

# **GLYPHOSATE GROUND & SURFACE WATER SAMPLING STUDY**

**2017 TO 2020**

## **PMP OVERVIEW**

- **PMP water sampling is biased toward heavy ag use areas (that is, we sample in places more likely to have ag contamination); we usually take 3 samples at each site (CH, nitrate, glyphosate)**
- **Sites include public & private drinking water sources (drilled & dug wells, springs), livestock water, surface waters from ag ditches, streams, culverts, tile drains, farm ponds**
- **Since 2006, VAAFMM has undertaken our own statewide surveillance program for glyphosate (2006 to 2016 = 59 samples)**
- **We've expanded our glyphosate surveillance by more than 20fold in <3 y (2017 to present)**

## **GLYPHOSATE SAMPLING HISTORY**

- **We have completed results for 586 water samples from more than 150 sites in all 14 VT counties**
- **Almost 60% of samples taken for glyphosate and also sampled at the same time for CH/degs detected traces of conventional CH/degs**

- **Our DL goes down to 10 ppb (dropped by 10-fold since 2011 to increase likelihood of detection)**
- **Glyphosate MCL = 700 ppb (compare to alachlor and atrazine MCLs of 2-3 ppb, glyphosate is considered to be a “gentler” chemistry)**

## RESULTS

- **Of these 586 samples, there were 0 detections of glyphosate (we’ve never had a detection of glyphosate in a Vermont water sample of any kind) at a DL of 10 ppb**

<b>Year</b>	<b># Samples</b>	<b>Results</b>
06-16	59	ND
2017	16	ND
2018	142	ND
2019	369	ND
	5	<i>pend</i>
2020	10	<i>pend</i>
<b>TOTAL</b>	<b>586</b>	<b>ND</b>