

# GLYPHOSATE GROUND & SURFACE WATER SAMPLING STUDY

## 2017 TO 2020

- 516 samples from 123 sites in all 14 VT counties have completed results
- Almost 60% of samples (309/516) taken for glyphosate and also sampled at the same time for CH/ddegs detected traces of conventional CH
- Sites include public & private drinking water sources (drilled & dug wells, springs), livestock water, surface waters from ag ditches, streams, culverts, tile drains, farm ponds
- Of these 516 samples, 0 detected glyphosate (we've never had a detection of glyphosate in a Vermont water sample)
- Glyphosate MCL = 700 ppb (compare to alachlor and atrazine MCLs of 2-3 ppb, glyphosate is “gentler” chemistry)
- Our DL goes down to 10 ppb (dropped by 10-fold since 2011 to increase likelihood of detection)
- We've expanded our glyphosate surveillance by more than 20fold in <3 y

<u>Year</u>	<u># Samples</u>	<u>Results</u>
2017	16	ND
2018	142	ND
2019	358	ND
	15	<i>pend</i>
2020	8	<i>pend</i>
<b>TOTAL</b>	<b>516</b>	<b>ND</b>

- **A recent USGS study started in 2015 and does not include sample sites in Vermont.**
- **Since 2006, VAAFMM has undertaken our own statewide surveillance program for glyphosate (2006 to 2016 = 59 samples, all ND)**