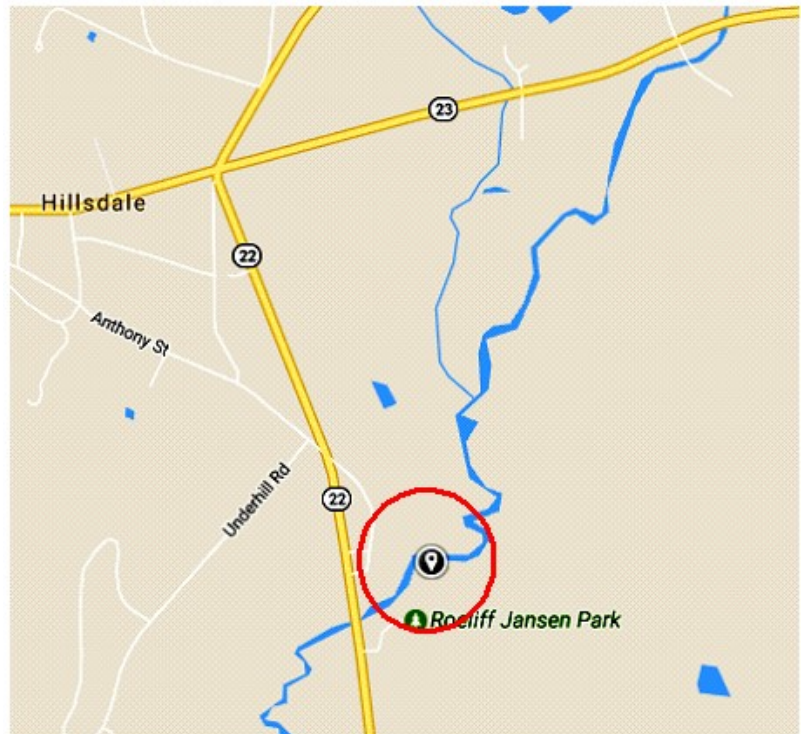


RJ-40.78 Copake- Roeliff Jansen Park stream access

This sampling site is located in an area where NYS DEC and the Columbia County DOH have noted water quality impacts due to septic systems since at least 1993.

GPS: Roe Jan Park Copake

Parking & Access: There is a parking lot at the site. Walk north about 200 yards from the parking area, going past the children's play area, to the grassy area along the river.



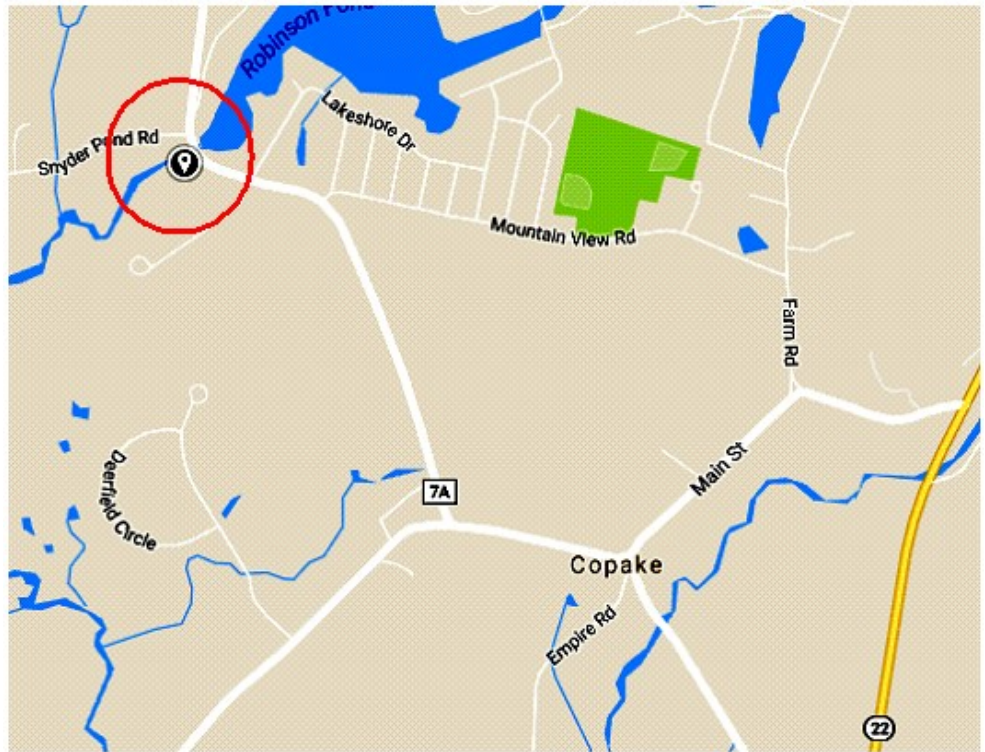
RJ-37.58 Ancram- Robinson Pond outlet

This sampling point is located in the main stem of the Roe Jan, upstream of the confluence of the Bash Bish Brook, at the outlet of Robinson Pond. Onsite septic systems are thought to be sources of nutrient pollution in Robinson Pond. This is a fishing access location.

GPS: County Route 7A & Snyder Pond Rd, Copake

Parking & Access: There is limited shoulder parking at the site south of the bridge across from the lake.

Note: Even though there is a bridge, sampling is easier with dipper or wading in.



RJ-NK-0.30 Copake- Noster Kill tributary at Route 7A

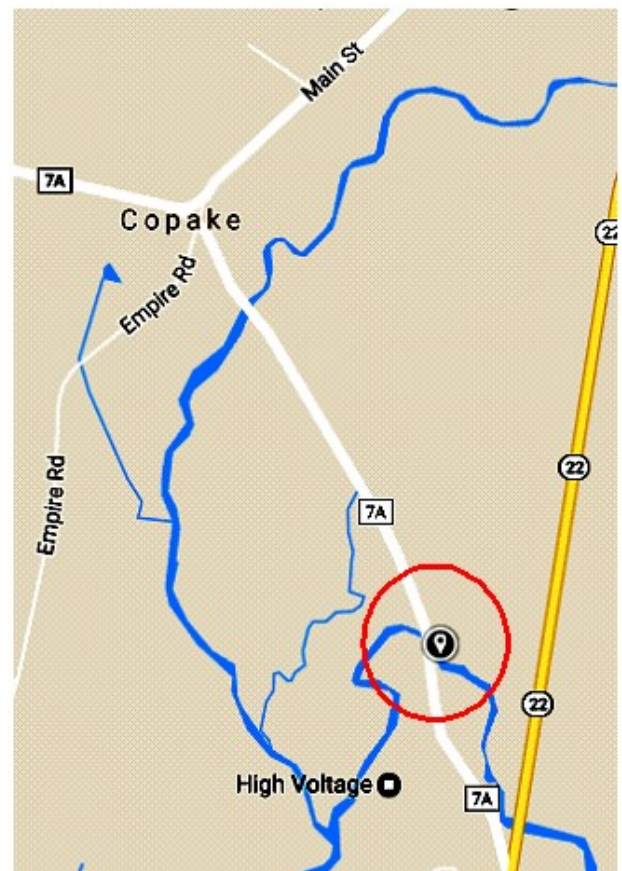
This sampling site is located in the Noster Kill, a tributary to the Roe Jan that is a designated trout spawning stream.

Map: Find 7A and Rt 22, go N on 7A to the small bridge over the RJ.

GPS: "Jim's auto body Copake", then about 500' south on 7A to a closed garage/car-wash at a small bridge over the Noster Kill.

Parking & Access: Park in front of the closed garage/car wash. Walk across the road and then walk back along the path to the stream near the foot of the bridge. Be careful because there are one or two dangerous sinkholes.

Note: If water is deep enough, sample from bridge.



RJ-31.26 Ancram- Wiltsie Bridge Road fishing access

This DEC fishing access location sits between the Bash Bish Brook (upstream of here) and the Punch Brook (downstream of here), two of the Roe Jan's major tributaries. There are agricultural operations near this sampling point.

GPS: Herondale Farm Ancram

Parking & Access: Park on the side of Wiltsie Bridge Rd. Just east of the bridge on the south side the shoulder is a bit wider next to the farm road entrance.

Note: If water is deep enough, sample from bridge.



RJ-25.22 Ancram- Hall Hill Road Bridge

Two wastewater treatment plant outfalls (both privately owned) are located less than one mile upstream of this sampling site.

Map: Find the intersection of Hall Hill Rd and 7. Go south on Hall Hill Rd. a few hundred yards to the bridge.

GPS: "County Rt 7 & Hall Hill Rd, Ancram", and then down Hall Hill Rd. about 200 yards to the bridge.

Parking & Access: Park near the bridge and use the rocky path down to the stream.

Note: If water is deep enough, sample from bridge.

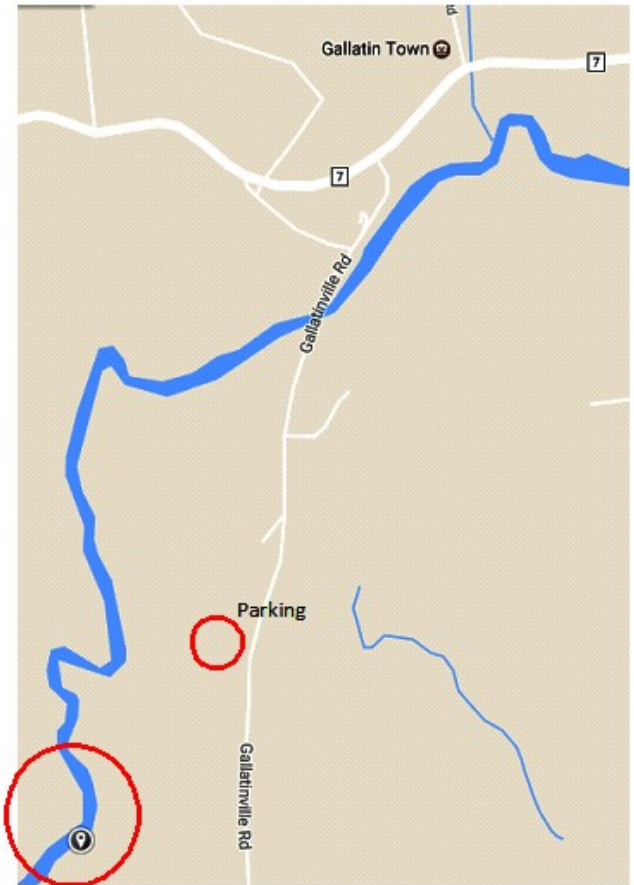


RJ-22.44 Gallatin Conservation Area

Map: Find Gallatinville Rd and Rt 7. Go south on Gallatinville till you see the parking area marked "fishing" on the right.

GPS: "119 Gallatinville Rd", then right into parking area marked for "fishing"

Parking & Access: Park at the small unpaved lot, and then walk south past the gate into a large downward sloping field. Go downhill and to the right, where you'll see a path leading into the woods, leading to the Roe Jan. Steep bank, be careful.



RJ-17.94 Milan- Academy Hill Road Bridge fishing access

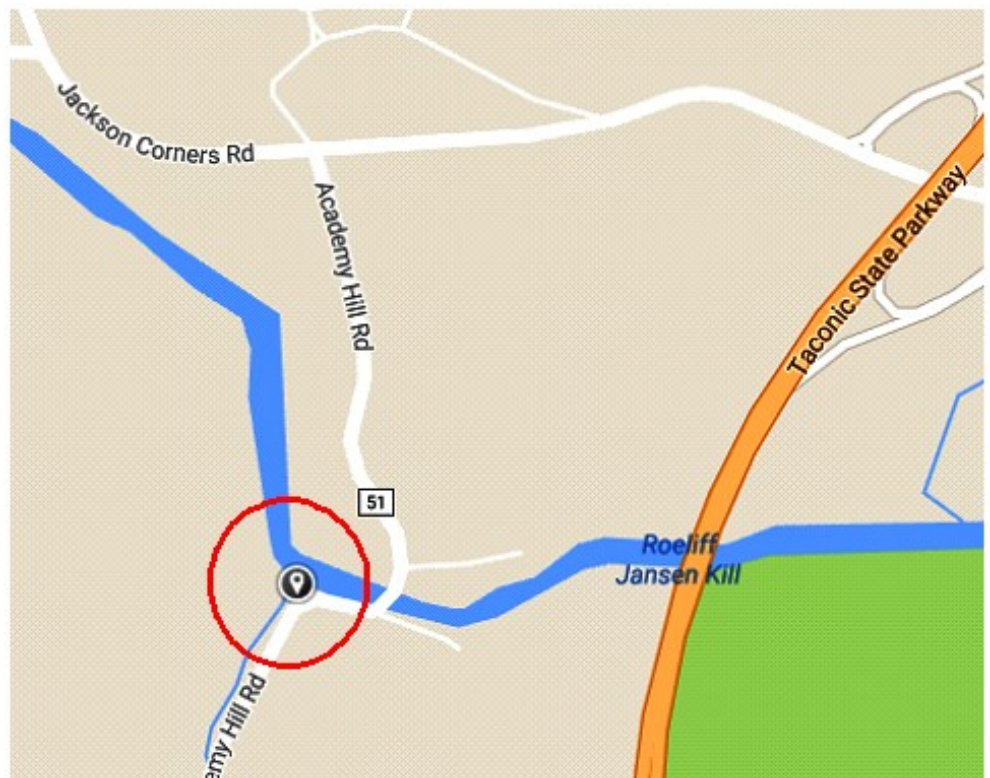
This sampling site is a DEC fishing access site near the Taconic State Parkway. Land cover surrounding this portion of the Roe Jan is forest.

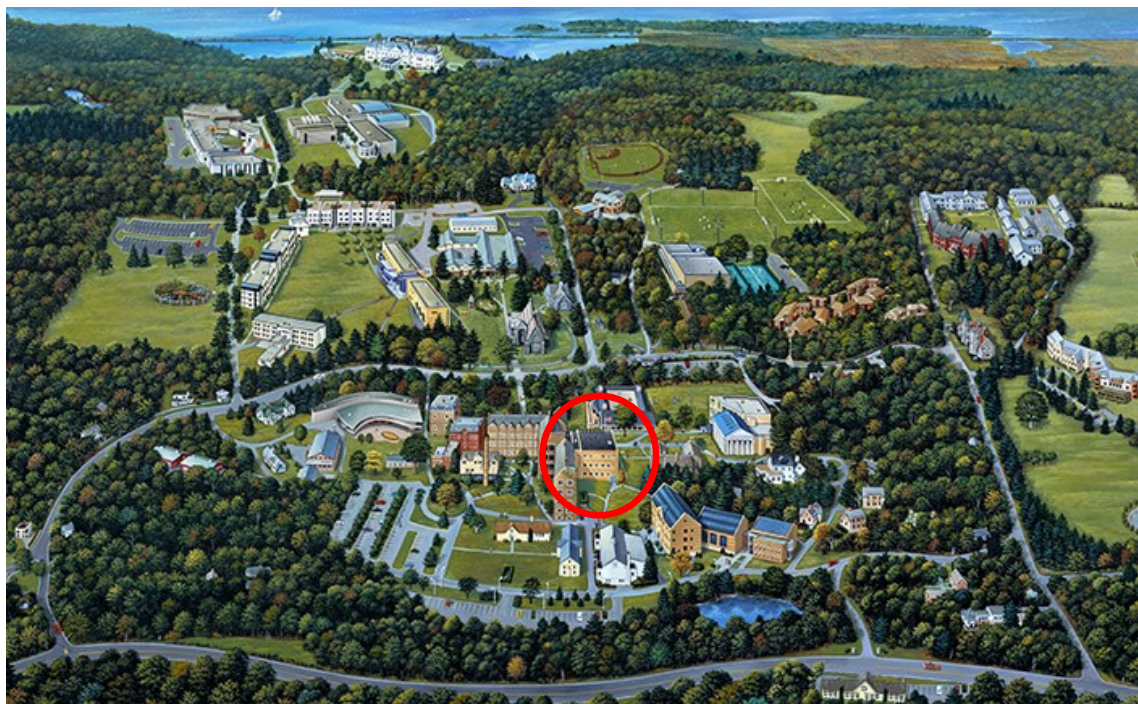
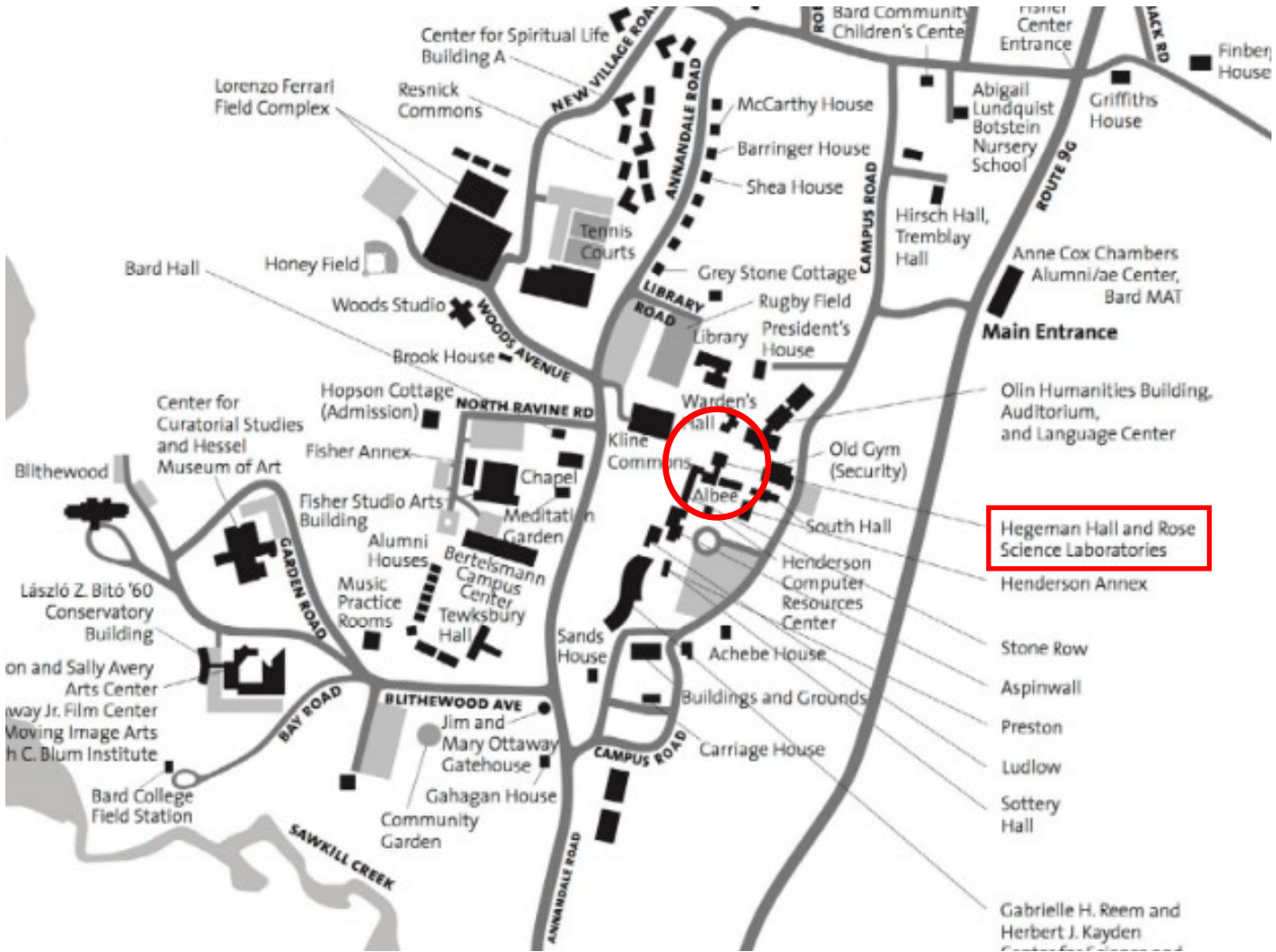
GPS: "Jackson Corners Rd & Academy Hill Rd" then down Academy Hill Rd just over a quarter mile, past the bridge to the pullout area on the left.

Parking & Access: There is a rough parking area about 100 yards past the bridge. Walk down the path on the north side of the road. Be careful to sample Roe Jan water, not the joining Academy Creek water, coming from the south.

NOTE—Do not sample from the bridge.

NOTE—the bridge adjacent to the that was out in 2017 is now repaired and open.





SAMPLES ARE DUE AT ROSE HALL ROOM 306 BETWEEN 11AM AND NOON.