

Vermont Legislative Joint Fiscal Office

One Baldwin Street • Montpelier, VT 05633-5701 • (802) 828-2295 • Fax: (802) 828-2483

FISCAL NOTE

Revision Date: February 1, 2019

Prepared by: Stephanie Barrett

S.40 An act relating to testing and remediation of lead in the drinking water of schools and child care facilities – Proposal of Amendment Senate Education Committee

<https://legislature.vermont.gov/Documents/2020/Docs/CALENDAR/sc190205.pdf#page=1>

Initial Testing Cost Estimate \$1,475,000

\$850,000 - Test cost based on an average estimated number of potable water taps per facility, two samples taken at each tap and a of \$20 per test. It is assumed the samples will be drawn by school or child care facility following the technical assistance provided by the department of health. No cost is included for other entities to be contracted to draw samples.

\$150,000 – Vermont Health Dept data management and startup cost in FY19

\$125,000 – Vermont Health Dept program specialist position

\$125,000 – ANR program specialist position

Retesting Cost Estimate @ 3ppb level \$188,000

The range for retesting is dependent on the trigger for retesting and remediation. Retesting initial samples testing over 15 ppb form the low end, retesting for samples that tested over 1 ppm form the high end of this cost range.

Tap Remediation Cost Estimate @ 3ppb level \$707,000

Without the benefit of more refined full plumbing retrofit or cost for alternative remediation approaches this highly subject to change and will be dependent on the trigger for retesting and remediation, samples with initial and retested sample results over 15 ppb at the low end and 1 ppm at the high end.

No estimate is made for remediation that may require retrofit beyond tap replacement.

Note: Since 2016, Center Based Child Care and Preschool Programs and Family Child Care Home Programs are all required to have their water tested as part of licensing. All programs are required to do a first draw test for lead that meets current Vermont Standards. If they do not meet the Vermont Standard they must retest every year and must use bottled water. They are required to do this first draw test for lead at faucets or drinking fountains that would supply water to the children in that building. Also if the program is not required to have a drinking water permit related to the Vermont Water Supply Rule, and is not on a city/town system then they must perform a bacterial and chemical screening that meets the Vermont standard to become licensed. They also must redo the chemical tests once every 6 years.

S. 40 Version 3 - Fiscal Note Worksheet

	<u>Estimate</u>
Program Administration	
ANR - Remediation Position	\$125,000 ongoing or time limited?
VDH - Proj Mgr & start up	\$155,000 ongoing or time limited?
Req. VDH - Data Mgt System	\$120,000
	\$400,000

Initial Test Cost Estimate	
Schools	\$850,000
Licensed Childcare Providers	\$225,280
	\$1,075,280

Initial Testing Project Cost **\$1,475,280**

> 3ppm - failure rate	
Retesting	\$188,712 100% state funded
Tap Remediation @\$300/tap	\$707,669 50% state share of cost

Assumes all taps replaced - cost range would be lower with some taps taken offline instead of replaced

Restesting Cost Estimate		<u>Low</u>	<u>High</u>
>1 ppb - failure rate	\$290,863	27.1%	68.0%
Schools	\$229,925	\$229,925	\$578,000
Licensed Childcare Providers	\$60,938	\$60,938	\$153,190
	\$188,712		
>5 ppb - failure rate	\$86,560	8.1%	25.0%
Schools	\$68,425	\$68,425	\$212,500
Licensed Childcare Providers	\$18,135	\$18,135	\$56,320
>15 ppb - failure rate		2.5%	8.3%
Schools		\$20,825	\$70,550
Licensed Childcare Providers		\$5,519	\$18,698

Tap Replacement			<u>Low</u>	<u>High</u>
>1 ppb - Tap count	\$2,181,474		7,272	18,280
Schools	\$1,724,438	79.0%	\$1,724,438	\$4,335,000
Licensed Childcare Providers	\$457,037	21.0%	\$457,037	\$1,148,928
>5 ppb - Tap Count	\$649,200		2,164	6,721
Schools	\$513,188	79.0%	\$513,188	\$1,593,750
Licensed Childcare Providers	\$136,013	21.0%	\$136,013	\$422,400
>15 ppb - Tap Count			659	2,231
Schools		79.0%	\$156,188	\$529,125
Licensed Childcare Providers		21.0%	\$41,395	\$140,237

Possible Retrofit Projects	TBD	Est ?	Esimated Cost Per Project ????		
	????	# proj	Low? \$50k/\$5k	Mid? \$125k/\$10k	High? \$200k/\$15k
>1 ppb - # projects					
Schools	2.35%	5 to 10	\$250,000	\$937,500	\$2,000,000
Licensed Childcare Providers	2.61%	10 to 25	\$50,000	\$125,000	\$375,000
>5 ppb - # projects					
Schools	1.18%	3 to 5	\$150,000	\$500,000	\$1,000,000
Licensed Childcare Providers	1.04%	5 to 10	\$25,000	\$75,000	\$150,000
>15 ppb # projects					
Schools	0.47%	1 to 2	\$50,000	\$187,500	\$400,000
Licensed Childcare Providers	0.52%	1 to 5	\$5,000	\$30,000	\$75,000

Not knowing exactly what the remediation would be, I cannot give an accurate estimate for lineal or square foot cost. With all of the unknowns listed below, the cost could be anywhere from \$10.00 to \$25.00 per lineal foot. Any of the contractors on retainer would need to have answers to the unknowns to get a better cost estimate.

Unknowns:

1. What is the total run and sizes of the pipe to be replaced?
2. Is the pipe insulated?
3. Does the pipe insulation contain asbestos?
4. Is all pipe accessible? If not, what materials will have to be removed to access the pipe ? (plaster, tile, etc.)?
5. If the pipe is exposed, at what height are the runs, can they be reached by ladders or is staging required?
6. What are the working hours, normal 7:00 a.m. to 3:30 p.m., Monday through Friday?
7. Will any work require updating due to code changes?
8. Are the sizes correct, or will a partial redesign be needed?
9. Permit fees?
10. Will a Clerk-of-the-Works be needed?

S.40 Testing for Lead in the Water of Schools and Child Care Facilities

Initial Test Cost Est	Building Count	Est, Avg # Taps to sample	Total Taps	Est. Total Samples to be tested
Schools	425	50	21,250	42,500
Licensed CC Centers	394	10	3,940	7,880
Licensed CC Home	564	3	1,692	3,384
Initial Testing Cost	1383		26,882	53,764

Initial test @ \$20/test 2 tests/tap
\$850,000
\$157,600
\$67,680
\$1,075,280

actual sample taking is estimated to be in-kind cost to schools i.e. no sample taking cost in \$20

14k samples

Over limit rate Data Available	Addison Central	VDH Pilot	Oth Schools	Comm/NTNC Sys (ANR)	Schls '15-'18 1.8k (ANR)
tested >1ppb	65%	24.9%	n/a	71.0%	29.2%
tested >5ppb	24%	9.7%	n/a	26.0%	6.4%
tested ≥15ppb	7%	3.0%	n/a	9.6%	1.9%

Failure Rate Range	
Low	High
27.1%	68.0%
8.1%	25.0%
2.5%	8.3%