

**From:** [Miller, Corinne \(DCH\)](#)  
**To:** [LyonCallo, Sarah \(DCH\)](#); [Dykema, Linda D. \(DCH\)](#)  
**Subject:** RE: Flint Testing and EBLLs.xlsx  
**Date:** Wednesday, July 29, 2015 8:54:24 AM

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Thanks Sarah.

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**From:** LyonCallo, Sarah (DCH)  
**Sent:** Tuesday, July 28, 2015 5:01 PM  
**To:** Miller, Corinne (DCH); Dykema, Linda D. (DCH)  
**Subject:** FW: Flint Testing and EBLLs.xlsx  
Attached is Cristin's work with the monthly EBLL proportion data for Flint.

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**From:** Larder, Cristin (DCH)  
**Sent:** Tuesday, July 28, 2015 4:54 PM  
**To:** Scott, Robert L. (DCH); Peeler, Nancy (DCH)  
**Cc:** LyonCallo, Sarah (DCH); McKane, Patricia (DCH)  
**Subject:** RE: Flint Testing and EBLLs.xlsx

Hello Nancy and Bob,

It turns out that adding in the additional two years of data did not change the results of the analysis: there does appear to be a higher proportion of EBLL last summer than usual. I wrote up my methods and results in the attached brief, just in case anyone asks for specifics.

Have a good night!

Cristin

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**From:** Scott, Robert L. (DCH)  
**Sent:** Tuesday, July 28, 2015 10:15 AM  
**To:** Larder, Cristin (DCH); Peeler, Nancy (DCH); McKane, Patricia (DCH)  
**Subject:** RE: Flint Testing and EBLLs.xlsx  
Cristin,

I can safely say I don't understand it without some explanation.

However, late yesterday Nancy and I decided to take a look two years farther back to see how they fit with the recent years. Please see attached, which I just finished this morning.

Sorry I didn't have this for you yesterday before you did the analysis. Would this new information change the analysis?

Thanks,

Bob

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**From:** Larder, Cristin (DCH)  
**Sent:** Tuesday, July 28, 2015 10:07 AM  
**To:** Peeler, Nancy (DCH); McKane, Patricia (DCH)  
**Cc:** Scott, Robert L. (DCH)  
**Subject:** RE: Flint Testing and EBLLs.xlsx

Nancy and Bob,

Is the control chart clear enough, do you think? I could whip up a fact sheet with a description of what it shows, if you think it would help make it more digestible for our audience.

Cristin

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**From:** Larder, Cristin (DCH)  
**Sent:** Tuesday, July 28, 2015 9:25 AM  
**To:** Peeler, Nancy (DCH); McKane, Patricia (DCH)  
**Cc:** Scott, Robert L. (DCH)  
**Subject:** RE: Flint Testing and EBLLs.xlsx

Hi Nancy,

I made a p-chart, which Shewhart's version of a control chart for proportions, for the data you sent. Basically, I used the monthly data from 2013-14 to create upper and lower control limits, then plotted the 2014-15 data in a run chart. It shows that the three months in question are the only ones that lie outside the control limit: in fact, they are the only points that lie well above the mean at all. This doesn't say anything about causality, but it does warrant further investigation.

There are several next steps we can employ if the folks upstairs ask us to look deeper into the data. Also, I'm not sure if you talked at all with the Environmental Health folks, but their toxicologists could probably help give us some context to the issue.

Cristin

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**From:** Peeler, Nancy (DCH)

**Sent:** Monday, July 27, 2015 3:37 PM

**To:** McKane, Patricia (DCH)

**Cc:** Larder, Cristin (DCH); Scott, Robert L. (DCH)

**Subject:** Re: Flint Testing and EBLLs.xlsx

Thanks, Patti. I'm looking forward to hearing about your COLLN meeting, I'm sure you will be bringing great information back.

Sent from my iPhone

On Jul 27, 2015, at 3:11 PM, "McKane, Patricia (DCH)"

<[McKaneP@michigan.gov](mailto:McKaneP@michigan.gov)> wrote:

Thanks Nancy.

I was in a session on Shewart charts for QI. I think this might be a good approach for the needs assessment We can talk more.

Hopefully the slides will be available, because I can't type that much with my thumbs

Sent from my iPhone

On Jul 27, 2015, at 1:14 PM, Peeler, Nancy (DCH)

<[PeelerN@michigan.gov](mailto:PeelerN@michigan.gov)> wrote:

Hi Cristin and Patti –

This is the CLPPP data for Flint that I had mentioned to you last week. Cristin, can you quickly run any tests to see if the difference in the first graph is statistically significant? Bob is at his desk today, best to connect with him if you have questions about the data. We are hoping to send this up today, so we appreciate anything you can do to get us a response this afternoon, if at all possible. Many thanks!

Nancy

