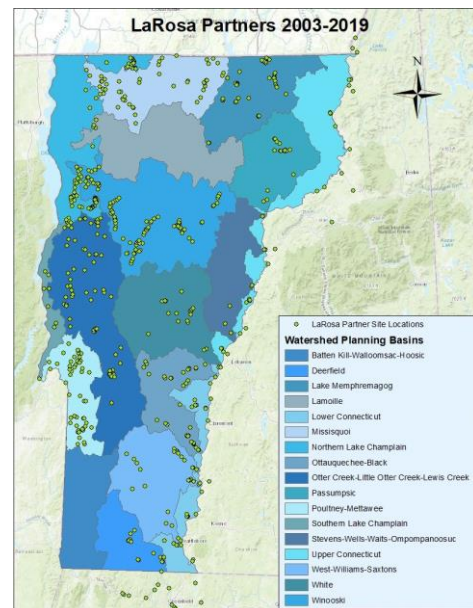


LAROSA PARTNERSHIP PROGRAM NEWSLETTER



Q & A:

Q: Approximately how much rainfall is needed to merit sampling for a high flow event?

A: Generally, about 0.5-1 inch of rain. Less if the stream is small, more if the stream is large and there's a drought.

REMINDERS:

- Meaghan is on vacation from 7/17-8/1, so contact [Jim](#) or [Heather](#) if needed.
- When collecting high flow samples, please also collect the regular samples before the next pick-up (once rivers return to base flow).
- Check your supplies and let Meaghan know if you need anything before the Event 7 pick-up (week of 8/2).
- The Water Quality Sampling Guide, training info, video resources, maps, and IWIS links and reports can also be found on the [LaRosa website](#).

ABOUT THE LAROSA PARTNERSHIP PROGRAM

Since 2003, this partnership has helped watershed associations and monitoring groups across Vermont implement new and/or ongoing monitoring projects for surface waters in need of water quality assessment by helping to alleviate the financial burden of laboratory analysis costs.

UPDATES

- ❖ New interactive [online map](#) of the 2021 sampling sites! You can click on individual sites to see additional information.
- ❖ [List of LaRosa IDs](#) for all 2021 sites added to the DEC's [IWIS database](#) (**search for sites using only the 6-digit numerical Location ID**). LaRosa IDs and additional info for all previous and current sites can be found using this [IWIS Monitoring Site Details Report](#).
- ❖ [Sampling event tracking spreadsheet](#) with associated VAEL order numbers and dates of sample collection.
- ❖ Updated flow observation submission form now with a flow level option for no flow and column for comments (attached in the email).

Important Information & Next Steps

We are getting close to the end of the sampling season with the 6th sample pick-up coming next week and only two more pick-ups to go after that! As we finish these last few events, check to see if you have enough bottles, DI water, and acid, and **reach out if you need anything by August 2nd**.

High Flow Sampling

Many of you have collected samples during at least one high flow event, especially with the recent rainy weather. However, with the drought conditions, many streams were still only flowing at a moderate level, even with the influx of runoff. This can still meet our goals in sampling rain events because we are trying to capture the effects of increased flow on nutrient loading in the water bodies the streams drain into. Often this is accompanied by a noticeable turbidity increase from the sediment

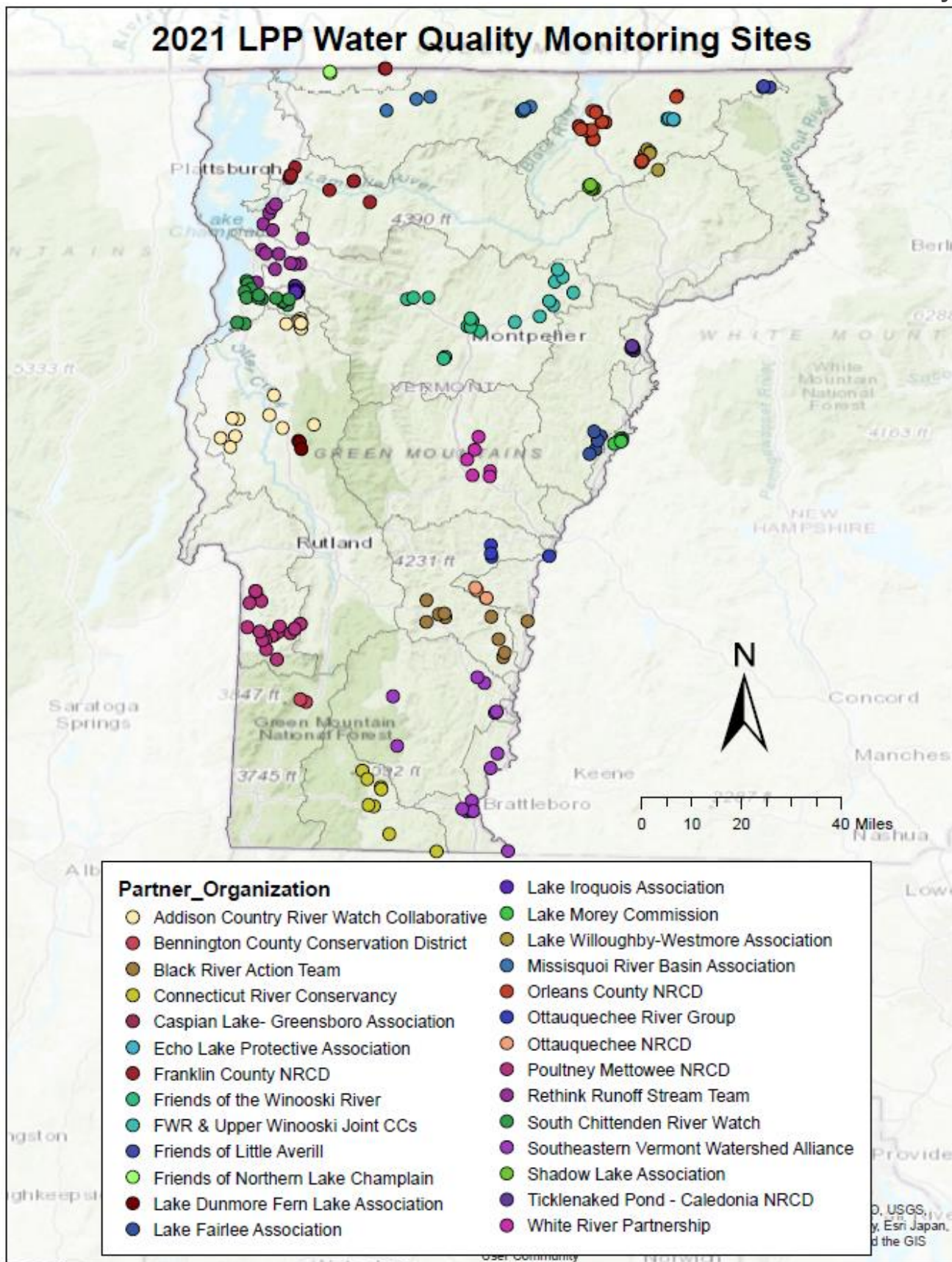
being transported by runoff. High flow events are when the biggest nutrient loads tend to occur, but we can still capture loading during more moderate freshet events. When determining if a storm is big enough to induce a high flow event, we generally look for 0.5-1 inch of rain. The smaller the stream and the watershed it drains, the less rain is needed to cause high flows. We often see “flashier” high flows in these small streams, but more moderate flows in the larger higher order rivers. While we would like to capture true high flows, it is better to have some data with the highest flows possible rather than none at all. Especially this late in the season, it is best to try to sample whenever a storm has potential to cause high flows – even if only some sites can be sampled. Remember that if possible, sampling should be conducted while waters are rising steadily versus when they start to fall. Of course, safety is always the top priority, so never sample if the flows pose a danger to you or volunteers.



Reminder that the **high flow sample should be collected in addition to the regular sample**. The high flow sample does not take the place of the regular sample. If a high flow event happens to fall on a regular sampling day, then you will need to take the regular sample once flow returns to base flow so we can keep to the sampling schedule. Due to the long hold times of the parameters, samples taken at any time in between sample pick-ups will be fine until the next pick-up.

2021 LPP Timeline:

| Date | Task |
|---------------------------------|--|
| May 1 st | <p>Sampling season begins! 8 regular sampling events + 2 high flow events (10 total events).</p> <p>Sample pick-ups every two weeks on Mondays and Wednesdays:</p> <p>Event 1: May 10th & 12th</p> <p>Event 2: May 24th & 26th</p> <p>Event 3: June 7th & 9th</p> <p>Event 4: June 21st & 23rd</p> <p>Event 5: July 6th & 7th (Tues/Thurs due to holiday)</p> <p>Event 6: July 19th & 21st</p> <p>Event 7: August 2nd & 4th</p> <p>Event 8: August 17th & 19th (Tues/Thurs due to holiday)</p> |
| August 13 th | Meaghan’s last day with LPP as the ECO AmeriCorps member |
| Week of August 16 th | <p>Last sample pick-up week. Pick-up will be on Tuesday and Thursday due to Bennington Battle Day holiday.</p> <p>Please leave all remaining supplies to be picked up with samples (i.e. extra sample bottles, DI water bottles, sample racks, extra acid, etc.)</p> |



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LaRosa Partnership Program website: <https://dec.vermont.gov/watershed/map/monitor/larosa>