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**From:** Crooks, Jennifer <crooks.jennifer@epa.gov>  
**Sent:** Wednesday, May 27, 2015 1:58 PM  
**To:** Cook, Pat (DEQ);Prysby, Mike (DEQ);Busch, Stephen (DEQ)  
**Cc:** Benzie, Richard (DEQ);Philip, Kris (DEQ);Deltoral, Miguel;Poy, Thomas  
**Subject:** Flint sample results/2 houses for (dw) metals (Cu, Pb, Zn)  
**Attachments:** 1505003\_work order.pdf; 1505003,1505004 FINAL EXCEL 26 May 15 0943.xls;  
1505003,1505004 FINAL May 26 15 0943.PDF; 1505004\_work order.pdf

**Importance:** High

Pat, Steve, Mike: When Miguel was in Flint observing Ms Walters' service line being replaced, he also sampled 2 homes connected to the water main Ms. Walters' home was connected to. The Excel spreadsheet attached provides the sample results, 15 samples per house. The 5<sup>th</sup> column, Sample No., is from 1-15 which is Home 1, then the numbers start again at 1 and go through 15, which is Home 2. These are the 2 homes connected to the water main that Ms. Walters' 136 ft service line (iron pipe) was connected to. Her home also had the lead line connecting the shut-off to the main, as does Home 1. I know I talked with Pat about the sequential sampling in late April at Ms. Walters' home, prior to her service line being replaced, but I don't think I sent you those sample results---they were in the thousands of ppb, probably particulate lead. I will get with Miguel and communicate with you his ideas concerning the source of this lead in Ms. Walters' service line. See Miguel's email below regarding these 2 homes' sample results.

If you have questions, please let me or Miguel know.

Jennifer  
312-886-0244  
Miguel  
312-886-5253

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**From:** Deltoral, Miguel  
**Sent:** Tuesday, May 26, 2015 11:42 AM  
**To:** Poy, Thomas  
**Cc:** Porter, Andrea; Marc Edwards; Schock, Michael  
**Subject:** Fw: 1505003 & 1505004; ICP-MS (dw) metals (Cu, Pb, Zn); Flint MI

Here are the results from the two homes sampled in Flint. Nothing horrific which is good. One home does not appear to have a LSL at all (Home 2). The other home (Home 1) appears to have a short LSL, consistent with the practice in Flint (curb to main only). Highest result from the LSL home (Home 1) was 22 ug/L using the standard analytical protocol. They will now get shipped to Marc Edwards at Virginia Tech to see if our protocol is missing particulate lead, which made up the majority of the lead in Ms. Walters sample results.

I forgot to mention that all along the block where Ms. Walters lives, there are patches in the street from non-water-related utility excavation right up to the curb, so fairly recent physical disturbances to Ms. Walters service line are likely. I think it was gas work, but I have to check.

Miguel A. Del Toral  
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**From:** Griffin, Sylvia  
**Sent:** Tuesday, May 26, 2015 10:03 AM  
**To:** Deltoral, Miguel  
**Cc:** Wroble, Amanda  
**Subject:** FW: 1505003 & 1505004; ICP-MS (dw) metals (Cu, Pb, Zn); Flint MI

Please see the attached final results reports. Should you have any questions regarding this transmittal, please email or call me.

Thank you.

-Sylvia  
3-9073

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**From:** Wroble, Amanda  
**Sent:** Tuesday, May 26, 2015 9:58 AM  
**To:** Griffin, Sylvia  
**Subject:** 1505003 & 1505004; ICP-MS (dw) metals (Cu, Pb, Zn); Flint MI

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