

**Lake Champlain Basin Program
Technical Advisory Committee meeting
54 West Shore Rd, Grand Isle, VT
Wednesday, March 4, 2020, 9:30 AM – 3:00 PM**

Approved TAC meeting summary

Attendance: Fred Dunlap, Leigh Walrath, Bryan Dore, Bridget O'Brien, Mark Malchoff, Bernie Pientka, Eric Perkins, Steve Kramer, Ryan Davies, Jenn Callahan, Angela Shambaugh, Stéfanos Bitzakidis, Jamie Shanley, Neil Kamman

Phone: Ryan Cunningham, Kevin Behm, Bill Ardren, Breck Bowden, James Jutras

Guest: Jonathan Kim

Staff: Meg Modley, Lauren Jenness

9:30 AM Updates, announcements, and public comments

- Steve: runs high school chemistry program. Would love to have representative of Vermont labs join, all are welcome.
- Neil:
 - Clean water performance report delivered to general assembly and EPA. Contains first major check-in on TMDL, Lamoille and Missisquoi progress. Headline – since first started tracking, 16.4 Metric ton phosphorus reduction, 7% of what is required. Still not calculating P reductions for all projects implemented as still figuring out how to calculate.
 - Vermont Coordinator position: A selection has been made, start date in March. Have interacted with Eric on resume.
 - Getting ready to issue use plan for clean revolving fund. Several categories of subsidies, 'free loan money'. \$1.5M in CSOs and metering equipment. First come, first serve. Loan for lakes in crisis – Lake Carmi, non ms4 3-acre permit compliance, and decentralized village WWTPs.
 - Waterbury Dam – 542 project, risk assessment stood up. Through appropriating \$20M into account designated to VT dams. Army Corp issued workplan, identified Waterbury dam as one of 6 starts across the country, signed agreement will be in place by end of 2020. Infused \$20M of their own money into project.

Review and approve summary of previous TAC meeting

- Neil – clarify, section on Andrew's presentation, third bullet. Baseflow N increases in the landscape is from wastewater.
- Motion to approve: Mark. Leigh seconds. All in favor. Kevin and Bridget abstain.

LCBP updates, *LCBP staff*

- Check out the Love the Lake series at LCBP office each Thursday night.
- Adirondack reefing public meeting tomorrow night in Burlington. State of Lake Champlain fisheries meeting on Saturday. Mark rehash of annual report. 130 Gosse Court in Burlington.
- LCBP hiring E&O steward and BLS, closing Friday March 13th. Will send announcement out to this group. Working with NYDEC, fisheries, angler survey, asked our stewards to assist by doing trailer counts.

9:45 AM FY19 TMDL implementation project proposal/outline review: How does groundwater from the fractured bedrock and surficial aquifers affect nutrient levels in surface waters from the Lake Carmi Watershed, *Jon Kim (VTDEC)*

- Jon presented the general outline of his team's workplan. Jon can share the conceptual model paper to any who are interested in learning more about it. Integrating project with Bradley Graham at State- creating shallow monitoring well sites. The surface water divide is not the same as groundwater divide.
- Jamie – confused about sampling numbers, seem low for effort put in. Is 25 each your ceiling?
Jon – money for this proposal came together through \$100,000 maximum and the sampling costs are high.
- Jamie – for groundwater wells, one sample could go a long way, shallow wells could sample extra. Maybe limit amount of sampling for some. Jon – want to give 3D framework for this sampling effort and moving forward. Plan is to sample everything at first to get good background data. Evapotranspiration is high in July and Aug, which likely represents highest influx of groundwater to lake. Temporal concept is important, but trying to lay baseline for everything moving forward.
Neil – are you going to target baseflow period for the sampling. Jon – once weather breaks will scout all LaRosa sites and geometry of bedrock wells to sample keeping in mind where Graham will be able to put in wells.
- Neil asks for a subcommittee for this project. Volunteers: Angela Shambaugh, Jamie Shanley, Steve Kramer, Jenn Callahan,
- Jon – targets workplan in May, saw EPA guidance that they would like 4-6 weeks to review. Realistically can't get in field until June/July. Bryan – will do everything we can.

10:30 AM Executive session: review FY20 technical task proposals

- Motion to enter executive session: Mark. Leigh seconds. All in favor, none opposed.
- The TAC reviewed FY20 technical proposals and formed a recommendation for the Lake Champlain Steering Committee to consider.
- Motion to accept the list as discussed for Lake Champlain Steering Committee consideration: Angela. Jenn seconded. All in favor, none opposed.

3:00 PM Adjourn