From: Bair, Rita
Location: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER
Importance: Normal
Subject: Discuss East Chicago lead results impacted by excavation
Start Date/Time: Mon 3/6/2017 4:30:00 PM
End Date/Time: Mon 3/6/2017 5:00:00 PM

Call-in number: 866-299-3188

Code: Ex. 6 - Personal Privacy

From: Shoven, Heather
Location: 1515B -- Janet to call Heather at 312-885-0153
Importance: Normal
Subject: Lead Action Level Exceedance Process with States -- Report out from State Directors and R5 Strategy
Start Date/Time: Mon 5/2/2016 6:00:00 PM
End Date/Time: Mon 5/2/2016 7:00:00 PM

Please review two reference emails below on topic - Thanks!

From Maria on 4/21
From: Lopez-Carbo, Maria
Sent: Thursday, April 21, 2016 8:53 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Hansen, Janette <hansen.janette@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Subject: RE: All R5 systems >10K and some info on PWSs <10K: Need Updates to all PWSs with ALE by Friday

Good Morning Rita:
Some regions submitted this information while others didn't.

I'm working with Kevin to design one that would fit best in collecting this information.
We will also explore adding to share point.

Thanks
Maria

From: Bair, Rita
Sent: Thursday, April 21, 2016 9:36 AM
To: Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Hansen, Janette <hansen.janette@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Subject: RE: All R5 systems >10K and some info on PWSs <10K: Need Updates to all PWSs with ALE by Friday

Will your table be in a format that includes the fields you want Regions to fill out beyond just the data? We discussed at the BC's meeting the type of things you want to know about like was PE issued on time.

From: Lopez-Carbo, Maria
Sent: Wednesday, April 20, 2016 5:11 PM
To: Shoven, Heather <shoven.heather@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Hansen, Janette <hansen.janette@epa.gov>
Subject: Re: All R5 systems >10K and some info on PWSs <10K: Need Updates to all PWSs with ALE by Friday

Yes. We are. We did a pull on Monday but I want to also send

Multiple ale table from 2006 stay tuned

Sent from my iPhone

On Apr 20, 2016, at 5:07 PM, Shoven, Heather <shoven.heather@epa.gov> wrote:

Hi Maria!

We are starting a new quarterly process with our states requesting information on PWSs with lead ALEs. Is OGWDW planning to provide an updated spreadsheet to the Regions to follow-up on the February data collection effort? I appreciate your time.

Best wishes,
Heather

Heather A. Shoven | Enforcement Team Leader | U.S. Environmental Protection Agency, Region 5
Ground Water and Drinking Water Branch | 77 W. Jackson Blvd (WG-15J) | Chicago, IL 60604 | 312-886-0153

From: Lopez-Carbo, Maria
Sent: Thursday, February 25, 2016 1:42 PM
To: Shoven, Heather <shoven.heather@epa.gov>
Subject: RE: All R5 systems >10K and some info on PWSs <10K: Need Updates to all PWSs with ALE by Friday

This is beautiful! Thank you so much! You are saving us.

From: Shoven, Heather
Sent: Thursday, February 25, 2016 2:41 PM
To: Roland, Kevin <Roland.Kevin@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Bergman, Ronald <Bergman.Ronald@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Kuefler, Janet <kuefler.janet@epa.gov>
Subject: All R5 systems >10K and some info on PWSs <10K: Need Updates to all PWSs with ALE by Friday
Importance: High

Hi Kevin and Maria,

Attached is the full Region 5 list of PWSs with Pb action level exceedances reported to SDWIS/Fed that was generated by HQ. We have provided a status update on the 12 R5 PWSs with lead ALEs in the first tab of the attached spreadsheet. We also have provided updates on almost half of the 313 systems serving less than 10K people and are still working with the states to get information on the rest of them.

Please let me know if you need anything else or have any questions.

Best wishes,
Heather

Heather A. Shoven | Enforcement Team Leader | U.S. Environmental Protection Agency, Region 5
Ground Water and Drinking Water Branch | 77 W. Jackson Blvd (WG-15J) | Chicago, IL 60604 | 312-886-0153

Begin forwarded message:

From: "Lopez-Carbo, Maria" <Lopez-Carbo.Maria@epa.gov>
Date: February 24, 2016 at 9:44:23 PM CST
To: "Downing, Jane" <Downing.Jane@epa.gov>, "Anderson, Arlene" <Anderson.Arlene@epa.gov>, "Pabst, Douglas" <Pabst.Douglas@epa.gov>, "rogers, rick" <rogers.rick@epa.gov>, "Crumlish, Karen" <Crumlish.Karen@epa.gov>, "Allenbach, Becky" <Allenbach.Becky@epa.gov>, "Poy, Thomas" <poy.thomas@epa.gov>, "Brown, Jamesr" <brown.jamesr@epa.gov>, "Ngo, Kim" <Ngo.Kim@epa.gov>, "Bahrman, Sarah" <Bahrman.Sarah@epa.gov>, "Kahn, Lisa" <Kahn.Lisa@epa.gov>, "Mindrup, Mary" <Mindrup.Mary@epa.gov>, "Li, Corine" <Li.Corine@epa.gov>, "Jennings, Marie" <Jennings.Marie@epa.gov>
Subject: Action: Need Updates to all PWSS with ALE by Friday

Good Morning:

Last Friday there was a meeting with the Administrator and Peter summarized all the information we received regarding the systems above 100,000 and between 10K-100K with ALE.
I was just informed that there will be a second meeting on Friday and she would like to see progress on all the systems with ALE.

We received updates on all the PWSs serving above 100,000 (THANK YOU!). From the list of 68 systems serving 10K-100K, we have about half. The missing systems are listed below.
In addition, although we explained that its quite complicated to get updates on the less than 10K, it was expressed in the meeting that we needed to get that information as well.
If you are triaging the smalls, please let me know the strategy you are using so I can share.

Could we get updates on these systems by Friday morning? If you could have your staff send updates to Kevin Roland, he can compile the information.
In addition, I have attached the excel sheet.

Please let me know if you have any questions. We will be putting the information in factoids format - such as X number of PWSs with ALE were a data entry error, Y installed corrosion, Z sampled belore ALE, etc.

Thanks
Maria

From Rita on 4/6/2016

From: Bair, Rita
Sent: Wednesday, April 06, 2016 4:05 PM
To: Shoven, Heather <shoven.heather@epa.gov>
Cc: Kuefler, Janet <kuefler.janet@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Hansen, Janette <hansen.janette@epa.gov>
Subject: RE: Proposed Process for Quarterly Updates from States on PWSs with Pb ALEs

I don't know if you ever heard back from Tom about this, but I agree with your recommendation to combine the quarterly ETT and Pb ALE exceedance system updates from the States. Sorry for the late

response.

From: Shoven, Heather
Sent: Wednesday, March 16, 2016 4:20 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Kuefler, Janet <kuefler.janet@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Proposed Process for Quarterly Updates from States on PWSs with Pb ALEs

Hi Tom and Rita,

I spoke with MDEQ today and one of the items we discussed was in follow-up to the LCR meeting we had with them a few weeks ago as part of the HQ LCR implementation information request to states. MDEQ indicated their preference that we fold in the quarterly request for Pb ALE system updates with the quarterly ETT process. Janet had mentioned this coupling before and I was against it since they are two entirely different efforts. However, given that both processes seek system-level updates on a quarterly basis and information requests need to be farmed out to the district offices, it makes sense to combine these efforts for the states beginning with the April freeze (quarterly letters due out by third week of May).

I am checking in with you to see if you would like us to proceed with integrating the Pb ALE system-level updates with the quarterly ETT letter.

I would then like to follow-up with Kevin Roland at HQ to find out if OGWDW plans to send quarterly spreadsheets to the Regions for the Pb ALE update process. I have format changes that I'd like him to consider in the next data pull; specifically I would like him to include more inventory information for each system on the list (# service connections, PWS Type, County, school/daycare indicator) as well as a tab that has all of the Pb compliance data in SDWIS (90th percentile calculations when available).

I look forward to hearing back from you how you would like us to proceed. Thank you for your time.

Best wishes,
Heather

Heather A. Shoven | Enforcement Team Leader | U.S. Environmental Protection Agency, Region 5
Ground Water and Drinking Water Branch | 77 W. Jackson Blvd (WG-15J) | Chicago, IL 60604 | 312-886-0153

From: Poy, Thomas
Sent: Thursday, February 25, 2016 3:44 PM
To: Dave McMillan <dave.mcmillan@illinois.gov>; Jill Jonas <Jill.Jonas@wisconsin.gov>; Mary Ann Dolehanty (dolehantym@michigan.gov) <dolehantym@michigan.gov>; Mary Hollingsworth <MHolling@idem.IN.gov>; mike.baker@epa.state.oh.us; Randy Ellingboe <Randy.Ellingboe@health.state.mn.us>
Cc: R5 WD GWDW <R5_WD_GWDW@epa.gov>
Subject: LCR Implementation Info Needed

Hi All: As we all know, lead is a hot issue for everyone. EPA has identified a number of areas within the implementation of the Lead and Copper Rule that needs to be collected from all States as part of oversight of LCR. These areas include: Source/Treatment Change, Sampling

Plan, Invalidation of Samples, Monitoring Waivers for Small Systems, Public Outreach & Education. Attached are the specific questions within these areas that R5 needs you to answer with respect to your LCR implementation by March 8th. Your State Program Manager will be sending you information that we have about your LCR implementation that may help in answering the questions (some of the information may be dated).

At the end of the attached document, are questions that EPA needs responses to for specific systems with action level exceedances (ALEs). Some of you have been contacted by R5 staff about systems with ALEs already and I appreciate you help with the status of these systems. Like with arsenic systems a few years ago, status updates on systems with ALEs will be tracked across the country. We will develop a table to make status updates easier, similar to the ETT tables that you provide enforcement updates on. That way, only changes in status need to be noted.

I need to point out that one of the pieces of information requested for these ALE systems are the individual results for the homes that are above the action level of 15 ppb. Logistics of this need to be worked out.

Please give me a call if you have questions.

Tom

Tom Poy
Chief, Ground Water and Drinking Water Branch
USEPA - Region 5
(312) 886-5991

From: Spaulding, William
Location: R5WD-ConfCallLine-D/Conference-Call-Line/R5-WATER; R5Metcalfe-ConfRm-R1515B/R5-Metcalfe---15th-Floor
Importance: Normal
Subject: R5-Indiana Call to discuss the LCR Oversight Framework
Start Date/Time: Thur 3/3/2016 6:00:00 PM
End Date/Time: Thur 3/3/2016 7:00:00 PM

Materials were sent last Thursday. The call will be at 1pm Eastern and noon Central time.

Conference Call Number: (877) 226-9607; Access: 5295690482#

From: Kuefler, Janet
Location: R5Metcalfe-ConfRm-R1515B/R5-Metcalfe---15th-Floor. The call-in number is 1-877-226-9607, conference code: 189-635-0612#.
Importance: Normal
Subject: confirmed; Agenda added; Lead in drinking water
Start Date/Time: Wed 2/10/2016 8:30:00 PM
End Date/Time: Wed 2/10/2016 10:00:00 PM
Responses to some State questions re lead 2 5 16.docx

2/10 update: FYI, this calendar invite also includes an attachment titled, "R5/HQ Protection Branch responses to R5 States questions" that was sent via e-mail last Friday, Feb. 5. I am including it here since attendees were added to this meeting invitation in the last few days. Thank you.

Agenda: R5 States/EPA Region 5 Lead in Drinking water call

Ex. 6 - Personal Privacy

A. Introductory Remarks (Tinka Hyde)
B. Lead sampling protocol, Validating Tier 1 sampling sites, Notifications (consumer notification/public education), Action Level Exceedances (ALEs) actions being taken. (Tinka/Tom)
C. New R5 process to review and follow-up with States on ALEs (Tom Poy)
D. States' round robin discussion of:
    1. flexibilities the state rules/LCR include to provide additional authority at the Directors' discretion;
    2. state practices of PWS follow up to Action Level Exceedances;
    3. discussions with your systems; and
    4. issues you are facing and what assistance, if any, do you need from R5 or HQ.

R5/HQ Protection Branch responses to R5 States questions **Feb 5, 2016**

Q: Why was the lead AL set at 15 ppb?
A: The lead action level is based on the practical feasibility of reducing lead through controlling corrosion. The tap sampling results are compared to an action level of 0.015 mg/L (15 ppb) to determine what treatment technique actions must be taken. These actions may include water quality parameter adjustments, corrosion control treatment and lead service line replacement.

Q: Why did EPA set a TT and not an MCL?
A: Because the primary contribution of lead and copper to drinking water is leaching from service lines and in-home plumbing materials, EPA adopted a treatment technique for the LCR rather than a maximum contaminant level (MCL). EPA set the action level for lead at 15 ppb – exceeding this action level does not constitute a violation; it triggers a set of treatment technique actions that a public water system must take. These actions may include water quality parameter adjustments, corrosion control treatment and lead service line replacement.

Q: Is lead treated as an acute contaminant?
A: Lead is not considered an acute contaminant under the Safe Drinking Water Act. However, in occupational settings, it may be necessary to consider the potential effects of lead and implement any necessary safety precautions to minimize that risk.

Q: Is there any newer health info for lead?
A: Significant research has been conducted on the health impacts of lead exposure, which has contributed to a better understanding of lead's impact on a number of endpoints. EPA's website, http://www.epa.gov/lead/learn-about-lead, provides updated information on lead exposures, including the sources and health effects of lead. CDC's website, http://www.cdc.gov/nceh/lead/acclpp/blood_lead_levels.htm, provides background information on the updated blood lead reference level for children. The updated reference level is 5 micrograms per deciliter. It is based on the U.S. population of children between the age of 1 and 5 whose blood lead levels tested in the highest 2.5%.

Specific questions related to a State's Discussion with a PWS

***Background**: A large PWS currently provides free lead testing for homeowners and guidance when lead results are high. They are using a first-draw, 6-8 hour residency, **2L** sample collection. This method was chosen to provide homeowners with more information about lead from service lines. These samples are **not** currently being counted as part of their LCR compliance results (drawn from a different pool sites, use a different method etc...)*

The State in 2012 when the "walk-in" program was approved thought it best to promote free testing and guidance for homeowners and the opportunity for us to better understand the distribution system more important than the risk of terminating the program for fear of exceeding an action limit or being triggered into a primarily partial lead service line replacement program—which has its own risks. The PWS has offered in the past to help homeowners to remove homeowner controlled lead service line but less than 10% of those offered would take up the offer.

The 2-L protocol was used to differentiate monitoring samples from compliance samples. The idea is that sample volume should be related to length of the lead service line. The PWS thought that the 2L volume would provide better results for their customers. However, the PWS is concerned that this practice may be misconstrued as misleading due to recent publications such as:

http://www.theguardian.com/environment/2016/jan/22/water-lead-content-tests-us-authorities-distorting-flint-crisis?CMP=share_btn_link

Q: Should these samples be counted in the 90th percentile compliance calculation even though they are taken with a different method/not part of the LCR sample pool and measure different things.

Region 5/HQ Protection Branch: Samples included in the 90th percentile calculation must be taken/analyzed according to the existing LCR rule.

Q: In the future, with the issue in Flint/other places and the LCR LTR under way should we revisit/reevaluate this protocol? For example taking two samples, or a 3L sample to better capture the effects of LSL and provide the best advice to customers regarding their risk. The PWS wants to make sure they are doing the right thing to comply and provide the best possible advice to residents.

a. **Room for a potential study comparing sample volumes and measuring worst case scenarios.**
b. **Improvement of transparency to residents about the differences in measurements/purpose between the two procedures.**

R5/ HQ Protection Branch: PWSs are encouraged to conduct additional sampling beyond the minimum required under the Lead and Copper Rule. However, any samples used to determine compliance with the LCR must follow the sampling methods specified in the rule. Therefore, while alternate, voluntary sampling practices are encouraged, and may further inform customers about the presence of lead in their drinking water, they may not be used for compliance purposes.

EPA has received extensive recommendations from its National Drinking Water Advisory Council and other concerned citizen groups, some of which discussed revising existing sampling protocols. EPA will carefully evaluate these recommendations, national experience in implementing the rule, and the experience in Flint to develop a proposed revision to the rule. As the agency considers the revisions, it will continue to engage with state and water systems on potential nearer-term steps that could strengthen implementation of the existing rule.

Q: The state is meeting with the system on February 8th to discuss issues related to Flint and prevention and how we can go above and beyond the current LCR. The state will also be discussing collaboration on a study to profile lead release from service lines during

flushing.

Region 5/HQ Protection Branch: Thank you for your continued coordination to improve public health protection, including work beyond the federal requirements.

Q: Does the EPA have a tool that systems can provide residents with (a link or widget that can be added to a webpage) that will let them estimate optimal flushing time to reduce lead exposure? For example say a home has a first draw sample that is high in lead and they want to know how long to flush to cut that exposure in half.

Region 5/HQ Protection Branch: The optimal flushing time necessary to minimize potential lead exposure risks is challenging to accurately estimate because it depends on several, site-specific conditions (e.g., plumbing configuration; lead service line length as well as drinking water temperature, pH, or conductivity). Given these technical challenges, EPA has not developed such an estimating tool.

To: Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Adler, Kevn[adler.kevin@epa.gov]; Short, Thomas[short.thomas@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Drexler, Timothy
Sent: Tue 11/8/2016 7:55:32 PM
Subject: RE: USS Lead Tap Water Results

Sounds good, Chris. I'll have my START contractor get a hold of the lab while Tom is here tomorrow so that they can all talk.

-Tim

From: Korleski, Christopher
Sent: Tuesday, November 08, 2016 12:53 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Adler, Kevn <adler.kevin@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: USS Lead Tap Water Results

Hi Tim:

Per our call, the purpose of this e-mail is to ask **Tom Mendez** to work directly with you and whoever you may designate to schedule a call or meeting a soon as possible to discuss the status of the water sampling results from East Chicago. As I mentioned, my technical folks have raised two issues they'd like to discuss: 1) sample turnaround time; and 2) the number of "ND"s in the latest samples that came in.

As I said, some of my folks (Tom and Dean?) are going to be at the site tomorrow, so maybe the easiest thing is to just do it there. And, I agree with you that having the contractors and lab reps there would be very helpful.

I really appreciate your and your team's continued assistance on this.

Thanks.

Chris

From: Drexler, Timothy
Sent: Tuesday, November 08, 2016 11:59 AM
To: Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Adler, Kevn <adler.kevin@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>
Subject: FW: USS Lead Tap Water Results

FYI. Should be more today.

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Tuesday, November 08, 2016 11:35 AM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: Water Results

Tim:

Please find attached Pre-excavation water results for Ex. 6 - Personal Privacy street. These results are preliminary in the sense that I have not received the Level IV data package and have not validated the results. However, these results are complete and have been released by the lab.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312)220-7171 x2223 office

(312) 914-0325 cell

(312)220-7172 fax

www.SRSllc.com

To: Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Holst, Linda[holst.linda@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Baltazar, Debbie[baltazar.debbie@epa.gov]; Marquardt, Steve[marquardt.steve@epa.gov]
Cc: Kaplan, Robert[kaplan.robert@epa.gov]; Nelson, Leverett[nelson.leverett@epa.gov]; Klassman, Debra[klassman.debra@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Guerriero, Margaret[guerriero.margaret@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]
From: Fulghum, Mary
Sent: Wed 6/7/2017 5:07:51 PM
Subject: RE: WD's Draft Response to East Chicago's "Asks" Relating to Drinking Water Quality: Draft and Deliberative
East Chicago Ask Draft Response 06-06-2017 ck mdt2mf.docx

Here are my comments made to Miquel's second comments. Ex. 5 Attorney Client/Deliberative

Ex. 5 Attorney Client/Deliberative

From: Porter, Andrea
Sent: Wednesday, June 07, 2017 11:47 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Holst, Linda <holst.linda@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Baltazar, Debbie <baltazar.debbie@epa.gov>; Marquardt, Steve <marquardt.steve@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Guerriero, Margaret <guerriero.margaret@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: RE: WD's Draft Response to East Chicago's "Asks" Relating to Drinking Water Quality: Draft and Deliberative

Hi All,

This might help address Chris' question on what East Chicago's LSL replacement plans include.

As of the end of April, according to Indiana Office of Utility Consumer Counselor's web site, East Chicago has funding for 500 customer-owned lead service line replacements. Based on East Chicago's estimated service line inventory (see below), replacing 500 customer-owned service lines represents about 6% of the total customer-owned LSLs citywide (500 out of 8,000).

Background links included below.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

Information from the Indiana Office of Utility Consumer Counselor (OUCC) on East Chicago's municipal water rate settlement approval

- **OUCC April 26, 2017 Press Release** – attached, and posted here: http://in.gov/oucc/files/East%20Chicago%20Muni%20Water%20Order%20NR%204-26-17.pdf

  o Excerpt: *"East Chicago then succeeded in obtaining an additional $3.1 million from the Indiana Finance Authority (IFA) at no additional cost to ratepayers. The additional funding will allow the City to pay 100 percent of the costs for the replacement of up to 500 customer-owned*

service lines."

•□□□□□□ **OUCC webpage on East Chicago** (includes the full commission order), here: http://in.gov/oucc/2783.htm

Info on East Chicago estimated LSL inventory from the Indiana File Cabinet: https://ecm.idem.in.gov/cs/idcplg?IdcService=GET_FILE&dID=80301645&dDocName=80301299&Rendition=w

C. Service Line Material

Service Line Material	**Number of Service Connections**	**Is Number Estimated (E) or from Records (R)**	**Confidence in Records or Estimates** (Insert 1-10, with 1 being no confidence in records or estimate and 10 being very confident)
1. No lead portion			
2. Service line material is unknown	2000	E	
3. Lead gooseneck only			
4. **Entire service line is lead** from the water main to home	4000	E	
5. Lead **only** from the water main to external service shut-off, curb or property line	1000	E	
6. Lead **only** from the external shut-off valve to the home	4000	E	
Total number of service connections (add 1 through 6)	11,000	E	
Total number of service lines with lead portions (add 3 through 6)	9000	E	

II. Service Line Ownership

1. Specify who owns the portion of the service line from the water main to the external shut-off, curb or property line. Municipality (M), Public Water System (P) Resident (R) or Unknown/not sure (U)? P

2. Specify who owns the portion of the service line from the curb, property line or shut-off to the home. Municipality (M), Public Water System (P) Resident (R) or Unknown/not sure (U)?R

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bosscher, Valerie
Sent: Wednesday, June 07, 2017 10:56 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Holst, Linda <holst.linda@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Baltazar, Debbie <baltazar.debbie@epa.gov>; Marquardt, Steve <marquardt.steve@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Guerriero, Margaret <guerriero.margaret@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: RE: WD's Draft Response to East Chicago's "Asks" Relating to Drinking Water Quality: Draft and Deliberative

See attached for a few additional suggestions for consideration.

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Deltoral, Miguel
Sent: Wednesday, June 07, 2017 7:18 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Holst, Linda <holst.linda@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Baltazar, Debbie <baltazar.debbie@epa.gov>; Marquardt, Steve <marquardt.steve@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Guerriero, Margaret <guerriero.margaret@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: Re: WD's Draft Response to East Chicago's "Asks" Relating to Drinking Water Quality: Draft and Deliberative

Sorry, I missed something in #5. East Chicago did exceed the lead action level in 1993, but has met it ever since, so I corrected that sentence in this version.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Wednesday, June 7, 2017 07:12 AM
To: Korleski, Christopher; Henry, Timothy; Holst, Linda; Poy, Thomas; Bair, Rita; Porter, Andrea; Bosscher, Valerie; Shoven, Heather; Baltazar, Debbie; Marquardt, Steve
Cc: Kaplan, Robert; Nelson, Leverett; Klassman, Debra; Fulghum, Mary; Kelley, Jeff; Rowan,

Anne; Bassler, Rachel; Guerriero, Margaret; Ballotti, Doug
Subject: Re: WD's Draft Response to East Chicago's "Asks" Relating to Drinking Water Quality: Draft and Deliberative

Suggested edits for consideration...

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Tuesday, June 6, 2017 04:51 PM
To: Henry, Timothy; Holst, Linda; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Shoven, Heather; Baltazar, Debbie; Marquardt, Steve
Cc: Kaplan, Robert; Nelson, Leverett; Klassman, Debra; Fulghum, Mary; Kelley, Jeff; Rowan, Anne; Bassler, Rachel; Guerriero, Margaret; Ballotti, Doug; Korleski, Christopher
Subject: WD's Draft Response to East Chicago's "Asks" Relating to Drinking Water Quality: Draft and Deliberative

Hello All:

Thanks to all the WD folks who put together the initial draft. I've tried to distill all that valuable information down to a concise and clear response, and provide the attached for your review and comment. Tom/Rita – If I've overlooked someone, please share.

One of the things the City emphasized was their need for a clearer explanation about the relationship between LCR compliance and our concerns about

the Pb levels we detected during the pilot study. I've tried to address that here.

In addition to ORC, I'm copying Margaret and Doug for SFD distribution and comment as they see fit.

Thanks.

Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Korleski, Christopher[korleski.christopher@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
Cc: Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]
From: Deltoral, Miguel
Sent: Mon 6/5/2017 5:58:38 PM
Subject: Re: IDEM Proposed Response to Northwest Indiana Times - for your review

I think Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Monday, June 5, 2017 12:56 PM
To: Deltoral, Miguel; Poy, Thomas; Porter, Andrea; Bosscher, Valerie; Bair, Rita; Shoven, Heather
Cc: Kelley, Jeff; Rowan, Anne; Bassler, Rachel
Subject: RE: IDEM Proposed Response to Northwest Indiana Times - for your review

Thanks , Miguel.

Trying to keep this pretty simple, and to allow OEC to get back to back to IDEM in a timely manner before IDEM finalizes their response to the Q, can we suggest to IDEM the following suggestion:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Monday, June 05, 2017 10:14 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Cc: Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: Re: IDEM Proposed Response to Northwest Indiana Times - for your review

Hi Chris,

Maybe something along the lines of this might help:

Ex. 5 - Deliberative Process

[FLINT]

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Monday, June 5, 2017 09:44 AM
To: Poy, Thomas; Porter, Andrea; Deltoral, Miguel; Bosscher, Valerie; Bair, Rita; Shoven, Heather
Cc: Kelley, Jeff; Rowan, Anne; Bassler, Rachel
Subject: RE: IDEM Proposed Response to Northwest Indiana Times - for your review

Tech Team:

Ex. 5 - Deliberative Process I don't want to flyspeck their response if it's accurate, but I did have the following Qs noted below.

Thanks.

Chris

From: Bassler, Rachel
Sent: Monday, June 05, 2017 9:33 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>

Subject: IDEM Proposed Response to Northwest Indiana Times - for your review

Hi Chris,

IDEM received a follow up question from the Northwest Indiana Times about sequential sampling. Below is their proposed response. Do we have any edits/feedback on this?

Why can't sequential testing be used to verify compliance with LCR?

EPA's sequential sampling was done for the purpose of evaluating the impacts of soil excavation in the Superfund site on lead levels in drinking water using a first draw sample of 125ml. [CK Note: Isn't it more accurate to say EPA used all draws to evaluate Pb levels in EC's DW.]

IDEM's compliance verification sampling collected three samples, one liter each, at Tier 1 sites to evaluate the system's compliance with the Lead and Copper Rule (LCR). A one liter, first draw, sample is required to verify the public water system's compliance with the LCR. [CK Note: I thought the use of 3-samples went beyond what was need for determining LCR compliance?]

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

To: Bair, Rita[bair.rita@epa.gov]; Nowotarski, Allison[nowotarski.allison@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Sulej, Erik[Sulej.Erik@epa.gov]
From: Rowan, Anne
Sent: Wed 5/3/2017 1:53:11 PM
Subject: Re: [Leadnet] Resources for Families - Lead Service Line Replacement

Thanks for alerting me, Rita. I'll focus on this later this morning.

Sent from my iPhone

> On May 3, 2017, at 8:51 AM, Bair, Rita <bair.rita@epa.gov> wrote:
>
> This is an FYI about a response to what we thought was a citizen, but turns out to be a law professor who commented in an InsideEPA article. Is there anything you think we need to do?
>
> -----Original Message-----
> From: Porter, Andrea
> Sent: Wednesday, May 03, 2017 8:35 AM
> To: Bair, Rita <bair.rita@epa.gov>
> Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Sulej, Erik <Sulej.Erik@epa.gov>
> Subject: FW: [Leadnet] Resources for Families - Lead Service Line Replacement
>
> Hi Rita,
>
> I sent the email below in response to a question posted to the Leadnet list serve.
>
> I thought I was responding to a citizen, but it looks like Emily Benfer is a "a law professor with expertise on lead issues" who commented on East Chicago in this InsideEPA article --> https://insideepa.com/daily-news/despite-pledges-lead-cleanup-site-citizen-advocates-fear-rule-rollbacks
>
> I hope my email to her is not controversial since it includes only excerpts from EPA websites. But, do you think we need to let Public Affairs know?
>
> Let me know what else I should do on this.
>
> Thanks,
> Andrea Porter
>
> Environmental Engineer
> Ground Water & Drinking Water Branch
> U.S. EPA, Region 5 (WG-15J)
> 77 W. Jackson Blvd.
> Chicago, IL 60604
> Phone: 312-886-4427
> Fax: 312-697-2656
>
> -----Original Message-----
> From: Porter, Andrea
> Sent: Wednesday, May 03, 2017 8:01 AM
> To: Ex. 6 - Personal Privacy >
> Subject: RE: [Leadnet] Resources for Families - Lead Service Line Replacement
>
> Hi Emily,
>

> Here's some advice from EPA websites.
>
> 1) Flush the lines after the work is done. Link --> https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water
>
> Excerpt: "Instructions for flushing out the particles and sediment following a disturbance to your lead service line.
>
> If you have a lead service line and your lead service is disturbed, lead in your drinking water can increase to dangerous levels and particles containing high levels of lead can become trapped in your home plumbing.
>
> Avoid bringing the lead-containing particles and sediment into your home or to the tap you drink from by following these instructions whenever your lead service is disturbed.
>
> Find the closest available tap to where the water comes into the home that is not used for drinking water (such as an outside hose bib, laundry sink or bathtub) to flush the lead-containing particles out of the plumbing. Fully open the cold water tap and let the water run for at least five minutes to flush the lead-containing particles out of the plumbing so that the particles and sediment do not enter the rest of your household plumbing. The key is to pick the closest faucet not used for drinking that would result in the least amount of particles and sediment coming into the home plumbing."
>
> 2) Data from field studies in Flint, MI showed that certified filters can effectively reduce risk from even high levels of lead in drinking water. Link --> https://www.epa.gov/sites/production/files/2016-06/documents/filter_challenge_assesment_field_report_-_epa_v5.pdf
>
> Excerpt: "On June 22, 2016, ATSDR provided a summary of their review of EPA's data (attached). Their conclusion is that the Brita and Pur filters distributed in Flint are effective in consistently reducing the lead in tap water, in most cases to undetectable levels, and in all cases to levels that would not result in a significant increase in overall lead exposure. ATSDR also reported that the filter test data supports the conclusion that the use of filtered water would protect all populations, including pregnant women and children, from exposure to lead-contaminated water."
>
> Feel free to contact me if you have more questions.
>
> Thanks,
> Andrea Porter
>
> Environmental Engineer
> Ground Water & Drinking Water Branch
> U.S. EPA, Region 5 (WG-15J)
> 77 W. Jackson Blvd.
> Chicago, IL 60604
> Phone: 312-886-4427
> Fax: 312-697-2656
>
> -----Original Message-----
> From: leadnet@mail-list.com [mailto:leadnet@mail-list.com] On Behalf Of Emily Benfer
> Sent: Tuesday, May 02, 2017 12:02 PM
> To: leadnet@mail-list.com
> Subject: [Leadnet] Resources for Families - Lead Service Line Replacement
>
> Hello,
>
> Could you please recommend any resources for families who will be exposed to lead in their water after a city lead service line replacement? Any information related to protecting the occupants from lead

poisoning would be helpful. For example, do best practices include frequent water testing after the replacement, filters (on all faucets?), showers v baths for children? Thank you for your thoughts on this.
>
> Best regards,
> Emily
>
> --
>
> Emily A. Benfer
>
> **Ex. 6 - Personal Privacy**
>
> ----------
> Leadnet is a free service brought to you by the National Center for Healthy Housing.
> For more information on NCHH and its programs, visit www.nchh.org.
>
> A blank message to these addresses performs the following -
> Leadnet-on@mail-list.com subscribes you to the list.
> Leadnet-off@mail-list.com unsubscribes you from the list.
> Leadnet-switch@mail-list.com toggles you to/from the fancy digest version.
> Leadnet-vacation@mail-list.com toggles you to/from the vacation list.
>
> Post your message to the list by sending it to Leadnet@mail-list.com.
>
> To contact the list owner, send your message to
> Leadnet-list-owner@mail-list.com.
>
> mail-list.com 1302 Waugh Dr. #438 Houston, Texas 77019 USA
>
> To unsubscribe, switch to/from digest, get on/off vacation, or change your email address, click here.
> <http://cgi.mail-list.com/u?ln=leadnet&nm=porter.andrea%40epa.gov>
>

To: Bair, Rita[bair.rita@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Sulej, Erik[Sulej.Erik@epa.gov]
From: Porter, Andrea
Sent: Wed 5/3/2017 1:35:10 PM
Subject: FW: [Leadnet] Resources for Families - Lead Service Line Replacement

Hi Rita,

I sent the email below in response to a question posted to the Leadnet list serve.

I thought I was responding to a citizen, but it looks like Emily Benfer is a "a law professor with expertise on lead issues" who commented on East Chicago in this InsideEPA article --> https://insideepa.com/daily-news/despite-pledges-lead-cleanup-site-citizen-advocates-fear-rule-rollbacks

I hope my email to her is not controversial since it includes only excerpts from EPA websites. But, do you think we need to let Public Affairs know?

Let me know what else I should do on this.

Thanks,
Andrea Porter

Environmental Engineer
Ground Water & Drinking Water Branch
U.S. EPA, Region 5 (WG-15J)
77 W. Jackson Blvd.
Chicago, IL 60604
Phone: 312-886-4427
Fax: 312-697-2656

-----Original Message-----
From: Porter, Andrea
Sent: Wednesday, May 03, 2017 8:01 AM
To: Ex. 6 - Personal Privacy
Subject: RE: [Leadnet] Resources for Families - Lead Service Line Replacement

Hi Emily,

Here's some advice from EPA websites.

1) Flush the lines after the work is done. Link --> https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water

Excerpt: "Instructions for flushing out the particles and sediment following a disturbance to your lead service line.

If you have a lead service line and your lead service is disturbed, lead in your drinking water can increase to dangerous levels and particles containing high levels of lead can become trapped in your home plumbing.

Avoid bringing the lead-containing particles and sediment into your home or to the tap you drink from by following these instructions whenever your lead service is disturbed.

Find the closest available tap to where the water comes into the home that is not used for drinking water (such as an outside hose bib, laundry sink or bathtub) to flush the lead-containing particles out of the

plumbing. Fully open the cold water tap and let the water run for at least five minutes to flush the lead-containing particles out of the plumbing so that the particles and sediment do not enter the rest of your household plumbing. The key is to pick the closest faucet not used for drinking that would result in the least amount of particles and sediment coming into the home plumbing."

2) Data from field studies in Flint, MI showed that certified filters can effectively reduce risk from even high levels of lead in drinking water. Link --> https://www.epa.gov/sites/production/files/2016-06/documents/filter_challenge_assesment_field_report_-_epa_v5.pdf

Excerpt: "On June 22, 2016, ATSDR provided a summary of their review of EPA's data (attached). Their conclusion is that the Brita and Pur filters distributed in Flint are effective in consistently reducing the lead in tap water, in most cases to undetectable levels, and in all cases to levels that would not result in a significant increase in overall lead exposure. ATSDR also reported that the filter test data supports the conclusion that the use of filtered water would protect all populations, including pregnant women and children, from exposure to lead-contaminated water."

Feel free to contact me if you have more questions.

Thanks,
Andrea Porter

Environmental Engineer
Ground Water & Drinking Water Branch
U.S. EPA, Region 5 (WG-15J)
77 W. Jackson Blvd.
Chicago, IL 60604
Phone: 312-886-4427
Fax: 312-697-2656

-----Original Message-----
From: leadnet@mail-list.com [mailto:leadnet@mail-list.com] On Behalf Of Emily Benfer
Sent: Tuesday, May 02, 2017 12:02 PM
To: leadnet@mail-list.com
Subject: [Leadnet] Resources for Families - Lead Service Line Replacement

Hello,

Could you please recommend any resources for families who will be exposed to lead in their water after a city lead service line replacement? Any information related to protecting the occupants from lead poisoning would be helpful. For example, do best practices include frequent water testing after the replacement, filters (on all faucets?), showers v baths for children? Thank you for your thoughts on this.

Best regards,
Emily

--

Emily A. Benfer

Ex. 6 - Personal Privacy

Leadnet is a free service brought to you by the National Center for Healthy Housing.
For more information on NCHH and its programs, visit www.nchh.org.

A blank message to these addresses performs the following -

Leadnet-on@mail-list.com subscribes you to the list.
Leadnet-off@mail-list.com unsubscribes you from the list.
Leadnet-switch@mail-list.com toggles you to/from the fancy digest version.
Leadnet-vacation@mail-list.com toggles you to/from the vacation list.

Post your message to the list by sending it to Leadnet@mail-list.com.

To contact the list owner, send your message to
Leadnet-list-owner@mail-list.com.

mail-list.com 1302 Waugh Dr. #438 Houston, Texas 77019 USA

To unsubscribe, switch to/from digest, get on/off vacation, or change your email address, click here.
<http://cgi.mail-list.com/u?ln=leadnet&nm=porter.andrea%40epa.gov>

To: Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Sulej, Erik[Sulej.Erik@epa.gov]
Cc: Spaulding, William[spaulding.william@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Deltoral, Miguel
Sent: Thur 4/20/2017 12:26:55 PM
Subject: Re: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

Nope. I've been out since Monday.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Porter, Andrea
Sent: Wednesday, April 19, 2017 10:34:29 AM
To: Bosscher, Valerie; Sulej, Erik; Deltoral, Miguel
Cc: Spaulding, William; Bair, Rita; Poy, Thomas
Subject: FW: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

Hi All,

Per the email chain below, Philippa Cannon is trying to figure out what Drinking Water staff may have told a concerned citizen yesterday about lead in water in East Chicago. Did any of you take a call from the Hotline on this yesterday, or know who else might have?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Cannon, Phillippa
Sent: Wednesday, April 19, 2017 10:08 AM
To: Fusinski, Keith <fusinski.keith@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer -- drinking water concerns

I don't think anyone on our hotline would advise her that her water was unsafe – two SEE employees answer the hotline and they usually forward calls to program staff. I'm copying our drinking water staff who have been working on this issue.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Fusinski, Keith
Sent: Wednesday, April 19, 2017 9:59 AM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Tim (and others),

I called her to discuss the soil lead issue. She told me that she called the EPA Hotline yesterday and was advised that the water at the residence is unsafe to drink due to lead in the supply lines. I told her I would look into that and get back to her.

Now I need someone to bring me up to speed on this issue before I call her back (or someone else does) this afternoon.

Thanks

Keith Fusinski, PhD, MT(ASCP)
Toxicologist
U.S. EPA Region 5
734-692-7681-office
734-692-7677-fax
734-740-9018-cell

"Keep in mind that the real world comes first, the math comes second."

From: Drexler, Timothy
Sent: Wednesday, April 19, 2017 10:34 AM
To: Fusinski, Keith <fusinski.keith@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Hi Keith: If you could call, l'd really appreciate it.

-Tim

From: Fusinski, Keith
Sent: Tuesday, April 18, 2017 2:40 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Tim,

Do want to take it or would you like me to?

Keith Fusinski, PhD, MT(ASCP)
Toxicologist
U.S. EPA Region 5
734-692-7681-office
734-692-7677-fax
734-740-9018-cell

"Keep in mind that the real world comes first, the math comes second."

From: Rodriguez, Charles
Sent: Tuesday, April 18, 2017 3:32 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Fusinski, Keith <fusinski.keith@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: FW: USS Lead: Health Concerns From Potential Property Buyer

Hi Tim and Keith,

Can one of you follow-up with the resident? ATSDR declined.

Charles Rodriguez

From: Johnson, Mark
Sent: Tuesday, April 18, 2017 1:50 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Charles

I appreciate you reaching out to us to respond to the concern of this prospective buyer of this property. However, other than providing the factsheets regarding lead in soil, I don't feel that ATSDR can be giving the requested advice to this individual. Since the decision that this property does not meet the threshold for remediation, I feel that this questions should be answered by EPA. Therefore, I would recommend having a EPA RPM, OSC, or toxicologist (Keith Fusinski) answer the question.

Let me know if you want to discuss further.

Mark

Mark D. Johnson, PhD, DABT

Regional Director/Toxicologist

Agency for Toxic Substances and Disease Registry (ATSDR)

77 W. Jackson Blvd.

Chicago, IL 60604

Office: 312-353-3436

Email: mdjohnson@cdc.gov

From: Rodriguez, Charles
Sent: Monday, April 17, 2017 8:15 AM
To: Johnson, Mark <johnson.mark@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: USS Lead: Health Concerns From Potential Property Buyer

Hi Mark and Motria,

Ex. 6 - Personal Privacy is considering purchasing Ex. 6 - Personal Privacy The current homeowner showed her the EPA soil sampling results letter indicating that there is no remediation needed (nothing above action levels).

Her concern is that the backyard has 339 ppm lead on the top 6 inches. She would be bringing a small child and pets to live at the home, and they would spend a lot of time playing outside.

She's like to know how safe it would be for kids to play on the backyard, and if there is anything she could do to protect them.

Can you please follow up with her? Her number is Ex. 6 - Personal Privacy

Thank you in advance.

Sicnerely,

Charles Rodriguez

Community Involvement Coordinator

U.S. EPA, Region 5

77 W. Jackson Blvd., SI-7J

Chicago, IL 60604

Office: (312)886-7472

Cell: (312)833-3073

To: Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Spaulding, William[spaulding.william@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Sulej, Erik
Sent: Wed 4/19/2017 3:38:15 PM
Subject: RE: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

Hi Andrea.

I was out yesterday and received no emails or messages regarding such a call.

Erik

From: Porter, Andrea
Sent: Wednesday, April 19, 2017 10:34 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Sulej, Erik <Sulej.Erik@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Spaulding, William <spaulding.william@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: FW: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

Hi All,

Per the email chain below, Philippa Cannon is trying to figure out what Drinking Water staff may have told a concerned citizen yesterday about lead in water in East Chicago. Did any of you take a call from the Hotline on this yesterday, or know who else might have?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Cannon, Phillippa
Sent: Wednesday, April 19, 2017 10:08 AM
To: Fusinski, Keith <fusinski.keith@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer -- drinking water concerns

I don't think anyone on our hotline would advise her that her water was unsafe – two SEE employees answer the hotline and they usually forward calls to program staff. I'm copying our drinking water staff who have been working on this issue.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Fusinski, Keith
Sent: Wednesday, April 19, 2017 9:59 AM

To: Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Tim (and others),

I called her to discuss the soil lead issue. She told me that she called the EPA Hotline yesterday and was advised that the water at the residence is unsafe to drink due to lead in the supply lines. I told her I would look into that and get back to her.

Now I need someone to bring me up to speed on this issue before I call her back (or someone else does) this afternoon.

Thanks

Keith Fusinski, PhD, MT(ASCP)
Toxicologist
U.S. EPA Region 5
734-692-7681-office
734-692-7677-fax
734-740-9018-cell

"Keep in mind that the real world comes first, the math comes second."

From: Drexler, Timothy
Sent: Wednesday, April 19, 2017 10:34 AM
To: Fusinski, Keith <fusinski.keith@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Hi Keith: If you could call, I'd really appreciate it.

-Tim

From: Fusinski, Keith
Sent: Tuesday, April 18, 2017 2:40 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Tim,

Do want to take it or would you like me to?

Keith Fusinski, PhD, MT(ASCP)
Toxicologist
U.S. EPA Region 5
734-692-7681-office
734-692-7677-fax
734-740-9018-cell

"Keep in mind that the real world comes first, the math comes second."

From: Rodriguez, Charles
Sent: Tuesday, April 18, 2017 3:32 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Fusinski, Keith <fusinski.keith@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: FW: USS Lead: Health Concerns From Potential Property Buyer

Hi Tim and Keith,

Can one of you follow-up with the resident? ATSDR declined.

Charles Rodriguez

From: Johnson, Mark
Sent: Tuesday, April 18, 2017 1:50 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Charles

I appreciate you reaching out to us to respond to the concern of this prospective buyer of this property. However, other than providing the factsheets regarding lead in soil, I don't feel that ATSDR can be giving the requested advice to this individual. Since the decision that this property does not meet the threshold for remediation, I feel that this questions should be answered by EPA. Therefore, I would recommend having a EPA RPM, OSC, or toxicologist (Keith Fusinski) answer the question.

Let me know if you want to discuss further.

Mark

Mark D. Johnson, PhD, DABT

Regional Director/Toxicologist

Agency for Toxic Substances and Disease Registry (ATSDR)

77 W. Jackson Blvd.

Chicago, IL 60604

Office: 312-353-3436

Email: mdjohnson@cdc.gov

From: Rodriguez, Charles
Sent: Monday, April 17, 2017 8:15 AM
To: Johnson, Mark <johnson.mark@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: USS Lead: Health Concerns From Potential Property Buyer

Hi Mark and Motria,

Ex. 6 - Personal Privacy is considering purchasing Ex. 6 - Personal Privacy The current homeowner showed her the EPA soil sampling results letter indicating that there is no remediation needed (nothing above action levels).

Her concern is that the backyard has 339 ppm lead on the top 6 inches. She would be bringing a small child and pets to live at the home, and they would spend a lot of time playing outside.

She's like to know how safe it would be for kids to play on the backyard, and if there is anything she could do to protect them.

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Sicnerely,

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Community Involvement Coordinator

U.S. EPA, Region 5

77 W. Jackson Blvd., SI-7J

Chicago, IL 60604

Office: (312)886-7472

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To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Sulej, Erik[Sulej.Erik@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Spaulding, William[spaulding.william@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Porter, Andrea
Sent: Wed 4/19/2017 3:34:29 PM
Subject: FW: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

Hi All,

Per the email chain below, Philippa Cannon is trying to figure out what Drinking Water staff may have told a concerned citizen yesterday about lead in water in East Chicago. Did any of you take a call from the Hotline on this yesterday, or know who else might have?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

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U.S. EPA Region 5

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Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
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To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

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Subject: FW: USS Lead: Health Concerns From Potential Property Buyer

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From: Johnson, Mark
Sent: Tuesday, April 18, 2017 1:50 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Charles

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Mark

Mark D. Johnson, PhD, DABT

Regional Director/Toxicologist

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77 W. Jackson Blvd.

Chicago, IL 60604

Office: 312-353-3436

Email: mdjohnson@cdc.gov

From: Rodriguez, Charles
Sent: Monday, April 17, 2017 8:15 AM
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Community Involvement Coordinator

U.S. EPA, Region 5

77 W. Jackson Blvd., SI-7J

Chicago, IL 60604

Office: (312)886-7472

Cell: (312)833-3073

To: Fulghum, Mary[fulghum.mary@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Deltoral, Miguel
Sent: Tue 4/11/2017 10:53:44 AM
Subject: Re: Media questions -- East Chicago water

FYI,

They exceeded the lead action level in the July-Dec 1992 monitoring period. This would require them to install treatment. However, under the LCR, a small or medium system can stop the treatment installation steps if they meet the lead action level in two consecutive six-month rounds of monitoring. They met the lead action level during two consecutive six-month rounds of monitoring (Jan-June 1993 and July-Dec 1993). If they exceeded the lead action level again, they would recommence treatment installation, but they have not exceeded the lead action level since the Jul-Dec 1992 monitoring period.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Fulghum, Mary
Sent: Monday, April 10, 2017 01:27 PM
To: Deltoral, Miguel; Poy, Thomas
Subject: RE: Media questions -- East Chicago water

Ex. 5 - Attorney Client

From: Bassler, Rachel
Sent: Monday, April 10, 2017 12:02 PM
To: Schock, Michael <Schock.Michael@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry,

Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>
Cc: Speth, Thomas <Speth.Thomas@epa.gov>; Lytle, Darren <Lytle.Darren@epa.gov>
Subject: RE: Media questions -- East Chicago water

All, the reporter is pinging – her deadline was last week. I just spoke with Tom Poy. Below are the suggested changes. Any edits?

Q: My original question was: Virginia Tech professor Marc Edwards said, "While the new chemical 8600 is better than sodium hexametaphosphate, I think they could do better with just orthophosphate." Does EPA have a response to that statement?

Ex. 5 - Deliberative Process

Q: If EPA knows Carus 8600 is a blend that includes 30% polyphosphate (as hexametaphosphate) and 70% orthophosphate, is that not sufficient information to assess the relative effectiveness of Carus 8600?

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Schock, Michael
Sent: Monday, April 10, 2017 7:24 AM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>
Cc: Speth, Thomas <Speth.Thomas@epa.gov>; Lytle, Darren <Lytle.Darren@epa.gov>
Subject: RE: Media questions -- East Chicago water

Yes, it's the same information and it does nothing to really answer the questions on the table, can EPA predict exactly how much more effective orthophosphate would be, what other treatment process adjustments might need to be made to change to orthophosphate, what exactly is different between the mechanisms of lead release control (or copper) with any given blended phosphate chemical and any other, and finally, how would someone identify or quantitatively set Optimal Water Quality Parameters under the LCR when blended phosphate chemicals are added by a water system?

--Mike

From: Fulghum, Mary
Sent: Friday, April 07, 2017 11:58 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>;

Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>
Cc: Schock, Michael <Schock.Michael@epa.gov>
Subject: RE: Media questions -- East Chicago water

This is on the Carus Web page -Is it the same information?

http://www.caruscorporation.com/resources/category/1/3/7/documents/dw-carus-8600-data-sheet-final.pdf

Blended phosphates Product Safety Summary - Carus Corporation

www.caruscorporation.com/.../CarusBlendedPhosphate_ProductSafetySummarycp.pd...

1.

Product Safety Summary. **Summary**: **Carus** Proprietary **Blended Phosphate** Water ... **Carus blended phosphate** products are liquid or dry blends of the above ...

[PDF]Carus Proprietary Blended Phosphate Water Treatment Chemicals ...

www.caruscorporation.com/resources/content/.../ProductSafetySummary_Blended.pdf

1.

Product Safety Summary. **Summary**: **Carus** Proprietary **Blended Phosphate** Water ... **Carus blended phosphate** products are liquid or dry blends of the above ...

[PDF]Carus Proprietary Zinc Phosphate and ... - Carus Corporation

www.caruscorporation.com/resources/.../ProductSafetySummary_ZincAndOrtho.pdf

1.

Product Safety Summary. **Summary**: **Carus** Proprietary Zinc **Phosphate** and ... of two or more chemicals listed above along with water to form a liquid **blend**.

[PDF]Sodium Hypochlorite Product Safety Summary ... - Carus Corporation

www.caruscorporation.com/.../sodium-hypochlorite-product-safety-summary-2015.p...

1.

Product Safety Summary. **Summary**: **Carus** provides sodium hypochlorite on a ... Insecticide, Fungicide and Rodenticide Act. This product may be applied only ...

From: Bassler, Rachel
Sent: Friday, April 07, 2017 10:50 AM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>
Cc: Schock, Michael <Schock.Michael@epa.gov>
Subject: RE: Media questions -- East Chicago water

All,

Please see my edits/comments below for the proposed responses. Thoughts/edits?

Q: My original question was: Virginia Tech professor Marc Edwards said, "While the new chemical 8600 is better than sodium hexametaphosphate, I think they could do better with just orthophosphate." Does EPA have a response to that statement?

Ex. 5 - Deliberative Process

Q: If EPA knows Carus 8600 is a blend that includes 30% polyphosphate (as hexametaphosphate) and 70% orthophosphate, is that not sufficient information to assess the relative effectiveness of Carus 8600?

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Fulghum, Mary
Sent: Thursday, April 06, 2017 10:17 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>
Cc: Schock, Michael <Schock.Michael@epa.gov>
Subject: Re: Media questions -- East Chicago water

Ex. 5 - Attorney Client

From: Rowan, Anne
Sent: Thursday, April 6, 2017 10:00 AM
To: Deltoral, Miguel; Bassler, Rachel; Korleski, Christopher; Poy, Thomas; Henry, Timothy; Bair, Rita; Nowotarski, Allison
Cc: Schock, Michael; Fulghum, Mary
Subject: RE: Media questions -- East Chicago water

Looping in Allison.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Deltoral, Miguel
Sent: Thursday, April 06, 2017 9:02 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Schock, Michael <Schock.Michael@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>
Subject: Re: Media questions -- East Chicago water

IMPORTANT - In our initial response to Q4, we said that East City never exceeded the lead action level, but they actually did exceed the lead action level in the July-Dec 1992 monitoring period based on a recent check of the city's SDWIS data, so we should let the reporter know that our initial answer was incorrect on this.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Thursday, April 6, 2017 07:47 AM
To: Bassler, Rachel; Korleski, Christopher; Poy, Thomas; Henry, Timothy; Bair, Rita
Cc: Rowan, Anne; Schock, Michael
Subject: Re: Media questions -- East Chicago water

Hi Tom,

Draft responses to Sarah's questions.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bassler, Rachel
Sent: Wednesday, April 5, 2017 11:52 AM
To: Korleski, Christopher; Poy, Thomas; Henry, Timothy; Bair, Rita; Deltoral, Miguel
Cc: Rowan, Anne
Subject: FW: Media questions -- East Chicago water

All,

Please see the follow up questions below. The reporter's deadline is 5pm tomorrow.

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Sarah Reese [mailto:Sarah.Reese@nwi.com]
Sent: Wednesday, April 05, 2017 11:49 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: RE: Media questions -- East Chicago water

Hi Rachel,

I have one follow up question. It's regarding EPA's answer to question 2 below.

The answer was: **There are many blended phosphate products which vary in the percentages and types of orthophosphate and polyphosphate. The types and percentages in each blended phosphate product are propriety information and EPA has insufficient information on blended phosphates to assess the relative effectiveness of any given blended phosphate with using only orthophosphate.**

EPA told me in a previous statement (sent to me Feb. 3 by Anne Rowan): **In August 2016, IDEM told EPA that the specific corrosion control chemical used by East Chicago is called "Carus 8600." "Carus 8600" is a blend that includes 30% polyphosphate (as hexametaphosphate) and 70% orthophosphate. The orthophosphate portion of the chemical blend is what helps with lead corrosion control.**

I'm looking for some clarification, since it appears these two statements may conflict.

Question: If EPA knows Carus 8600 is a blend that includes 30% polyphosphate (as hexametaphosphate) and 70% orthophosphate, is that not sufficient information to assess the

relative effectiveness of Carus 8600?

My original question was: Virginia Tech professor Marc Edwards said, "While the new chemical 8600 is better than sodium hexametaphosphate, I think they could do better with just orthophosphate." Does EPA have a response to that statement?

My deadline is 5 p.m. Thursday.

Thanks,

Sarah

From: Bassler, Rachel [mailto:Bassler.Rachel@epa.gov]
Sent: Wednesday, March 29, 2017 5:44 PM
To: Sarah Reese
Subject: RE: Media questions -- East Chicago water

Hi Sarah,

Here are our responses, to be attributed to U.S. EPA or an EPA spokesperson.

Q 1: Did IDEM ask East Chicago to use the ortho-polyphosphate blend Carus 8600 at the urging of EPA?

A: Carus 8600 is a proprietary blend of: 1) orthophosphate -- to control corrosion from lead and copper – 2) and polyphosphate to address discoloration issues related to the iron (red) and manganese (black) in the water. Please note that polyphosphates alone are not effective for controlling lead and copper levels. Orthophosphates alone do provide effective corrosion control for lead and copper. It was the city's decision to use this blend.

Q 2: Virginia Tech professor Marc Edwards said, "While the new chemical 8600 is better than sodium hexametaphosphate, I think they could do better with just orthophosphate." Does EPA have a response to that statement?

A: There are many blended phosphate products which vary in the percentages and types of orthophosphate and polyphosphate. The types and percentages in each blended phosphate product are propriety information and EPA has insufficient information on blended phosphates to assess the relative effectiveness of any given blended phosphate with using only orthophosphate.

Q 3. Internal EPA emails in August 2016 also showed employees were aware of a 2005 American Water Works Association report titled "Managing Change and Unintended Consequences: Lead and Copper Rule Corrosion Control Treatment." The report discusses several factors that may have been at play in East Chicago, including the change to membrane filtration, blending finished waters and changing corrosion control chemicals. What steps, if any, did EPA take to investigate whether any of the factors mentioned above might be affecting quality, including lead levels, in East Chicago's water?

A: EPA stands ready to provide technical assistance to agencies like IDEM which have the primary authority to manage the state drinking water program and/or to public water systems whenever and wherever problems or concerns arise. IDEM and the city of East Chicago are running an effective drinking water program that has been--and remains--in full compliance with EPA's Lead and Copper and Rule.

Q 4. An email from IDEM's Mary Hollingsworth to EPA's Thomas Poy on Jan. 5, 2017, took issue with "misinformation" in a letter EPA's Robert Kaplan wrote to Sen. Donnelly (I believe this to be a letter written to Rep. Pete Visclosky based on content of the letter described by Hollingsworth). The first point Hollingsworth discusses is the 15 ppb action level. The letter explains the sampling required under the Lead and Copper Rule, and Hollingsworth goes on to say results above the action level in EPA's sequential sampling do not indicate an issue with East Chicago's compliance or IDEM's implementation and oversight, but might indicate an issue with the Lead and Copper Rule. Residents, environmental groups and experts agree that "any results over 15 ppb would be a major cause for concern." Does EPA agree with that statement?

A: There is no safe level of lead exposure. The Lead and Copper Rule sets the "action level" for

lead at 15 ppb based on first-draw samples. This action level was based in part on the effectiveness of available treatment, taking cost into consideration. The City of East Chicago has never exceeded 15 ppb action level based on first-draw samples -- EPA's required compliance sampling protocol for lead.

Q 5: Does EPA have any updates on its previously stated intention to update the Lead and Copper Rule?

A: EPA currently plans to propose revisions to the Lead and Copper Rule in 2017.

Q 6: Hollingsworth's Jan. 5 email says low orthophosphate levels found in the Superfund site are the result of low water flows because of dead-end lines near railroad tracks. It appears IDEM is taking a position that the low orthophosphate levels found in the Superfund site are a localized issue, not a system-wide issue as EPA has previously stated. Does EPA have any response to that?

A: East Chicago's August and September 2016 monthly operating reports show orthophosphate levels ranging from 0.03 ppm to 0.5 ppm throughout the drinking water system. The city and IDEM continue to evaluate the orthophosphate levels found at homes on the Superfund site.

Q 7. IDEM has stated the mass relocation of people from the West Calumet Housing Complex also could results in lower orthophosphate residuals in the Superfund site. What steps, if any, has EPA taken to protect residents in the Superfund site from this possible exposure?

A. Reduced water usage in one area can affect how long it takes for orthophosphate to reach those areas. EPA is confident that IDEM's recently announced plan to provide water filters to all homes in Zones 2 and 3 ensures that residents have safe drinking water.

Q 8. Hollingsworth's Jan. 5, 2017, email also says "IDEM has always felt that working closely with EPA on drinking water issues is extremely important and we will continue to work with EPA, but because of this situation and the way it was handled and is still being handled, our close working relationship had been compromised." Has EPA responded to this email?

A. EPA disagrees with Ms. Hollingsworth's statement. EPA has a strong relationship with IDEM continues to work in close collaboration to address all the issues associated with the USS Lead cleanup, including the Agency's drinking water pilot study. EPA has offered strong support for IDEM's effective drinking water program in public forums, noting that that the city and state have fully complied with the Lead and Copper Rule.

Q: Isn't it important for residents to know -- regardless of whether the city is in compliance with the Lead and Copper Rule -- that they have elevated lead levels in their drinking water?

A: Yes, it is always important to keep residents informed on any potential risks from drinking water. This why EPA telephoned and mailed residents their results, provided results and advice on our website, held an open house (with an extensive presentation by Miguel Del Toral), and took other steps to inform residents.

Q. It appears EPA, IDEM and the city had been working on draft FAQs to hand out at an open house regarding lead in drinking water when Mayor Anthony Copeland suddenly upended that process by announcing water sampling results in an open letter. Were the parties initially planning to announce water testing results at a Dec 10 open house?

A: During the week of December 5, EPA began providing individual water results to residents whose homes were tested. EPA planned to discuss the water pilot project and the available results at the December 10 meeting with the community at large. EPA also provided additional, verified water results to individual residents as they became available throughout December and January. Those additional results were discussed in detail at the Jan. 27, 2017, community open house which you attended.

Q. Emails from Miguel Del Toral and Andrea Porter on Oct. 25, 2016, say, the operator confirmed "the numbers on the MOR are orthophosphate." IDEM's Mary Hollingsworth provided an update in October that said the city was "increasing orthophosphate feed to 1 ppm leaving the plant. Their target residuals in the distribution system is now 0.75 to 1 ppm." Ccan EPA clarify what this means? Are the numbers on the city's MORs total phosphate (total P) or orthophosphate (PO4)? Was East Chicago measuring the total amount of orthophosphate it was feeding?

A: IDEM confirmed that the values measured at the treatment plant are orthophosphate. The orthophosphate "leaving the plant" is the amount added at the treatment plant. The "target residuals in the distribution system" refers to the desired concentration in the water lines.

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

-----Original Message-----
From: Bassler, Rachel
Sent: Monday, March 27, 2017 2:33 PM
To: 'Sarah Reese' <Sarah.Reese@nwi.com>
Subject: RE: Media questions -- East Chicago water

Hi Sarah,

I received your questions and we are working to meet your deadline.

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

-----Original Message-----

From: Sarah Reese [mailto:Sarah.Reese@nwi.com]

Sent: Monday, March 27, 2017 10:22 AM

To: Bassler, Rachel <Bassler.Rachel@epa.gov>

Subject: Fwd: Media questions -- East Chicago water

Hi Rachel,

I have one additional question to add to this list.

Emails from Miguel Del Toral and Andrea Porter on Oct. 25, 2016, say, the operator confirmed "the numbers on the MOR are orthophosphate." IDEM's Mary Hollingsworth provided an update in October that said the city was "increasing orthophosphate feed to 1 ppm leaving the plant. Their target residuals in the distribution system is now 0.75 to 1 ppm."

Q: can EPA clarify what this means? Are the numbers on the city's MORs total phosphate (total P) or orthophosphate (PO4)? Was East Chicago measuring the total amount of orthophosphate it was feeding?

Thanks,

Sarah

Sent from my iPhone

Begin forwarded message:

From: Sarah Reese <Sarah.Reese@nwi.com<mailto:Sarah.Reese@nwi.com>>

Date: March 27, 2017 at 7:14:12 AM CDT

To: "Bassler, Rachel" <Bassler.Rachel@epa.gov<mailto:Bassler.Rachel@epa.gov>>

Subject: Media questions -- East Chicago water

Hi Rachel,

I have a list of questions regarding correspondence regarding East Chicago drinking water that I recently obtained through a FOIA request with EPA. Do you think you can get me answers and/or provide a statement by Wednesday morning?

Emails show EPA officials in August 2016 were aware of a 2002 paper titled "Effect of Phosphate Inhibitors on Lead Release From Pipes," written by Marc Edwards and Laurie McNeill, that concluded "Hexametaphosphate generally increased soluble lead release over a broad range of water qualities," and further stated, "Utilities should consider these adverse effects whenever polyphosphate is used to prevent scaling or iron precipitation; in fact, polyphosphates cannot be recommended for lead corrosion control." The emails, which were linked to an email from IDEM's Mary Hollingsworth confirming East Chicago was using sodium hexametaphosphate. EPA's Rita Bair emailed IDEM's Mary Hollingsworth Aug. 18, saying, "We need to find out if East Chicago is adding some kind of orthophosphate for CCT beyond the polyphosphate addition." Hollingsworth responded Aug. 19 by sending EPA an information sheet for a chemical called Carus 8600. It appears East Chicago started using Carus 8600 on Sept. 6, according to an email in the Virtual File Cabinet. A city engineering report says the city changed chemicals in September 2016 "under recent guidance from IDEM."

Q: Did IDEM ask East Chicago to use the ortho-polyphosphate blend Carus 8600 at the urging of EPA?

Virginia Tech professor Marc Edwards said, "While the new chemical 8600 is better than sodium hexametaphosphate, I think they could do better with just orthophosphate."

Q: Does EPA have a response to that statement?

Internal EPA emails in August 2016 also showed employees were aware of a 2005 American Water Works Association report titled "Managing Change and Unintended Consequences: Lead and Copper Rule Corrosion Control Treatment." The report discusses several factors that may have been at play in East Chicago, including the change to membrane filtration, blending finished waters and changing corrosion control chemicals.

Q: What steps, if any, did EPA take to investigate whether any of the factors mentioned above might be affecting quality, including lead levels, in East Chicago's water?

An email from IDEM's Mary Hollingsworth to EPA's Thomas Poy on Jan. 5, 2017, took issue with "misinformation" in a letter EPA's Robert Kaplan wrote to Sen. Donnelly (I believe this to be

a letter written to Rep. Pete Visclosky based on content of the letter described by Hollingsworth). The first point Hollingsworth discusses is the 15 ppb action level. The letter explains the sampling required under the Lead and Copper Rule, and Hollingsworth goes on to say results above the action level in EPA's sequential sampling do not indicate an issue with East Chicago's compliance or IDEM's implementation and oversight, but might indicate an issue with the Lead and Copper Rule.

Q: Residents, environmental groups and experts agree that "any results over 15 ppb would be a major cause for concern." Does EPA agree with that statement?

Q: Does EPA have any updates on its previously stated intention to update the Lead and Copper Rule?

Q: Hollingsworth's Jan. 5 email says low orthophosphate levels found in the Superfund site are the result of low water flows because of dead-end lines near railroad tracks. It appears IDEM is taking a position that the low orthophosphate levels found in the Superfund site are a localized issue, not a systemwide issue as EPA has previously stated.

Q: Does EPA have any response to that?

IDEM has stated the mass relocation of people from the West Calumet Housing Complex also could results in lower orthophosphate residuals in the Superfund site.

Q: What steps, if any, has EPA taken to protect residents in the Superfund site from this possible exposure?

Hollingsworth's Jan. 5, 2017, email also says "IDEM has always felt that working closely with EPA on drinking water issues is extremely important and we will continue to work with EPA, but because of the this situation and the way it was handled and is still being handled, our close working relationship had been compromised."

Q: Has EPA responded to this email?

Q: Isn't it important for residents to know -- regardless of whether the city is in compliance with the Lead and Copper Rule -- that they have elevated lead levels in their drinking water?

It appears EPA, IDEM and the city had been working on draft FAQs to hand out at an open house regarding lead in drinking water when Mayor Anthony Copeland suddenly upended that

process by announcing water sampling results in an open letter.

Q: Were the parties initially planning to announce water testing results at a Dec 10 open house?

Thanks,

Sarah

Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com<mailto:sarah.reese@nwi.com>

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To: Bosscher, Valerie[bosscher.valerie@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Poy, Thomas
Sent: Fri 4/7/2017 6:52:33 PM
Subject: RE: For Review - Conclusions and Recommendations for EC Pilot Study - DRAFT

I have a few minor edits. I will clean the document up and email it to Chris.

Thank you, Val, Andrea and Miguel.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bosscher, Valerie
Sent: Friday, April 07, 2017 7:28 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: For Review - Conclusions and Recommendations for EC Pilot Study - DRAFT

Hi Tom,

Please see attached for DRAFT Conclusions and Recommendations for the East Chicago Drinking Water Pilot Study, with bullet-point descriptions of recommended best practices for contractors and residents under the "Specific Recommendations" section. Some additional details are currently under the "Notes and References" section at the bottom, to try to avoid detracting from the main points.

The version attached incorporates Miguel's and Andrea's review, but I have accepted changes to give you a clean version for review. If you would like to see the specific revisions since Tuesday's meeting, the One Drive link below is still active.

Please let us know if you have any comments or would like to discuss.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Tuesday, April 04, 2017 4:04 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Conclusions and Recommendations for EC Pilot Study - DRAFT with best practices

Miguel and Andrea,

I incorporated today's discussion regarding recommended best practices (for contractors and residents) into the "specific recommendations" section. I also accepted other changes on the rest of the document.

Please see the revised version at:

Ex. 6 - Personal Privacy

Please let me know if you have any comments, so that we can finalize this for Tom's review by noon Friday.

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Fulghum, Mary
Sent: Thur 4/6/2017 1:36:36 PM
Subject: Re: East Chicago Sequential water sampling

Ex. 5 - Attorney Client

From: Fulghum, Mary
Sent: Thursday, April 6, 2017 8:28 AM
To: Deltoral, Miguel; Poy, Thomas; Bair, Rita; Bosscher, Valerie; Porter, Andrea
Subject: Re: East Chicago Sequential water sampling

Ex. 5 - Attorney Client

From: Deltoral, Miguel
Sent: Thursday, April 6, 2017 8:12 AM
To: Fulghum, Mary; Poy, Thomas; Bair, Rita; Bosscher, Valerie; Porter, Andrea
Subject: Fw: East Chicago Sequential water sampling

See email below from Jacob on sequential sampling in EC.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Tuesday, April 4, 2017 12:43 PM
To: Donnelly, Peggy; Hassan, Jacob; Maraldo, Dean
Cc: Drexler, Timothy; Haag, Daniel; Bosscher, Valerie; Porter, Andrea
Subject: Re: East Chicago Sequential water sampling

I did not know they had decided on that, but I am certainly more than willing to help in any way I can.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Donnelly, Peggy
Sent: Tuesday, April 4, 2017 12:34 PM
To: Hassan, Jacob; Deltoral, Miguel; Maraldo, Dean
Cc: Drexler, Timothy; Haag, Daniel
Subject: RE: East Chicago Sequential water sampling

Thanks for the heads up. I wasn't aware of this. Although Miguel may already be in the loop? Miguel, let me know if you need any help.

Peg Donnelly

U.S. EPA, R5, Water Division

77 W Jackson Blvd

Chicago IL 60604

312.886.6109 office

312.914.4794 cell

donnelly.peggy@epa.gov

From: Hassan, Jacob
Sent: Tuesday, April 04, 2017 12:50 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Cc: Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>
Subject: East Chicago Sequential water sampling

Hi Miguel, Peg and Dean,

Tim Drexler and I were on a call with Greg Crowley yesterday. He informed us that the City of East Chicago is planning on doing a follow up round of sequential water sampling at the homes we did in Zones 2 and 3 last year. I wasn't sure if you knew about this or not, so I'm passing it along. They may be reaching out to you for some assistance on the process and procedures related to the sampling.

Thanks,

Jacob

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Fulghum, Mary
Sent: Thur 4/6/2017 1:28:20 PM
Subject: Re: East Chicago Sequential water sampling

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Sent: Thursday, April 6, 2017 8:12 AM
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Chicago, IL 60604
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Peg Donnelly

U.S. EPA, R5, Water Division

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Chicago IL 60604

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312.914.4794 cell

donnelly.peggy@epa.gov

From: Hassan, Jacob
Sent: Tuesday, April 04, 2017 12:50 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Cc: Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>
Subject: East Chicago Sequential water sampling

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Thanks,

Jacob

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

April 3, 2017

Robert Kaplan
Acting Region 5 Administrator
Environmental Protection Agency
Mail Code: R-19J
77 W. Jackson Boulevard
Chicago, IL 60604

Re: EPA Petition

Dear Mr. Kaplan:

On March 2, 2017, Petitioners, Calumet Lives Matter; We the People for East Chicago; East Chicago Calumet Coalition Community Advisory Group (the "CAG"); Community Strategy Group; the Hoosier Environmental Council; Duneland Environmental Justice Alliance; Northwest Indiana Federation of Interfaith Organizations; The Twin City Minister Alliance of East Chicago; Greater First Baptist Church of East Chicago; Antioch Network of Church & Ministries; League of United Latin American Citizens—Indiana Council ("LULAC"); NAACP / NAACP Indiana State Conference Environmental and Climate Justice Program; National Nurses United; Loyola University Chicago School of Law's Health Justice Project; the Sargent Shriver National Center on Poverty Law (the "Shriver Center"); University of Chicago Law School's Abrams Environmental Law Clinic; Northwestern University Pritzker School of Law's Environmental Advocacy Clinic; and the Natural Resources Defense Council ("NRDC") initiated an action calling upon EPA to use its emergency powers under the Safe Drinking Water Act ("SDWA" or the "Act"), 42 U.S.C. § 300i, to take action to abate the imminent and substantial endangerment to human health caused by lead contamination in East Chicago's drinking water.

Although an emergency action under the Safe Drinking Water Act is not warranted by EPA, it is very important that EPA continues to work in collaboration and support with IDEM and the City of East Chicago. On February 9, 2017, Indiana Governor Eric Holcomb issued an Executive Order for Declaration of Disaster Emergency in East Chicago. The area covered by the disaster emergency consists of 322 acres and is bounded by East Chicago Avenue on the north, East 151st Street on the south, the Indiana Harbor Canal on the west, and Parrish Avenue on the east. On March 10, 2017, Governor Holcomb extended his Executive Order for an additional 30 days.

IDEM has been working with the City of East Chicago since 1992 to address lead contamination issues in East Chicago's drinking water supply. In 1992, East Chicago exceeded the lead action level of 15 ppb. In response, IDEM required the City to add corrosion control treatment to its drinking water facility. That same year, IDEM issued a permit to East Chicago to treat its drinking water with a blended phosphate to further reduce water corrosion issues. Since adding

the blended phosphate, East Chicago's lead samples in drinking water have been within allowable guidelines of the Safe Drinking Water Act.

In May of 2009, IDEM approved a permit to add another plant to the East Chicago Water Works. This plant was constructed, tested, and placed online in 2015. In April 2016, IDEM required East Chicago to monitor for lead and copper during the months of June 1 – September 30, because of the new treatment plant. The sample result for this monitoring period for the 90th percentile for lead was 8.4 ppb, which is below the 15 ppb lead action level for drinking water safety.

On October 24th, 2016, EPA notified IDEM about EPA's East Chicago pilot study for drinking water conducted at the USS Lead Superfund site. EPA's initial sampling indicated that the residual phosphate samples taken in Zones 2 and 3 of the site showed orthophosphate residuals at 0.05 mg/L and below detection limit (BDL). As a consequence, IDEM notified East Chicago about the low orthophosphate residuals in EPA's pilot study and asked East Chicago to increase orthophosphate dosage. Increasing the orthophosphate residual levels helps coat the interior surfaces of plumbing materials and decrease the amount of lead released into the drinking water. On October 31, 2016, East Chicago's operator confirmed that the orthophosphate feed was increased in order to see higher residuals in the distribution system. East Chicago increased the orthophosphate levels to a residual of 1 mg/L in the distribution system on January 25, 2017. East Chicago is currently targeting an orthophosphate residual of at least 1 mg/L in the distribution system.

In addition to over 20 years of prophylactic measures to ensure lead abatement in East Chicago's drinking water supply, the State of Indiana, through IDEM and its sister agencies, has undertaken many measures to protect East Chicago residents from lead contaminated soils.

The Indiana State Department of Health (ISDH) hosted more than thirty (30) lead testing clinics and eleven (11) multi-agency "One-Stop-Shops" offering residents in the superfund cleanup area additional testing, immunization and other services. ISDH also provided $100,000 to the East Chicago Health Department for hiring a public health nurse and educator and another $48,000 for other staffing support. ISDH also provided supplies and training for blood testing clinics run by the East Chicago Women, Infants and Children (WIC) Clinic.

The Indiana State Department of Education (IDOE) issued a $2.8 million state disaster relief loan to help the East Chicago School District move students from the Carrie Gosch Elementary School to a vacant middle school facility.

The Indiana Housing and Community Development Authority (IHCDA) made the sum of $100,000 available for use by the East Chicago Housing Authority (ECHA) to offset relocation expenses of the most vulnerable residents of the West Calumet Housing Complex (West Calumet) in East Chicago. It also provided several members of its staff to ECHA to provide support for the relocation efforts for residents of West Calumet.

The Indiana Department of Insurance (IDOI) issued a bulletin calling for a 60-day moratorium on the cancellation of insurance policies in effect for policyholders residing in the Superfund cleanup, including a suspension of penalties for late payments by residents.

Indiana's Family and Social Services Administration's (FSSA) Division for Mental Health and Addiction provided staff with mental health expertise at the ECHA's West Calumet outreach and family day event.

The ISDH will continue to supply the East Chicago Health Department with the resources necessary to conduct free daily blood lead testing to Superfund site residents. Indiana will also increase capacity for pediatric lead screenings by expanding the reach of the Lead and Healthy Homes program. Indiana will be directing FSSA to seek funding flexibility to expand lead testing efforts throughout East Chicago and across the state.

IDEM's work continues both at the Superfund site and with regard to the drinking water issues. IDEM will undertake the following measures:

Lead Service Line Replacement
The Indiana Finance Authority (IFA) State Revolving Loan Fund (SRF) program is designed to assist communities throughout the state with subsidized loans for water and wastewater infrastructure projects. The SRF program has received and is reviewing an application from East Chicago for improvements to its drinking water infrastructure. The SRF program, in coordination with IDEM, will provide funding to East Chicago to replace all lead service lines in Zones 2 and 3 of the Superfund site. Additionally, it is IDEM's understanding that Mayor Copeland has agreed to the IFA plan to coordinate the service line replacement with the USEPA soil remediation activities in the Superfund site. Indiana will work to coordinate these activities with remediation activities so as to expedite completion of the work and minimize disruptions.

Provision of Water Filters
The city of East Chicago has been in full compliance with EPA's "Lead and Copper Rule" since 1993, and the city currently meets all applicable federal and state rules on lead and copper in drinking water. However, because EPA is planning to resume soil excavation work in Zones 2 and 3, which could affect lead levels in drinking water at residences where the excavation is taking place, IDEM, out of an abundance of caution for the residents in the Superfund area, will provide filters with two additional filter cartridges, for homes in Zones 2 and 3.

Independent Water Testing
In an effort to address the concerns of East Chicago residents, IDEM will conduct testing to verify that the City of East Chicago's water supply is in full compliance with the Safe Drinking Water Act's Lead and Copper Rule. IDEM's testing will expand beyond the required compliance area East Chicago has tested in the past to ensure a more widespread area that is defined by East Chicago's distribution system, specifically customers connected to East Chicago's water system, are covered. IDEM is undertaking this measure to ensure that the additional sample sites are representative for the entire city of East Chicago. Additionally, IDEM will test to determine orthophosphate levels in the water system. This testing, combined with the provision of water filters and lead line replacements in the Superfund area, will reassure residents that drinking water is safe system-wide.

School Water Testing
The IFA, as part of its environmental programs division, has launched a lead sampling program offering drinking water sampling to all Indiana public school districts, including East Chicago. The sampling program is free to participating Indiana public schools and will test water source fixtures in a variety of public school facilities. The IFA and IDEM will work with the school districts to map out appropriate next steps in the event of elevated sample results. To participate

in this program, the IFA requests that the school district complete a questionnaire that enables the IFA to prioritize the sampling needed. The questionnaire is available at http://www.surveygizmo.com/s3/3254166/Lead-Sampling-Program-Request-for-Information.

The provision of safe drinking water to East Chicago and all Hoosiers throughout our state has long been a priority. Based upon the information asserted above, a federal emergency declaration is not warranted. However, it is imperative, as we move forward with lead line replacement, provision of filters in zones 2 and 3 of the Superfund site, and testing in schools and homes, that IDEM can rely on the continued collaborative relationship with EPA and with the City of East Chicago and its citizens.

Sincerely,

Bruno L. Pigott
Commissioner

cc: Nancy King, IDEM
Martha Clark-Mettler, IDEM
Mary Hollingsworth, IDEM

To: Bassler, Rachel[Bassler.Rachel@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]
From: Rowan, Anne
Sent: Tue 3/28/2017 4:48:49 PM
Subject: RE: Media questions -- East Chicago water

Bob asked for specific revisions that I'm making. I'll send them to you shortly for fact checking /correction, as needed. Please stand by.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Bassler, Rachel
Sent: Tuesday, March 28, 2017 11:46 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: Re: Media questions -- East Chicago water

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(I'm on the road with him in Wisconsin).

Rachel Bassler

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

Sent from my iPhone

On Mar 28, 2017, at 11:43 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

See suggested revisions below - underlined.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Tuesday, March 28, 2017 11:27 AM
To: Poy, Thomas; Deltoral, Miguel; Bair, Rita; Porter, Andrea
Cc: Bassler, Rachel
Subject: RE: Media questions -- East Chicago water

Hey Gang:

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Thanks.

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Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

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Cc: Bassler, Rachel <Bassler.Rachel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
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USEPA - Region 5

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Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
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Ex. 5 - Deliberative Process

Hollingsworth's Jan. 5, 2017, email also says "IDEM has always felt that working closely with EPA on drinking water issues is extremely important and we will continue to work with EPA, but because of the this situation and the way it was handled and is still being handled, our close working relationship had been compromised."

Q: Has EPA responded to this email?

Ex. 5 - Deliberative Process

Q: Isn't it important for residents to know -- regardless of whether the city is in compliance with the Lead and Copper Rule -- that they have elevated lead levels in their drinking water?

Ex. 5 - Deliberative Process

It appears EPA, IDEM and the city had been working on draft FAQs to hand out at an open house regarding lead in drinking water when Mayor Anthony Copeland suddenly upended that process by announcing water sampling results in an open letter.

Q: Were the parties initially planning to announce water testing results at a Dec 10 open house?

Ex. 5 - Deliberative Process

Emails from Miguel Del Toral and Andrea Porter on Oct. 25, 2016, say, the operator confirmed "the numbers on the MOR are orthophosphate." IDEM's Mary Hollingsworth provided an update in October that said the city was "increasing orthophosphate feed to 1 ppm leaving the plant. Their target residuals in the distribution system is now 0.75 to 1 ppm."

Q: can EPA clarify what this means? Are the numbers on the city's MORs total phosphate (total P) or orthophosphate (PO4)? Was East Chicago measuring the total amount of orthophosphate it was feeding?

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Monday, March 27, 2017 02:48 PM
To: Poy, Thomas
Cc: Bassler, Rachel; Deltoral, Miguel; Bair, Rita; Porter, Andrea; Kelley, Jeff; Rowan, Anne; Kaplan, Robert
Subject: RE: Media questions -- East Chicago water

Tom –

Please work with your team and Rachel to respond to these Qs. I expect Rachel already has, but I'm copying Jeff, Anne and Bob so they can see the general nature of some of the inquiries.

Some of these issues pre-date me, but let me know if/how I can assist.

Thanks.

From: Bassler, Rachel
Sent: Monday, March 27, 2017 2:33 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: Media questions -- East Chicago water

All,

We received questions from the Northwest Indiana Times regarding our FOIA'd emails. Are these questions we can respond to? Or would it be better to send a statement? Her deadline is

Wednesday morning.

From the reporter: I have a list of questions regarding correspondence regarding East Chicago drinking water that I recently obtained through a FOIA request with EPA. Do you think you can get me answers and/or provide a statement by Wednesday morning?

Emails show EPA officials in August 2016 were aware of a 2002 paper titled "Effect of Phosphate Inhibitors on Lead Release From Pipes," written by Marc Edwards and Laurie McNeill, that concluded "Hexametaphosphate generally increased soluble lead release over a broad range of water qualities," and further stated, "Utilities should consider these adverse effects whenever polyphosphate is used to prevent scaling or iron precipitation; in fact, polyphosphates cannot be recommended for lead corrosion control." The emails, which were linked to an email from IDEM's Mary Hollingsworth confirming East Chicago was using sodium hexametaphosphate. EPA's Rita Bair emailed IDEM's Mary Hollingsworth Aug. 18, saying, "We need to find out if East Chicago is adding some kind of orthophosphate for CCT beyond the polyphosphate addition." Hollingsworth responded Aug. 19 by sending EPA an information sheet for a chemical called Carus 8600. It appears East Chicago started using Carus 8600 on Sept. 6, according to an email in the Virtual File Cabinet. A city engineering report says the city changed chemicals in September 2016 "under recent guidance from IDEM."

Q: Did IDEM ask East Chicago to use the ortho-polyphosphate blend Carus 8600 at the urging of EPA?

Virginia Tech professor Marc Edwards said, "While the new chemical 8600 is better than sodium hexametaphosphate, I think they could do better with just orthophosphate."

Q: Does EPA have a response to that statement?

Internal EPA emails in August 2016 also showed employees were aware of a 2005 American Water Works Association report titled "Managing Change and Unintended Consequences: Lead and Copper Rule Corrosion Control Treatment." The report discusses several factors that may have been at play in East Chicago, including the change to membrane filtration, blending finished waters and changing corrosion control chemicals.

Q: What steps, if any, did EPA take to investigate whether any of the factors mentioned above might be affecting quality, including lead levels, in East Chicago's water?

An email from IDEM's Mary Hollingsworth to EPA's Thomas Poy on Jan. 5, 2017, took issue with "misinformation" in a letter EPA's Robert Kaplan wrote to Sen. Donnelly (I believe this to be a letter written to Rep. Pete Visclosky based on content of the letter described by Hollingsworth). The first point Hollingsworth discusses is the 15 ppb action level. The letter

explains the sampling required under the Lead and Copper Rule, and Hollingsworth goes on to say results above the action level in EPA's sequential sampling do not indicate an issue with East Chicago's compliance or IDEM's implementation and oversight, but might indicate an issue with the Lead and Copper Rule.

Q: Residents, environmental groups and experts agree that "any results over 15 ppb would be a major cause for concern." Does EPA agree with that statement?

Q: Does EPA have any updates on its previously stated intention to update the Lead and Copper Rule?

Q: Hollingsworth's Jan. 5 email says low orthophosphate levels found in the Superfund site are the result of low water flows because of dead-end lines near railroad tracks. It appears IDEM is taking a position that the low orthophosphate levels found in the Superfund site are a localized issue, not a systemwide issue as EPA has previously stated.

Q: Does EPA have any response to that?

IDEM has stated the mass relocation of people from the West Calumet Housing Complex also could results in lower orthophosphate residuals in the Superfund site.

Q: What steps, if any, has EPA taken to protect residents in the Superfund site from this possible exposure?

Hollingsworth's Jan. 5, 2017, email also says "IDEM has always felt that working closely with EPA on drinking water issues is extremely important and we will continue to work with EPA, but because of the this situation and the way it was handled and is still being handled, our close working relationship had been compromised."

Q: Has EPA responded to this email?

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Q: Were the parties initially planning to announce water testing results at a Dec 10 open house?

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Q: can EPA clarify what this means? Are the numbers on the city's MORs total phosphate (total P) or orthophosphate (PO4)? Was East Chicago measuring the total amount of orthophosphate it was feeding?

To: Korleski, Christopher[korleski.christopher@epa.gov]; Guerriero, Margaret[guerriero.margaret@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Nelson, Leverett[nelson.leverett@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Short, Thomas[short.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Fulghum, Mary[fulghum.mary@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Massie, William[Massie.William@epa.gov]; Sanders, Amy[Sanders.Amy@epa.gov]; Heise, Claudea[heise.claudea@epa.gov]; Marquardt, Steve[marquardt.steve@epa.gov]; Baltazar, Debbie[baltazar.debbie@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]
From: Cannon, Phillippa
Sent: Wed 3/22/2017 3:02:00 PM
Subject: RE: USS LEAD: Current Issues from a WD Perspective: For Deliberative Purposes Only

Ex. 5 - Deliberative Process

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Korleski, Christopher
Sent: Wednesday, March 22, 2017 9:31 AM
To: Guerriero, Margaret <guerriero.margaret@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Massie, William <Massie.William@epa.gov>; Sanders, Amy <Sanders.Amy@epa.gov>; Heise, Claudea <heise.claudea@epa.gov>; Marquardt, Steve <marquardt.steve@epa.gov>; Baltazar, Debbie <baltazar.debbie@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>

Subject: FW: USS LEAD: Current Issues from a WD Perspective: For Deliberative Purposes Only

USS Lead Team – Here is Miguel's update on the pilot study and his thoughts on flushing. If this raises Qs, issues or concerns, please advise all parties.

Thanks.

From: Deltoral, Miguel
Sent: Wednesday, March 22, 2017 5:58 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Re: USS LEAD: Current Issues from a WD Perspective: For Deliberative Purposes Only

Hi Chris,

I'm getting ready to head out to Lansing today but wanted to provide a brief update on two of the issues:

Issue 3: What is the status of the results of the WD Pilot study?

Ex. 5 - Deliberative Process

Issue 4: WD has recommended that SFD work with residents to undertake certain practices during the excavation/LSL replacement phase.

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Tuesday, March 21, 2017 05:45 PM
To: Guerriero, Margaret; Ballotti, Doug; Henry, Timothy; Nelson, Leverett; Alcamo, Thomas; Short, Thomas; Drexler, Timothy; Fulghum, Mary; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Donnelly, Peggy; Bosscher, Valerie; Cannon, Phillippa; Kelley, Jeff; Bassler, Rachel; Massie, William; Sanders, Amy; Heise, Claudea; Marquardt, Steve; Baltazar, Debbie; Rowan, Anne; Korleski, Christopher
Cc: Kaplan, Robert; Newton, Cheryl
Subject: USS LEAD: Current Issues from a WD Perspective: For Deliberative Purposes Only

Hey Folks:

Today's USS Lead weekly meeting was very helpful. In an attempt to make sure everyone is aware of the ongoing joint SFD-WD issues, I wanted to set forth my current understandings, questions and concerns about where we are and where we're going based on today's meeting. Feel free to correct, amend, disagree with, etc., what I have put down here and feel free to address/respond to the issues noted with a cc to all parties. The whole point here is to make sure we all get on the same page with respect to: 1) **what has to be done**; and 2) **who has to**

do it as SFD moves closer to starting the excavation/LSL replacement work.

Finally, I'm sure I've overlooked folks (especially SFD folks whose names I haven't learned yet) , so please share with any appropriate EPA personnel. This is for internal deliberative use only.

Issue 1: Will SFD's excavation work be dovetailed with the LSL replacement work?

Ex. 5 - Deliberative Process

Issue 2: What's up with filters?

Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Issue 4: WD has recommended that SFD work with residents to undertake certain practices during the excavation/LSL replacement phase.

Ex. 5 - Deliberative Process

Issue 5: You tell me!

Thanks.

Chris

To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Korleski, Christopher
Sent: Wed 3/22/2017 11:25:21 AM
Subject: Re: USS LEAD: Current Issues from a WD Perspective: For Deliberative Purposes Only

Thanks, Miguel. I'll share this with
everyone so everyone is up to speed on the study and so everyone understands the thought behind the proposed flushing approach.

Sent from my iPhone

On Mar 22, 2017, at 5:57 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

Hi Chris,

I'm getting ready to head out to Lansing today but wanted to provide a brief update on two of the issues:

Issue 3: What is the status of the results of the WD Pilot study?

We have started going through the data site by site. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Issue 4: WD has recommended that SFD work with residents to undertake certain practices during the excavation/LSL replacement phase.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Tuesday, March 21, 2017 05:45 PM
To: Guerriero, Margaret; Ballotti, Doug; Henry, Timothy; Nelson, Leverett; Alcamo, Thomas; Short, Thomas; Drexler, Timothy; Fulghum, Mary; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Donnelly, Peggy; Bosscher, Valerie; Cannon, Phillippa; Kelley, Jeff; Bassler, Rachel; Massie, William; Sanders, Amy; Heise, Claudea; Marquardt, Steve; Baltazar, Debbie; Rowan, Anne; Korleski, Christopher
Cc: Kaplan, Robert; Newton, Cheryl
Subject: USS LEAD: Current Issues from a WD Perspective: For Deliberative Purposes Only

Hey Folks:

Today's USS Lead weekly meeting was very helpful. In an attempt to make sure everyone is aware of the ongoing joint SFD-WD issues, I wanted to set forth my current understandings, questions and concerns about where we are and where we're going based on today's meeting. Feel free to correct, amend, disagree with, etc., what I have put down here and feel free to address/respond to the issues noted with a cc to all parties. The whole point here is to make sure we all get on the same page with respect to: 1) **what has to be done**; and 2) **who has to do it** as SFD moves closer to starting the excavation/LSL replacement work.

Finally, I'm sure I've overlooked folks (especially SFD folks whose names I haven't learned yet) , so please share with any appropriate EPA personnel. This is for internal deliberative use only.

Issue 1: Will SFD's excavation work be dovetailed with the LSL replacement work?

Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

Issue 4: WD has recommended that SFD work with residents to undertake certain practices during the excavation/LSL replacement phase.

Ex. 5 - Deliberative Process

Issue 5: You tell me!

Thanks.

Chris

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Drexler, Timothy[drexler.timothy@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Tue 3/21/2017 5:14:20 PM
Subject: Re: EC Filters

Thank you kindly, Peg!

Just talked to Mary and yes, they would get the extra cartridges as well.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Donnelly, Peggy
Sent: Tuesday, March 21, 2017 11:17 AM
To: Deltoral, Miguel
Cc: Drexler, Timothy; Hassan, Jacob; Bosscher, Valerie; Porter, Andrea; Maraldo, Dean
Subject: Re: EC Filters

Forgot to mention, contractor purchased filters for about $ each. I've seen them online as low as $15, but the state/ city can probably get a bulk discount. I would recommend they leave folks a couple extra cartridges if they can.

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

On Mar 21, 2017, at 10:59 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

Hi all,

I got a call from Mary Hollingsworth asking what the make(s)/model(s) of the filters

were that were given to zone 2 & zone 3 residents. They are looking into filters and would like to provide the same ones.

Also in case you haven't already seen this: "Gov. Holcomb: Water filters a priority for East Chicago", the IN Gov is saying they are looking at coordinating LSLR in zones 2 and 3 with EPA.

In Holcomb's letter, he said the Indiana Finance Authority has committed to making available a below-market interest loan to the city through the state's Revolving Loan Fund for lead line replacement. The IFA will also pay for pipe replacement at homes in zones 2 and 3 where soil removal is planned this year and where the EPA pilot sampling showed elevated lead levels.

The IFA, city and EPA will coordinate lead line replacement with soil excavation, the letter stated.

Among the top priorities, Holcomb said IDEM also will conduct water sampling at private homes throughout the city. Compliance with the Lead and Copper Rule is not determined through sequential sampling, but samples must be taken at individual taps, IDEM said.

The CAG in a letter to Holcomb argued sequential testing is the "best way to determine whether lead in the service lines is entering the water."

The CAG said members believe the city's request for $5 million for water infrastructure replacement in public buildings, including City Hall, and $2.7 million for legal fees amid lawsuits against the city, is inappropriate. That money, the group said, would be more appropriate for residents' most urgent needs.

"If the State has the ability to dedicate (funding) as requested for those purposes, it should instead use those funds to improve outcomes for residents who have suffered serious health consequences and loss in property value due to no fault of their own," the CAG said.

Link → http://www.nwitimes.com/news/local/lake/gov-holcomb-water-filters-a-priority-for-east-chicago/article_99a9a671-9b1c-52c3-ab5f-a5b7604928c6.html

Gov. Holcomb: Water filters a priority for East Chicago
www.nwitimes.com

EAST CHICAGO — G
office has begun wo
such as providing w

[redacted]

[FLINT]
Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

Chicago Water is Safe

Chicago water is safe and meets or exceeds all regulatory standards set by the USEPA and the Illinois EPA. We have a proven corrosion control program to minimize lead leaching into the water. Research is ongoing about the impact of water main replacement on lead levels.

Now that your old water main has been replaced and you have been connected to your new water main, (1) please find the closest available tap to where the water comes into the home that is not used for drinking water (such as an outside hose bib, laundry sink or bathtub) to flush any lead-containing particles out of the plumbing. (2) Fully open the cold water tap and let the water run for at least 5 minutes. The key is to pick the closest faucet not used for drinking that would result in the least amount of sediment and metals coming into the home plumbing. (3) Move to the next highest floor (1st, 2nd, 3rd) and repeat flushing for at least 5 minutes. Sediment and metals can collect in the aerator screen located at the tip of your faucets. These screens should be removed prior to flushing.

This flushing will help maintain optimum water quality by removing sediment, rust, or any lead particulates that may have come loose from your property's water service line as a result of the water main replacement. If you have any questions or concerns about your water quality, please call us at 312.742.7499.

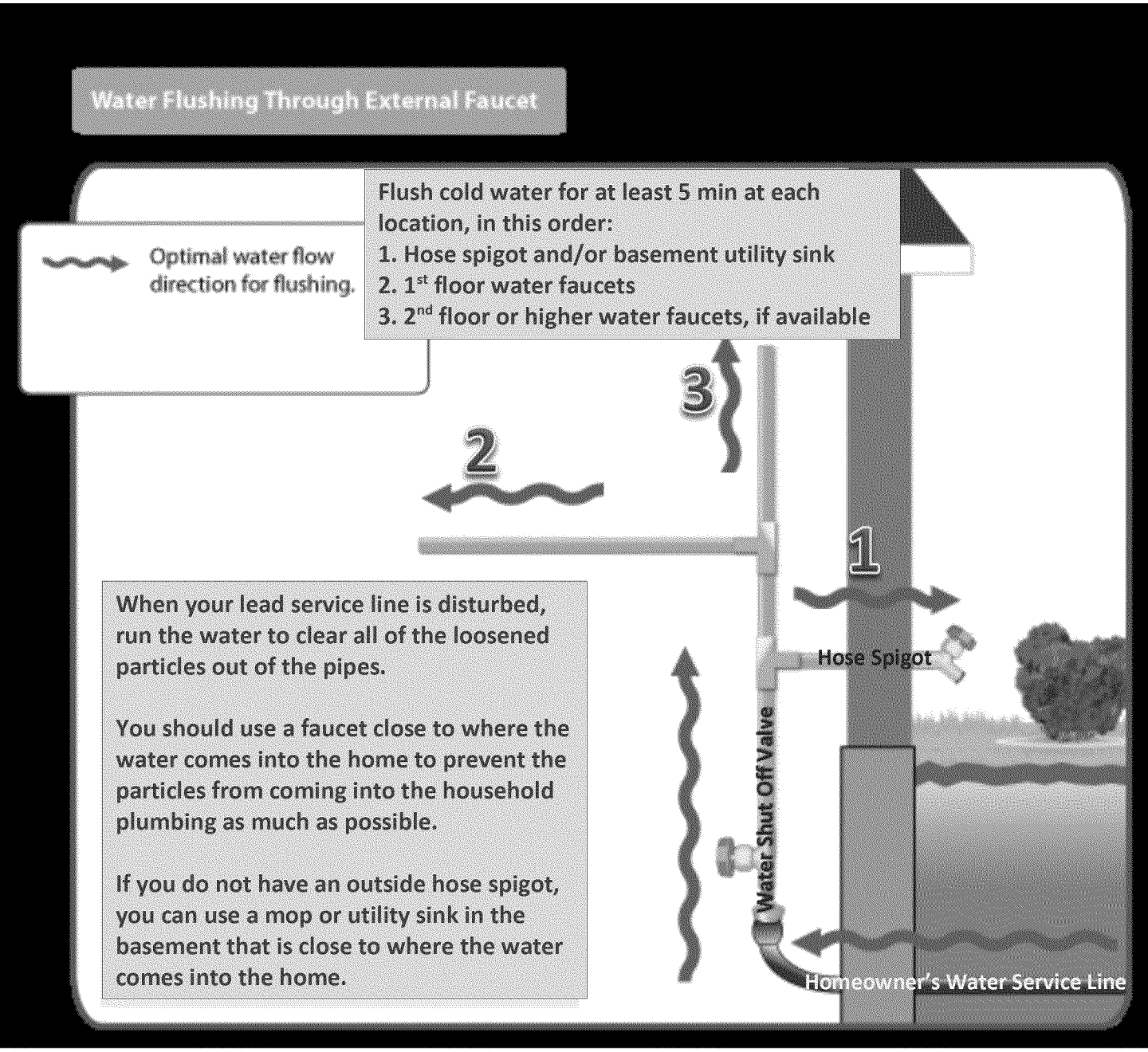
Agua de Chicago es Segura

Agua de Chicago es segura y cumple o supera todos los estándares regulatorios establecidos por la USEPA y la EPA de Illinois. Tenemos un programa de control de la corrosión probado para reducir la lixiviación de plomo en el agua. Investigación está en curso sobre el impacto del reemplazo de la cañería de agua en los niveles de plomo.

Ahora que su vieja cañería de agua ha sido reemplazada y ha sido conectada a su cañería de agua nueva, (1) por favor, encontrar el grifo disponible más cercano a donde el agua entra en el hogar que no se utiliza para el agua potable (por ejemplo, una manguera exterior) lavadero, fregadero o bañera) para eliminar cualquier partículas de plomo de las cañerías. (2) Abra completamente el grifo de agua fría y deje correr el agua por al menos 5 minutos. La clave es escoger el grifo más cercano no utilizado para beber resultaría en la menor cantidad de sedimentos y metales en la plomería casera. (3) Pasar a la siguiente máxima del piso (1º, 2º, 3º) y repita el lavado durante al menos 5 minutos. Sedimentos y metales se pueden acumular en la pantalla el aireador ubicada en la punta de sus grifos. Estas pantallas deben eliminarse antes del lavado.

Este lavado ayudará a mantener la calidad del agua óptima mediante la eliminación de sedimentos, herrumbre o cualquier partículas de plomo que pueden se han soltado de la línea de servicio de agua de su propiedad como resultado de la reemplazando de la cañería de agua. Si usted tiene alguna pregunta o inquietud sobre la calidad del agua, por favor llámenos al 312.742.7499.

How to flush your home plumbing after your water main has been replaced



To: Baltazar, Debbie[baltazar.debbie@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Marquardt, Steve
Sent: Tue 3/14/2017 8:51:32 PM
Subject: FW: Governor Eric Holcomb - East Chicago Superfund Site

Steve Marquardt

USEPA Region 5

77 West Jackson Blvd

Chicago, Illinois 60604

(312)353-3214

From: Grevatt, Peter
Sent: Tuesday, March 14, 2017 3:36 PM
To: Shapiro, Mike <Shapiro.Mike@epa.gov>
Cc: Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; Campbell, Ann <Campbell.Ann@epa.gov>; Hogan, Joanne <Hogan.Joanne@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Best-Wong, Benita <Best-Wong.Benita@epa.gov>
Subject: Re: Governor Eric Holcomb - East Chicago Superfund Site

Ex. 5 - Attorney Client

Financial assistance under this section may be

used by a public water system only for expenditures (not including

monitoring, operation, and maintenance expenditures)

of a type or category which the Administrator has determined,

through guidance, will facilitate compliance with national primary

drinking water regulations applicable to the system

under section 1412 or otherwise significantly further the

health protection objectives of this title.

The SDWA mandates priority for use of funds be given to projects that:

1. **Address the most serious risk to human health;**
2. Are necessary to ensure compliance with the requirements [of SDWA]
3. Assist systems most in need on a per household basis according to State affordability criteria.

Thanks to Joanne and our DWSRF team for their quick work on this. Please let me know if you need more.

Sent from my iPhone

To: Bair, Rita[bair.rita@epa.gov]
From: Spaulding, William
Sent: Fri 3/10/2017 5:05:37 PM
Subject: FW: Indiana Lead (b)(3) system follow up

How do you want to proceed with the IN EOY?

From: Spaulding, William
Sent: Friday, March 10, 2017 8:08 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: Indiana Lead (b)(3) system follow up

My impression is **Ex. 5 - Deliberative Process**
Ex. 5 - Deliberative Process

From: Bair, Rita
Sent: Friday, March 10, 2017 7:50 AM
To: Spaulding, William <spaulding.william@epa.gov>
Subject: RE: Indiana Lead (b)(3) system follow up

That sounds good. However, based on what you wrote, I believe **Ex. 5 - Deliberative Process**
Ex. 5 - Deliberative Process

From: Spaulding, William
Sent: Thursday, March 09, 2017 6:09 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: Indiana Lead (b)(3) system follow up

Rita:

I seem to recall a meeting which involved Joe Janczy, Janet Kuefler and the other SPMs around mid-November where it was discussed that no states were following up on Tier 2 and 3 PN violations. I think the consensus was that just getting states to issue violations for Tier 2 and 3

violations was worthy of a schedule date. On 11/7 Wendy said in an email that she had gotten OEPA to commit to issuing violations against Tier 2 and 3 PN violators by the end of FY 18. IDEM already issues PN violations for Tier 2 and 3 PNs, so they are ahead of other states.

On 11/21 I asked Mary to define "late reporting" as a result of discussions and to get clarification. Mary Hollingsworth replied in an 11/21 email that IDEM considers any time after the 10th of the month to be "late". They will not count systems in violation as long as the actual monitoring was done within the compliance period. I have not gotten the impression that IDEM has experienced long wait times in receiving results such as is the case with other states, and hence it was not considered an issue in Indiana. However, I think it is an issue that we could explore during the DV next year.

Bill

From: Bair, Rita
Sent: Wednesday, March 1, 2017 9:11:15 AM
To: Spaulding, William
Cc: Poy, Thomas; Kuefler, Janet; Sulej, Erik
Subject: RE: Indiana Lead (b)(3) system follow up

Bill, I am reviewing the IN EOY cover letter and based on Mary's email from November 2016 they identify 3 areas of temporary disinvestment.

- Not following up on Tier 2 and 3 PN violations

- Not issuing M/R violations for late reporting

- Setting Optimal Water Quality Parameters (OWQP) for all small and medium sized systems after a lead or copper AL exceedance. Tracking (b)(3) systems on if the tap sampling and source water sampling is the difference between the 90th percentile tap lead level and the highest source lead level is less

  than PQL. We will start setting parameters for systems that install phosphate treatment, adjust pH, and/or adjust Alkalinity levels in response to exceedance.

Ex. 5 - Deliberative Process

From: Spaulding, William
Sent: Wednesday, January 11, 2017 3:22 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: Indiana Lead (b)(3) system follow up

Rita:

Are you in agreement with what Janet recommends?

Bill

From: Bair, Rita
Sent: Wednesday, January 11, 2017 3:05:38 PM
To: Kuefler, Janet
Cc: Spaulding, William
Subject: RE: Indiana Lead (b)(3) system follow up

Yes, This was on my to-do list to talk to Bill. Bill, let me know if you want to discuss further.

From: Kuefler, Janet
Sent: Wednesday, January 11, 2017 2:58 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Spaulding, William <spaulding.william@epa.gov>
Subject: FW: Indiana Lead (b)(3) system follow up

Hi Rita—

Because IDEM already has their PWSS grant approved, I think Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Is this your expectation for next steps? Please advise.

Thanks,

Janet

From: Spaulding, William
Sent: Wednesday, January 11, 2017 2:15 PM
To: Kuefler, Janet <kuefler.janet@epa.gov>
Subject: Fw: Indiana Lead (b)(3) system follow up

Here's the latest correspondence with IDEM on this topic. Looks like they have a plan in place.

From: Spaulding, William
Sent: Wednesday, November 23, 2016 2:02 PM
To: Hollingsworth, Mary
Cc: Kuefler, Janet; Bair, Rita; Porter, Andrea; Poy, Thomas
Subject: Indiana Lead (b)(3) system follow up

Mary:

Thanks for the clarification and your plan for addressing this program need.

Happy Thanksgiving!

Bill

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Wednesday, November 23, 2016 1:57 PM
To: Spaulding, William <spaulding.william@epa.gov>
Subject: RE: PWSS Program Implementation Check up

Under the lead and copper rule, large systems that met the (b)(3) criteria were deemed optimized with regards to corrosion control. At the Corrosion Control training in late September in Chicago, we were informed that we needed to re-evaluate each (b)(3) system every time they sample to ensure they still meet the criteria. Since that hasn't been done since they were deemed optimized in 1995 , we will begin re-evaluating those systems and setting OWQCP as needed.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Spaulding, William [mailto:spaulding.william@epa.gov]
Sent: Tuesday, November 22, 2016 4:55 PM
To: Hollingsworth, Mary
Subject: RE: PWSS Program Implementation Check up

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary, could you give me further detail on this statement? What do you mean by "tracking"? I don't think you have to track (b)(3) systems under this scenario. Could you explain why you think that this statement defines a program requirement that you are not currently implementing?

Your response: Tracking (b)(3) systems on if the tap sampling and source water sampling is the difference between the 90th percentile tap lead level and the highest source lead level is less than PQL. We will start setting parameters for systems that install phosphate treatment, adjust pH, and/or adjust Alkalinity levels in response to exceedance.

Bill

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Monday, November 21, 2016 9:31 AM
To: Spaulding, William <spaulding.william@epa.gov>
Subject: RE: PWSS Program Implementation Check up

Any time after the 10th of the month following the month before they sampled that is considered late. As long as the information comes into us there is no time limit just as long as they monitor when they are supposed to.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Spaulding, William [mailto:spaulding.william@epa.gov]
Sent: Monday, November 21, 2016 9:53 AM
To: Hollingsworth, Mary
Subject: RE: PWSS Program Implementation Check up

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary:

Thanks for the recent response.

Could you define what you consider to be late reporting? How "late" is late?

Bill

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Wednesday, November 02, 2016 2:07 PM

To: Spaulding, William <spaulding.william@epa.gov>
Subject: RE: PWSS Program Implementation Check up

This is our list.

- Not following up on Tier 2 and 3 PN violations
- Not issuing M/R violations for late reporting
- Setting Optimal Water Quality Parameters (OWQP) for all small and medium sized systems after a lead or copper AL exceedance. Tracking (b)(3) systems on if the tap sampling and source water sampling is the difference between the 90th percentile tap lead level and the highest source lead level is less than PQL. We will start setting parameters for systems that install phosphate treatment, adjust pH, and/or adjust Alkalinity levels in response to exceedance.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Spaulding, William [mailto:spaulding.william@epa.gov]

Sent: Tuesday, November 01, 2016 12:29 PM
To: Hollingsworth, Mary
Subject: PWSS Program Implementation Check up

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary

Tom Poy has asked each of the State Program Managers to prepare a list of "temporary disinvested" activities for each R5 State. A temporarily disinvested activity is an activity that the State is not doing, but is nevertheless required by the regulations to do. In the past we have allowed the states to simply state that they were not doing activities because they had limited resources and that not doing so did not present a significant public health risk. The climate has shifted to where upper level management wants to know if there are any parts of the program that are not being implemented and for those activities, see a plan from the State which discloses what they intend to do to correct that program deficiency.

I know that in the past, IDEM has replied to the ARDP requirements with such responses. Some common themes that we are hearing is that states are typically not doing one or more of the following:

- Not following up on Tier 2 and 3 PN violations
- Not issuing M/R violations for late reporting
- Not reviewing the content of CCRs for accuracy

Are there any such parts of your program which would currently qualify as "temporary disinvestments" from a fully implemented PWSS program?

Bill

To: Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]
From: Deltoral, Miguel
Sent: Thur 3/9/2017 7:34:31 PM
Subject: Re: Discuss East Chicago lead results impacted by excavation

Nothing new to report.

We were scheduled to start work on it this past Monday, but **Ex. 6 - Personal Privacy** Ex. 6 - Personal Privacy so I've only worked part time this week, mostly on firedrills and the LCR revisions. In my absence, Val has been compiling the missing data that SF sent us recently so I am hopeful that we can start up next week.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Thursday, March 9, 2017 01:29 PM
To: Deltoral, Miguel
Cc: Henry, Timothy; Poy, Thomas; Bair, Rita; Kaplan, Robert
Subject: RE: Discuss East Chicago lead results impacted by excavation

Hey Miguel:

On a call with HQ yesterday on East Chicago, one of the transition team folks was asking about the pilot study in East Chicago. He expressed great interest in our conclusion from the study. Can you please give me an update? Thanks.

Chris

From: Ballotti, Doug
Sent: Thursday, March 09, 2017 1:12 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Guerriero, Margaret <guerriero.margaret@epa.gov>
Subject: FW: Discuss East Chicago lead results impacted by excavation

Chris,

Can you, Margaret, and I discuss the WD recommendations below.

Thanks. Doug

From: Bosscher, Valerie
Sent: Thursday, March 09, 2017 11:57 AM
To: Haag, Daniel <Haag.Daniel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Canar, John <canar.john@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Adler, Kevin <adler.kevin@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>
Subject: RE: Discuss East Chicago lead results impacted by excavation

Hi Dan,

Thanks for asking about whether the flushing should be a daily activity. I just talked to Miguel, and he had some additional recommendations for inclusion into the post-excavation flushing protocols:

Ex. 5 - Deliberative Process

Please let us know if you have additional questions. Thanks,

-Val

From: Haag, Daniel
Sent: Tuesday, March 07, 2017 8:52 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Canar, John <canar.john@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Adler, Kevin <adler.kevin@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>
Subject: RE: Discuss East Chicago lead results impacted by excavation

Thanks for the info, Val.

Tim, Jacob, and I had a meeting yesterday afternoon to discuss our upcoming construction season at USS Lead. We will be incorporating this "post-excavation flushing" into our work plans for this season. Last year residents were provided bottled water for use during our excavation as a part of the tap water pilot study, and since the pilot study will not be continued to our work this construction season, will the line flushing described in your attachments need to be performed at the conclusion of each day that we conduct excavation and/or backfill work at a property? Residents were provided bottled water last year for use during our excavation as a part of the tap water pilot study.

Thx

Dan

From: Bosscher, Valerie
Sent: Monday, March 06, 2017 12:13 PM
To: Bair, Rita <bair.rita@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Canar, John <canar.john@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Adler, Kevin <adler.kevin@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>
Subject: RE: Discuss East Chicago lead results impacted by excavation

Please see below for DRAFT notes from our meeting. Please comment or correct as needed.

- The meeting was intended to touch base on the status of the pilot study data analysis, so that best practices can be selected and implemented for this construction season (beginning in April).

- Attending: Andrea Porter and Val Bosscher from WD GWDWB and Tom Alcamo, Tim Drexler, Dan Haag, and John Canar from Superfund.

- John Canar has completed statistical analysis comparing "before" and "after".

- WD had requested information regarding excavation/restoration activities and "post-excavation flushing" (see email dated 12/19/2016), to help evaluate the results.

o Zone 3: Tim Drexler and SRS provided requested information last week. WD asked for clarification regarding the "Dates of Excavation" in the Zone 3 spreadsheet – i.e., does it include all site remediation activities that may possibly disturb the service pipes (our request was intended to include backfill/compaction activities)? Tim indicated that SRS will respond shortly.

o Zone 2: Dan Haag indicated he would work on gathering the information for Zone 2.

o Site 2094 has unique circumstances – service line runs beneath busy street with heavy traffic (151st Street).

- Discussion of "post-excavation flushing"

o Superfund indicated that a recommendation for flushing immediately following excavation was not conveyed prior to 2016 activities and therefore was not implemented in 2016 activities.

o Superfund indicated post-excavation flushing would be relatively easy to implement in 2017 and asked for a protocol.

▪· ***See attached as follow-up: Example post-construction flushing protocols– Miguel, please comment as needed.*** *Please see attached for the City of Chicago post-construction flushing instructions that Miguel helped advise on (5 minutes at outdoor/basement then additional 5 minutes on each floor above).*

- Discussion of filters / bottled water

o Miguel had recommended at the recent public meeting that all people with a lead service line (not just in East Chicago) should use a NSF-certified filter to protect from lead in water.

o A management decision is needed on whether EPA will pay for filters (or bottled water).

o Superfund requested a WD point of contact for technical questions about filters / bottled water. Miguel, Andrea, or Val are potential points of contact.

Thank you,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

-----Original Appointment-----
From: Bair, Rita
Sent: Thursday, March 02, 2017 12:20 PM
To: Bair, Rita; Alcamo, Thomas; Drexler, Timothy; Canar, John; Porter, Andrea; Bosscher, Valerie
Cc: Poy, Thomas; Adler, Kevin; Hassan, Jacob; Haag, Daniel
Subject: Discuss East Chicago lead results impacted by excavation
When: Monday, March 06, 2017 10:30 AM-11:00 AM (UTC-06:00) Central Time (US & Canada).
Where: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER

Call-in number: 866-299-3188

Code: 6271628

To: Fulghum, Mary[fulghum.mary@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Klassman, Debra[klassman.debra@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Deltoral, Miguel
Sent: Tue 3/7/2017 10:09:12 AM
Subject: Re: EC Additive poly-ortho blend?

Sorry for not chiming in. I was out all day yesterday and will likely be out most or all of today as well.

Under the Lead and Copper Rule, small and medium systems are considered to have optimized corrosion control if they meet the lead and copper action levels based on the prescribed first-draw sampling protocol at the worst-case sites specified in the LCR. If they meet both action levels, there is no requirement for them to install treatment.

While EC is using a blended phosphate, the effective ingredient for lead/copper control is the orthophosphate, so I included 'orthophosphate' intentionally to emphasize this because there is still confusion out there with folks thinking polyphosphate is effective for corrosion control. I don't know when EC started using the blended phosphate, since they were not required to install treatment, so if that date is important, it would have to come from the city or IDEM.

Miguel A. Del Toral
Regulations Manager
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Chicago, IL 60604
Phone: (312) 886-5253

From: Fulghum, Mary
Sent: Monday, March 6, 2017 01:38 PM
To: Poy, Thomas; Deltoral, Miguel
Cc: Klassman, Debra
Subject: RE: EC Additive poly-ortho blend?

In an earlier draft someone was asking but that question seems to have evaporated for the time being. FYI I sent a follow up to Rett that included all of the region's comments, plus OECA and OGC. He had recently finished a call with OECA and had some more comments to add to the options and was going to send that to me for distribution.

From: Poy, Thomas

Sent: Monday, March 06, 2017 1:23 PM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Klassman, Debra <klassman.debra@epa.gov>
Subject: RE: EC Additive poly-ortho blend?

I don't know when EC started using orthophosphate. As a small/medium sized system, they were not required by the LCR to do any treatment since they hadn't exceeded the action level.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Fulghum, Mary
Sent: Monday, March 06, 2017 1:07 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Klassman, Debra <klassman.debra@epa.gov>
Subject: RE: EC Additive poly-ortho blend?

Thank you I think it is correct as written then but I have follow up question:

Any idea when EC started using orthphos? Someone asked earlier?

From: Poy, Thomas
Sent: Monday, March 06, 2017 12:54 PM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Klassman, Debra <klassman.debra@epa.gov>
Subject: RE: EC Additive poly-ortho blend?

Mary: Here is an email on this subject from Miguel. It is a blend which has 70% orthophosphate.

Tom

One more time...really apologize, I'm just flying through things too fast and not reading carefully.

EC is using a blended phosphate, which means the product contains a blend of orthophosphate and polyphosphate (hexametaphosphate is one type of polyphosphate). The orthophosphate is what works for corrosion control. The hexametaphosphate (polyphosphate) does not work for corrosion control, it is used to sequester dissolved iron/manganese in the water so people won't complain about red/black water.

If used alone or if the percentage in the blend is too high, the hexametaphosphate can actually pull lead off the lead pipe and scale. Where it is used in a blend, like in East Chicago (the blend has 70% ortho and 30% hex), I think the product is fine (just not enough product being used).

Ex. 5 - Deliberative Process

Miguel A. Del Toral

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Tom Poy

Chief, Ground Water and Drinking Water Branch

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(312) 886-5991

From: Fulghum, Mary
Sent: Monday, March 06, 2017 12:28 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Klassman, Debra <klassman.debra@epa.gov>
Subject: EC Additive poly-ortho blend?

Kaitlyn Bendi asked if the additive was orthophosphate or a poly-ortho blend? She noted the petition indicates it's a blend.

Mary L. Fulghum

Associate Regional Counsel

Office of Regional Counsel

Mail Code C-14J

U.S. Environmental Protection Agency

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Chicago, IL 60604

Phone (312) 886 4683

To: Pollins, Mark[Pollins.Mark@epa.gov]; Parikh, Pooja[Parikh.Pooja@epa.gov]; Fulghum, Mary[fulghum.mary@epa.gov]; Thompkins, Anita[Thompkins.Anita@epa.gov]; King, Carol[King.Carol@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Wehling, Carrie[Wehling.Carrie@epa.gov]; Darman, Leslie[Darman.Leslie@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Lopez-Carbo, Maria[Lopez-Carbo.Maria@epa.gov]; Shinkman, Susan[Shinkman.Susan@epa.gov]
Cc: Grevatt, Peter[Grevatt.Peter@epa.gov]; Mclain, Jennifer[Mclain.Jennifer@epa.gov]; Bergman, Ronald[Bergman.Ronald@epa.gov]; Burneson, Eric[Burneson.Eric@epa.gov]; Gonzalez, Yvonne V.[Gonzalez.Yvonne@epa.gov]; Wadlington, Christina[Wadlington.Christina@epa.gov]; Klassman, Debra[klassman.debra@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Nelson, Leverett
Sent: Mon 3/6/2017 10:57:49 PM
Subject: RE: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

Ex. 5 - Deliberative Process/ACP Thanks, all. -Rett

From: Pollins, Mark
Sent: Monday, March 06, 2017 4:24 PM
To: Parikh, Pooja <Parikh.Pooja@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>; Shinkman, Susan <Shinkman.Susan@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

Mark

Mark Pollins, Director
Water Enforcement Division
Office of Civil Enforcement

Office of Enforcement and Compliance Assurance (OECA)
U.S. Environmental Protection Agency
Phone: (202) 564-4001
Fax: (202) 564-0018

From: Parikh, Pooja
Sent: Monday, March 06, 2017 3:50 PM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Pollins, Mark <Pollins.Mark@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

Pooja S. Parikh

Attorney- Advisor

U.S. Environmental Protection Agency

Office of General Counsel, Water Law Office

Phone: 202 564-0839

Email: parikh.pooja@epa.gov

From: Fulghum, Mary
Sent: Monday, March 06, 2017 3:04 PM
To: Pollins, Mark <Pollins.Mark@epa.gov>; Parikh, Pooja <Parikh.Pooja@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

--Mary

From: Pollins, Mark
Sent: Monday, March 06, 2017 10:51 AM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Parikh, Pooja <Parikh.Pooja@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

Mark Pollins, Director
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Office of Enforcement and Compliance Assurance (OECA)
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Fax: (202) 564-0018

From: Fulghum, Mary
Sent: Monday, March 06, 2017 11:14 AM
To: Parikh, Pooja <Parikh.Pooja@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; Pollins, Mark <Pollins.Mark@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

-Mary

From: Parikh, Pooja
Sent: Monday, March 06, 2017 8:41 AM
To: Nelson, Leverett <nelson.leverett@epa.gov>; Thompkins, Anita <Thompkins.Anita@epa.gov>; Pollins, Mark <Pollins.Mark@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>;

Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Next Steps re: USS Lead

Attaching comments from OGC. Thanks.

Pooja

Pooja S. Parikh

Attorney- Advisor

U.S. Environmental Protection Agency

Office of General Counsel, Water Law Office

Phone: 202 564-0839

Email: parikh.pooja@epa.gov

From: Nelson, Leverett
Sent: Sunday, March 05, 2017 10:12 PM
To: Thompkins, Anita <Thompkins.Anita@epa.gov>; Pollins, Mark <Pollins.Mark@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Parikh, Pooja <Parikh.Pooja@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>

Subject: Re: Next Steps re: USS Lead

Ex. 5 - Deliberative Process/ACP

-Rett

From: Nelson, Leverett
Sent: Friday, March 3, 2017 6:46 PM
To: Thompkins, Anita; Pollins, Mark; King, Carol; Korleski, Christopher; Wehling, Carrie; Darman, Leslie; Poy, Thomas; Henry, Timothy; Parikh, Pooja; Lopez-Carbo, Maria
Cc: Grevatt, Peter; Mclain, Jennifer; Bergman, Ronald; Burneson, Eric; Gonzalez, Yvonne V.; Wadlington, Christina; Klassman, Debra; Fulghum, Mary; Bassler, Rachel; Kelley, Jeff
Subject: RE: Next Steps re: USS Lead

Folks:

Ex. 5 - Deliberative Process/ACP

Thanks, all.

-Rett

From: Nelson, Leverett
Sent: Thursday, March 02, 2017 5:25 PM

To: Thompkins, Anita <Thompkins.Anita@epa.gov>; Pollins, Mark <Pollins.Mark@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Parikh, Pooja <Parikh.Pooja@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: Next Steps re: USS Lead

Anita-

Ex. 5 - Deliberative Process/ACP

Thank you.

-Rett

T. Leverett Nelson

Regional Counsel

U.S. EPA, Region 5

Chicago, IL

Tel.: 312-886-6666

From: Thompkins, Anita
Sent: Thursday, March 02, 2017 4:43 PM
To: Pollins, Mark <Pollins.Mark@epa.gov>; King, Carol <King.Carol@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Darman, Leslie <Darman.Leslie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Parikh, Pooja <Parikh.Pooja@epa.gov>; Lopez-Carbo, Maria <Lopez-Carbo.Maria@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>
Cc: Grevatt, Peter <Grevatt.Peter@epa.gov>; Mclain, Jennifer <Mclain.Jennifer@epa.gov>; Bergman, Ronald <Bergman.Ronald@epa.gov>; Burneson, Eric <Burneson.Eric@epa.gov>; Gonzalez, Yvonne V. <Gonzalez.Yvonne@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Subject: Next Steps re: USS Lead

Good Evening,

Ex. 5 - Deliberative Process/ACP

Thanks,

Anita

Anita Maria Thompkins

Director, Drinking Water Protection Division

Office of Ground Water and Drinking Water

U.S. Environmental Protection Agency

Washington, DC

Office Phone: 202-564-5673

EPA Cell: 202-281-8430

To: Bair, Rita[bair.rita@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Canar, John[canar.john@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Adler, Kevin[adler.kevin@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]
From: Bosscher, Valerie
Sent: Mon 3/6/2017 6:13:04 PM
Subject: RE: Discuss East Chicago lead results impacted by excavation
Door hanger final - Gary 3.24.14.pdf
water main flushing instructions door hanger temporary 10.4.13 aldermani....ppt

Please see below for DRAFT notes from our meeting. Please comment or correct as needed.

- The meeting was intended to touch base on the status of the pilot study data analysis, so that best practices can be selected and implemented for this construction season (beginning in April).

- Attending: Andrea Porter and Val Bosscher from WD GWDWB and Tom Alcamo, Tim Drexler, Dan Haag, and John Canar from Superfund.

- John Canar has completed statistical analysis comparing "before" and "after".

- WD had requested information regarding excavation/restoration activities and "post-excavation flushing" (see email dated 12/19/2016), to help evaluate the results.

o Zone 3: Tim Drexler and SRS provided requested information last week. WD asked for clarification regarding the "Dates of Excavation" in the Zone 3 spreadsheet – i.e., does it include all site remediation activities that may possibly disturb the service pipes (our request was intended to include backfill/compaction activities)? Tim indicated that SRS will respond shortly.

o Zone 2: Dan Haag indicated he would work on gathering the information for Zone 2.

o Site 2094 has unique circumstances – service line runs beneath busy street with heavy traffic (151st Street).

- Discussion of "post-excavation flushing"

o Superfund indicated that a recommendation for flushing immediately following excavation was not conveyed prior to 2016 activities and therefore was not implemented in 2016 activities.

o Superfund indicated post-excavation flushing would be relatively easy to implement in 2017 and asked for a protocol.

▪· ***See attached as follow-up: Example post-construction flushing protocols– Miguel, please comment as needed.*** *Please see attached for the City of Chicago post-construction flushing*

instructions that Miguel helped advise on (5 minutes at outdoor/basement then additional 5 minutes on each floor above).

- Discussion of filters / bottled water

o Miguel had recommended at the recent public meeting that all people with a lead service line (not just in East Chicago) should use a NSF-certified filter to protect from lead in water.

o A management decision is needed on whether EPA will pay for filters (or bottled water).

o Superfund requested a WD point of contact for technical questions about filters / bottled water. Miguel, Andrea, or Val are potential points of contact.

Thank you,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

-----Original Appointment-----
From: Bair, Rita
Sent: Thursday, March 02, 2017 12:20 PM
To: Bair, Rita; Alcamo, Thomas; Drexler, Timothy; Canar, John; Porter, Andrea; Bosscher, Valerie
Cc: Poy, Thomas; Adler, Kevin; Hassan, Jacob; Haag, Daniel
Subject: Discuss East Chicago lead results impacted by excavation

When: Monday, March 06, 2017 10:30 AM-11:00 AM (UTC-06:00) Central Time (US & Canada).
Where: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER

Call-in number: 866-299-3188

Code: Ex. 6 - Personal Privacy

To: Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Mon 3/6/2017 1:46:17 PM
Subject: Re: Discuss East Chicago lead results impacted by excavation

Ex. 6 - Personal Privacy after the first EC data call at 8:30am, so I will miss the 2nd call scheduled for 10:30am. I talked with Val this am, so after the 8:30am call she should be able to discuss missing info with SF.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, March 2, 2017 12:37:19 PM
To: Deltoral, Miguel
Subject: RE: Discuss East Chicago lead results impacted by excavation

After the Flint call this morning, we talked briefly about the need to meet with Superfund to get the missing information we need to finish the review.

From: Deltoral, Miguel
Sent: Thursday, March 02, 2017 12:27 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: Discuss East Chicago lead results impacted by excavation

Hi Rita,

Val, Andrea, John C and I are meeting on Monday to discuss the data review right before this call you just set up. What is this one for?

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, March 2, 2017 12:20:00 PM
To: Alcamo, Thomas; Drexler, Timothy; Canar, John; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie
Cc: Poy, Thomas; Adler, Kevin
Subject: Discuss East Chicago lead results impacted by excavation
When: Monday, March 6, 2017 10:30 AM-11:00 AM.
Where: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER

Call-in number: 866-299-3188

Code: Ex. 6 - Personal Privacy

To: Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Thur 3/2/2017 6:26:41 PM
Subject: Re: Discuss East Chicago lead results impacted by excavation

Hi Rita,

Val, Andrea, John C and I are meeting on Monday to discuss the data review right before this call you just set up. What is this one for?

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, March 2, 2017 12:20:00 PM
To: Alcamo, Thomas; Drexler, Timothy; Canar, John; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie
Cc: Poy, Thomas; Adler, Kevin
Subject: Discuss East Chicago lead results impacted by excavation
When: Monday, March 6, 2017 10:30 AM-11:00 AM.
Where: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER

Call-in number: 866-299-3188

Code: **Ex. 6 - Personal Privacy**

To: Brown, Jaime[brown.jaime@epa.gov]; Borries, Samuel[borries.samuel@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Rowan, Anne[rowan.anne@epa.gov]
From: Bassler, Rachel
Sent: Thur 3/2/2017 5:54:25 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

Thanks all. Below are the updated responses, with WD weighing in on 2 and 5. Please let me know if there are any other edits. I will also send to Doug and Chris for final review.

Q1. Has EPA set a date yet to resume excavation in zones 2 and 3?

Ex. 5 - Deliberative Process

Q2. Has EPA discussed and/or reached any agreements with the city of East Chicago regarding replacement of lead water services lines in tandem with excavation activities around homes in zones 2 and 3?

Ex. 5 - Deliberative Process

Q3. EPA staff said at the January open house that funding for indoor dust cleaning in zone 3 is not yet in place. Has funding been identified for this yet?

Ex. 5 - Deliberative Process

Q4. Has EPA completed any indoor dust cleaning since the end of excavation activities last year in zone 2? If so, how many homes have been cleaned?

Ex. 5 - Deliberative Process

Q5. Has EPA come to any determinations regarding sequential water testing and the effect excavation might have had on lead in drinking water?

Ex. 5 - Deliberative Process

Q6. Will the groundwater study EPA initiated last year affect residents in any way? Can EPA provide an overview of what the groundwater study entails?

Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Brown, Jaime
Sent: Thursday, March 02, 2017 10:46 AM
To: Borries, Samuel <borries.samuel@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Please see below for an answer to Q4.

Jaime Brown, Chief

Emergency Response Section 4

US EPA, Region 5

77 W Jackson Blvd (SE5J)

Chicago, IL 60604

(312) 886-2256

Preferred Personal Pronouns: He/Him/His

From: Borries, Samuel

Sent: Thursday, March 02, 2017 10:31 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Rachel,

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process Jacob or Dan will have to confirm.

Thanks.

From: Bassler, Rachel
Sent: Thursday, March 02, 2017 9:27 AM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Borries, Samuel <borries.samuel@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Below are draft responses Tom Alcamo prepared. Please let me know if anyone has any edits (and a response to Q4). WD, can you please review questions 2 and 5?

Q1. Has EPA set a date yet to resume excavation in zones 2 and 3?

Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

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zone 3 is not yet in place. Has funding been identified for this yet?

Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

Q5. Has EPA come to any determinations regarding sequential water testing and the effect excavation might have had on lead in drinking water?

Ex. 5 - Deliberative Process

Q6. Will the groundwater study EPA initiated last year affect residents in any way? Can EPA provide an overview of what the groundwater study entails?

Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Bassler, Rachel
Sent: Wednesday, March 01, 2017 12:51 PM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Borries, Samuel <borries.samuel@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>

Subject: Northwest Indiana Times Questions Due Friday

All,

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Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

To: Bassler, Rachel[Bassler.Rachel@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Poy, Thomas
Sent: Thur 3/2/2017 4:50:11 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

We plan to meet with SFD staff on info still needed by Miguel.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bassler, Rachel
Sent: Thursday, March 02, 2017 10:06 AM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Thanks Tom. Here are the responses I will send to the group. Do we have any indication of when we will be able to say whether excavation had any effect?

Q2. Has EPA discussed and/or reached any agreements with the city of East Chicago regarding replacement of lead water services lines in tandem with excavation activities around homes in zones 2 and 3?

Ex. 5 - Deliberative Process

Q5. Has EPA come to any determinations regarding sequential water testing and the effect excavation might have had on lead in drinking water?

Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Poy, Thomas
Sent: Thursday, March 02, 2017 10:01 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Rachel: WD does not have anything else for Q2. On Q5, Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bassler, Rachel
Sent: Thursday, March 02, 2017 9:27 AM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob

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Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

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U.S. EPA Region 5

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Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

To: Borries, Samuel[borries.samuel@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Rowan, Anne[rowan.anne@epa.gov]
From: Brown, Jaime
Sent: Thur 3/2/2017 4:45:39 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

Please see below for an answer to Q4.

Jaime Brown, Chief

Emergency Response Section 4

US EPA, Region 5

77 W Jackson Blvd (SE5J)

Chicago, IL 60604

(312) 886-2256

Preferred Personal Pronouns: He/Him/His

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Sent: Thursday, March 02, 2017 10:31 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Rachel,

For Q4 **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process Jacob or Dan will have to confirm.

Thanks.

From: Bassler, Rachel
Sent: Thursday, March 02, 2017 9:27 AM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Borries, Samuel <borries.samuel@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Below are draft responses Tom Alcamo prepared. Please let me know if anyone has any edits (and a response to Q4). WD, can you please review questions 2 and 5?

Q1. Has EPA set a date yet to resume excavation in zones 2 and 3?

Ex. 5 - Deliberative Process

Q2. Has EPA discussed and/or reached any agreements with the city of East Chicago regarding replacement of lead water services lines in tandem with excavation activities around homes in zones 2 and 3?

Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

Q6. Will the groundwater study EPA initiated last year affect residents in any way? Can EPA provide an overview of what the groundwater study entails?

Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Bassler, Rachel
Sent: Wednesday, March 01, 2017 12:51 PM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
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Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

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To: Bassler, Rachel[Bassler.Rachel@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Rowan, Anne[rowan.anne@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]
From: Borries, Samuel
Sent: Thur 3/2/2017 4:31:01 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

Rachel,

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Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

To: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Bassler, Rachel
Sent: Thur 3/2/2017 4:05:42 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

Thanks Tom. Here are the responses I will send to the group. Do we have any indication of when we will be able to say whether excavation had any effect?

Q2. Has EPA discussed and/or reached any agreements with the city of East Chicago regarding replacement of lead water services lines in tandem with excavation activities around homes in zones 2 and 3?

Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Poy, Thomas
Sent: Thursday, March 02, 2017 10:01 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Northwest Indiana Times Questions Due Friday

Rachel: WD does not have anything else for Q2. On Q5, **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bassler, Rachel
Sent: Thursday, March 02, 2017 9:27 AM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
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Ex. 5 - Deliberative Process

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U.S. EPA Region 5

bassler.rachel@epa.gov

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To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
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U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

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To: Bassler, Rachel[Bassler.Rachel@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Poy, Thomas
Sent: Thur 3/2/2017 4:01:15 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

Rachel: WD does not have anything else for Q2. On Q5, Ex. 5 - Deliberative Process

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Chief, Ground Water and Drinking Water Branch

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Cc: Rowan, Anne[rowan.anne@epa.gov]; Borries, Samuel[borries.samuel@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]
From: Bassler, Rachel
Sent: Thur 3/2/2017 3:26:39 PM
Subject: RE: Northwest Indiana Times Questions Due Friday

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Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

To: Kaplan, Robert[kaplan.robert@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]; Schock, Michael[Schock.Michael@epa.gov]; Kempic, Jeffrey[Kempic.Jeffrey@epa.gov]; Lytle, Darren[Lytle.Darren@epa.gov]
From: Deltoral, Miguel
Sent: Fri 2/17/2017 2:45:23 PM
Subject: Re: Slides comparing first-draw and sequential sampling results (Chicago and East Chicago)

Hi Bob,

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Kaplan, Robert
Sent: Thursday, February 16, 2017 05:38 PM
To: Deltoral, Miguel
Subject: RE: Slides comparing first-draw and sequential sampling results (Chicago and East Chicago)

Got it, thanks Miguel. This is very helpful. It's amazing to see the "spike in liters" 3, 4, and 5.

Ex. 5 - Deliberative Process

- Bob

Robert Kaplan

Acting Regional Administrator

EPA Region 5 – Chicago

Cell: 312-515-9827

Direct: 312-886-1499

Main: 312- 886-3000

From: Deltoral, Miguel
Sent: Thursday, February 16, 2017 2:03 PM
To: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: Slides comparing first-draw and sequential sampling results (Chicago and East Chicago)

Hi Bob,

Attached are a couple of slides that highlight the underestimation of lead levels in Chicago and East Chicago. We find this everywhere there are lead lines and sequential sampling is conducted, regardless of water quality, water source, treatment, etc. The

peak values may change based on those factors, but what is universal is that the first-draw samples will also be lower than the peak lead that is there at the time.

Please let me know if you want me to make any changes to the slides or first-page notes.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

To: Booker, Katrina[Booker.Katrina@epa.gov]
Cc: Drexler, Timothy[drexler.timothy@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]
From: Cannon, Phillippa
Sent: Wed 2/15/2017 5:44:46 PM
Subject: FOIA request about East Chicago and water
DrinkingWaterSafetyFlyer USS Lead 8-22-16.pdf

Katrina – Tim Drexler forwarded your email regarding a FOIA request from the NW Indiana Times asking for any correspondence with the City of East Chicago or State of Indiana regarding drinking water in East Chicago. Attached is an email and flyer I sent to the city's water department for review.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Cannon, Phillippa
Sent: Tuesday, August 23, 2016 1:39 PM
To: pharretos@eastchicago.com
Cc: Leon, Heriberto <leon.heriberto@epa.gov>
Subject: Questions about East Chicago drinking water and lead --

Dear Mr. Harretos,

U.S. Environmental Protection Agency has been working on lead in soil issues in East Chicago. We have been getting questions from residents, particularly in the West Calumet Housing Complex, about lead in their drinking water. We have a flyer with basic information about drinking water and would like to include a phone number for the East Chicago Water Department for residents to get more information about the East Chicago system. Is there a number that residents can call with questions or if they want to get their water tested and a web site with more information about East Chicago drinking water? I've attached the EPA flyer. Please let me know if you want us to include a phone number or have any other suggestions/changes that should be included in the attached flyer. Thank you.

Best regards,

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

To: Rowan, Anne[rowan.anne@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Nelson, Leverett[nelson.leverett@epa.gov]; Lupton, Jane[lupton.jane@epa.gov]; Guerriero, Margaret[guerriero.margaret@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Short, Thomas[short.thomas@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Garypie, Catherine[garypie.catherine@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]; Borries, Samuel[borries.samuel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
From: Bassler, Rachel
Sent: Thur 2/9/2017 8:45:46 PM
Subject: RE: [Govcomm] Governor Holcomb Marks His First Month in Office with Several Executive Actions - East Chicago Emergency Declaration
EC EO.PDF

Attached is the order, just signed.

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Rowan, Anne
Sent: Thursday, February 09, 2017 11:32 AM
To: Johnson, Mark <johnson.mark@epa.gov>; Nelson, Leverett <nelson.leverett@epa.gov>; Lupton, Jane <lupton.jane@epa.gov>; Guerriero, Margaret <guerriero.margaret@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Garypie, Catherine <garypie.catherine@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
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<porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Subject: RE: [Govcomm] Governor Holcomb Marks His First Month in Office with Several Executive Actions - East Chicago Emergency Declaration

Please scroll down for the press release (cut and pasted below). I highlighted the section that addresses the USS Lead site. IDEM may have forward the wrong attachment so please disregard. At the moment, this is all we have in OEC.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Johnson, Mark
Sent: Thursday, February 09, 2017 11:19 AM
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Regional Director/Toxicologist

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Press Release

For Immediate Release:

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Jim Atterholt Selected to be IURC Chairman

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A nominating committee of four Republicans and three Democrats was selected and convened to interview and make recommendations to the governor for selection. The committee presented its recommendations to the governor on February 3.

"Jim Atterholt's history of service and depth of knowledge on utility issues make him the best choice to lead the IURC, particularly over the next four years," Governor Holcomb said. "IURC's work will be central to my focus as governor to provide great customer service for Hoosiers in every corner of the state."

Attached

- Executive Order 17-12: Keith Cooper Pardon

-30-

Stephanie Wilson

Press Secretary

Office of Governor Eric J. Holcomb

Office: 317-232-1622 | Cell: 317-914-9137

Follow Governor Eric Holcomb on Twitter, Facebook, & Instagram

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STATE OF INDIANA

EXECUTIVE DEPARTMENT
INDIANAPOLIS

EXECUTIVE ORDER 17-13

FOR: **DECLARATION OF DISASTER EMERGENCY (EAST CHICAGO)**

TO ALL WHOM THESE PRESENTS MAY COME, GREETINGS.

WHEREAS, for nearly 80 years, a company commonly referred to as US Smelter and Lead ("USS Lead") operated a facility in East Chicago, Indiana, that was a primary and secondary smelter of lead;

WHEREAS, exposures to high levels of lead can cause a range of health effects, such as behavioral problems, learning disabilities, seizures and death;

WHEREAS, the United States Environmental Protection Agency ("EPA") has found lead-contaminated soils in certain areas on and near the USS Lead site, including, for example, high levels of lead in some of the soils located at the West Calumet Housing Complex (the "Housing Complex");

WHEREAS, the area covered by this disaster emergency consists of 322 acres and is bounded by East Chicago Avenue on the north, East 151st Street on the south, the Indiana Harbor Canal on the west, and Parrish Avenue on the east (hereinafter referred to as the "Affected Area");

WHEREAS, the Affected Area has been divided into three zones, which enabled EPA and the State of Indiana to secure in 2014 an agreement with particular companies to pay 100% of the costs incurred to implement the cleanup in Zone 1 and Zone 3, with EPA continuing similar efforts as to Zone 2;

WHEREAS, in June 2016, East Chicago Mayor Anthony Copeland issued a letter to EPA Region V Administrator Robert Kaplan, calling for residents of the Housing Complex to be evacuated immediately and for all contaminated soil in that area to be removed (the "Copeland Letter");

WHEREAS, while there are no indications that anyone living in the Affected Area has suffered lead poisoning, testing has revealed that 18 children under age 8 who live in the Affected Area have slightly elevated blood lead levels and have been referred to the local health department in East Chicago for case management;

WHEREAS, EPA has taken actions to protect residents from lead-contaminated soils, including, but not limited to, the following:

(1) collecting and testing soil samples from the yards of residences;

(2) covering patches of bare dirt with triple-shredded hardwood mulch that provides a temporary barrier until EPA can dig-up and remove the contaminated soil;

(3) advising parents to prevent children from playing in dirt or mulch, to wash their children's toys regularly, to wash their children's hands after they play outside, and to remove shoes before walking into their homes;

(4) having EPA community involvement coordinators go door-to-door to provide information on ways to reduce exposure to possible lead in soil, including instructions not to dig or garden in their yards; and

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EPA-R5-2017-006353

(5) cleaning the inside of homes and the furniture of residents in order to significantly reduce the amount of lead dust;

WHEREAS, the State of Indiana has taken actions to help address and respond to the situation, including, but not limited to, the following:

(1) direct regular engagement with the residents, community leaders, personnel at EPA and the United States Department of Housing and Urban Development ("HUD"), and City of East Chicago officials, in order to ensure that progress is being made to protect and serve the residents;

(2) the Indiana State Department of Health ("ISDH") hosted more than thirty (30) lead testing clinics at the Affected Area and also provided eleven (11) multi-agency "One-Stop Shops" offering residents of the Affected Area additional testing, immunization, and other services;

(3) the Indiana State Board of Education issued a $2.8 million state disaster relief loan to help the East Chicago School District transform a vacant middle school facility into one that is suitable for use by students from the Carrie Gosch Elementary School in Zone 1 that has been closed;

(4) the ISDH provided the sum of $100,000 to the East Chicago Health Department ("ECHD") for hiring a public health nurse and educator, redirected another $48,000 for additional staffing supports, and provided supplies and training for blood lead testing clinics run by the East Chicago Women, Infants, and Children Clinic;

(5) the Indiana Housing and Community Development Authority ("IHCDA") made the sum of $100,000 available for use by the ECHA to offset relocation expenses of the most vulnerable residents of the Housing Complex;

(6) the IHCDA provided several members of its staff to the ECHA to provide administrative support for the relocation efforts for residents of the Housing Complex;

(7) the Indiana Department of Insurance ("IDOI") issued a bulletin calling for a 60-day moratorium on the cancellation of insurance policies in effect for policyholders residing within the Affected Area, including a suspension of penalties for late payments by residents; and

(8) the Division for Mental Health and Addiction of Indiana's Family & Social Service Administration ("FSSA") provided staff with mental health expertise at the ECHA's West Calumet Complex Outreach and Family Day Event.

NOW, THEREFORE, I, **Eric J. Holcomb,** by virtue of the authority vested in me as the Governor of the State of Indiana, do hereby:

DECLARE, that a state of disaster emergency exists within the "Affected Area" of East Chicago (as defined above). This declaration of disaster emergency shall be effective beginning on February 9, 2017, and shall continue for thirty (30) days unless, prior to March 11, 2017, I determine that emergency conditions no longer exist and I terminate this disaster emergency by a subsequent executive order or proclamation;

ORDER, the Executive Director of the Indiana Department of Homeland Security to implement any applicable portions of the State Emergency Plan, to coordinate local public safety responses when appropriate, and to coordinate any needed emergency services for the Affected Area with appropriate federal, state and local agencies;

ORDER, that the State seek to identify and enter into a contract with a local non-profit and/or social service agency to help ensure that all remaining residents of the

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Housing Complex are safely resettled into new units that reasonably meet their needs by the HUD deadline of March 31, 2017;

ORDER, that the State petition the EPA to provide grant funding to the East Chicago Water Department for needed lead pipe replacement in portions of the Affected Area;

ORDER, that the IHCDA develop a web page through which status updates, progress reports, and other important information from State, Federal, and local partners can be posted;

ORDER, that the State, within thirty (30) days, engage with the new secretaries of the appropriate Federal agencies to petition them for greater assistance and more resources toward efforts to relocate residents out of Zone 1, replace water infrastructure as needed in Zones 2 and 3, and also to expedite remediation and demolition efforts;

ORDER, that the IHCDA, once residents of the Housing Complex are safely relocated, seek formal authorization from its Board of Directors to make available the sum of $2 million for security and demolition of the Housing Complex;

ORDER, that the ISDH request that the Federal government allow the State to provide lead testing at Women, Infant and Children ("WIC") clinics in and around East Chicago in connection with the Affected Area;

ORDER, that the IHCDA continue efforts to identify and encourage the financing of new development for affordable rental housing in the East Chicago area;

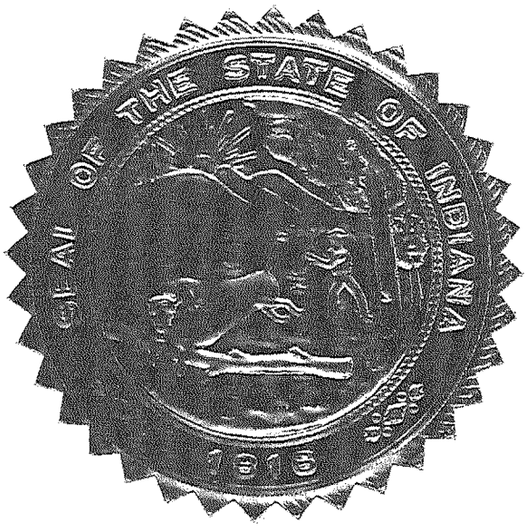
ORDER, that all instrumentalities, agencies and department of state government continue developing and exploring ways to be of assistance in this matter; and

REQUEST, that City of East Chicago Mayor Anthony Copeland provide to the Office of the Governor, by March 5, 2017, a written assessment of additional resources and services that the City has ascertained are needed for the Affected Area as well as the identification of any other Federal resources that are or could be available to the City in connection with this matter.

IN TESTIMONY WHEREOF, I, Eric J. Holcomb, have hereunto set my hand and caused to be affixed the Great Seal of the State of Indiana on this 9th day of February, 2017.

Eric Holcomb

Eric J. Holcomb
Governor of Indiana



ATTEST: Connie Lawson
Secretary of State

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Please scroll down for the press release (cut and pasted below). I highlighted the section that addresses the USS Lead site. IDEM may have forward the wrong attachment so please disregard. At the moment, this is all we have in OEC.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

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Attached

- Executive Order 17-12: Keith Cooper Pardon

Stephanie Wilson

Press Secretary

Office of Governor Eric J. Holcomb

Office: 317-232-1622 | Cell: 317-914-9137

Follow Governor Eric Holcomb on Twitter, Facebook, & Instagram

To: Nelson, Leverett[nelson.leverett@epa.gov]; Lupton, Jane[lupton.jane@epa.gov]; Guerriero, Margaret[guerriero.margaret@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Short, Thomas[short.thomas@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Garypie, Catherine[garypie.catherine@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
From: Rowan, Anne
Sent: Thur 2/9/2017 5:16:59 PM
Subject: FW: [Govcomm] Governor Holcomb Marks His First Month in Office with Several Executive Actions - East Chicago Emergency Declaration
removed.txt
Executive Order 17-12 (Cooper).pdf
ATT00001.txt

Please see the Governor's press release. We gotten one press call so far, one press call but we anticipate more. Rachel is working on a draft desk statement.

From: Clem, Ryan T [mailto:RClem@idem.IN.gov]
Sent: Thursday, February 09, 2017 11:10 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: [Govcomm] Governor Holcomb Marks His First Month in Office with Several Executive Actions

Ryan T. Clem

External Relations Director

Indiana Department of Environmental Management

100 N. Senate Ave, IGCN, Suite 1313

Indianapolis, IN 46204

Phone (317) 233•4927

Toll Free (800) 451•6027

rclem@idem.in.gov

From: Govcomm [mailto:govcomm-bounces@lists.in.gov] **On Behalf Of** Wilson, Stephanie
Sent: Thursday, February 09, 2017 12:07 PM
To: Wilson, Stephanie
Subject: [Govcomm] Governor Holcomb Marks His First Month in Office with Several Executive Actions

Press Release

For Immediate Release:

Thursday, Feb. 9, 2017

Governor Holcomb Marks His First Month in Office with Several Executive Actions

INDIANAPOLIS – Indiana Governor Eric J. Holcomb today issued a pardon to Keith Cooper, declared a disaster emergency in East Chicago and announced the termination of contract discussions with Agile Networks, among other actions.

Keith Cooper Pardon

-

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Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Klassman, Debra[klassman.debra@epa.gov]
From: Fulghum, Mary
Sent: Fri 2/3/2017 5:53:53 PM
Subject: RE: USS Lead - Coalition Ltr to Common Council

Ex. 5 - Attorney Client

--Mary

From: Bair, Rita
Sent: Friday, February 03, 2017 8:57 AM
To: Fulghum, Mary <fulghum.mary@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>
Subject: RE: USS Lead - Coalition Ltr to Common Council

Ex. 5 - Attorney Client

From: Deltoral, Miguel
Sent: Friday, February 03, 2017 8:52 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Press <Press@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>
Cc: Arcaute, Francisco <Arcaute.Francisco@epa.gov>
Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

Hi Anne,

See responses below Sarah's Q's.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Rowan, Anne
Sent: Friday, February 3, 2017 08:33 AM
To: Korleski, Christopher; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Press; Kelley, Jeff; Nowotarski, Allison; Grantham, Nancy
Cc: Arcaute, Francisco
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FYI -while I think IDEM is perhaps in a better position to answer these questions, I'd appreciate input from WD. Thanks.

Sent from my iPhone

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> **Date:** February 3, 2017 at 8:29:04 AM CST
> **To:** Sarah Reese <Sarah.Reese@nwi.com>
> **Cc:** "Bassler, Rachel" <Bassler.Rachel@epa.gov>, "Arcaute, Francisco" <Arcaute.Francisco@epa.gov>
> **Subject: Re: Media questions**
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MDT: The response I provided in EC was regarding whether EPA was going to be doing any additional sampling in the rest of the city. What I said was that this pilot study had a specific purpose and was not intended to check what the lead levels were throughout the city. As such, EPA is not planning to do additional sampling, and that lead lines in the clean-up area would behave no differently than lead lines in other neighborhoods or other cities with lead lines. If it is true that 90% of the homes in EC have lead lines, residents should assume they have one and, in my opinion, should use a properly certified filter. This is my recommendation for any home in any city with a lead line.

Records I have obtained show East Chicago was using hexametaphosphate to control corrosion until September 2016, then switched to an orthophosphate-polyphosphate blend. Virginia Tech scientist Marc Edwards shared a study he authored indicating hexametaphosphate can actually increase lead leeching, and that orthophosphate is a better choice. Does EPA – and Miguel Deltoral – agree that orthophosphate is a better choice for corrosion control?

MDT: This question should go to ORD. I don't know enough about hexametaphosphate.

Did EPA have any involvement in the city's switch from hexametaphosphate to an orthophosphate-polyphosphate blend?

MDT: We had no involvement in these decisions.

My deadline is 7 p.m. Friday.

Thanks,

Sarah

From: Rowan, Anne [mailto:rowan.anne@epa.gov]
Sent: Thursday, February 02, 2017 6:24 PM
To: Sarah Reese
Cc: Bassler, Rachel
Subject: Re: Media question

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o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com

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From: Rowan, Anne
Sent: Fri 2/3/2017 4:56:45 PM
Subject: RE: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

Thanks, Miguel.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Deltoral, Miguel
Sent: Friday, February 03, 2017 10:42 AM
To: Rowan, Anne <rowan.anne@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Press <Press@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Arcaute, Francisco <Arcaute.Francisco@epa.gov>
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77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

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Sent: Friday, February 3, 2017 08:57 AM
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Cc: Arcaute, Francisco[Arcaute.Francisco@epa.gov]
From: Porter, Andrea
Sent: Fri 2/3/2017 4:06:08 PM
Subject: RE: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today
more on Carus 8600
RE: DRAFT flyer for East Chicago drinking water

Hi All,

On the corrosion control chemical question, per the attached emails, we could say something like:

Ex. 5 - Deliberative Process

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Deltoral, Miguel
Sent: Friday, February 03, 2017 9:20 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Press <Press@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>
Cc: Arcaute, Francisco <Arcaute.Francisco@epa.gov>
Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

I don't think my response actually addressed the source water part of the first question. Below is my revised response with inserted text underlined.

Ex. 5 - Deliberative Process

[FLINT]

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Friday, February 3, 2017 8:52:23 AM
To: Rowan, Anne; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Bair, Rita; Porter, Andrea; Press; Kelley, Jeff; Nowotarski, Allison; Grantham, Nancy
Cc: Arcaute, Francisco

Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

Hi Anne,

See responses below Sarah's Q's.

Miguel A. Del Toral

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Cc: Arcaute, Francisco
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Sent from my iPhone

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From: "Rowan, Anne" <rowan.anne@epa.gov>
Date: February 3, 2017 at 8:29:04 AM CST
To: Sarah Reese <Sarah.Reese@nwi.com>
Cc: "Bassler, Rachel" <Bassler.Rachel@epa.gov>, "Arcaute, Francisco" <Arcaute.Francisco@epa.gov>

Subject: Re: Media questions

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Sent from my iPhone

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Ex. 5 - Deliberative Process

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Ex. 5 - Deliberative Process

Did EPA have any involvement in the city's switch from hexametaphosphate to an orthophosphate-polyphosphate blend?

Ex. 5 - Deliberative Process

My deadline is 7 p.m. Friday.

Thanks,

Sarah

From: Rowan, Anne [mailto:rowan.anne@epa.gov]
Sent: Thursday, February 02, 2017 6:24 PM
To: Sarah Reese
Cc: Bassler, Rachel
Subject: Re: Media question

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Sent from my iPhone

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Hi,

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Thanks,

Sarah

Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com

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To: Rowan, Anne[rowan.anne@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Press[Press@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Nowotarski, Allison[nowotarski.allison@epa.gov]; Grantham, Nancy[Grantham.Nancy@epa.gov]
Cc: Arcaute, Francisco[Arcaute.Francisco@epa.gov]
From: Deltoral, Miguel
Sent: Fri 2/3/2017 3:19:36 PM
Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

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Ex. 5 - Deliberative Process

[FLINT]
Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
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To: Rowan, Anne; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Bair, Rita; Porter, Andrea; Press; Kelley, Jeff; Nowotarski, Allison; Grantham, Nancy
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Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

Hi Anne,

See responses below Sarah's Q's.

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Sent: Friday, February 3, 2017 08:33 AM
To: Korleski, Christopher; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Press; Kelley, Jeff; Nowotarski, Allison; Grantham, Nancy
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To: Sarah Reese <Sarah.Reese@nwi.com>
Cc: "Bassler, Rachel" <Bassler.Rachel@epa.gov>, "Arcaute, Francisco" <Arcaute.Francisco@epa.gov>
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Sent from my iPhone

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Ex. 5 - Deliberative Process

Did EPA have any involvement in the city's switch from hexametaphosphate to an orthophosphate-polyphosphate blend?

Ex. 5 - Deliberative Process

My deadline is 7 p.m. Friday.

Thanks,

Sarah

From: Rowan, Anne [mailto:rowan.anne@epa.gov]
Sent: Thursday, February 02, 2017 6:24 PM
To: Sarah Reese
Cc: Bassler, Rachel
Subject: Re: Media question

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Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com

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To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Press[Press@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Nowotarski, Allison[nowotarski.allison@epa.gov]; Grantham, Nancy[Grantham.Nancy@epa.gov]; Arcaute, Francisco[Arcaute.Francisco@epa.gov]
From: Rowan, Anne
Sent: Fri 2/3/2017 2:57:27 PM
Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

Thanks, Miguel.

Sent from my iPhone

On Feb 3, 2017, at 8:52 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

Hi Anne,

See responses below Sarah's Q's.

Miguel A. Del Toral
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U.S. EPA R5 GWDWB
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To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Poy, Thomas
Sent: Tue 1/31/2017 2:39:17 PM
Subject: RE: East Chicago letter update

Val/Andrea: Thank you very much for your efforts to get the results formatted and into the resident letters.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bosscher, Valerie
Sent: Tuesday, January 31, 2017 8:29 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago letter update

Tom,

All collected results are final, and all final results have been sent to the residents. Here is an update on the letters sent through today:

- 41 sites with "Final" memos with all results final, of which 21 were placed in the mail last night

- 2 sites with "Final" memos with pre-excavation results (3106 on 1/20 and 3113 yesterday), but post-excavation sampling has not yet been completed to my knowledge.

As we discussed yesterday, the most recent batch of letters went out via regular mail. The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint.

Let me know if you have any questions or would like to discuss.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Tuesday, January 24, 2017 2:58 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: East Chicago letter update

Tom,

Tim Drexler has the letters we produced yesterday/today, and is coordinating with the mail room for overnight/nextday shipment.

Here is an update on the letters sent through today:

- 20 sites with "Final Lead" letters (of which 5 are also in Spanish), all being sent overnight/nextday today. These sites had also been sent full available (prelim) data last week. I will tabulate final data as it comes in, with the intention that full Final memos would be sent early next week.

- 20 sites with "Final" memos with all results final, of which 5 are being sent overnight/nextday today

- 2 sites (3332 and 3066) were sent prelim/available data last week, and a full "Final" memo can be sent after the CRL ICPAES results for the last 2 jobs are received (should be this week).

- 1 site (3106) has received final pre-excavation results, but post-excavation sampling has not yet been completed to my knowledge.

The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint. Andrea and I can also save copies of the most recent to the USB drive to bring to the Public Meeting on Saturday.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Monday, January 23, 2017 12:18 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago next steps discussion
Importance: High

Tom - I am working through the Lead-Only final data now, and I just found that we WILL have some sites were we have **both Final Lead from CRL and Final Lead from STAT/SRS**. We may want to include some additional language for these sites, for example:

- As part of U.S. EPA's review of the results, the MM/DD/YYYY samples were analyzed a second time by a separate laboratory; these results are presented in the row labeled "Duplicate". You may notice slight differences between the numbers reported by the two different laboratories; these slight differences are common when water samples are analyzed by different instruments.

Thanks,

Val

From: Bosscher, Valerie
Sent: Monday, January 23, 2017 10:43 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: East Chicago next steps discussion

Importance: High

Hi All,

Regarding next steps for EC data/letters:

- FULL Final data – We currently have 3 sites that we can send complete final data packages with final pre- and post-excavation (they were sent preliminary data last week). I will work with Tim Drexler to send updated letters as additional final data comes in.

o **Proposed language to add to the beginning of the memo:**

U.S. EPA has now received final analytical results for drinking water samples collected at your home as part of the 2016 Sequential Sampling Pilot Study. This memorandum includes all final results collected at your home and replaces the preliminary results that were sent to you on MM/DD/YYYY.

- Final Lead-only data – We have received validated results for Lead for the remaining STAT data packages. Tim Drexler indicated that SRS plans to provide all the Full Final data for all jobs by the end of this week.

o Based on talking with Tom and Andrea this morning, I put together the attached example memo for transmitting only the final lead data (where prelim was sent last week).

o

o The sooner we have a final template, the better if we are going to send out memos to these affected sites. We will also need to get the language translated for Spanish-speaking residents.

- Lead CRL duplicate results - See the light green tabs in the attached spreadsheet, yellow-highlighted rows are CRL Lead data and the relative percent difference between the two Lead results. CRL Lead data was received for 6 homes. For the most part, the results are within the expected +/- 20% analytical precision of the method (or within +/- 1 ppb for low results). The relative percent difference is included in a highlighted row for internal review (that row would be removed before sending the results to the resident).

o Based on talking with Tom this morning, we will prepare the memo consistent with the above, to transmit these CRL results.

o **Do we need additional language in the final memo to discuss these duplicate analyses?**

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 4:54 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: 16100351 Final Lead Results

I agree, let's discuss on Monday with Tom.

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:33 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Rita,

Ex. 5 - Deliberative Process

Thanks,

Val

From: Drexler, Timothy
Sent: Friday, January 20, 2017 4:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

From: Drexler, Timothy

Sent: Friday, January 20, 2017 3:56 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Val: Does Rich's note below match what you have received so far?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

Richard Baldino

(312) 220-7171 x2223 office

(312) 914-0325 cell

From: Drexler, Timothy [mailto:drexler.timothy@epa.gov]
Sent: Friday, January 20, 2017 3:20 PM
To: Rich Baldino <RBaldino@srsllc.com>
Subject: RE: 16100351 Final Lead Results

Thanks, Rich. What is your status now, with respect to final validation of remaining samples?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:12 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: 16100351 Final Lead Results

Tim:

Please find attached the final lead results for STAT SDG 16100351. The full preliminary EDD has also been sent to Tetra tech for Upload.

Please let me know if you have any questions or comments.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

www.SRSllc.com

SRS
An Oneida ESC Group Company

To: Bair, Rita[bair.rita@epa.gov]
From: Bosscher, Valerie
Sent: Tue 1/31/2017 2:34:50 PM
Subject: RE: East Chicago letter update

Yes, all lead data was final by last Monday, and all other metals were final by late Friday. Checking now to see if it got into the database yet, so that John Canar's group can do their analysis.

From: Bair, Rita
Sent: Tuesday, January 31, 2017 8:33 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: East Chicago letter update

Did the other parameters come in final also? I thought that was going to take longer.

From: Bosscher, Valerie
Sent: Tuesday, January 31, 2017 8:29 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago letter update

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Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Tuesday, January 24, 2017 2:58 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
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Subject: RE: East Chicago next steps discussion
Importance: High

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To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: 16100351 Final Lead Results

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Hi Rita,

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Thanks,

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Sent: Friday, January 20, 2017 4:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

From: Bosscher, Valerie
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To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

From: Drexler, Timothy
Sent: Friday, January 20, 2017 3:56 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: 16100351 Final Lead Results

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-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

Richard Baldino

(312) 220-7171 x2223 office

(312) 914-0325 cell

From: Drexler, Timothy [mailto:drexler.timothy@epa.gov]
Sent: Friday, January 20, 2017 3:20 PM
To: Rich Baldino <RBaldino@srsllc.com>
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Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

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SRS
An Ernst & Young Company

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EPA Pilot Study

on

Soil Excavation Activities

and

Lead in Water

Outline

- Why Did EPA Test the Water?
- Lead Service Lines
  - Corrosion Control
  - Physical Disturbances
- How Did EPA Test the Water?
- Water Testing Results
- What's Being Done?
- What Can Residents Do?

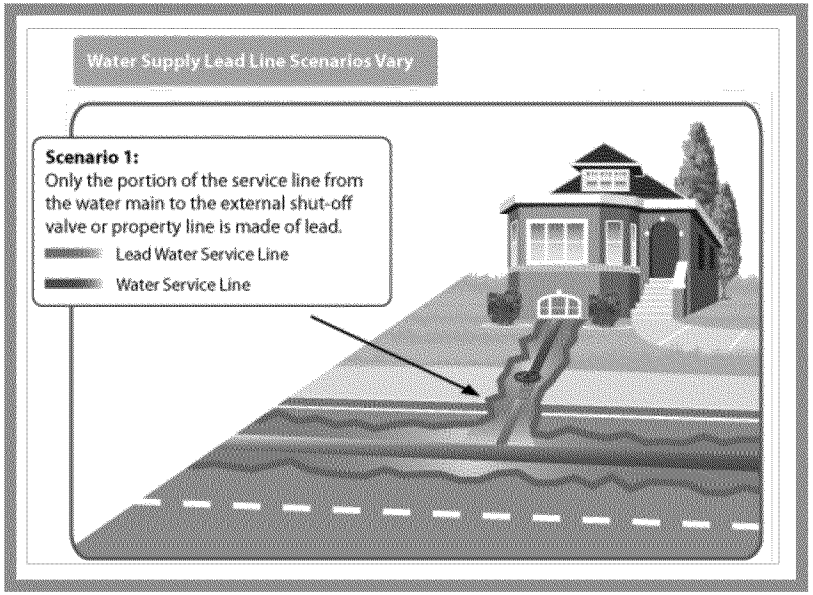
Why Did EPA Test the Water?

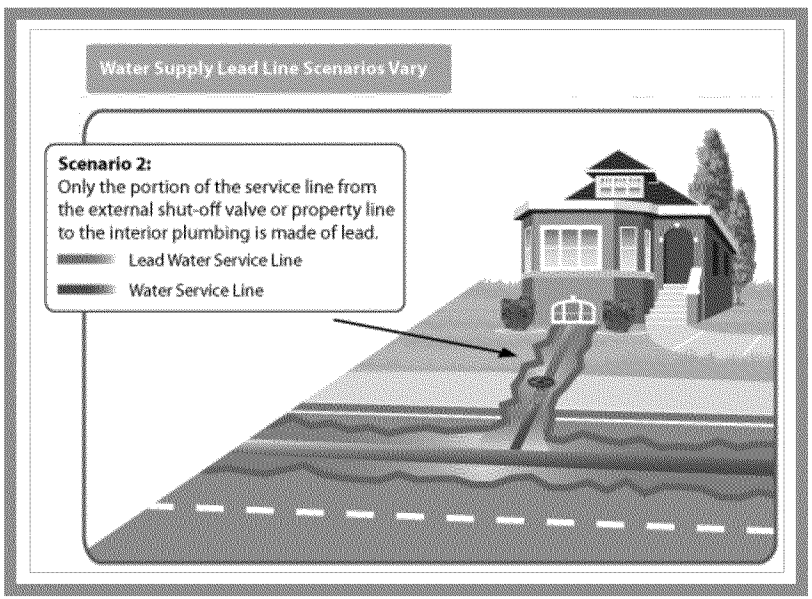
- Sources of Lead
  - Lead service lines and associated galvanized iron pipe, brass plumbing fittings/fixtures, leaded solder
- East Chicago has a large percentage of service lines made of lead.
  - Same as many other cities

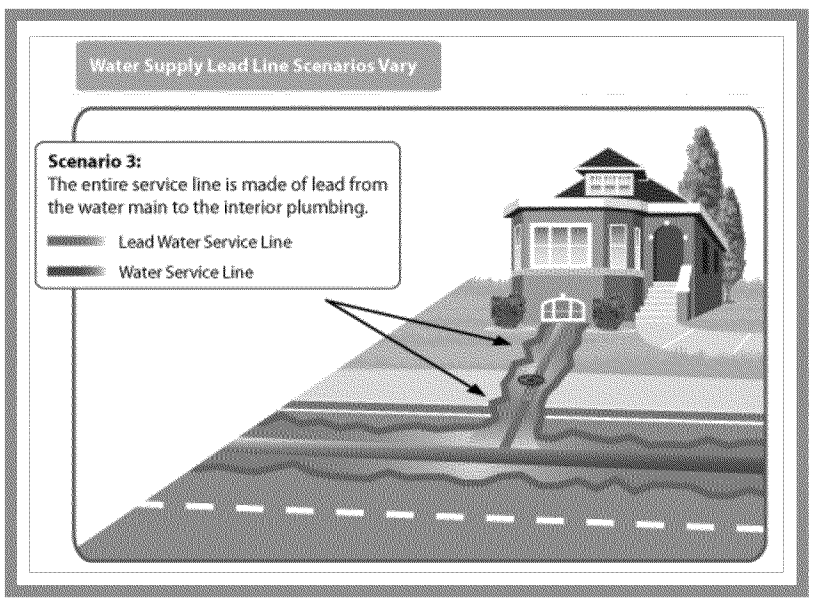
Why Did EPA Test the Water?

- Street or construction work can sometimes disturb service lines, releasing high lead into the water
- EPA did these tests on a pilot basis out of abundance of caution.
- First 43 homes excavated in zones 2 and 3.

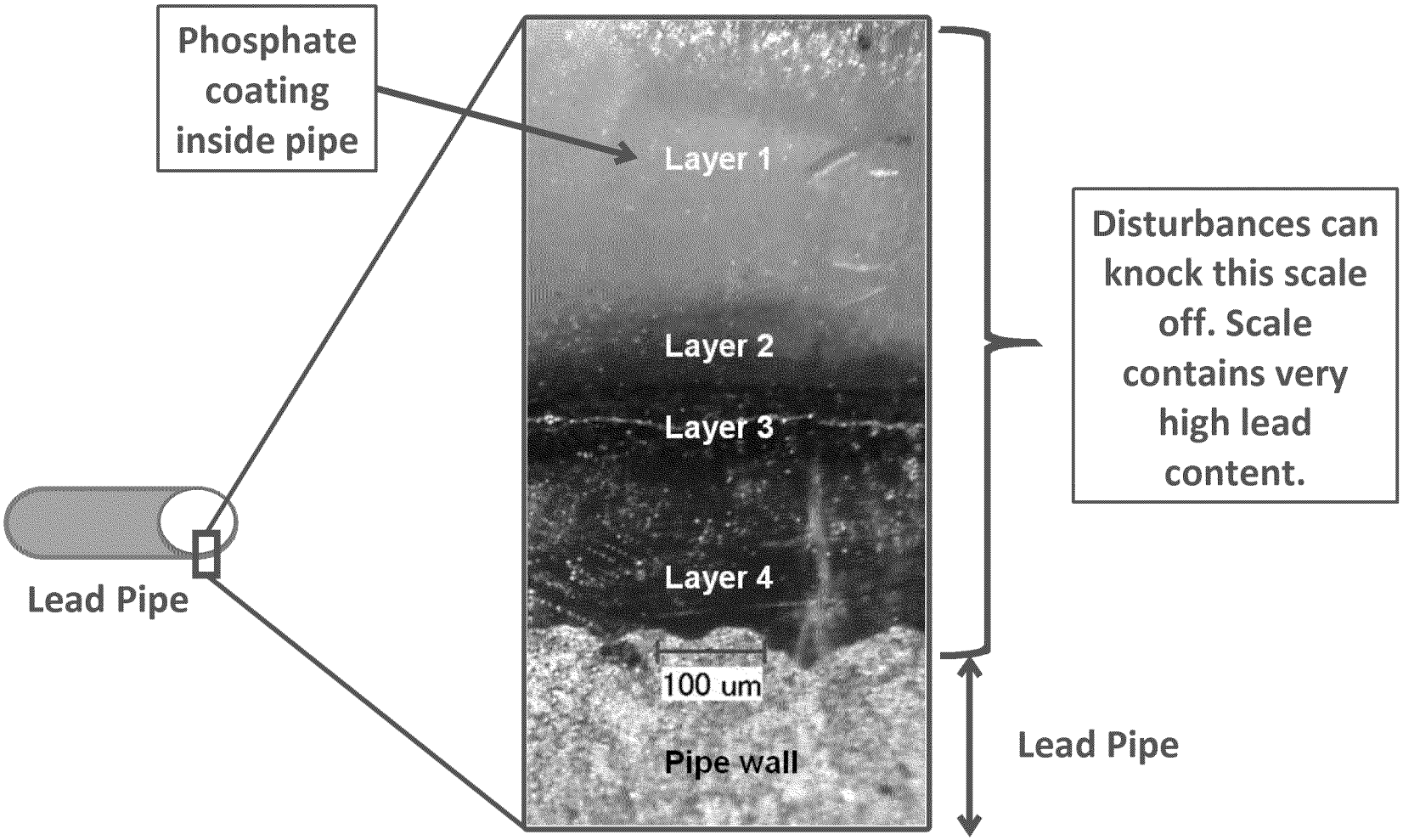
Lead Service Lines





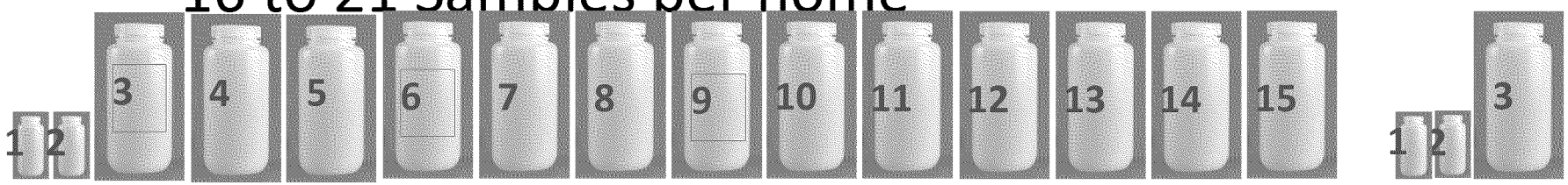


Treatment and Physical Disturbances



How Did EPA Test the Water?

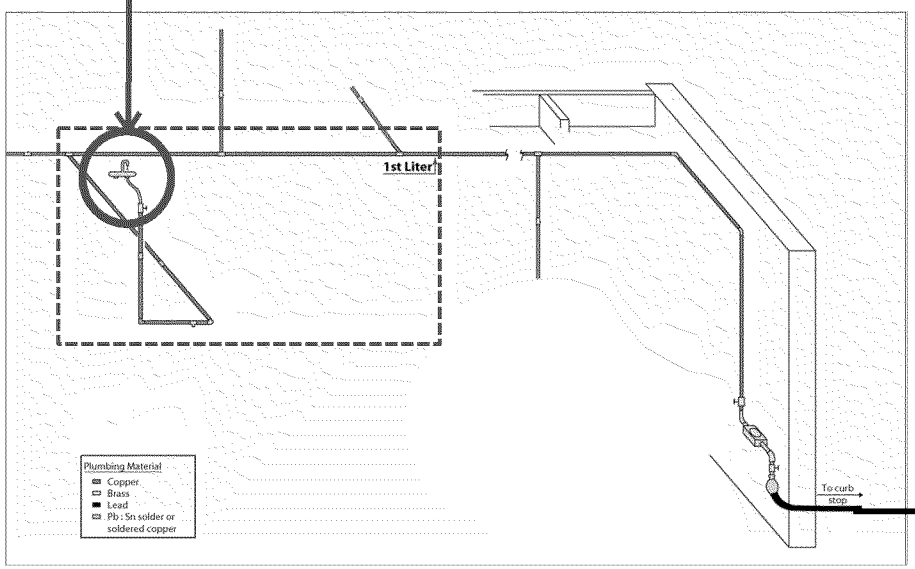
- EPA used ‘sequential sampling’ to test water
  - Different from required compliance testing by city.
- Sequential sampling is a more rigorous series of testing
  - Used by EPA and researchers in previous studies.
- Compliance testing measures lead levels throughout the city’s entire drinking water distribution system.
  - One sample per home
- Sequential sampling focuses on single homes in depth.
  - 16 to 21 Samples per home



What is 'Sequential Sampling'?

A set of samples, collected one right after another that captures all of the water in the plumbing from the kitchen tap to the water main

Kitchen tap



For comparison, the red dashed box indicates what is captured by one 1-liter sample

Service Line

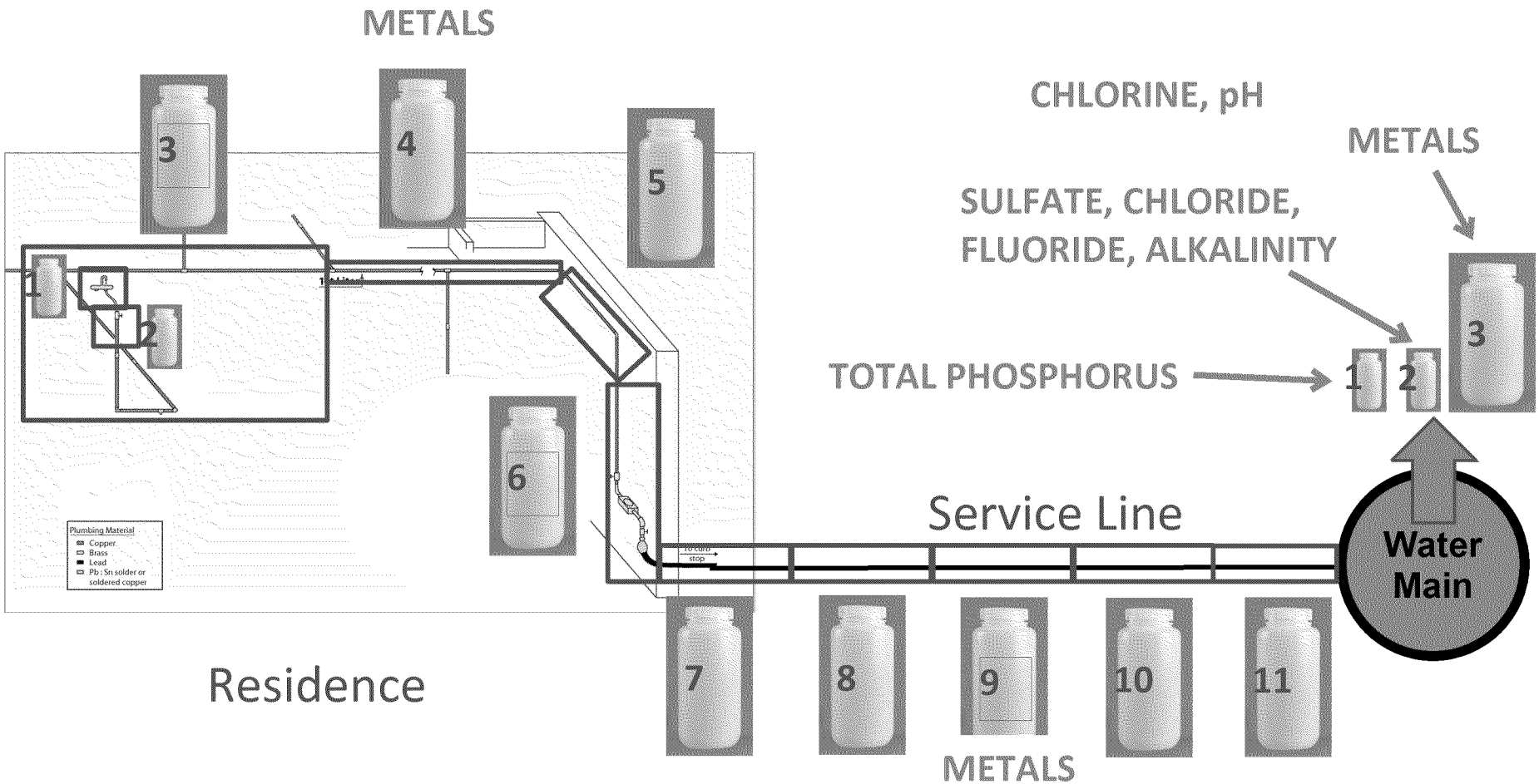
Residence

NOT TO SCALE

Wate r

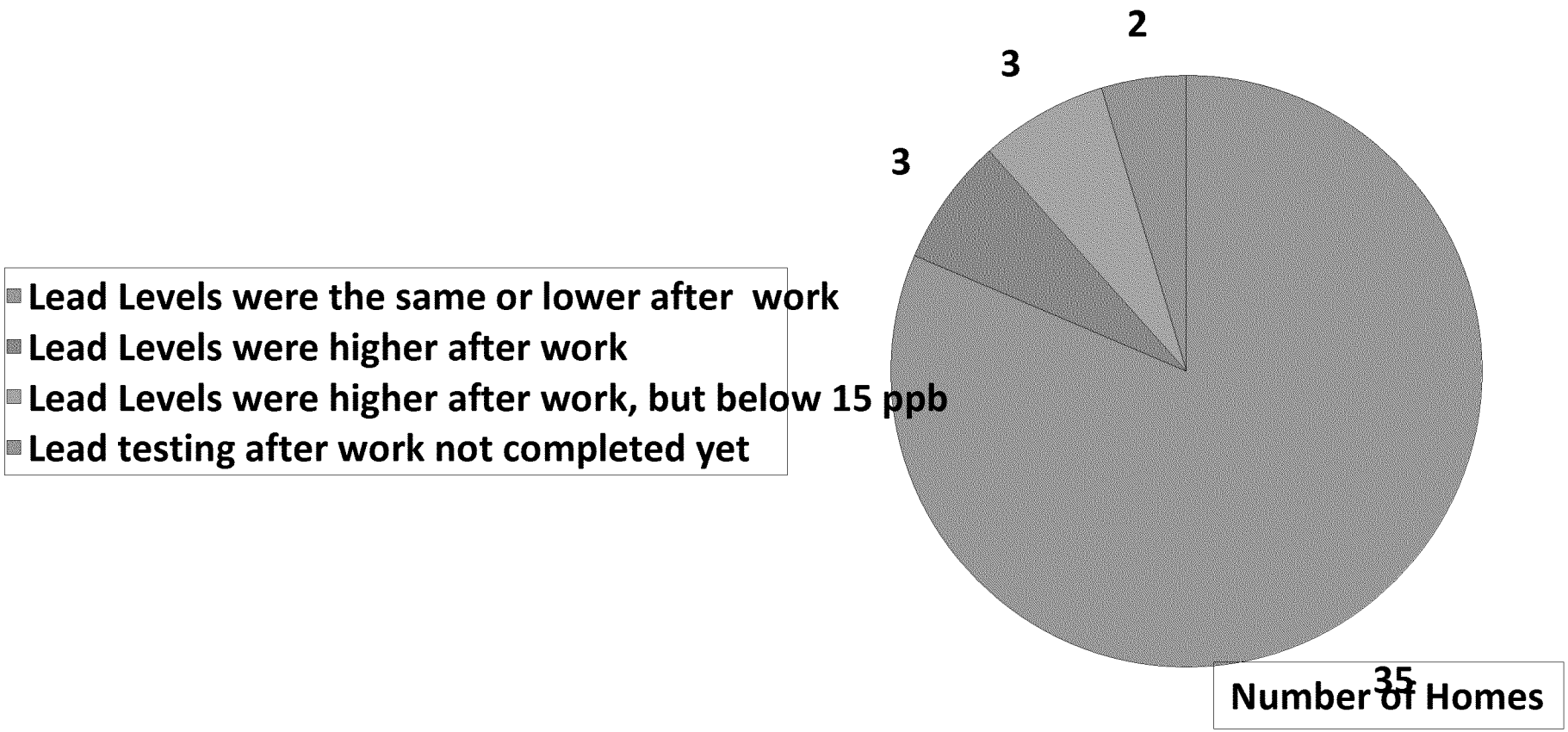
What is 'Sequential Sampling'?

Sampling is for Diagnostic Purposes, not Compliance
16 to 21 samples collected at each home before and after soil clean-up



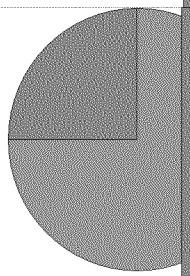
What Did the Results Show?

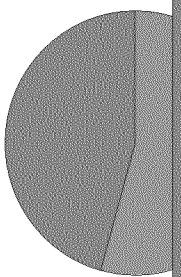
Summary of Lead Results
(Before and After Soil Clean-up)

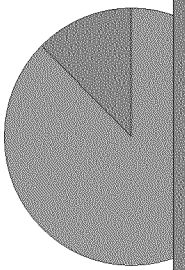


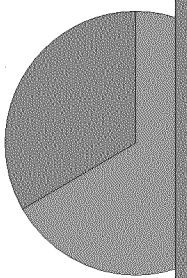
Before excavation, 18 of 43 (42%) homes had lead levels in tap water that exceeded 15 parts per billion (ppb).

t Did the Results Sh









What Did the Results Show?

- Good chlorine, stable pH, but low phosphate
- Flushing after completion of soil clean-up significantly lowered lead levels at some homes with high lead.
- EPA is reviewing data/information to determine whether excavation is affecting lead levels in zones 2 and 3.

What is Being Done by State/City?

- IDEM has been working with the City to optimize the dosage of the current corrosion control treatment.
- The treatment forms a protective coating on the interior of the pipes to reduce lead levels in the water.
- East Chicago is exploring funding for replacing lead service lines.

What is Being Done by EPA?

- Potential revisions to the Lead and Copper Rule at the national level.
  - Goal: Improve the effectiveness of the rule in reducing exposure to lead and copper from drinking water.
  - EPA anticipates proposed rule changes soon.
- Research to help identify homes with lead service lines (scheduled for 2017).
- Incorporating flushing into standard procedures for residential soil clean-up.

What Can Residents Do?

- **Use an NSF-53 Certified Water Filter for cooking, drinking and baby formula.**
- Run the kitchen tap on cold for at least 5 minutes before using any tap water for drinking or cooking or making baby formula.
- Use only cold water for eating, drinking and brushing your teeth.
- Boiling water will not remove lead and can concentrate it.
- Clean your faucet aerators on a regular basis to remove particles that may contain lead
- More advice is available at www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water

Still Have Questions?

East Chicago Water Sampling Data:
https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

Information on Lead and Copper Rule Long-Term Revisions:
www.epa.gov/dwstandardsregulations/lead-and-copper-rule-long-term-revisions

Stop by the Water Booth!

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]
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From: Cannon, Phillippa
Sent: Fri 1/27/2017 10:30:23 PM
Subject: RE: East Chicago drinking water FAQs

I will bring them with me tomorrow. I'll be down there around 9 a.m.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Donnelly, Peggy
Sent: Friday, January 27, 2017 4:22 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: East Chicago drinking water FAQs

Are Tom or Andrea there to bring home the copies tonight? If not, I can pick them up from the office in the morning, if you bring them to my desk Ex. 6 - Personal Privacy (I'm not sure that my keycard works on your floor on weekends.)

Peg Donnelly

U.S.EPA, R5, Water Division

77 W Jackson, Chicago IL

312.886.6109 office

312.914.4794 cell

Sent from my iPhone

On Jan 27, 2017, at 4:19 PM, Kelley, Jeff <kelley.jeff@epa.gov> wrote:

I think Phillippa suggested 150 copies.

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

On Fri, Jan 27, 2017 at 4:17 PM -0600, "Bair, Rita" <bair.rita@epa.gov> wrote:

We have not printed them because I never got a reply on how many to make. I can do it now, if someone tells me how many to make.

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:31 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Phillippa, what do you think?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Thursday, January 26, 2017 9:30 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago drinking water FAQs

We can do that. How many do you recommend that we have on hand?

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:05 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: East Chicago drinking water FAQs

Barring any last minute corrections, attached are the final FAQs. My office can post these to the website today. Someone will need to produce some hard copies to bring to the open house … Rita, can you guys do that?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Pina, Yvette
Sent: Thursday, January 26, 2017 8:15 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: East Chicago drinking water FAQs

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 4:49 PM
To: Pina, Yvette <pina.yvette@epa.gov>
Subject: FW: East Chicago drinking water FAQs

A couple more edits to the FAQs …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Wednesday, January 25, 2017 4:26 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Q. Did EPA test for other metals?

A. EPA performed sequential sampling for many different chemical contaminants and is also conducting other water quality testing to comprehensively evaluate the effects of excavation at the superfund site. All of the final results will be shared with participants, the city and the state. Results that are currently available can be found at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study.

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

I think this is done … last chance for edits before the open house …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Sulej, Erik[Sulej.Erik@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]
From: Donnelly, Peggy
Sent: Fri 1/27/2017 5:20:47 PM
Subject: Re: East Chicago - water materials for Open House

MDT - one minor suggestion, **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

On Jan 27, 2017, at 10:03 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

Hi all,

Attached are the updated graphs/tables.

Erik - Can you please print me a color copy for the water booth?

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Porter, Andrea
Sent: Friday, January 27, 2017 8:59:04 AM
To: Poy, Thomas; Deltoral, Miguel; Donnelly, Peggy; Korleski, Christopher
Cc: Rowan, Anne; Kelley, Jeff; Pope, Janet
Subject: RE: East Chicago - water materials for Open House

Hi All,

I have the flash drive with the letters on it. Plus, Tom Poy does have one hard copy of each, too.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Poy, Thomas
Sent: Friday, January 27, 2017 8:16 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: RE: East Chicago - water materials for Open House

Erik was going to put the letters onto a flash drive for Andrea. Chris and I have hard copies.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Deltoral, Miguel
Sent: Friday, January 27, 2017 7:11 AM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: East Chicago - water materials for Open House

I did not have a chance to copy these files onto a flash drive.

Rita - I remember we talked about this but I can't recall who was going to do this (Erik?)

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Donnelly, Peggy
Sent: Thursday, January 26, 2017 8:40:09 PM
To: Deltoral, Miguel; Porter, Andrea; Poy, Thomas; Korleski, Christopher
Cc: Rowan, Anne; Kelley, Jeff; Pope, Janet
Subject: Re: East Chicago - water materials for Open House

I do not have resident results letter either in hard copy or electronic copies on thumb drive... Andrea or MDT, are you already bringing those? Or need me to help?

Peg Donnelly

U.S.EPA, R5, Water Division

77 W Jackson, Chicago IL

312.886.6109 office

312.914.4794 cell

Sent from my iPhone

On Jan 26, 2017, at 8:30 PM, Donnelly, Peggy <Donnelly.Peggy@epa.gov> wrote:

Hi folks –

I have the following materials in the GOV that I will be bringing to the Open House in East Chicago on Saturday:

- Five mounted posters (map of sequential sites, list of analytes, general drinking water treatment graphic, LSL graphic with sequential graph, photos of sampling)

- Two copies of the Z2 and Z3 "master" spreadsheets with water results (one copy with PII, one with PII removed)

- Pamphlets for reducing lead risk in your home, and lead paint (in English and Spanish)

- Pipes (Pb, galvanized, and maybe Cu) and a magnet - MIGUEL, YOUR DEMO PIPES ARE BETTER IF YOU CAN BRING THEM?

- Faucet, filters, and cartridges for demonstration

- Cooler of sequential water sample bottles

- Field instruments (pH and chlorine)

At my desk there are two more boxes of handout materials with lead paint information. Janet, if you think more of these are helpful, you are welcome to get them from my desk (16-125).

I will be in meetings in Portage, IN tomorrow (Friday) and not planning to come into the office. But, if you need me to stop and pick up more materials for the Open House, let me know and I can swing thru the city around 4:30 pm.

Also, if anyone needs a ride on Saturday, I will be coming from the far Northwest

suburbs, and I'm glad to pick you up along the way (or at the office). Otherwise, I'll see you at the school around 10 am. JANET, IF YOU NEED HELP SETTING THINGS UP EARLIER THAN 10 AM, I'M GLAD TO HELP, JUST HOLLAR.

-Peg

Peg Donnelly

U.S. EPA, R5, Water Division

77 W Jackson Blvd

Chicago IL 60604

312.886.6109 office

312.914.4794 cell

donnelly.peggy@epa.gov

<East Chicago Graphs ALL SITES with summaries updated 2017-01-22 (non-PII version).pdf>

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Bassler, Rachel[Bassler.Rachel@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]
From: Deltoral, Miguel
Sent: Fri 1/27/2017 1:17:26 PM
Subject: Re: IDEM drinking water fact sheets

Folks know my feelings on this, but Rita is right that this is IDEM's fact sheet and they will have to defend it. I will base my responses on the science as always.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Donnelly, Peggy
Sent: Thursday, January 26, 2017 1:56:21 PM
To: Bair, Rita
Cc: Bassler, Rachel; Cannon, Phillippa; Deltoral, Miguel; Porter, Andrea; Poy, Thomas; Kelley, Jeff; Rowan, Anne
Subject: Re: IDEM drinking water fact sheets

I agree with Rita.

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

> On Jan 26, 2017, at 1:02 PM, Bair, Rita <bair.rita@epa.gov> wrote:
>

Ex. 5 - Deliberative Process

>
> Does anyone else have input?
>
> -----Original Message-----
> From: Bassler, Rachel
> Sent: Thursday, January 26, 2017 11:56 AM
> To: Bair, Rita <bair.rita@epa.gov>
> Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas

<poy.thomas@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
> Subject: RE: IDEM drinking water fact sheets
>
> Hi Rita,
>

Ex. 5 - Deliberative Process

>
> Is WD ok with this edit?
>
> Thanks,
> Rachel
>
> Rachel Bassler
> Press Officer
> U.S. EPA Region 5
> bassler.rachel@epa.gov
> p: 312-886-7159
> c: 312-914-3393
>
> -----Original Message-----
> From: Bair, Rita
> Sent: Wednesday, January 25, 2017 4:32 PM
> To: Bassler, Rachel <Bassler.Rachel@epa.gov>
> Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
> Subject: RE: IDEM drinking water fact sheets
>
> Rachel, at the end of the call with IDEM, the Comms guy asked that we send him the fact sheet with text of concern highlighted. I am attaching the fact sheet with the one sentence of concern if you want to send it on to him. We can also send them the EPA FAQ that shows how the information is presented differently. However, the message is still as Peg described that we are now finding with sequential sampling that more lead is attributable to the service line than interior plumbing. Let me know if you need anything else.
>
> -----Original Message-----
> From: Cannon, Phillippa
> Sent: Wednesday, January 25, 2017 9:19 AM
> To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
> Subject: FW: IDEM drinking water fact sheets
>
>
>
> Phillippa Cannon
> Chief, Community Involvement Section
> U.S. EPA Region 5
> 312-353-6218
>
>
> -----Original Message-----
> From: Bassler, Rachel
> Sent: Wednesday, January 25, 2017 9:14 AM
> To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>
> Cc: Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>

> Subject: FW: Declined: Rachel Bassler/Ryan Clem standing meeting
>
> Hi Phillippa,
>
> Attached are the two documents that IDEM will bring to the Open House on Saturday. Thoughts? Maybe our service line infographic would be better instead?
>
> Thanks,
> Rachel
>
> Rachel Bassler
> Press Officer
> U.S. EPA Region 5
> bassler.rachel@epa.gov
> p: 312-886-7159
> c: 312-914-3393
>
>

Ex. 6 - Personal Privacy Site 3016 -- Bar Sink Faucet

Sequential Sampling by U.S. EPA

Final Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/18/2016																			Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink																	Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)	16th sample (1 liter)	17th sample (1 liter)	18th sample (1 liter)					
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	2.4	2.1	2.2	2.4	2.3	2.6	2.5	2.2	2.4	2.0 U	1.8 U	1.7 U	1.6 U	1.8 U	1.6 U	1.6 U	1.5 U	1.2 U	1.5 U	--	15	0	--
Lead (Duplicate)	µg/L	1.35	1.25	1.25	1.63	1.59	1.84	1.75	1.50	1.29	1.00	0.86	0.84	0.83	0.82	0.81	0.82	0.84	0.82	0.77	--	15	0	--
RPD (%)		56%	51%	55%	38%	37%	34%	35%	38%	60%														
Difference (ppb)		-1.05	-0.85	-0.95	-0.77	-0.71	-0.76	-0.75	-0.70	-1.11														
Manganese	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	82	49	61	26	26	22	20 U	20 U	22	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	5000
Aluminum	mg/L	0.088	0.083	0.081	0.090	0.088	0.091	0.091	0.086	0.090	0.095	0.092	0.087	0.087	0.088	0.084	0.089	0.092	0.095	0.090	--	--	--	0.05 to 0.2
Calcium	mg/L	37	36	36	38	37	37	38	37	37	39	38	37	37	37	35	37	37	41	38	--	--	--	--
Iron	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	13	13	13	13	13	13	13	13	13	14	13	13	13	13	12	13	13	14	13	--	--	--	--
Potassium	mg/L	1.6	1.6	1.6	1.7	1.6	1.6	1.7	1.6	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.8	1.6	--	--	--	--
Sodium	mg/L	12	11	11	12	12	12	12	12	12	12	12	11	12	12	11	11	11	13	12	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled																		110	--	--	--	--
Chloride	mg/L	Not Sampled																		3.0	--	--	--	250
Fluoride	mg/L	Not Sampled																		0.50 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																		50.0 U	--	--	--	250
Total Phosphorus	mg/L	Not Sampled																		0.050 U	--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

PRELIMINARY - Data is preliminary pending formal data review and validation as specified by laboratory and quality assurance review procedures. Therefore, the presented preliminary analytical results may be subjected to change. Unfortunately, final data is not available at this time due to delays at the contract laboratory. Residents will be notified when data has been finalized, including any changes made based on formal quality assurance review.

Ex. 6 - Personal Privacy -- Site 3070 -- Kitchen Sink Faucet

Sequential Sampling by U.S. EPA

Final Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/11/2016																			Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink																					
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)	16th sample (1 liter)	17th sample (1 liter)	18th sample (1 liter)	Distribution System				
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.9	4.0 U	4.0 U	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	12	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	9.5	7.0	5.1	8.4	8.6	8.6	8.6	9.2	10	11	13	9.1	5.0	3.7	5.4	3.7	3.6	4.2	3.4	--	15	0	--
Lead (Duplicate)	µg/L	7.37	5.65	3.88	6.11	6.88	6.82	6.61	6.93	7.55	8.93	10.1	7.14	3.82	2.89	2.74	2.67	2.66	2.63	2.18				
RPD (%)		25%	21%	27%	32%	22%	23%	26%	28%	28%	21%	25%	24%	27%	25%	65%	32%	30%	46%	44%				
Difference (ppb)		-2.13	-1.35	-1.22	-2.29	-1.72	-1.78	-1.99	-2.27	-2.45	-2.07	-2.90	-1.96	-1.18	-0.81	-2.66	-1.03	-0.94	-1.57	-1.22				
Manganese	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	4.9	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	270	140	71	32	26	28	32	23	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	21	--	--	--	5000
Aluminum	mg/L	0.068	0.072	0.081	0.087	0.084	0.085	0.086	0.087	0.087	0.081	0.084	0.084	0.084	0.081	0.098	0.097	0.096	0.097	0.085	--	--	--	0.05 to 0.2
Calcium	mg/L	37	36	39	39	37	38	38	39	39	37	37	37	37	38	36	37	36	36	38	--	--	--	--
Iron	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	13	13	14	14	13	14	14	14	14	13	13	13	13	13	13	13	13	13	13	--	--	--	--
Potassium	mg/L	1.6	1.6	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.6	1.7	1.6	1.7	1.7	1.6	1.6	1.6	1.6	1.7	--	--	--	--
Sodium	mg/L	12	12	13	13	12	13	13	13	13	12	13	12	12	13	12	12	12	12	13	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled																		110	--	--	--	--
Chloride	mg/L	Not Sampled																		3.0	--	--	--	250
Fluoride	mg/L	Not Sampled																		0.50 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																		50.0 U	--	--	--	250
Total Phosphorus	mg/L	Not Sampled																		0.050 U	--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

PRELIMINARY - Data is preliminary pending formal data review and validation as specified by laboratory and quality assurance review procedures. Therefore, the presented preliminary analytical results may be subjected to change. Unfortunately, final data is not available at this time due to delays at the contract laboratory. Residents will be notified when data has been finalized, including any changes made based on formal quality assurance review.

Ex. 6 - Personal Privacy - Site 3074 -- Kitchen Sink Faucet
Sequential Sampling by U.S. EPA
PRELIMINARY Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/15/2016																			Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink																	Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)	16th sample (1 liter)	17th sample (1 liter)	18th sample (1 liter)					
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	42	29	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	1.2 J	1.5 J	2.5	1.5 J	1.6 J	1.6 J	1.6 J	1.5 J	1.5 J	1.6 J	1.9 J	4.3	5.3	5.2	1.7 J	1.6 J	2.0	1.5 J	1.5 J	--	15	0	--
Lead (Duplicate)	µg/L	0.99	1.30	1.49	1.44	1.46	1.44	1.40	1.34	1.38	1.51	1.92	3.90	5.52	4.75	1.88	1.51	1.43	1.38	1.33	--	15	0	--
RPD (%)				51%									10%	-4%	9%			33%						
Difference (ppb)				-1.01														-0.57						
Manganese	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.5	5.4	7.9	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	280	72	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	5000
Aluminum	mg/L	0.080	0.090	0.094	0.095	0.093	0.10	0.092	0.10	0.096	0.093	0.097	0.10	0.10	0.12	0.086	0.092	0.20 U	0.092	0.090	--	--	--	0.05 to 0.2
Calcium	mg/L	38	36	37	37	37	38	37	40	38	36	35	38	37	38	34	35	34	36	36	--	--	--	--
Iron	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.14	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.11	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	13	13	13	13	13	13	13	14	13	13	12	14	13	13	12	13	12	13	13	--	--	--	--
Potassium	mg/L	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.8	1.7	1.6	1.6	1.7	1.6	1.7	1.5	1.5	1.5	1.6	1.6	--	--	--	--
Sodium	mg/L	12	12	12	12	12	12	12	13	12	12	11	12	12	12	11	12	11	12	12	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled																		120	--	--	--	--
Chloride	mg/L	Not Sampled																		3.0	--	--	--	250
Fluoride	mg/L	Not Sampled																		0.50 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																		50.0 U	--	--	--	250
Total Phosphorus	mg/L	Not Sampled																		0.050 U	--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
(U) = Not detected above the listed reporting limit
(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.
Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.
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Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

PRELIMINARY - Data is preliminary pending formal data review and validation as specified by laboratory and quality assurance review procedures. Therefore, the presented preliminary analytical results may be subjected to change. Unfortunately, final data is not available at this time due to delays at the contract laboratory. Residents will be notified when data has been finalized, including any changes made based on formal quality assurance review.

Ex. 6 - Personal Privacy - Site 3088 -- Kitchen Sink Faucet

Sequential Sampling by U.S. EPA

Final Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/17/2016																			Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink																	Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)	16th sample (1 liter)	17th sample (1 liter)	18th sample (1 liter)					
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.2	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	100	220	270	81	43	22	11	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	2.8	2.3	2.6	3.1	3.6	4.8	6.5	6.5	6.8	7.8	9.8	16	26	25	11	5.2	4.3	3.3	2.8	--	15	0	--
Lead (Duplicate)	µg/L	2.54	2.09	2.33	2.76	3.03	4.15	5.73	6.09	6.44	6.91	8.43	15.6	24.4	24.4	10.4	4.87	3.94	2.88	2.32				
RPD (%)		10%	10%	11%	12%	17%	15%	13%	7%	5%	12%	15%	3%	6%	2%	6%	7%	9%	14%	19%				
Manganese	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	4.0	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	150	33	27	27	43	30	53	43	34	44	41	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	5000
Aluminum	mg/L	0.059	0.066	0.054	0.086	0.094	0.091	0.089	0.083	0.083	0.085	0.088	0.080	0.095	0.088	0.085	0.082	0.082	0.086	0.092	--	--	--	0.05 to 0.2
Calcium	mg/L	35	35	35	39	38	37	37	36	36	38	38	35	39	36	35	36	36	36	39	--	--	--	--
Iron	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	12	12	13	13	13	12	13	12	12	13	13	12	13	12	12	12	12	12	13	--	--	--	--
Potassium	mg/L	1.6	1.7	1.6	1.8	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.5	1.8	1.6	1.6	1.6	1.6	1.6	1.8	--	--	--	--
Sodium	mg/L	11	11	11	12	12	11	12	11	11	12	12	11	12	11	11	11	11	11	12	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled																		120	--	--	--	--
Chloride	mg/L	Not Sampled																		3.0	--	--	--	250
Fluoride	mg/L	Not Sampled																		0.50 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																		50.0 U	--	--	--	250
Total Phosphorus	mg/L	Not Sampled																		0.050 U	--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

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Ex. 6 - Personal Privacy **Site 3092 -- Kitchen Sink Faucet**

Sequential Sampling by U.S. EPA

Final Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/10/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	µg/L	1.7 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.9 U	3.8 U	4.0 U	3.7 U	3.6 U	3.5 U	3.2 U	3.6 U	3.4 U	3.7 U	3.8 U	5.8 U	3.9 U	4.0 U	3.9 U	3.9 U	100	--	100	--
Copper	µg/L	58	38	35	16	20	12	9.3 U	7.0 U	8.6 U	5.9 U	5.9 U	37	8.7 U	5.1 U	4.3 U	3.4 U	--	1300	1300	1000
Lead	µg/L	3.9	2.3	0.89 U	0.98 U	1.7 U	1.6 U	0.91 U	1.3 U	1.6 U	1.2 U	1.6 U	7.6	6.2	1.5 U	1.1 U	1.2 U	--	15	0	--
Lead (Duplicate)	µg/L	1.05	0.5 U	0.5 U	0.5 U	0.72	1.16	0.58	0.5 U	0.79	0.73	0.91	5.91	4.80	0.82	0.50	0.5 U	--	15	0	--
RPD (%)		115%	129%										25%	25%							
Difference (ppb)		-2.85	-1.80										-1.69	-1.40							
Manganese	µg/L	2.5 J	0.76 U	0.97 U	2.5 J	0.61 U	0.71 U	0.72 U	0.78 U	1.1 J	0.94 U	1.1 J	1.9 J	1.1 J	1.2 J	1.1 J	1.2 J	--	--	--	50
Nickel	µg/L	80	6.2	4.2	2.0 J	2.1 J	1.9 J	2.0 J	2.0 J	2.1 J	2.1 J	2.1 J	3.2 J	2.3 J	2.1 J	2.1 J	2.2 J	--	--	--	--
Zinc	µg/L	210	73	27	32	35	23	22	22	64	120	120	72	26	18 U	15 U	10 U	--	--	--	5000
Aluminum	mg/L	0.074	0.080	0.087	0.090	0.096	0.090	0.092	0.092	0.091	0.093	0.086	0.094	0.090	0.092	0.093	0.090	--	--	--	0.05 to 0.2
Calcium	mg/L	36 J+	36 J+	36 J+	37 J+	36 J+	35 J+	37 J+	37 J+	38 J+	38 J+	36 J+	36 J+	36 J+	37 J+	37 J+	37 J+	--	--	--	--
Iron	mg/L	0.020 U	0.10 U	0.018 U	0.017 U	0.10 U	0.10 U	0.016 U	0.10 U	0.10 U	0.020 U	0.017 U	0.074 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	13	13	13	13	13	13	13	13	14	14	13	13	13	13	13	13	--	--	--	--
Potassium	mg/L	1.6	1.6	1.7	1.7	1.6	1.6	1.7	1.7	1.8	1.8	1.6	1.6	1.6	1.7	1.7	1.7	--	--	--	--
Sodium	mg/L	12	12	12	12	12	12	12	13	13	13	12	12	12	12	12	12	--	--	--	--
Tin	mg/L	0.0023 U	0.020 U	0.0037 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.0016 U	0.020 U	0.0021 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled															110	--	--	--	--
Chloride	mg/L	Not Sampled															3.0	--	--	--	250
Fluoride	mg/L	Not Sampled															0.15 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled															23.9 J	--	--	--	250
Total Phosphorus	mg/L	Not Sampled															0.018 J	--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

Ex. 6 - Personal Privacy - Site 3224 -- Kitchen Sink Faucet
Sequential Sampling by U.S. EPA
PRELIMINARY Analytical Results

Parameter	Units	Your Results - Before Excavation on 9/28/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink																		
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)	Distribution System				
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	5.4	5.7	6.6	5.8	5.6	7.3	23	34	27	25	19	17	7.8	5.3	5.0	3.7	--	15	0	--
Lead (Duplicate)	µg/L	4.25	4.62	4.87	4.56	4.32	6.11	19.6	28.6	23.0	20.2	15.9	14.5	6.31	4.28	4.07	3.02	--	15	0	--
RPD (%)		24%	21%	30%	24%	26%	18%	16%	17%	16%	21%	18%	16%	21%	21%	21%	20%				
Difference (ppb)		-1.15	-1.08	-1.73	-1.24	-1.28								-1.49	-1.02	-0.93					
Manganese	µg/L	4.5	5.3	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	5.6	4.0 U	4.8	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	160	120	37	25	27	120	94	29	21	22	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	5000
Aluminum	mg/L	0.070	0.095	0.087	0.089	0.088	0.088	0.085	0.088	0.086	0.089	0.088	0.090	0.075	0.071	0.069	0.064	--	--	--	0.05 to 0.2
Calcium	mg/L	35	35	35	36	35	35	35	35	34	35	35	36	34	35	35	35	--	--	--	--
Iron	mg/L	0.24	0.26	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	14	14	14	14	14	14	13	14	13	14	14	14	13	14	14	14	--	--	--	--
Potassium	mg/L	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.4	1.5	1.5	1.5	--	--	--	--
Sodium	mg/L	12	12	12	12	12	12	12	12	11	12	12	12	11	12	12	12	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled															120	--	--	--	--
Chloride	mg/L	Not Sampled															3.0	--	--	--	250
Total Phosphorus	mg/L	Not Sampled															0.050	--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
U = Not detected above the listed reporting limit

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

PRELIMINARY - Data is preliminary pending formal data review and validation as specified by laboratory and quality assurance review procedures. Therefore, the presented preliminary analytical results may be subjected to change. Unfortunately, final data is not available at this time due to delays at the contract laboratory. Residents will be notified when data has been finalized, including any changes made based on formal quality assurance review.

Ex. 6 - Personal Privacy -- Site 3226 -- Kitchen Sink Faucet
Sequential Sampling by U.S. EPA
PRELIMINARY Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/17/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	13	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	6.7 J+	4.2 J+	3.8 J+	4.5 J+	4.3 J+	5.3 J+	5.7 J+	5.6 J+	5.3 J+	5.1 J+	5.3 J+	5.6 J+	4.4 J+	4.6 J+	3.7 J+	2.6 J+	--	15	0	--
Lead (Duplicate)	µg/L	5.68	3.80	3.42	4.02	4.11	4.83	5.22	5.03	4.84	4.83	4.81	4.88	4.51	3.99	3.47	2.37	--	15	0	--
RPD (%)		16%	10%	11%	11%	5%	9%	9%	11%	9%	5%	10%	14%	-2%	14%	6%	9%				
Manganese	µg/L	5.2	5.4	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	6.0	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	110	62	37	25	46	76	48	28	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	5000
Aluminum	mg/L	0.088	0.082	0.078	0.12	0.074	0.080	0.076	0.077	0.079	0.091	0.092	0.095	0.088	0.093	0.090	0.089	--	--	--	0.05 to 0.2
Calcium	mg/L	38	35	36	36	34	36	36	37	36	37	37	38	34	37	36	37	--	--	--	--
Iron	mg/L	0.31	0.41	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	13	12	12	12	12	12	12	13	13	12	12	13	12	13	12	13	--	--	--	--
Potassium	mg/L	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.5	1.6	1.6	1.6	--	--	--	--
Sodium	mg/L	12	11	11	11	10	11	11	11	11	11	11	12	11	11	11	12	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled															120	--	--	--	--
Chloride	mg/L	Not Sampled															3.0	--	--	--	250
Fluoride	mg/L	Not Sampled															0.50 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled															50.0 U	--	--	--	250
Total Phosphorus	mg/L	Not Sampled															0.050 U	--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

PRELIMINARY - Data is preliminary pending formal data review and validation as specified by laboratory and quality assurance review procedures. Therefore, the presented preliminary analytical results may be subjected to change. Unfortunately, final data is not available at this time due to delays at the contract laboratory. Residents will be notified when data has been finalized, including any changes made based on formal quality assurance review.

Ex. 6 - Personal Privacy -- Site 3282 -- Kitchen Sink Faucet
Sequential Sampling by U.S. EPA
PRELIMINARY Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/15/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	100	--	100	--
Copper	µg/L	32	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	1300	1300	1000
Lead	µg/L	3.0	1.9 J	10	9.4	5.3	5.8	9.2	8.5	8.6	6.7	4.2	2.6	2.0 J	1.8 J	1.7 J	1.4 J	--	15	0	--
Lead (Duplicate)	µg/L	2.41	1.53	9.10	7.61	5.66	4.93	7.86	9.11	7.57	6.17	3.89	2.21	1.74	1.63	1.60	1.24	--	15	0	--
RPD (%)		22%		9%	21%	-7%	16%	16%	-7%	13%	8%	8%	16%								
Difference (ppb)		-0.59			-1.79																
Manganese	µg/L	4.0 U	4.0 U	8.0	7.6	4.0 U	4.0 U	6.9	6.5	6.0	4.3	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	50
Nickel	µg/L	12	4.0 U	4.6	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Zinc	µg/L	590	300	130	37	20	30	34	88	36	170	41	20 U	20 U	20 U	20 U	20 U	--	--	--	5000
Aluminum	mg/L	0.081	0.083	0.14	0.12	0.097	0.11	0.12	0.11	0.12	0.11	0.096	0.093	0.096	0.093	0.090	0.090	--	--	--	0.05 to 0.2
Calcium	mg/L	35	36	36	37	34	37	37	35	36	36	35	36	37	36	35	35	--	--	--	--
Iron	mg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	12	12	12	13	12	13	13	12	13	12	12	12	13	12	12	12	--	--	--	--
Potassium	mg/L	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.6	--	--	--	--
Sodium	mg/L	11	11	11	11	11	12	12	11	12	11	11	11	12	11	11	11	--	--	--	--
Tin	mg/L	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled															120	--	--	--	--
Chloride	mg/L	Not Sampled															3.0	--	--	--	250
Fluoride	mg/L	Not Sampled															0.50 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled															50.0 U	--	--	--	250
Total Phosphorus	mg/L	Not Sampled															0.050 U	--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

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PRELIMINARY - Data is preliminary pending formal data review and validation as specified by laboratory and quality assurance review procedures. Therefore, the presented preliminary analytical results may be subjected to change. Unfortunately, final data is not available at this time due to delays at the contract laboratory. Residents will be notified when data has been finalized, including any changes made based on formal quality assurance review.

Ex. 6 - Personal Privacy - Site 3301 -- Kitchen Sink Faucet
Sequential Sampling by U.S. EPA
Final Analytical Results

Parameter	Units	Your Results - Before Excavation on 10/19/2016																			Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink																	Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)	16th sample (1 liter)	17th sample (1 liter)	18th sample (1 liter)					
Cadmium	µg/L	2.0 U	0.61 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5	--	5	--
Chromium	µg/L	2.7 U	2.4 U	2.3 U	3.0 U	2.9 U	3.1 U	3.1 U	2.7 U	2.9 U	3.1 U	2.9 U	2.4 U	3.1 U	3.6 U	3.3 U	4.0 U	3.3 U	3.5 U	2.6 U	100	--	100	--
Copper	µg/L	72	3.9 U	3.3 U	3.8 U	4.2 U	5.7 U	2.9 U	2.1 U	2.4 U	2.5 U	2.1 U	1.9 U	2.2 U	2.2 U	1.8 U	2.3 U	1.7 U	1.8 U	2.2 U	--	1300	1300	1000
Lead	µg/L	2.4	2.0 J	2.2	2.5	2.7	3.1	2.8	3.4	3.5	4.8	8.0	9.3	5.3	2.7	1.9 J	2.5	1.8 J	2.1	2.1	--	15	0	--
Lead (Duplicate)	µg/L	1.63	1.62	2.12	2.14	2.27	2.50	2.70	3.01	3.09	4.04	6.95	7.67	3.83	1.75	1.50	1.47	1.46	1.63	1.58	--	15	0	--
RPD (%)		38%		4%	16%	17%	21%	4%	12%	12%	17%	14%	19%	32%	43%		52%		25%	28%				
Difference (ppb)		-0.77					-0.60							-1.47	-0.95		-1.03		-0.47	-0.52				
Manganese	µg/L	5.1	3.1 U	1.2 U	1.1 U	1.1 U	1.1 U	0.82 U	0.89 U	0.90 U	0.86 U	0.75 U	0.72 U	0.99 U	1.2 U	0.96 U	1.2 U	0.92 U	1.1 U	1.0 U	--	--	--	50
Nickel	µg/L	2.5 U	0.61 U	0.63 U	0.58 U	0.57 U	0.67 U	0.52 U	0.60 U	0.61 U	0.69 U	0.57 U	0.57 U	1.1 U	0.95 U	0.68 U	0.91 U	0.66 U	0.72 U	0.97 U	--	--	--	--
Zinc	µg/L	140	110	45	30	30	26	17 J	16 J	16 J	17 J	13 J	11 J	12 J	13 J	10 J	13 J	9.7 J	9.8 J	7.3 J	--	--	--	5000
Aluminum	mg/L	0.078	0.089	0.098	0.090	0.096	0.097	0.084	0.093	0.098	0.090	0.083	0.098	0.088	0.082	0.083	0.081	0.080	0.087	0.077	--	--	--	0.05 to 0.2
Calcium	mg/L	38	36	36	33	36	36	32	36	37	35	33	37	36	36	37	36	35	38	36	--	--	--	--
Iron	mg/L	0.032 U	0.019 U	0.030 U	0.10 U	0.020 U	0.019 U	0.10 U	0.10 U	0.061 U	0.10 U	0.017 U	0.018 U	0.10 U	0.023 U	0.021 U	0.10 U	0.017 U	0.070 U	0.10 U	--	--	--	0.3
Magnesium	mg/L	13	12	12	11	12	12	11	12	13	12	11	13	12	13	13	12	12	13	12	--	--	--	--
Potassium	mg/L	1.6	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.6	1.5	1.4	1.6	1.5	1.5	1.6	1.5	1.5	1.6	1.5	--	--	--	--
Sodium	mg/L	11	11	11	10	11	11	9.8	11	11	11	10	11	11	11	11	11	11	11	11	--	--	--	--
Tin	mg/L	0.0017 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	--	--	--	--
Total Alkalinity	mg CaCO3/L	Not Sampled																		130 J-	--	--	--	--
Chloride	mg/L	Not Sampled																		1.0 J	--	--	--	250
Fluoride	mg/L	Not Sampled																		0.14 U	4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																		40.6 J	--	--	--	250
Total Phosphorus	mg/L	Not Sampled																		0.050 U	--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
(U) = Not detected above the listed reporting limit
(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.
Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.
Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL) indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL) is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

To: Bair, Rita[bair.rita@epa.gov]
Cc: Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Kelley, Jeff
Sent: Thur 1/26/2017 3:30:44 PM
Subject: RE: East Chicago drinking water FAQs

Phillippa, what do you think?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Thursday, January 26, 2017 9:30 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago drinking water FAQs

We can do that. How many do you recommend that we have on hand?

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:05 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: East Chicago drinking water FAQs

Barring any last minute corrections, attached are the final FAQs. My office can post these to the website today. Someone will need to produce some hard copies to bring to the open house … Rita, can you guys do that?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Pina, Yvette
Sent: Thursday, January 26, 2017 8:15 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: East Chicago drinking water FAQs

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 4:49 PM
To: Pina, Yvette <pina.yvette@epa.gov>
Subject: FW: East Chicago drinking water FAQs

A couple more edits to the FAQs …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Wednesday, January 25, 2017 4:26 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

Ex. 5 - Deliberative Process

2. I'm also not sure if you want to add the active Water website to the following?

Q. Did EPA test for other metals?

A. EPA performed sequential sampling for many different chemical contaminants and is also conducting other water quality testing to comprehensively evaluate the effects of excavation at the superfund site. All of the final results will be shared with participants, the city and the state. Results that are currently available can be found at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study.

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

I think this is done … last chance for edits before the open house …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Pope, Janet[Pope.Janet@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Fulghum, Mary[fulghum.mary@epa.gov]
From: Cannon, Phillippa
Sent: Tue 1/24/2017 9:53:25 PM
Subject: RE: Did someone order labels to mail information to the residents of East Chicago?

There are no plans to cancel the meeting.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Donnelly, Peggy
Sent: Tuesday, January 24, 2017 2:45 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>
Subject: Re: Did someone order labels to mail information to the residents of East Chicago?

Ex. 5 - Deliberative Process

approval), will the East Chicago open house likely get cancelled, again?!

Peg Donnelly

U.S.EPA, R5, Water Division

77 W Jackson, Chicago IL

312.886.6109 office

312.914.4794 cell

Sent from my iPhone

On Jan 24, 2017, at 12:28 PM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

I think we should print and bring them with since folks that do not live in Zones 1-3 may come because of the news articles.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Cannon, Phillippa
Sent: Tuesday, January 24, 2017 12:18:55 PM
To: Deltoral, Miguel; Pope, Janet; Donnelly, Peggy
Subject: RE: Did someone order labels to mail information to the residents of East Chicago?

We have address labels, so if we have a final FAQ we can mail it out to residents in advance of the meeting. If we don't have a final version until later in the week, we will skip the mailing and just bring copies to the meeting.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Deltoral, Miguel
Sent: Tuesday, January 24, 2017 12:17 PM
To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Pope, Janet

<Pope.Janet@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Subject: Re: Did someone order labels to mail information to the residents of East Chicago?

If they are not final, we can grab stuff from our EC website on the DW pilot.

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Cannon, Phillippa
Sent: Tuesday, January 24, 2017 12:07:05 PM
To: Pope, Janet; Donnelly, Peggy; Deltoral, Miguel
Subject: RE: Did someone order labels to mail information to the residents of East Chicago?

I have not yet heard whether the Drinking Water FAQs are final.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Pope, Janet
Sent: Tuesday, January 24, 2017 12:05 PM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: Did someone order labels to mail information to the residents of East Chicago?

Janet L. Pope

Community Involvement Coordinator

US EPA, Region 5

312-353-0628

To: MHolling@idem.IN.gov[MHolling@idem.IN.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]
From: Spaulding, William
Sent: Mon 1/23/2017 11:47:38 PM
Subject: Draft Final IDEM End of Year Report for review and final comment
Final IN fy2016 EOY 1-17-17.docx

Mary:

Thanks for sending me your self assessment of FY 16 IDEM performance. As part of this process, I have added R5 evaluation responses to the right hand column on the tables. To summarize, we find IDEM to be operating a successful PWSS program in which progress is being made across the board to meet challenges and achieve results. During the course of the year, IDEM made progress in revising and adopting new regulations and operate successful compliance programs. IDEM maintains a data base management system which accurately tracks compliance and inventory for all rules and has met federal reporting requirements. Sanitary surveys are being completed at a frequency which exceeds federal requirements. IDEM is making good efforts in the areas of operator certification and capacity development. EPA also recognizes agency initiatives to work with communities to protect sources of drinking water and address concerns associated with above ground storage tanks.

Of concern is IDEMs performance relative to EPA shared goals (see p. 49 of the ARDP). While overall trends in performance appear to be improving, IDEM was only able to meet one of them in FY 16. The goal that was met was:

Milestone 6: "By 2016, improve drinking water system compliance so that less than !0% of non-transient non community water systems have significant monitoring violations for chronic health risks of all applicable rules."

Those not met were:

Milestone 1: "By 2016, 95% of non-transient non-community water systems receive water that meets health based drinking water standards"

Milestone 2: "By 2016, 95% of transient non-community water systems will meet drinking water standards."

Milestone 3: "By 2016, improve drinking water system compliance so that less than 5% of the population served by community water systems have significant /major monitoring violations for all applicable rules."

Milestone 4: "By 2016, improve drinking water system compliance so less than 10% of community water systems have significant/major monitoring violations for all applicable violations

Milestone 5: "By 2016, improve drinking water system compliance so that less than 5% of non-transient non-community water systems have significant monitoring violations for acute health risks (TCR, Nitrate, GWR)

Milestone 7: "By 2016, improve drinking water system compliance so less than 10% of transient non-community water systems have significant monitoring violations for all applicable rules."

We would like to take the opportunity to review these goals with you in the near future better understand program challenges and upcoming plans. We look forward to using part of our time during the upcoming Semi-Annual call to discuss the contents of this transmittal.

In the meantime, please review our assessment and provide any further comments or revisions back to me by January 31. I will add these to the document and prepare a final copy which we can then discuss at our conference call on February 6.

Thanks!

Bill Spaulding

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FY2016-17 DRINKING WATER ANNUAL RESOURCE DEPLOYMENT PLAN (ARDP)
State Fiscal Year 2016 (July 1, 2015 to June 30, 2016 and
State Fiscal Year 2017 (July 1, 2016 to June 30, 2017)

Click here to go the table of contents (by placing cursor over the link and pressing down the "Ctrl" key while clicking the left mouse button).

Not all state Public Water System Supervision (PWSS) programs have access to enough resources to implement all of the provisions of existing drinking water regulations, and other primacy program requirements. Therefore, we need to plan for circumstances where resources are inadequate to implement the entire drinking water protection program. Since the purpose of the Safe Drinking Water Act (SDWA) is to protect public health, federal and state agencies have an obligation to ensure that limited resources are deployed in a way that ensures maximum health protection benefit, and that we collectively keep track of what is and is not being done as we strive for full implementation.

The plan documents what will and will not be done during the year. The agreement reflects state capacity based on available resources, as well as local health protection priorities. Core activities, such as explaining regulation requirements to public water supplies, and tracking and reporting violations, are fundamental to the integrity of the public health protection program and are not amenable to priority setting. U.S. EPA will participate and support state implementation efforts where appropriate and possible. U.S. EPA commitments in support of state programs are listed in the Primacy Activity table.

The state and U.S. EPA will both report annually on their accomplishments so we can jointly appraise our effectiveness, and our progress toward implementing the complete program. Where resource shortfalls continue to exist, the state and U.S. EPA will simultaneously continue efforts to obtain additional resources in order to fill the resource gap. State and U.S. EPA efforts to obtain additional resources necessary to fill the gaps associated with temporarily disinvested activities documented in this ARDP will be tracked in the end-of-year (EOY) evaluation reports. State progress in implementing these temporarily disinvested activities also will be documented in the EOY reports.

Using this resource deployment plan as a framework for annual planning and progress assessment should meet several objectives:

(1) Promote clear understanding of both state and U.S. EPA commitments.
(2) Minimize ad hoc requests for program reporting.
(3) Promote judicious use of limited resources to achieve the best possible public health protection.
(4) Support efforts to increase resources by clearly identifying resource and program constraints.
(5) Promote collaborative inter-agency program planning and implementation.

PUBLIC WATER SYSTEM SUPERVISION PROGRAM
CORE STATE ACTIVITIES

⇒ Provide an adequate laboratory certification program for all regulated contaminants. This does not mean that states must expand their labs to perform all the analyses. At a minimum, a state should have an adequate certification program to certify commercial labs within the state.

⇒ Maintain a data management system that tracks requirements for all rules. This means to have the appropriate combination of hardware, software and personnel to accurately and within a reasonable timeframe identify the inventories (including routine updates of system information), maintain water quality monitoring information, and track compliance with all M/R, MCL, MRDL, TT, PN and public information requirements.

⇒ Keep adequate records of pertinent state decisions.

⇒ Adopt all rules in a timely manner (within two-year extension period).

⇒ Notify all systems of regulatory requirements and respond to questions.

⇒ Determine violations for all rules and report to U.S. EPA.[1]

⇒ Maintain an adequate enforcement and compliance assistance program (adequacy determined by a decrease in violation frequency).

⇒ Maintain a baseline core of individuals with the technical expertise needed, to perform sanitary surveys, plan and spec reviews, and respond to emergencies.

⇒ To improve our ability to understand, measure, assess, and communicate progress, conduct a joint evaluation of program performance with EPA.

⇒ Develop and implement a plan to provide adequate funding to carry out all functions of the PWSS program.

[1] States must report actions and sample data quarterly and inventory data at least annually in accordance with 40 C.F.R. 140.15. These data must be reported in XML format and utilize the Central Data Exchange (CDX) as the media for data transfer to U.S. EPA. The reporting schedule for States to the national data base, SDWIS/FED-ODS, is as follows: FFYQ1 – February 15, FFYQ2 – May 15, FFYQ3 – August 15, and FFYQ4 – November 15. If the data is not reported within 60 days, the Region will raise the issue to the State Director's attention.

CORE R5 ACTIVITIES

⇒ Respond to questions from our state programs about regulations. Train state staff about regulations by offering in-state and/or regional training opportunities.

⇒ Maintain a forum for U.S. EPA and state communications through the monthly U.S. EPA and state conference calls, hold an annual meeting, and conduct additional meetings/calls as needed.

⇒ Determine whether primacy applications are completed, track primacy submittal/review for all rules, and provide comments on draft rules, as requested.

⇒ Communicate and track reporting required for new rules by state.

⇒ Assist states in acquiring resources to carry out all functions of the PWSS program.

⇒ Monitor specific regulations related to state follow-up to the findings of the last file review and enforcement verification reports, as indicated in the "R5 Activities" column.

Acronyms/Abbreviations	
ACR – Annual Compliance Report	NCWS – Non-Community Water System
ACS – Annual Commitment System	NPDWR – National Primary Drinking Water Regulation
ARDP – Annual Resource Deployment Plan	NPDWR CDVRT – Compliance Determination and Violation Reporting Tool
ASDWA – Association of State Drinking Water Administrators	NPM – National Program Manager
CCR – Consumer Confidence Report	NTNCWS – Non-Transient Non-Community Water System
CEU – Continuing Education Credit	OECA – Office of Enforcement and Compliance Assurance
C.F.R. – Code of Federal Regulations	OCCT – Optimal Corrosion Control Treatment
CPE – Comprehensive Performance Evaluation	PN – Public Notification
CTA – Comprehensive Technical Assistance	PWS – Public Water System
CWS – Community Water System	PWSID – Public Water System Identification
DBP – Disinfection By-Products	PWSS – Public Water System Supervision
D/DBPR – Disinfectants and Disinfection By-Products Rule	RTCR – Revised Total Coliform Rule
DWSRF – Drinking Water State Revolving Fund	SDWA – Safe Drinking Water Act
EOY – End-of-year	SDWIS/FED – Safe Drinking Water Information System/Federal version
ERP – Enforcement Response Policy	SDWIS/State – Safe Drinking Water Information System/State version
ETT – ERP Enforcement Targeting Tool	SOC – Synthetic Organic Contaminant
EV – Enforcement Verification	SOX – "SOX" is a code in SDWIS/FED that indicates the state entered a return to compliance for a violation
FBRR – Filter Backwash Recycling Rule	SPM – U.S. EPA Region 5 Ground Water and Drinking Water Branch State Program Manager
GWR – Ground Water Rule	Stage 2 – The Stage 2 Disinfectants and Disinfection By-Products Rule
GWS – Ground Water System	SWC – Source Water Collaborative
GUDI – Ground Water under the Direct Influence of Surface Water	SWI – Sustainable Water Infrastructure
IESWTR – Interim Enhanced Surface Water Treatment Rule	SWP – Source Water Protection
IOC – Inorganic Contaminant	SWTR – Surface Water Treatment Rule
LCR – Lead and Copper Rule	TCR – Total Coliform Rule
LCRSTR – Lead and Copper Rule Short-term Revisions	TMDL – Total Maximum Daily Load
LT1ESWTR – Long-Term 1 Enhanced Surface Water Treatment Rule	TT – Treatment Technique
LT2ESWTR – Long-Term 2 Enhanced Surface Water Treatment Rule	VOC – Volatile Organic Contaminant
MCL – Maximum Contaminant Level	
M/R – Monitoring/Reporting	
MRDL – Maximum Residual Disinfectant Level	

Annual Resource Deployment Plan Table of Contents

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1.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
1.0 – Surface Water Treatment Rules: FBRR, SWTR, IESWTR, LT1ESWTR, LT2ESWTR			
1.1 – Submit primacy applications and revisions as necessary. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana adopted the subject rules on the following dates: FBRR: 12/1/02 SWTR: 6/29/1993 IESWTR: 12/1/02 LT1SWTR: 1/12/05 LT2SWTR: 6/6/10 (Primacy application for LT2ESWTR was submitted to EPA R5 in May 2011)	Indiana was awarded primacy for the subject rules on the following dates: FBRR: 4/8/13 SWTR: 8/30/1993 IESWTR: 4/8/13 LT1ESWTR: 6/29/07 LT2ESWTR: Not yet awarded Respond to questions about surface water treatment rules. Process the LT2ESWTR primacy application. Track progress.	Requested revisions to LT2ESWTR are being made with our RTCR rulemaking. The rule changes have been final adopted and are currently under review by the Attorneys General and should be effective early in 2017. R5 EPA responded to LT2 Rule development and implementation questions. R5 EPA confirms that progress is being made on rulemaking and looks forward to receiving a complete primacy application for these rules.
1.2 – Notify all surface water and GUDI systems of their LT2 regulatory requirements.	IDEM DWB has provided on-site training for all affected PWS. Training for the affected LT2 systems is complete. Systems are up to date on the submittal of early implementation requirements. IDEM is notifying all LT2 systems that are not already providing 5.5-log treatment of their 2nd round testing requirements.	As requested, promote understanding of surface water treatment regulations by conducting presentations at State water industry organization functions.	IDEM is continually working with all surface water and GUDI systems to ensure they comply with the LT2 regulatory requirements. R5 EPA did not receive any requests for participation at State water industry organization functions during FY 2016.

DRAFT

1.3 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the Surface Water Treatment Rules.	IDEM fully utilizes SDWIS/State and the LT2 portion of SDWIS/State has the capability to enter data for the 2nd round of source water monitoring. IDEM is committed to entering the data into SDWIS/State.	States with the most recent version of SDWIS/State can use it to enter LT2 sample data for the second round of source water monitoring scheduled to begin April 2015.	Ongoing activity, meeting commitment. R5 EPA confirms that IDEM maintains a data base management system that accurately tracks the inventory (including routine updates of system information) and violations for the Surface Water Treatment Rules.
1.4 – Electronically report all TT, M/R, and PN violations and inventory updates to SDWIS/FED for all surface water systems.	Violations and enforcement actions will be reported to SDWIS/FED quarterly via SDWIS/State migration software.	R5 will evaluate the extent to which LT2 violations are reported to SDWIS/FED.	Ongoing activity, meeting commitment. According to the October 2016 data freeze, IDEM has reported 1 LT2 M/R violation since inception. R5 EPA confirms that IDEM met all of its electronic reporting commitments.
1.5 – Conduct and report sanitary surveys at surface water (40 C.F.R. Part 141 Subpart H) systems. See also section 4.0 of the "primacy activities" table.	Sanitary surveys will be conducted as required and SDWIS entry done as part of an ongoing program.	Provide training, as requested.	Ongoing activity, meeting commitment. R5 EPA did not receive any requests for sanitary survey training in 2016.
1.6 – Ensure that all surface water and GUDI systems that notify the State that they recycle spent filter backwash water, thickener supernatant, or liquids from dewatering processes, return these flows through the processes of a system's existing conventional or direct filtration system, or at an alternate location approved by the State.	DWB approves and tracks all requirements of FBR for all surface water systems.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity due to a lack of resources.

DRAFT

1.7 – Use sanitary surveys, CPEs, other inspections, or other activities to evaluate recycled backwash water practices when they occur at surface water and GUDI systems. When those practices are not in compliance with the FBRR, require the system to modify the practices to achieve compliance.	Sanitary surveys will evaluate backwash practices and note any deficiencies found during inspections. Follow-up activities will be conducted to ensure that deficiencies are addressed. Enforcement actions will be initiated if necessary.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity due to a lack of resources.
1.8 – Ensure that filter/disinfection practices are adequate to achieve inactivation/removal requirements for regulated microbial contaminants found in surface water sources.	Sanitary surveys will note any deficiencies found during inspections. Follow-up activities will be conducted to ensure that deficiencies are addressed. Enforcement actions will be initiated when necessary.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity due to a lack of resources.
1.9 – Follow-up on turbidity TT and individual filter turbidity M/R violations. (a) Track individual filter turbidity trigger exceedances. (b) Track completion of individual filter turbidity profiles for systems exceeding individual filter triggering criteria.	Violation letters will be issued to PWSs when there is any violation, and field inspectors will make follow-up visits to provide technical assistance. PWSs with individual filter TT violations are identified monthly, issued a violation letter and the PWS is required to perform a filter profile. Once the filter profile is submitted, it is reviewed in accordance with the rule requirement.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. Violation and enforcement actions made are also made available at IDEM's Drinking Water Watch (DWW) web site. Once follow-ups were made and the PWS has made the appropriate action and return to compliance, SOX code is made to the violation and can be seen at IDEM's DWW website immediately. R5 EPA confirms IDEMs assessment. No requests for assistance were received in 2016.
1.10 – When required by rule: (a) track the completion of CPE/CTA for PWSs and (b) Ensure that disinfection profiling and benchmarking is conducted.	If any PWS is required to perform a CPE/CTA, the final report will be reviewed to ensure that the solutions are completed and will return the PWS to compliance. A field visit will be made when necessary.		No CPE/CTA was done in this FY. No disinfection profiling and benchmarking were done either. R5 EPA did not receive any reports on this activity in 2016.

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1.11 – Ensure that a residual disinfectant concentration is measured according to rule requirements.	Disinfectant residual results are submitted for review for both SWTR and DBPR requirements.		Ongoing activity, meeting commitment. Residual disinfection concentration of PWSs are available to be viewed at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.
1.12 – Follow-up on disinfection residual TT and M/R violations.	Violation letters will be issued to PWSs and field inspectors will make follow-up visits to provide technical assistance when necessary. Any violation of the monitoring and reporting requirements will be issued a violation letter followed by the appropriate field inspection or other contact.	Region 5 will assist as necessary, or as requested	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.
1.13 – Report treatment data (e.g., treatment codes for all surface water, GUDI, and purchased GUDI sources; seller's PWSID number for purchased surface water and purchased GUDI sources, etc.).	This data will continue to be reported to SDWIS as information is obtained. Treatment data continues to be incorporated into SDWIS.		Ongoing activity, meeting commitment. Treatment and distribution information is now being updated in SDWIS from each sanitary survey. R5 EPA was unable to verify this activity.

2.0 Table 1. Primacy Activities

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Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
2.0 – Total Coliform Rules			
2.1 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the TCR. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	The total coliform rule was adopted on 6/29/1993. The Revised Total Coliform Rule (RTCR) is projected to be adopted by April 2016. IDEM-DWB utilizes SDWIS to track all requirements of the TCR rules including violations and enforcement actions.	IDEM received primacy for the TCR on 8/30/1993. Region 5 will review the RTCR primacy application when it is submitted.	IDEM fully utilized the SDWIS TCR NCD module for compliance daily. R5 confirms that IDEM maintains a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the TCR.
2.2 – Electronically report all TCR MCL, M/R, and PN violations and inventory updates to SDWIS/FED for all public water systems.	Currently, all violations, enforcement actions and inventory updates for TCR are reported to SDWIS quarterly.		Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments.
2.3 – Follow-up on all MCL and M/R violations and determine a proper course of action to ensure public health protection.	After a MCL violation, a letter is sent to the PWS in violation. Field inspectors are given copies of the violation letters. Follow-up calls or on-site visits by the field staff will be performed. The follow-up to determine the adequacy of the system's action will depend on the type of system, the population served, and the availability of resources at IDEM.	Region 5 will assist as necessary, or as requested.	Routinely done, commitment being met. This is a high priority for Field staff. They were able to call or visit all systems to follow-up on MCL violations. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

2.0 Table 1. Primacy Activities

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Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
2.4 – Ensure sanitary surveys are conducted periodically that, at a minimum, meet frequency requirements specified by rule. See also section 4.0 of the "primacy activities" table.	Sanitary surveys will be conducted at required frequency as an ongoing program*. Inspection information is being entered and tracked in SDWIS. *IDEM continues to experience turnover in the staff that perform sanitary surveys. We face challenges in training new staff and getting them up to speed to perform surveys in a competent manner. We will be challenged to perform all sanitary surveys at the frequency specified in rules.	R5 will track progress related to state and EPA efforts to obtain additional resources necessary to enable Indiana to achieve full implementation of this activity.	Sanitary surveys have been conducted at the frequency established (three or five years). These visits will continue at the three and five-year frequency as required. This is an ongoing activity. Sanitary surveys have been reported to SDWIS regularly. During the year we lost the Section Chief and 3 regional staff. The new Section chief took over his new duties in December. On regional position was filled and 2 remain vacant. The 2 vacancies are in our Northern Regional office. Those inspectors normally carry a load of about 500 systems each. We hope to fill the vacancies, but there will still be training time needed. R5 EPA confirms that sanitary surveys continue to be conducted at the required frequencies and notes the state staff shortage.
2.5 – Plan for the transition from TCR to the Revised Total Coliform Rule (RTCR) to ensure that adequate resources are dedicated such that the State can begin implementing RTCR by April 1, 2016.	IDEM continues to plan for the implementation of RTCR before the rule becomes effective in April 2016. The plan includes resource issues both for compliance and inspection activities. Further, all applicable training will be attended to ensure adequate staff knowledge for the transition. We believe implementing RTCR at NCWSs will be a serious challenge for us.	EPA headquarters has provided national training, and R5 will continue to participate in State-specific training, to the extent possible. R5 will track progress related to state and EPA efforts to obtain additional resources necessary to enable Indiana to achieve full implementation of this activity.	Ongoing activity, meeting commitment. Although the rule is in effect, IDEM continues to improve and tweak activities to ensure compliance is met. R5 did not conduct RTCR training in 2016.

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3.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
3.0 – Ground Water Rule			
3.1 – Submit primacy applications and revisions as necessary. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	The Ground Water Rule became effective in Indiana on June 6, 2010 and is being revised to address EPA comments. IDEM projects adoption of the revised GWR by April 1, 2016. The initial primacy application for the GWR was received by EPA on May 9, 2011. The requested revisions to the GWR are being made in conjunction with the RTCR promulgation.	R5 will complete its review of the IDEM primacy application and announce a stringency determination following the receipt of a final revised rule	Requested revisions to the GWR are being made with the RTCR rulemaking. The rule changes have been final adopted and are currently under review by the Attorneys General and should be effective early in 2017. R5 EPA did not receive a primacy application in 2016.
3.2 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the GWR.	The GWR data base is maintained using SDWIS/State. IDEM will relay to Region 5 any issues with the limited SDWIS/State rule tracking functionality.	R5 will evaluate the extent to which GWR violations are reported to SDWIS/FED.	IDEM fully utilized the SDWIS TCR NCD module with GWR capability for compliance daily. R5 confirms that IDEM maintains a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the TCR.

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3.3 – Electronically report all TT, M/R, and PN violations and inventory updates to SDWIS/FED for all public water systems.	All violations, enforcement actions and inventory updates for the GWR will be reported to SDWIS quarterly.	R5 will evaluate the extent to which GWR violations are reported to SDWIS/FED.	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. According to the October 2016 data freeze, IDEM reported 7 GWR TT violations, 389 M/R violations, and 4 other violations at active systems since inception. R5 EPA confirms that this information can be viewed on the DWW website.

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3.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**

3.4 – Conduct and report sanitary surveys that meet requirements by 12/31/12 at CWSs and then every 3 years thereafter, and by 12/31/14 at NCWSs served by a groundwater source and then every 5 years thereafter. See also section 4.0 of the "primacy activities" table.	Sanitary surveys will, when possible, be conducted at the required frequency as an ongoing program.* Sanitary Surveys will be reported to SDWIS regularly. *IDEM continues to experience turnover in the staff that perform sanitary surveys. We face challenges in training new staff and getting them up to speed to perform surveys in a competent manner. We will be challenged to perform all sanitary surveys at the frequency specified in rules.	R5 will measure completeness of ground water sanitary surveys within evaluation time period (three or five years). R5 will track progress related to state and EPA efforts to obtain additional resources necessary to enable Indiana to achieve full implementation of this activity.	Sanitary surveys have been conducted at the frequency established (three or five years). These visits will continue at the three and five-year frequency as required. This is an ongoing activity. Sanitary surveys have been reported to SDWIS regularly. High staff turnover continues. During the year we lost the Section Chief and 3 regional staff. The new Section chief took over his new duties in December. On regional position was filled and 2 remain vacant. The 2 vacancies are in our Northern Regional office. Those inspectors normally carry a load of about 500 systems each. We hope to fill the vacancies, but there will still be training time needed. R5 EPA confirms that sanitary surveys continue to be conducted at the required frequencies and notes the state staff shortage.
3.5 – Ensure that GWSs that must treat to the 4-log virus removal/inactivation standard conduct compliance monitoring to demonstrate treatment effectiveness.	GWSs that must treat to the 4-log virus removal/inactivation standard were issued an approval letter requiring the system to have a chlorine residual monitoring device for continuous testing or grab sampling at small systems (3300 population or less). Systems are required to submit monthly reports of operation ensuring that the required minimum residual is met daily.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity.

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3.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
3.6 – Determine appropriate corrective actions in consultation with GWSs that collect fecal indicator-positive source water sample(s) or that have significant deficiencies.	GWSs that have fecal indicator-positive source water samples are required to collect 5 additional samples within 24 hours. If any of the results is fecal positive, the system will be required to do one of the following: provide treatment (on a compliance schedule), find another source, provide bottled water, or, for cases found during the system's sanitary survey, remove any potential sources of contaminants.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity.
3.7 – Determine if optional source water monitoring will be used. If so, apply monitoring requirements to selected systems.	Optional source water monitoring will be used if there is a history of violation(s). Otherwise, the procedures outlined in 3.6 above will be implemented.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity.

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3.8 – Follow-up on, and return to compliance: (a) corrective action consultation and reporting violations, (b) TT violations, (c) M/R violations, (d) public notification violations, and (e) Other discovered recordkeeping/reporting violations.	Corrective actions outside of sanitary survey deficiencies are handled through formal enforcement actions. All M/R violations are issued a violation letter after the end of the reporting period. Follow up on systems that failed to issue a PN will be prioritized based on available resources. All discovered recordkeeping/reporting violations are issued a violation letter after the end of the reporting period.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity.

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4.0 Table 1. Primacy Activities

Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
4.0 – Sanitary Surveys			
4.1 – A completed sanitary survey means the date a sanitary survey visit was conducted in which all eight sanitary survey components have been addressed per 142.16(b)(3)(i). If a sanitary survey takes multiple days or visits to complete, only the latest date or last visit is expected to be reported for the final visit date that completes the eight components of a sanitary survey.	Sanitary surveys will be conducted at a frequency that meets the rule requirements by completing a survey at all CWS within 3 years and all NCWS within 5 years of the anniversary date of the system's last sanitary survey. Sanitary surveys will be reported to SDWIS regularly.	R5 will offer Indiana sanitary survey training opportunities as resources allow. R5 will measure completeness of surface water and ground water sanitary surveys within the evaluation time period (three or five years). This national measure will be measured in July 2015 for the period of 2012 to 2014, in July 2016 for the period of 2013 to 2015, and in July 2017 for the period of 2014 to 2016.	Sanitary surveys have been conducted at the frequency established (three or five years). These visits will continue at the three and five-year frequency as required. This is an ongoing activity. Sanitary surveys have been reported to SDWIS regularly R5 EPA confirms that sanitary surveys continue to be conducted at the required frequencies
4.2 – Consider using sanitary surveys to evaluate and document	Sanitary surveys will be used to: identify potential sources of	EPA encourages State surveyors and inspectors to recommend the	Sanitary surveys have been used to identify and mitigate potential sources

status and progress of Source Water Protection (SWP) and Sustainable Water Infrastructure (SWI) activities (see section 4.0 of the "other activities" table and section 1.0 of the "national and regional EPA priorities" table below, respectively).	contamination relative to the system's source water, review and address water loss, evaluate asset management, and review Emergency Response Plans (ERP) and Surface Water Emergency Response Plans (SWERP). Sanitary surveys will be used to address the other listed issues when adequately trained staff members are available.	following activities to PWS managers during sanitary surveys, because these activities can help in building the capacity and long-term independence of PWSs: – Asset management programs; – Energy efficiency programs; – Water loss monitoring/mitigation programs; – Source water protection and climate change adaptations; and – Other involvement or roles in the local community. As requested, EPA can help promote training about these topics and provide outreach information, as well as updates and guidance materials, about these types of activities. R5 will track progress related to state and EPA efforts to obtain additional resources necessary to enable Indiana to achieve full implementation of this activity.	of contamination relative to a system's source water. Surveyors have addressed water loss and regularly discuss solutions to address this issue. Maintenance and asset management is often discussed as a way to provide safe drinking water during surveys. The review of ERPs and SWERPs is conducted with each sanitary survey visit. Thirty-one (31) Surface Water Emergency Response Plans (SWERPs) have been developed by the IDEM/IFA team, 30 of the SWERPs have been provided to the PWS's for their use. The final SWERP is undergoing internal review and final edits with early 2017 delivery to the PWS anticipated. Surveyors often discuss recommended activities with the public water supply systems they visit. Inspectors are encouraged to get involved in local training opportunities and participate in LEPC and WHPP activities R5 EPA notes state staff shortages.

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5.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
5.0 – Nitrate and Nitrite			

5.1 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and tracks nitrate/nitrite violations. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Nitrate/nitrite compliance is tracked using SDWIS/State.		Nitrate/nitrite violations are tracked using CDS in SDWIS/State. R5 EPA confirms that IDEM is utilizing SDWIS CDS for nitrate/nitrite rule tracking.
5.2 – Electronically report all MCL, M/R, and PN violations and inventory updates to SDWIS/FED for all public water systems.	All violations, enforcement actions and inventory updates are reported to SDWIS quarterly.		Ongoing activity, meeting commitment. The Nitrate/nitrite violations are available on IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.
5.3 – Follow-up on all MCL and M/R violations and determine a proper course of action to ensure public health protection.	After an MCL violation, a letter is sent to the PWS in violation. Field inspectors are given copies of the violation letters. Follow-up calls or on-site visits by the field staff will be performed. The follow-up to determine the adequacy of the system's action will depend on the type of system, the population served and the availability of resources at IDEM. All M/R violations are issued a violation letter after the end of the reporting period including day care facilities and schools. SDWIS provides the necessary candidate violations and staff does the validation of all the violations.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

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6.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
6.0 – Lead and Copper			
6.1 – Submit primacy applications and revisions as necessary. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	States will provide comments on the proposed LCR long-term revisions (LCR LTR), as appropriate. Indiana adopted the following rules: LCR: 12/5/1994. LCRMR: 1/1/01 Primacy application for LCRSTR was submitted to EPA R5 in May 2011. IDEM responded to EPA's comments in January 2012. The requested revisions to the LCRSTR are being made along with the RTCR promulgation. Final LCRSTR adoption will occur by April 1, 2016.	Indiana was awarded primacy for the following rules: LCR: 3/16/1995. LCRMR: 12/1/05 The LCR LTR proposed rule date is TBD. R5 will provide training on the proposal, including a summary of EPA's specific requests for comment and guidance on submitting comments to EPA.	IDEM will not be making EPA's requested changes to the state rule until the final version of the new lead and copper rule is promulgated by EPA. We are enforcing the requirements as written in the federal rule. R5 EPA acknowledges IDEMs lead and copper rule revision plan and recognizes the state's commitment to enforce requirements as written in the federal rule.
6.2 – Incorporate rule revisions into State oversight and enforcement operations.	LCRMR has been incorporated in IDEM's compliance and enforcement tracking mechanisms.		Ongoing activity, meeting commitment. R5 EPA acknowledges incorporation of the LCRMR in IDEM compliance and enforcement tracking mechanisms.
6.3 – Notify all CWSs and NTNCWSs of their LCRSTR regulatory requirements	All public water systems have been notified of their regulatory requirements.		Ongoing activity, meeting commitment. R5 EPA acknowledges that all PWSs have been notified.

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6.4 – Maintain a database management system that accurately tracks lead and copper action level exceedances (sample data), violations, and milestone data for CWSs and NTNCWSs.	LCR and the minor revisions are tracked using SDWIS.		LCR and LCRMR are tracked under the CDS module of SDWIS. R5 EPA confirms that IDEM uses SDWIS CDS to track LCR and LCRMR.

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6.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
6.5 – Electronically report violation and milestone data to SDWIS/FED for all CWSs and NTNCWSs, lead and copper 90th percentile action level sample data for all large and medium sized systems, and 90th percentile action level exceedance sample data for small systems.	All violations, enforcement actions, and inventory updates are reported to SDWIS quarterly.	Request referrals from the State to provide compliance assistance to PWSs that fail to issue lead consumer notice. R5 will evaluate the extent to which LCRSTR violations are reported to SDWIS/FED. R5 expects that compliance determination and violation reporting tool (CDVRT) training will be conducted when all of the CDVRT modules are completed.	Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments. According to the October 2016 data freeze, IDEM reported 99 LCR M/R violations at active systems since inception.
6.6 – Designate OCCT and follow-up on OCCT installation violations at all required PWSs.	OCCT continues to be issued for PWSs. OCCT installation violations will be referred for formal enforcement. School and day care facility M/R violations are readily identified in the Agency's database system. Monthly, quarterly, or semi-annual M/R update queries are made to identify M/R violations. Once M/R violations are identified, violation letters are sent.		Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity.

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6.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
6.7 – Follow-up on all M/R violations.	M/R violations are readily identified in the Agency's database system. Monthly, quarterly, or semi-annual M/R update queries are made to identify M/R violations. Once M/R violations are identified violation letters are sent.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

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6.8 – Set optimal water quality parameter ranges and/or minimum values for all CWSs and NTNCWSs where required by the LCR.	WQP ranges continue to be set for all PWSs that are required to optimize corrosion control. .		Ongoing activity, meeting commitment. Under the lead and copper rule, large systems that met the (b)(3) criteria were deemed optimized with regards to corrosion control. At the Corrosion Control training in late September 2016 in Chicago, IDEM was informed that it needed to re-evaluate each (b)(3) system every time they sample to ensure they still meet the criteria. Since that hasn't been done since they were deemed optimized in 1995, IDEM will begin re-evaluating those systems and setting OWQCP as needed R5 EPA acknowledges IDEMs commitment to begin re-evaluating (b)(3) system every time they sample and will set OWQCPs as needed. R5 further expects IDEM to commit to a date when it will achieve full compliance with this LCR provision over the course of SFY 2017.

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7.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
7.0 – D/DBPRs			

7.1 – Submit primacy applications and revisions as necessary. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana adopted the following DDBPR Rules: Stage 1 DDBPR: 12/1/02. Revised Stage 2 DDBPR: 3/27/13 Minor modifications to the DDBPR will be adopted by April 1, 2016. The requested revisions to the DDBPR are being made along with the RTCR promulgation.	Region 5 awarded primacy for the Stage 1 DDBPR on 4/8/13. Review Stage 2 DDBPR primacy application.	The rule changes have been final adopted and are currently under review by the Attorneys General and should be effective early in 2017. R5 EPA confirms that progress is being made on rulemaking and looks forward to receiving a complete primacy application for these rules.
7.2 – Notify all CWSs and NTNCWSs (serving greater than 10,000 people) delivering water that has been treated with a primary or residual disinfectant (other than ultraviolet light) of their Stage 2 regulatory requirements.	All systems have been informed of their regulatory requirements. DWB Staff completed training for the Stage2 DBP rules in mid-2008.	Region 5 will assist with any enforcement actions needed.	Ongoing activity, meeting commitment. R5 EPA confirms that all systems have been informed of their regulatory requirements and that DWB staff have been trained.
7.3 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the D/DBP rules.	Stage 1 and 2 D/DBP rule compliance is tracked using SDWIS. The new D/DBP rule is tracked under the CDS module of SDWIS. To ensure the accuracy of treatment and distribution information currently contained in SDWIS, data from sanitary surveys is checked against SDWIS and updated as necessary.		The new D/DBP rule is tracked under the CDS module of SDWIS. To ensure accuracy of treatment and distribution information currently contained in SDWIS, data from sanitary surveys is checked against SDWIS and updated as necessary. R5 EPA confirms that Stage 2 is being tracked in SDWIS CDS.

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7.4 – Electronically report all MCL, M/R, TT, and PN violations and inventory updates to SDWIS/FED for all public water systems, including operator certification treatment technique violations per 40 CFR 141.130(c).	All violations, enforcement actions and inventory updates are reported to SDWIS quarterly.	R5 will evaluate the extent to which Stage 2 violations and 141.130(c) operator certification treatment technique violations are reported to SDWIS/FED.	Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments. R5 EPAs October 2016 data freeze found that IDEM had reported 177 Stage 2 MCL violations and 401 Stage 2 M/R violations (note: IDEM has never reported any Stage 1 violations). There were also 11 Stage 2 M/R violations reported for inactive systems.
7.5 – Follow-up on: (a) all MCL/MRDL violations, including chlorine dioxide MRDL violations; (b) all M/R violations; (c) all other reporting requirement violations.	When compliance staff identifies MRDL violations, including chlorine dioxide MRDL violations, a violation letter will be issued to the system and field staff will be informed. Field staff will follow-up as necessary to help facilitate compliance.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.
7.6 – Ensure that Subpart H systems using conventional filtration operate in compliance with the DBP precursor control treatment technique requirements.	A database for DBP precursor removal is maintained that accurately tracks the inventory (including routine updates of system information) and violations of the DBP precursor removal requirements.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. R5 EPA acknowledges that IDEM maintains a database which it uses to track compliance with DBP precursor removal requirements.

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7.7 – Determine which systems do not qualify for reduced monitoring and inform them they must return to the routine monitoring frequency.	Determinations will be made regarding reduced monitoring and the systems will be informed of those determinations.		Ongoing activity, meeting commitment. R5 was unable to verify this activity.

8.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
8.0 – IOCs (including Arsenic)			
8.1 – Adopt all rule changes in a timely manner (within two-year extension period). Submit primacy applications and revisions as necessary. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana Phase 2/5 rules were adopted on 12/5/1994.	Primacy for the Indiana Phase 2/5 Rules was awarded on 3/16/1995.	Completed. R5 EPA confirms completion.
8.2 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the IOCs.	IOC compliance is tracked using the SDWIS CDS module.		Ongoing activity, meeting commitment. SDWIS/State is used to track compliance for IOCs. R5 EPA confirms that IDEM tracks IOCs with SDWIS CDS.
8.3 – Electronically report all MCL, M/R, and PN violations and inventory updates to SDWIS/FED for all CWSs and NTNCWSs.	All violations, enforcement actions and inventory updates are reported to SDWIS quarterly.	R5 will evaluate arsenic MCL non-compliance as reported in SDWIS/FED.	Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments.

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8.4 – Follow-up on MCL and M/R violations and take an appropriate course of action that ensures public health protection.	All M/R violations are issued a violation letter after the end of the reporting period. After an MCL violation, a letter is sent to the PWS in violation. Field inspectors are given copies of the violation letters and a follow-up is made either by phone or an on-site inspection. An immediate determination is made as to the adequacy of the system's corrective action. If necessary, the system is directed to take additional steps to protect public health. Further contact is made by compliance staff to ensure field follow-up has been made and that actions and samples have been recorded in SDWIS.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

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9.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
9.0 – Radionuclides (including Radon)			

9.1 – Submit primacy applications and revisions as necessary. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana adopted Radionuclides Rules on 1/12/05. Indiana was awarded primacy on 7/23/07.	Indiana was awarded primacy for Radionuclides on 7/23/07.	Completed. R5 EPA confirms completion.
9.2 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for radionuclides.	Radionuclide rule compliance is tracked using the SDWIS module.		Radionuclides are tracked under the CDS module of SDWIS. R5 EPA confirms that IDEM tracks SOCs with SDWIS CDS.
9.3 – Electronically report all MCL, M/R, and PN violations and inventory updates to SDWIS/FED for all CWSs.	All violations, enforcement actions and inventory updates are reported to SDWIS quarterly		Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments.
9.4 – Follow-up on MCL and M/R violations and take an appropriate course of action that ensures public health protection.	All M/R violations are issued a violation letter after the end of the reporting period. After an MCL violation, a violation letter is sent to the PWS in violation. Field inspectors are given copies of the violation letters and a follow-up is made either by phone or an on-site inspection. An immediate determination is made as to the adequacy of the system's corrective action. If necessary, the system is directed to take additional steps to protect public health. Further contact is made by compliance staff to ensure field follow-up has been made and that actions and samples have been recorded in SDWIS.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity. No assistance was requested.

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10.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
10.0 – SOCs			
10.1 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for the SOCs. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana Phase 2/5 rules were adopted on 12/5/1994. SOC compliance is tracked using SDWIS.	Primacy for the Indiana Phase 2/5 Rules was awarded on 3/16/1995.	Ongoing activity, meeting commitment. SDWIS/State is used to track compliance for SOCs. R5 EPA confirms that IDEM tracks SOCs with SDWIS CDS.
10.2 – Electronically report all MCL, M/R, and PN violations and inventory updates to SDWIS/FED for all CWSs and NTNCWSs.	All violations, enforcement actions and inventory updates are reported to SDWIS quarterly and tracked under the CDS module. To ensure accuracy of treatment and distribution information currently contained in SDWIS, data from the sanitary surveys is checked against SDWIS and SDWIS is updated as necessary.	Monitor State SOC related follow-up to the findings of the last data and enforcement verification report, which were: 1. Ensure that IDEM assigns violations when systems ≥3300 fail to collect 2 samples in a 12-month period following a 3 year compliance period. 2. Ensure that IDEM assign M/R violations for missed chemical sampling (either routine or increased). 3. Ensure that systems monitor for fluoride even if they do not fluoridate. 4. Ensure that violations are assigned for quarterly sampling following an SOC greater than the detection limit.	Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting requirements.

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10.3 – Follow-up on MCL and M/R violations and take an appropriate course of action that ensures public health protection.	All M/R violations are issued a violation letter after the end of the reporting period. After an MCL violation, a violation letter is sent to the PWS in violation. Field inspectors are given copies of the letters and a follow-up is made either by phone or an on-site inspection. An immediate determination is made as to the adequacy of the system's corrective action. If necessary, the system is directed to take additional steps to protect public health. Further contact is made by compliance staff to ensure field follow-up has been made and that actions and samples have been recorded in SDWIS.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

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11.0 Table 1. Primacy Activities

Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
11.0 – VOCs			
11.1 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for VOCs. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	VOC compliance is tracked using SDWIS. To ensure accuracy of treatment and distribution information currently contained in SDWIS, data from sanitary surveys is checked against SDWIS and SDWIS is updated as necessary.		Ongoing activity, meeting commitment. SDWIS/State is used to track VOC compliance. R5 EPA confirms that IDEM tracks VOCs with SDWIS CDS.

11.2 – Electronically report all VOC MCL, M/R, and PN violations and inventory updates to SDWIS/FED for all CWSs and NTNCWSs.	All violations, enforcement and inventory updates are reported to SDWIS quarterly.		Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments.
11.3 – Follow-up on MCL and M/R violations and take an appropriate course of action that ensures public health protection.	All M/R violations are issued a violation letter after the end of the reporting period. After an MCL violation, a violation letter is sent to the PWS in violation. Field inspectors are given copies of the violation letters and a follow-up is made either by phone or an on-site inspection. An immediate determination is made as to the adequacy of the system's corrective action. If necessary, the system is directed to take additional steps to protect public health. Further contact is made by compliance staff to ensure field follow-up has been made and that actions and samples have been recorded in SDWIS.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. Violations made for this rule can be viewed at IDEM DWW website. Also, if there is any violation of this type, it is reported to SDWIS/FED on a quarterly basis. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

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12.0 Table 1. Primacy Activities

Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
12.0 – Organic and Inorganic Chemical Monitoring Waiver Program			

12.1 – Any changes to the originally approved waiver program must be submitted to Region 5 for approval. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Cyanide waivers for this compliance cycle will no longer be accepted. GWSs will be required to take 1 sample during each compliance period while surface water systems will take 1 sample annually at each sampling point. PWSs that received waivers will be notified of the new sampling schedule during the compliance period.		No changes made during FY 2016. R5 EPA confirms that no changes were made to the IDEM monitoring waiver program during FY 2016.

13.0 Table 1. Primacy Activities

Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
13.0 – Sodium			
13.1 – Maintain a database management system that accurately tracks the inventory (including routine updates of system information) and violations for sodium M/Rs. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	The database for compliance tracking and determination for sodium is part of the IOC database using the CDS module of SDWIS. To ensure accuracy of treatment and distribution information currently contained in SDWIS, data from sanitary surveys is checked against SDWIS and SDWIS is updated as necessary.		Sodium rule is tracked under the CDS module of SDWIS. R5 EPA confirms that IDEM tracks the Sodium Rule with SDWIS CDS.
13.2 – Notify appropriate local and State health departments of the sodium levels in CWS drinking water.	All county health departments are provided the sodium levels of CWSs upon request.		Ongoing activity, meeting commitment. R5 was not able to verify this activity.

13.3 – Follow-up on M/R violations.	All PWSs with M/R violations are issued a violation letter. The sodium database is part of the CWS IOC database and is tracked as part of that group.	Region 5 will assist as necessary, or as requested.	Violations made for this rule can be viewed at IDEM DWW website. If violation is resolved, return to compliance code, SOX, is also made available at IDEM's DWW website. R5 EPA confirms that this information can be viewed on the DWW website.

14.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
14.0 – Public Notification			
14.1 – Notify all public water systems of their public notification requirements. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana adopted the PN rule on 8/1/01. All PWSs have been notified of the regulatory requirements.	Indiana was awarded primacy for the PN rule on 12/1/05.	Completed. R5 EPA confirms completion of this activity.
14.2 – Maintain a database management system that accurately tracks PN violations.	The PN violations are tracked under the TCR, CDS, and CCR modules of SDWIS.		PN rule is tracked under the TCR, CDS and CCR modules of SDWIS. R5 EPA confirms that IDEM tracks PN rule violations through the TCR CDS and CCR modules of SDWIS.
14.3 – Electronically report all public notification violations to SDWIS/FED.	All violations, enforcement actions, and inventory updates are reported to SDWIS quarterly.		Ongoing activity meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments.

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14.4 – Follow-up on all Tier 1 violations.	When a system fails to issue a PN under a Tier 1 violation, it is reported as a violation in SDWIS. Both compliance and field staff follow-up on all Tier 1 violations.	Region 5 will assist as necessary, or as requested.	Ongoing activity meeting commitment. All Tier 1 violation for CWS is tracked during the CCR submittal and if not reported, CCR notice is required to be redone. R5 EPA was unable to verify this activity. No assistance requested.
14.5 – Follow-up on all Tier 2 and Tier 3 violations.	When a system fails to issue a PN under a Tier 2 or Tier 3 violation, it is reported as a violation in SDWIS. CWSs can report violations as part of their CCR. No additional follow-up will typically be made due to IDEM resource limitations.	Region 5 will assist as necessary, or as requested. R5 will track progress related to state and EPA efforts to obtain additional resources necessary to enable Indiana to achieve full implementation of this activity.	Ongoing activity, meeting commitment. Tier 2 and 3 violations for CWS are tracked during the CCR submittal and if not reported, CCR notice is required to be redone. R5 EPA was unable to verify this activity. No assistance requested. R5 EPA confirms that neither state nor federal resources were available to support this activity.

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15.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
15.0 – CCR			
15.1 – Notify all regulated water systems of their CCR requirements. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	Indiana adopted the CCR rule on 12/1/1999. All PWS have been notified of the regulatory requirements.	Indiana was awarded primacy for the CCR rule on 10/1/01. A memorandum signed on January 3, 2013, clarifies electronic delivery options for CCRs (see http://water.epa.gov/lawsregs/rulesregs/sdwa/ccr/upload/ccrdeliveryoptionsmemo.pdf).	Complete. R5 EPA confirms completion of this activity.
15.2 – Maintain a database management system that accurately tracks CCR violations.	A database for CCR is maintained that accurately tracks all CCR violations. CCR is also tracked under the SDWIS compliance schedule module.		CCR is tracked under SDWIS compliance schedule module. R5 EPA confirms that IDEM maintained a tracking database for CCR compliance.
15.3 – Electronically report all CCR violations to SDWIS/FED.	All violations, enforcement actions, and inventory updates are reported to SDWIS quarterly.		Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments.
15.4 – Enforce the rule when the water system has not issued a CCR or issued one with insufficient content.	Systems that meet the ERP violation for CCR will be referred to the Water Enforcement Section for formal enforcement action. If the CCR is not issued as well as the Certification letter, they are identified by the compliance database during July and October of each year respectively. The systems are tracked using SDWIS and issued violation letters.	Region 5 will assist as necessary, or as requested.	Ongoing activity, meeting commitment. R5 EPA was unable to verify this activity. No assistance was requested.
16.0 Table 1. Primacy Activities			

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Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
16.0 – Laboratory Certification			
16.1 – In order to maintain primacy, the States must comply with 40 CFR 142.10, which includes the following provisions: (a) 142.10(b)(4) – Assurance of the availability to the State of laboratory facilities certified by the Administrator and capable of performing analytical measurements of all contaminants specified in the State primary drinking water regulations. (b) 142.10(b)(3)(i) – The establishment and maintenance of a State program for the certification of laboratories conducting analytical measurements of drinking water contaminants pursuant to the requirements of the State primary drinking water regulations including the designation by the State of a laboratory officer, or officers, certified by the Administrator, as the official(s) responsible for the State's certification program. All laboratories that produce results for compliance with SDWA are certified by the State to which those results are reported. These certifications shall be done at a frequency of at least once every	IDEM is under a Memorandum of Agreement with the Indiana State Department of Health (ISDH) to issue the Laboratory Certification Program for all laboratories performing analyses for compliance with the SDWA. ISDH is performing the procedures established in accordance with the Lab Certification guidance manual.	In preparation for the second round of LT2 monitoring (scheduled to begin in April 2015), "Frequently Asked Questions: State Approval/Oversight of *Cryptosporidium* Laboratories Supporting LT2 Monitoring" are available online at: http://water.epa.gov/lawsregs/rulesregs/sdwa/lt2/upload/epa815F13001.pdf. Region 5 EPA last audited the Indiana laboratory certification program in May 2013 EPA will monitor progress toward addressing comments and findings from the lab certification audit.	

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R5 expects to conduct a lab audit and program review in Indiana during FY16.

Ongoing activity, meeting commitment.

R5 conducted a lab audit and program review in Indiana in October 2016. Results and findings are currently being discussed.

16.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
three years and will meet all requirements of 40 C.F.R. parts 141 and 142. Guidance for these certifications is provided in the EPA Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition. Third parties may be used to conduct the on-site inspections of the laboratories, but the certifications must be issued by an appropriate State official. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*			
16.2 – EPA recommends that the State has a process for ensuring capacity to analyze at the Principal State Lab or commercial labs all NPDWR parameters that are required to be sampled in the State.	The Lab Certification process established by ISDH ensures all NPDWR parameters can be analyzed by the State Lab (ISDH) and/or qualifying commercial labs.		Ongoing activity, meeting commitment. R5 EPA confirms that Indiana is maintaining a laboratory certification program that meets Agency criteria.

17.0 Table 1. Primacy Activities

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Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
17.0 – Compliance and Enforcement Management			
17.1 – Participate with R5 in compliance and enforcement planning actions, including referrals, Enforcement Verification audits, and State compliance and enforcement strategy updates. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM's compliance and enforcement strategy was last updated several years ago. However, the strategy does reference EPA's guidance manual as well as IDEMs DWB SOPs as part of the strategy. Currently we have almost 28 SOPs in place. These SOPs were provided to EPA. IDEM's compliance strategy is current. It is routinely updated to reflect any rule changes, policy updates and/or implementation revisions. IDEM will attend R5 meetings as resources and management priorities allow. When unable to attend in person, IDEM will participate via phone.	EPA Region 5 conducted its last enforcement verification visit in November 2008. The final EV report was dated August 24, 2012. R5 will conduct EV audits as resources allow.	Activities consistent with commitment. R5 EPA did not conduct an enforcement verification (EV) audit of IDEM in 2016. No EV is scheduled for 2017.
17.2 – The State will conduct compliance assistance and enforcement activities to help prevent systems from becoming ERP priorities and to address or resolve ERP priority systems within six months after being identified as priorities.	IDEM will conduct compliance assistance and enforcement action according to the process outlined in the State compliance and enforcement strategy.	Assist with enforcement referrals, enhanced data exchange, analysis, data clean up, or other joint efforts as requested by State.	Ongoing activity, meeting commitment. R5 EPA did not receive any referrals from IDEM in 2016. R5 EPA commends the state for its efforts to improve data accuracy during the year.

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17.3 – Evaluate compliance with all rules for which the State has primacy. Respond to all violations, provide compliance assistance where appropriate and escalate to formal enforcement where systems have not returned to compliance in a timely way or are not complying with a schedule to return to compliance.	Compliance evaluation is an on-going State commitment in order to achieve the best compliance rate for Indiana. DWB has a Capacity Development Team that assists in achieving compliance for recalcitrant systems.	Assist with enforcement referrals, analysis, data clean up, or other joint efforts as requested by State.	Ongoing activity, meeting commitment. EPA continues to request referrals from IDEM. R5 EPA commends IDEM for its diligence in responding to all violations in a timely manner, and providing compliance assistance where needed
17.4 – The State will send R5 an update on compliance and enforcement activities within the timeframe requested in the quarterly ERP letter.	IDEM will update R5 on compliance and enforcement activities within the timeframes requested in the quarterly ERP letter.	Each quarter, R5 will send the States updated ERP reports requesting a State update. R5 will integrate State updates into reports before the next request is sent out.	Ongoing activity, meeting commitment. R5 EPA commends IDEM for its timely and accurate updates on compliance and enforcement activities in response to ERP request letters.
17.5 – Electronically report State formal enforcement actions, return to compliance (SOX) dates, and deactivation dates to SDWIS/FED, and correct data errors in SDWIS/FED, which result in systems erroneously being classified as priorities based on the ERP. Reporting SOX dates and enforcement actions and ensuring to link enforcement actions to all appropriate violations helps ensure an accurate ERP list.	The State will update SDWIS/FED information quarterly, and link ERP-addressing enforcement actions and/or SOX dates to violations, as appropriate, such that SDWIS/FED accurately represents those actions for each violation affected.		Ongoing activity, meeting commitment. R5 EPA confirms that IDEM met all of its electronic reporting commitments and addressed all data issues that showed up in the quarterly ETT.
17.6 – See OECA annual	IDEM commits to address and	R5 will track State commitments	Ongoing activity, meeting

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commitment system (ACS) measure (SDWA02) in Attachment A. Commit to address and resolve a specific number of systems between July 2015 and June 2016.	resolve the specified number of systems within the applicable time frame.	under measure SDWA02 and update State quarterly, engaging in discussion with States on progress, as needed.	commitment. For FY 2016 IDEMs commitment was 42 systems. End of year results in the July 2015 ETT show that IDEM addressed or returned to compliance 84 systems between July 1, 2015 and June 30, 2016 (30 from the original 42 on the July 2015 fixed base list plus an additional 54 that had become priority systems after July 2015). IDEMs performance was 200% of its original commitment, which is a truly outstanding achievement. For 2017, IDEMs commitment is 61 systems.

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18.0 Table 1. Primacy Activities

Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
18.0 – Data Management and Reporting			
18.1.a – State must use the latest version of SDWIS/FedRep to validate and correct errors prior to data submittal. The State must also correct all object errors and as many data quality errors identified by the SDWIS/FED-ODS processing software. These corrections should be submitted before the end of the quarter. Further, States should follow agreed upon protocol (dated 10/5/2006) for transmittal, receipt, and review of output reports by the Region.	For each data submission with errors IDEM will contact the Region about their plans for fixing them. IDEM-DWB has created and tested the modernized test database and is in production mode (and has been since 2005). Error correction is an ongoing process for IDEM-DWB staff since IDEM is fully utilizing all	Provide technical assistance and program assistance to all Region 5 States related to data management.	IDEM has upgraded SDWIS/FedRep to the latest version – 3.51 R5 EPA confirms and commends IDEM for upgrading to and using the latest version of SDWIS/FedRep to validate and correct errors prior to data submittal.

Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).	applicable modules of SDWIS. IDEM will continue to provide error free XML submittals. IDEM will provide a commitment for the transition to SDWIS/Prime (once it has the capability of performing with similar functionality as SDWIS/State has been established). SDWIS/Prime must be fully functional and able to migrate SDWIS/State legacy data before we commit to a transition.		

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18.2 – Continue to improve inventory reporting to SDWIS/FED, focusing primarily on inventory data quality errors and improving locational data for CWS and NTNCWS intakes, wells, and treatment plants for regional emergency response needs. States are encouraged to report locational data for TNCWS, too, but this is not a requirement.	Inventory reporting improvement is an ongoing process for IDEM-DWB staff since IDEM is fully utilizing all applicable modules of SDWIS. IDEM will continue collecting treatment plant information thru sanitary survey information and source water lat/long data. Reporting to the SDWIS/ODS database will be on-going for the information. Locational data for intakes, wells, treatment plants, and other major system components collected by DWB the Field Inspection and Ground Water Sections will be entered into SDWIS. IDEM will ensure that all CWS and NCWS inventory information, including sanitary survey information obtained for LAT/LONG data, is updated routinely. The updated inventory data will be uploaded to SDWIS Fed/Rep during our routine quarterly submittal.	R5 will notify States of any inventory requirement changes when they are documented by EPA headquarters.	Meeting commitment. R5 EPA confirms that IDEM is meeting the commitment for this activity, including the reporting of locational data.
18.3 – Continue to improve the data reliability by the following activities (Data Quality Improvement Plan): 18.3a – IDEM will commit to full automation including electronic reporting from labs and automated monitoring schedule generation and system notification.	Since data management is critical to each State's ability to maintain primacy, the State will send a representative to the annual ASDWA Data Management Users conference. IDEM utilizes the Lab-to-State module. However, to assist most Certified Labs and PWS in full automation of electronic reporting,	R5 will evaluate the extent to which TCR and nitrate violations are reported late to SDWIS/FED. R5 expects that compliance determination and violation reporting tool (CDVRT) training will be conducted when all of the modules are completed. Region 5 will assist States with resolving data quality issues, as	Meeting commitment. State is using SDWIS 3.33. IDEM eSE application is being used by several labs for online sample result submittal to the SDWIS database. IDEM staff do additional QA/QC on these submittals and continued lab training to ensure data quality.

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18.3b – IDEM will automate the compliance determinations for all rules for which it has primacy. 18.3c – IDEM will update standard operating procedures, as necessary, to ensure proper compliance determinations are being made. 18.3d – IDEM will provide timely compliance determination training to staff, particularly for new rules. 18.3e – IDEM will ensure the accuracy of the service area reporting for school and daycare PWSs and make revisions as necessary.	the State developed electronic sampling entry (eSE) with QA/QC capability allowing Certified Labs to submit single or batch data directly into SDWIS/State, thus saving IDEM of doing data entry of lab results. SDWIS is supposed to automate compliance determinations for all rules. However, if SDWIS cannot automate compliance, IDEM developed and will implement an add-on application to achieve automation. SOPs are developed as needed when new procedures are put in place for proper compliance determination. So far, 28 SOPs have been developed. IDEM routinely attends webinars provided for training staff on current and specifically new rules. In addition, in-house training and mentoring is done by senior staff to new staff. IDEM will copy Region 5 when responding to the annual headquarters survey asking about information on SDWIS. In addition, staff continues to maintain (on a daily basis) updates or revisions to all elements of the inventory modules (especially for schools and daycare facilities) for proper accuracy.	appropriate and resources allow. Region 5 requests that States copy the region when responding to the annual headquarters survey asking about which States are using various SDWIS/State components.	SOPs continue to be made and updated as necessary. All other commitments are met. R5 EPA confirms that IDEM is meeting all of its commitments for this activity and using SDWIS 3.33.

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	IDEM has always been committed to correcting data errors. Our database is transparent to the public and when errors are found, corrections are made as soon as possible.		

19.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
19.0 – Annual Compliance Report			
19.1 – Prepare and submit an Annual Compliance Report (ACR). Please provide a summary of the number and percentage of systems (by system type) in compliance with monitoring requirements, by rule, as part of this report. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM will submit ACRs for the following fiscal years by the corresponding due dates: For FY 16: 7/1/16 For FY 17: 7/1/17	OECA to provide annual ACR guidance. R5 will forward guidance when received.	Completed for calendar year 2015. R5 EPA confirms that IDEM prepared and submitted an annual compliance report by the specified deadline date.

20.0 Table 1. Primacy Activities			
Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
20.0 – Conduct Joint Assessment of Program Progress Using Evaluation Tools such as U.S. EPA's Strategic Plan and State/U.S. EPA Shared Goals			
20.1 – Gather information to track strategic plan progress. The IDEM DWB Director will attend the annual Region 5 State directors' meeting in April 2016 and April 2017 to discuss primacy and implementation issues. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM will report on the status of State's commitments for measures in U.S. EPA's strategic plan as requested. The IDEM DWB Director will attend the annual Region 5 State directors' meeting in April 2016 and April 2017 to discuss primacy and implementation issues.	Compile information and report to HQ. Annually assess each State's progress in attaining the shared goals milestones, and identify U.S. EPA or State follow-up actions needed to maintain or improve compliance. Negotiate appropriate disinvestments with States as necessary to ensure that the highest priority work is done. Work with State drinking water and ground water programs to increase public understanding of the impacts of budget cuts on public health protection efforts, and assist in State efforts to gain additional program resources. R5 will schedule semi-annual conference calls about every six months to discuss status updates and issues regarding State-specific topics, as necessary.	Goal: EOY: Milestone 1 ≥95% 94.3 Milestone 2 ≥95% 90.7 Milestone 3 <5% 7.6 Milestone 4 <10% 13.2 Milestone 5 <5% 6.6 Milestone 6 <10% 5.3 Milestone 7 <10% 20.2 For Calendar Year 2015 (April 2016 data freeze), Indiana met or exceeded this milestone: Milestone 6: M/R violations for chronic violators Indiana did not meet all of the other milestones: Milestone 1: NTNCWS meeting standards Milestone 2: TNCWS meeting standards Milestone 3: Population having significant M/R violations Milestone 4: CWS with major violations Milestone 5: NTNCWS with significant acute M/R violations Milestone 7: TNCWS that have significant M/R violations R5 EPA finds in general that IDEM

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			has trended below expectations. While there are some outlier variations, we note that the trend has been improving from 2008 until now. Overall, our records show that IDEM needs to make improvements to ensure that these goals are met.

1.0 Table 2. Other Activities

Other Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
1.0 – Preparing for Security Threats at PWSs			
1.1 – The State has adopted and can implement an adequate plan for the provision of safe drinking water under emergency circumstances including, but not limited to, earthquakes, floods, hurricanes, and other natural disasters.	The State has developed a template, available to all systems, for emergency response and provision of water during emergencies. System plans will be reviewed during sanitary surveys. IDEM participated in scheduled conference calls with U.S. EPA. IDEM continues to work with local and county security contacts and LEPCs and to work with INWARN to bolster asset deployment during emergencies.	Review state emergency water plans and consult with the state on implementation capabilities.	Ongoing activity. We have been active in INWARN. Participated in the conference calls. We have placed a greater emphasis on cyber security this year. To this end we have participated in training sessions around the state. We have participated in and/or have helped with tabletop exercises. R5 EPA commends IDEM for its active participation in these activities.

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2.0 Table 2. Other Activities

Other Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
2.0 – Operator Certification			
2.1 – Annually provide documentation to U.S. EPA showing the ongoing implementation of the Operator Certification Program to avoid 20% withholding of the DWSRF capitalization grant. Due Dates – September 30, 2015 and September 30, 2016 *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM will submit the requested documentation by the specified due date.	IDEM received primacy approval for its operator certification rules on 9/1/01. Coordinate information and issues on Op Cert Program implementation, and review and approve annual reports.	Annual report submitted as required. Commitment met. R5 EPA confirms that IDEM submitted its annual report on time

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2.2 – For operators of CWSs and NTNCWSs: (1) provide training and certification opportunities for new operators, and (2) provide training and opportunities for upgrading and renewing certification for existing operators.	IDEM staff will continue working with systems experiencing certified operator vacancies and will follow up with systems to help them locate and secure viable candidates. IDEM will continue to ensure that certified operators demonstrate technical knowledge. IDEM will provide training and assist training providers in developing and presenting topics designed to help operators pass the certification examination required by the Commissioner.		Ongoing commitment. We provide multiple training opportunities for operators on our own and in partnership with the state professional associations. We send lists of operators located in and around the system with the vacancy. We also maintain a list of operators seeking employment. These resources are provided to systems as needed. We have formed a stakeholder workgroup that is working to continually improve our test and develop training opportunities for operators to study for the test. R5 EPA commends IDEM for developing and employing innovative approaches to make training and testing available to operators and future operators.

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2.3 – Provide supplemental certification and training to water system operators on relevant "Sustainable Water Infrastructure" topics from section 1.0 of the "EPA national and regional priorities" table of the ARDP to ensure sustainable water utilities and water supplies. For example, conduct CEU-eligible training to water operators on supply/demand water efficiency or add supplemental questions on treatment plant energy efficiency activities to certification exams.	IDEM does not currently offer training on Sustainable Water Infrastructure or supply/demand water efficiency. There are currently insufficient resources to conduct these activities. IDEM will consider adding questions to the certification exams with regard to treatment plant energy efficiency. IDEM will continue working with Finance Centers to provide asset management training in Indiana. IDEM will continue working on a strategy for the training of operators on how to conduct Level 1 assessments.	As requested, the Region 5 sustainable water infrastructure (SWI) workgroup will provide training and outreach materials to water system operators and technical assistance providers, in coordination with States. R5 suggests the following four activities on how to improve Indiana's already solid operator certification program, the first two of which are focused on asset management: – Train water operators how to maintain and monitor inventory and replacement life-cycle information for system components; – Teach water operators how to use system inventory and replacement life-cycle information to produce critical need projections for decision-makers; – Inform managers and municipal officials about the benefits and incentives to hire returning veterans; and – Train operators how to conduct Level 1 assessments to satisfy RTCR requirements.	We do not offer specific training in this area. However, we regularly consult with the EPA Finance Centers to bring their expertise to systems as needed. As we move along with the stakeholder workgroup we will begin to add questions to the certification exam in this area. R5 EPA commends IDEM for considering green practices in its training and tests. We look forward to future program development in this area.

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3.0 Table 2. Other Activities			
Other Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
3.0 – Capacity Development			
3.1 – Annually provide documentation to U.S. EPA showing the ongoing implementation of both the new systems program and the existing systems strategy to avoid 20% withholding of the DWSRF capitalization grant. Annual report should address the new Capacity Development reporting measures. Due Date – December 31 annually Every three years, submit a report to the governor and provide a copy to U.S. EPA on the efficacy of the strategy and the progress made toward improving the capacity of water systems in the State. Due Date – October 1, 2017 *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM will submit the requested documentation by December 31. IDEM will submit a report to the governor and provide a copy to EPA on the efficiency of the strategy and the progress made toward improving the capacity of water systems in the state by October 1, 2017.	Region 5 will send a reminder to the State concerning the capacity development annual report due date in November.	Report submitted as required. R5 EPA confirms that the IDEM report was submitted on time.

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3.2 – Promote "Sustainable Water Infrastructure" activities as described in section 1.0 of the "national and regional EPA priorities" table of the ARDP in Capacity Development activities and assessments as part of improving the capacity and sustainability of water systems and water supplies. For example, provide technical assistance on starting an asset management program or conduct energy audits for treatment plants.	During trainings, IDEM always promotes system development and implementation of a good asset management program. IDEM does not conduct energy audits for treatment plants at this time. Maintaining records of equipment and supplies as well as infrastructure updates is always promoted. IDEM will continue working with training providers and professional associations to develop and present trainings with regard to asset management.	As requested, the Region 5 SWI workgroup will provide training and outreach materials and assistance on tools (i.e., Check Up Program for Small Systems (CUPSS)) to water system operators and technical assistance providers, in coordination with States.	While we do not offer specific training in this area, we regularly consult with the EPA Finance Centers to bring their expertise to systems as needed. We continually work with training providers and professional association to develop timely and relevant training to operators. New state legislation required systems to look at asset management. A final report compiled by our SRF staff was submitted to the legislature. R5 EPA commends IDEM for considering promotion of sustainable practices in its training and tests. We look forward to future program development in this area.

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4.0 Table 2. Other Activities			
Other Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
4.0 – Source Water Assessments and Protection			
4.1 – Update source water assessments, including effects of climate change, as resources allow. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM staff will review previously prepared SWP plans as PWS's come due for SOC/VOC waiver renewals. SWP plans will be amended/updated as necessary. Wellhead Plans at CWSs are required by rule to be updated by the PWS and IDEM will review the updates. At this time IDEM does not foresee directly incorporating the effects of climate change when updating source water assessments. Indirectly, climate change is addressed through awareness of the importance of the protection of sources of drinking water and the necessity to having an up-to-date contingency plan in case of extreme circumstances which would include planning for extreme weather situations such as prolonged drought or, as experienced this past winter, extreme periods of uncharacteristically cold temperatures.		Ongoing activities, met commitments. R5 EPA commends IDEM for its efforts to work with systems to review and update previously prepared SWP assessments and plans.

4.2 – Assist local community source water protection (SWP) plan preparation and implementation, including climate change adaptation activities, in cooperation with Source Water Collaborative (SWC) members (e.g., National Rural Water Association, American Planning Association, and others).	IDEM will continue to work with the Alliance of Indiana Rural Water (Indiana's National Rural Water Association representative), ASDWA, the Groundwater Protection Council, USGS and USDA. Organizations that IDEM would like to develop a closer working relationship include Rural Community Assistance Partnership and AWWA. When assisting local communities, the awareness of climate change and extreme weather changes will be included in the discussion of preparedness, planning and implementation of Source Water Protection Plans.	Continue to develop tools as needed, foster cross-program coordination, and encourage coordination with SWC partners to encourage broad-based actions at the State and local levels to address potential sources of contamination. Provide states with examples of existing state-wide collaboratives and contacts, as requested (see, for example, the SWC website). Facilitate the development and expansion of State-SWC partnerships. Provide feedback and guidance. Encourage interstate communication through conference calls and an annual State–R5 EPA meeting. The next meeting will be in the spring 2016 at a location TBD. Encourage data sharing with other programs to prioritize permitting and compliance activities in source water areas, for example.	Ongoing activities, met commitments. R5 EPA commends IDEM for developing and maintaining a productive relationship with the Alliance or Indiana Rural Water and other collaborative partners. We stand ready to assist with further development of Indiana's SWP collaborative network.

4.3 – Report the number of CWSs with SWP plans and the number of CWSs implementing SWP measures (electronically via SDWIS, if possible). For States that do not report via SDWIS, R5 requests that States voluntarily provide a list of system names and/or PWSID numbers that have SWP plans in place and a list of system names and/or PWSID numbers that are substantially implementing SWP as defined by the State as of June 30, 2016 by August 15, 2016. Consider ways to document and track SWP implementation efforts in State data system.	IDEM will report SWP progress electronically via SDWIS, which will include a downloadable list of water systems which qualify for inclusion on the list of systems which meet the State's "substantial implementation" list.	Maintain and update State information in the Region 5 portion of the SWP report, as requested by EPA HQ. Monitor State performance versus predetermined targets SDW-4a and SDW-4b).	Reporting of the number of CWSs with SWP plans and the number of CWSs implementing SWP measures which met the State's "substantial implementation" definition were done electronically via SDWIS, met commitment. R5 EPA confirms that IDEM met its electronic reporting commitment.

4.4 – Develop and implement coordinated approaches with other regulatory and voluntary programs to protect both the quality and quantity of source water, particularly in areas of concern,	IDEM will work with other partners to protect source water. A few examples include our work with remediation programs to prioritize cleanups in source water areas and coordinating with the Center for Earth and Environmental Science at Indiana University-Purdue University Indianapolis, the Indiana State Department of Health and the Indiana Department of Natural Resources to provide information about blue-green algae in our waterways. IDEM will work with the Indiana Finance Authority (IFA) providing assistance to CWSs which utilize surface water as their source of drinking water. IDEM will coordinate on document development and outreach for Surface Water Emergency Response Plans (SWERPs). The SWERP document will provide CWS's: a) guidance in case of an emergency, b) source water awareness, and c) methods for minimizing contamination risk.	Provide training, technical assistance, and technology transfer capabilities. Facilitate the adoption and sharing of Geographic Information System databases to support local decision making. Work with Clean Water Act programs (e.g., using the draft CWA/SDWA integration guide and/or the online CWA/SDWA toolkit) to encourage assessment of surface waters for drinking water use, prioritize impaired waters, protect intakes downstream of NPDES-permitted sources, develop TMDLs, and develop tailored approaches to achieve substantial implementation. Review State 303(d) and 305(b) reports (or integrated reports) to recommend opportunities for source water protection. Work with the State to characterize current and future pressures on source water quality and availability. Support voluntary programs, such as WaterSense and other SWI activities, to protect drinking water resources.	IDEM has continued to coordinate with partners in research with includes Edge-of-Field (EOF) sampling within the School Branch watershed. Partners include the Natural Resource Conservation Service (NRCS), United States Geological Survey (USGS) Indiana University-Purdue University (IUPUI), Indiana Geological Survey, and participating family farmers within this watershed. The 6 year project will quantify the effects of agricultural practices on water quality and quality through EOF sampling, ground water monitoring tied with soil moisture real-time telemetry. Lessons learned through the collaborative efforts of this project will be taken forward towards promoting better soil/tillage management practices, sustainable water management. Thirty one (31) Surface Water Emergency Response Plans (SWERPs) have been developed by the IDEM/IFA team, 30 of the SWERPs have been provided to the PWS's for their use. The final SWERP is undergoing internal review and final edits with early 2017 delivery to the PWS anticipated. Ongoing activities, met commitments. R5 EPA commends IDEM for developing and implementing creative relationships and approaches with other agency partners to protect sources of

4.5 – Develop and expand SWP program implementation mechanisms, such as climate change adaptation planning, where possible.	IDEM will work with communities to update wellhead protection plans and facilitate implementation of Phase II WHPP's. IDEM will promote source water protection partnerships with other SDWA and CWA program areas.	Promote the innovative use of DWSRF set-asides and other potential program funding streams.	Ongoing activities, met commitments. R5 EPA recognizes IDEMs work to expand its SWP program to make use of potential funding from the DWSRF and from partnerships with other SDWA and CWA program areas.

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5.0 Table 2. Other Activities			
Other Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
5.0 – Conduct Joint Assessment of Program Progress Using the PWSS Program Implementation Report			
5.1 – Review the draft summary prepared by R5 and assist in filling gaps related to the State's PWSS program to support the various components of the PWSS program implementation logic model. *Note:* State-specific measures and indicators summaries, which include a review of the State-specific logic model reporting tool data are available via the Quickr site (click here or go to https://epaqpx.rtp.epa.gov/Region5statepwssprograms). See the State-specific summaries in each State room by clicking on a particular State and then clicking on the "Indiana Measures and Indicators" link on the left side of the screen. The raw logic model data for all Region 5 States are also available via the Quickr site in the "Region 5 Measures and Indicators" room and the "Logic model reporting tool" sub-room. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	IDEM will participate with R5 in the joint assessment of program progress, filling program gaps as resources allow.	Use the logic model to improve our ability to understand, measure, assess, and communicate progress.	IDEM participated as requested. R5 EPA concurs with this assessment.

1.0 Table 3. National and Regional EPA Priorities			
Other Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
1.0 – Sustainable Water Infrastructure			
1.1 – Enable water system and water supply sustainability by providing incentives through DWSRF set-asides and grant criteria, providing training, and encouraging sustainable water infrastructure (SWI) activities, including, for example, those related to water and/or energy efficiency, asset management, and climate change adaptation and mitigation activities. SWI is important to the success of other activities in this work plan, including source water protection, DWSRF, operator certification, capacity development, and all-hazards resiliency approaches, etc. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	The Indiana State Revolving Fund (SRF) Loan Program has a sustainability incentive for communities to include "green" project components in their SRF projects. Green projects include sustainable green infrastructure, water or energy efficiency measures, or environmentally innovative solutions. Based on the type and cost of the green component, a community may be eligible for improved ranking on the SRF Project Priority List as well as an interest rate break up to 0.5 % on its SRF Loan.	Region 5 staff participates in a region-wide SWI workgroup created to develop and share information about the cost savings and benefits of investments in SWI initiatives, including WaterSense. Region 5 staff participates in regional and national EPA climate change adaptation/mitigation workgroups that share information about ongoing initiatives. R5 to engage States to discuss and identify what, if any, sustainable water infrastructure/climate change efforts are priorities.	R5 EPA acknowledges sustainability incentives for systems to include green project components in SRF projects and encourages the State to continue to promote the incorporation of sustainable infrastructure in every aspect of its program, wherever possible.

2.0 Table 3. National and Regional EPA Priorities			
Other Activity Components	**State Commitment**	**Region 5 Activities**	**State/U.S. EPA Evaluation**
2.0 – Environmental Justice			
2.1 – Provide incentives through DWSRF set-asides and grant criteria or otherwise promote and encourage environmental justice. *Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).*	The Indiana Drinking Water State Revolving Fund (SRF) Loan Program gives priority to lower income and smaller population-served communities on its Drinking Water SRF Project Priority List. In addition, the Indiana Drinking Water SRF Loan Program provides additional subsidy, in the form of principle forgiveness, to eligible communities with high post-project user rates. The Indiana SRF Loan Program accepts public comment on its Intended Use Plans, Project Priority Lists, and environmental review documents. Current documents may be viewed at www.srf.in.gov. IDEM will coordinate with EPA Region 5 to explore incorporation of environmental justice concerns.	R5 has the capability to provide States with draft GIS maps that show areas with environmental justice concerns through EJSCREEN, which we anticipate will be introduced to the States by summer 2015. States currently have access to the public tool, EJView, available online at: http://epamap14.epa.gov/ejmap/entry.html.	R5 EPA was unable to verify the extent to which IDEM addressed environmental justice concerns.

Attachment A: Linking the Strategic Plan to this Work Plan

This continuing program grant is consistent with U.S. EPA's Strategic Plan Goal 2: Clean and Safe Water, which calls for protecting public health by providing safe drinking water. Many of the grant work plan activities contribute to the goal of assuring that people served by public water systems receive drinking water that meets all applicable standards through effective treatment and source water protection. Continuing program implementation includes adopting rules at least as stringent as federal regulations, providing assistance to public water systems on regulatory requirements, conducting sanitary surveys, ensuring that monitoring and follow-up is conducted, and enforcing regulations.

Table 4. Final FY 2016-2017 National Water Program Guidance:
OW and OECA National Program Manager (NPM) Guidance Regional Targets and Program Activity Measures[1]

OW ACS code	Goal 2: Clean and Safe Water Subobjective 2.1.1: Water Safe to Drink
SDW-211	By FY2016, 92 percent of the population served by CWSs will receive drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection. State FY16 target: 92% FY 16 EOY: 95.7%
SDW-SP1.N11	By FY2016, 90 percent of the CWSs will meet all applicable health-based standards through approaches that include effective treatment and source water protection. State FY16 target: 90% FY 16 EOY: 93.1% **FY 16 Target Met**
SDW-SP2	By FY2016, CWSs will provide drinking water that meets all applicable health-based drinking water standards during 95 percent of "person months" (i.e., all persons served by CWSs times 12 months). State FY16 target: 95% FY 16 EOY: 97.5% **FY 16 Target Met**
SDW-SP4a	By FY2016, minimize risk to public health through source water protection for 41 percent of CWSs (i.e., "minimized risk" achieved by substantial implementation, as determined by the State, of actions in a source water protection strategy). State FY16 target: 87% FY 16 EOY: 79% **FY 16 Target NOT Met** State explanation: Indiana's Source Water Protection Program for all Public Water Systems utilizing ground water is required by the Wellhead Protection Rule (327 IAC 8-4.1). Phase I is building a Wellhead Protection Plan (WHPP). IDEM reviews and ultimately approves the PWS's Phase I WHPP; then it is up to the system to take ownership of what they say they are going to do and implement their WHPP. In Phase II, PWS's pull together their results, update what has changed and is required to report back to IDEM on their implementation. During Phase I, IDEM has been successful in approving most all of the PWS's utilizing ground water. IDEM had problems with small systems (serving a population of 3300 or less) getting them to comply with the requirements of Phase I; but ultimately achieved success through Phase I workshops, assistance from the Alliance of Indiana Rural Water (NRWA Affiliate), and one on one sitting down with systems individually on what was required. Small systems had 10 years to implement their approved Phase I plan before they were required to report back to us on their progress; which is called Phase II. This past year a number of smaller systems were due to report back their progress through Phase II reporting. Small systems serving 3300 are still problematic due to the limited resources available to them and lack of time that they feel they can devote to source water protection efforts. As a result, IDEMs target number went down this last reporting period. IDEM has been actively

	working with the Alliance to motivate these smaller systems to comply with our Wellhead Protection Rule, but it is going to take time for them to come into compliance. Small systems are lagging behind expectations of reporting their Phase II WHPP implementation results back to us. Non-compliance with the State rule automatically drops systems from being counted as "substantially implemented" as per the IDEM criteria for this measure. (Source: Jim Sullivan, IDEM, 10/21/16)
SDW-SP4b	By FY2016, minimize risk to public health through source water protection for 65 percent of the population served by CWSs (i.e., "minimized risk" achieved by substantial implementation, as determined by the State, of actions in a source water protection strategy). State FY16 target: 74% FY 16 EOY: 88% **FY 16 Target Met**
SDW-01a	By FY2016, 79 percent of CWSs have undergone a sanitary survey within the past three years (five years for outstanding performers or those ground water systems approved by the primacy agency to provide 4-log treatment of viruses). State FY16 target: 79% FY 16 EOY: 99.7% FY **16 Target Met**
SDW-04	In FY2016, achieve an 88 percent fund utilization rate [cumulative dollar amount of loan agreements divided by cumulative funds available for projects] for the Drinking Water State Revolving Fund (DWSRF). **Target met**
SDW-05	The number of DWSRF projects that have initiated operations (cumulative). **Target not met but does not directly relate to IDEM.** Explanation for Target Missed: The 2016 regional total for completed projects initiating operations is slightly lower than the target. The difference, while nominal, is due to the target being based on a straight-line projection of the long-term trend in annual totals, which failed to emphasize the downward shift in the last three years during which states generally made loans that were larger, but fewer in number.
SDW-11	Percent of DWSRF projects awarded to small PWSs serving <500, 501-3,300, and 3,301-10,000 consumers. **This is an indicator that HQ reports (no State Target)** FY 16 EOY: 70% Regionally
SDW-15	Number and percent of small CWSs and NTNCWSs (<500, 501-3,300, 3,301-10,000) with repeat health-based Nitrate/Nitrite, Stage 1 D/DBP, SWTR and TCR violations. FY 16 Target: None FY 16 EOY: 9/1309 or 0.7%
SDW-17	Number and percent of schools and childcare centers that meet all health-based drinking water standards. FY 16 Target: None FY 16 EOY: 217/228 or 95.2%
SDW-21	Number of drinking water and wastewater utilities and local, State, and federal officials receiving training and technical assistance to enhance emergency preparedness and resiliency to reduce risk from all hazards including those attributed to climate change impacts. No State Target.
OECA ACS code	**Goal 5: Compliance and Environmental Stewardship** **Subobjective 5.1.2: Address Environmental Problems from Water Pollution**
SDWA02	During FY 016, the primacy agency must address with a formal enforcement action or return to compliance the number of priority systems equal to the number of its PWSs that have a score of 11 or higher on the July 2015 ETT report. State, territory, and tribal breakouts shall be indicated in the comment field of the Annual Commitment System. Please note: A primacy agency's success at addressing violations will be tracked by means of the quarterly ETT reports. Numerical targets may be adjusted at mid-year. While it remains the ERP's goal that all of a priority system's violations will be returned to compliance, a primacy agency has met its commitment under the FY 2016 SDWA ACS with respect to a priority system if the score for that system has been brought below, and remains below, 11. State FY16 target: For FY 2016 IDEMs commitment was 42 systems. End of year results in the July 2015 ETT show that IDEM addressed or returned to compliance 84 systems between July 1, 2015 and June 30, 2016 (30 from the original 42 on the July 2015

fixed base list plus an additional 54 that had become priority systems after July 2015). IDEMs performance was 200% of its original commitment, which is a truly outstanding achievement.

For 2017, IDEMs commitment is 61 systems.

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[1] The information in Table 4 is based on final FY2016-2017 OW and OECA measures at: http://www2.epa.gov/sites/production/files/2015-02/documents/fy_2016-2017_nwpg_narrative_2015.pdf (Appendix A) and http://www2.epa.gov/sites/production/files/2015-04/documents/fy1617oecanpmguidance.pdf (Appendix 2), respectively.

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Attachment B: State-specific Measures and Indicators Summaries

State-specific measures and indicators summaries, which include the above NPM guidance targets and measures, as well as the Region 5 shared goals, logic model reporting tool data, and Region 5 high priority queries are available via the Quickr site (click here or go to https://epaqpx.rtp.epa.gov/Region5statepwssprograms). See the State-specific summaries in each State room by clicking on a particular State and then clicking on the "IN Measures and Indicators" link on the left side of the screen. The raw data for all Region 5 States are also available via the Quickr site in the "Region 5 Measures and Indicators" room.

You'll be asked for your user name and password to access the Quickr site. For EPA staff, your user name is your Lotus Notes user name (first name and last name, such as "John Smith"), and your password is your Lotus Notes password. For State staff, you selected your user name and password when you registered for the site. If you need to register for the Quickr site, please contact your State Program Manager: Bill Spaulding (spaulding.william@epa.gov; (312) 886-9262)

Note: EPA is transitioning to SharePoint, and we'll eventually have new access and registration information available for State staff.

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To: Bair, Rita[bair.rita@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Bosscher, Valerie
Sent: Mon 1/23/2017 4:43:27 PM
Subject: East Chicago next steps discussion
Tables and Graphs for Letters (some prelim, with CRLdup).xlsx
DRAFT EC sequential_sampling prelim data_memo_FinalLeadOnly .docx

Hi All,

Regarding next steps for EC data/letters:

- FULL Final data – We currently have 3 sites that we can send complete final data packages with final pre- and post-excavation (they were sent preliminary data last week). I will work with Tim Drexler to send updated letters as additional final data comes in.

o **Proposed language to add to the beginning of the memo:**

U.S. EPA has now received final analytical results for drinking water samples collected at your home as part of the 2016 Sequential Sampling Pilot Study. This memorandum includes all final results collected at your home and replaces the preliminary results that were sent to you on MM/DD/YYYY.

- Final Lead-only data – We have received validated results for Lead for the remaining STAT data packages. Tim Drexler indicated that SRS plans to provide all the Full Final data for all jobs by the end of this week.

o Based on talking with Tom and Andrea this morning, I put together the attached example memo for transmitting only the final lead data (where prelim was sent last week).

o

o The sooner we have a final template, the better if we are going to send out memos to these affected sites. We will also need to get the language translated for Spanish-speaking residents.

Ex. 5 - Deliberative Process

o Based on talking with Tom this morning, we will prepare the memo consistent with the above, to transmit these CRL results.

- **Do we need additional language in the final memo to discuss these duplicate analyses?**

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 4:54 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: 16100351 Final Lead Results

I agree, let's discuss on Monday with Tom.

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:33 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Rita,

I do not see a benefit of sending "final" letters if only Lead data will be finalized by Monday (see email from Tim Drexler below). It is good that we got the prelim letters out today.

We can finalize and resend letters as the data comes in, but it sounds like that will be ongoing next week.

Thanks,

Val

From: Drexler, Timothy
Sent: Friday, January 20, 2017 4:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

From: Drexler, Timothy
Sent: Friday, January 20, 2017 3:56 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Val: Does Rich's note below match what you have received so far?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

Richard Baldino

(312) 220-7171 x2223 office

Ex. 6 - Personal Privacy **cell**

From: Drexler, Timothy [mailto:drexler.timothy@epa.gov]
Sent: Friday, January 20, 2017 3:20 PM
To: Rich Baldino <RBaldino@srsllc.com>
Subject: RE: 16100351 Final Lead Results

Thanks, Rich. What is your status now, with respect to final validation of remaining samples?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:12 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: 16100351 Final Lead Results

Tim:

Please find attached the final lead results for STAT SDG 16100351. The full preliminary EDD has also been sent to Tetra tech for Upload.

Please let me know if you have any questions or comments.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

Ex. 6 - Personal Privacy **cell**

(312) 220-7172 fax

www.SRSllc.com

To: Bair, Rita[bair.rita@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Reshkin, Karen
Sent: Mon 1/23/2017 4:41:33 PM
Subject: RE: USS Lead DW Pilot Study pages

Hi Rita,

Thank you for catching that. The link now points to

https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water#getinto

Thank you,

Karen

From: Bair, Rita
Sent: Monday, January 23, 2017 8:46 AM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: USS Lead DW Pilot Study pages

Almost everything looks great, except the web link to How Lead Gets Into Drinking Water. That link takes you to lead in air, not drinking water. The proper link is: https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

From: Reshkin, Karen
Sent: Friday, January 20, 2017 5:19 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: USS Lead DW Pilot Study pages

We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.

The page about the pilot

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

The page with the sampling data PDF

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thank you,

Karen

To: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Deltoral, Miguel
Sent: Mon 1/23/2017 10:20:29 AM
Subject: East Chicago residents seek help with bottled water drive

http://www.nwitimes.com/news/local/lake/east-chicago-residents-seek-help-with-bottled-water-drive/article_58163797-e73e-54e8-b182-4922c5129728.html

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

To: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
Cc: Rowan, Anne[rowan.anne@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Janczy, Joseph[janczy.joseph@epa.gov]
From: Deltoral, Miguel
Sent: Sat 1/21/2017 1:33:02 PM
Subject: Articles on East Chicago, Flint and Milwaukee

East Chicago secures $3.1M to replace homeowners' lead pipes

http://www.nwitimes.com/news/local/lake/east-chicago-secures-m-to-replace-homeowners-lead-pipes/article_81762af0-f3c5-544f-9e49-14e41c2be3b3.html

Pence disaster relief denial leaves legislators scrambling to help East Chicago

http://www.chicagotribune.com/suburbs/post-tribune/news/ct-ptb-east-chicago-disaster-request-denied-st-0119-20170119-story.html

Analysis: Packed Water Town Hall evokes spirit of ’76, ’36 as data pours in

http://www.eastvillagemagazine.org/2017/01/18/analysis-spirit-of-76-and-36-evident-at-packed-water-town-hall-as-data-pours-in/

Analysis: Packed Water Town Hall evokes spirit of '76, '36 as data pours in
www.eastvillagemagazine
by Harold C. Ford "…Whe
people and there's a great
people an honorable mea
eliminate that g…

DEQ panel reports Flint water on course to meet lead standards by July

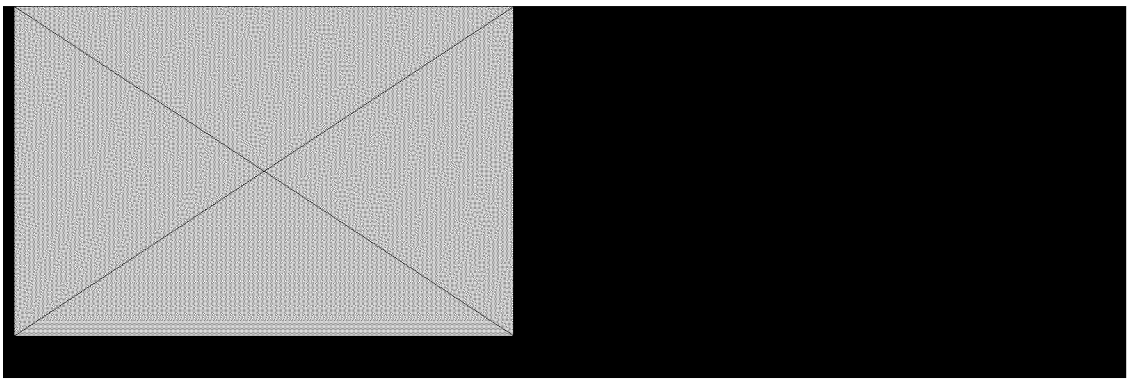
http://www.mlive.com/news/flint/index.ssf/2017/01/deq_panel_reports_flint_water.html

DEQ panel reports Flint water on course to meet lead standards by July
www.mlive.com
The Michigan Department
it convened this week agr
but officials stopped shor
changes to the use of hor

How Milwaukee Handled "Flint" Crisis

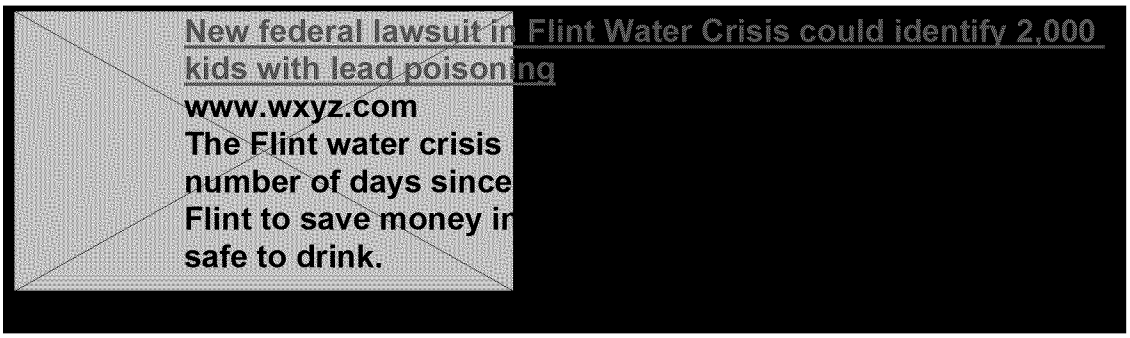
http://urbanmilwaukee.com/2017/01/19/murphys-law-how-milwaukee-handled-flint-crisis/

Murphy's Law: How Milwaukee Handled "Flint" Crisis



New federal lawsuit in Flint Water Crisis could identify 2,000 kids with lead poisoning

http://www.wxyz.com/news/new-federal-lawsuit-in-flint-water-crisis-could-identify-2000-kids-with-lead-poisoning



New federal lawsuit in Flint Water Crisis could identify 2,000 kids with lead poisoning

https://www.youtube.com/watch?v=BsXJGTEHCU8

DEQ panel expected to recommend next steps on Flint water Friday

http://www.mlive.com/news/flint/index.ssf/2017/01/deq_panel_meeting_in_lansing_t.html

Flint city council has questions about proposed upgrade to city water plant

http://michiganradio.org/post/flint-city-council-has-questions-about-proposed-upgrade-city-water-plant

State will oversee construction, pay $4.2 million for Flint water connector

http://www.mlive.com/news/flint/index.ssf/2017/01/state_will_oversee_constructio.html

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

To: Bair, Rita[bair.rita@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]
From: Deltoral, Miguel
Sent: Sat 1/21/2017 1:26:36 PM
Subject: Re: Media request -- East Chicago -deadline cob today

I don't recall EPA sending any letters.

From: Bair, Rita
Sent: Friday, January 20, 2017 10:01 AM
To: Rowan, Anne; Kelley, Jeff; Poy, Thomas; Deltoral, Miguel; Porter, Andrea
Cc: Korleski, Christopher
Subject: RE: Media request -- East Chicago -deadline cob today

My thoughts are **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

From: Rowan, Anne
Sent: Friday, January 20, 2017 9:59 AM
To: Bair, Rita <bair.rita@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Media request -- East Chicago -deadline cob today

In that case, perhaps it's best for her to file a FOIA. She may want to request emails. Thoughts?

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Bair, Rita
Sent: Friday, January 20, 2017 9:57 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Media request -- East Chicago -deadline cob today

I don't think we had any letters. Most of the communication was by email or phone.

From: Kelley, Jeff
Sent: Friday, January 20, 2017 9:55 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Media request -- East Chicago -deadline cob today

These answers look good to me, although we need to figure out how to handle the request for correspondence.

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Rowan, Anne
Sent: Friday, January 20, 2017 9:53 AM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: FW: Media request -- East Chicago -deadline cob today
Importance: High

Thanks for the quick turnaround, Tom. These answers look good to me so if Chris and Jeff have nothing further, I'll send them to the reporter Sarah Reese.

Regarding the last question -- Is it necessary for the reporter to file a FOIA request for any letters between EPA and IDEM regarding orthophosphate? Do we know if there were any letters? Please advise. Thanks.

-----Original Message-----
From: Sarah Reese [mailto:Sarah.Reese@nwi.com]
Sent: Thursday, January 19, 2017 5:35 PM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: Re: Media request -- East Chicago

When did EPA first approach IDEM about orthophosphate levels? Was it because of the 9/28/16 sample, or did EPA go to IDEM before that date?

On October 24, 2016, EPA informed IDEM about low orthophosphate levels in sampling done by EPA as part of the pilot study.

Did EPA review the city's corrosion control plan, Lead and Copper In Drinking Water Reporting forms or the city's pipe inventory before beginning water sampling 9/18/16?

No, the purpose of the pilot sampling was to determine if soil excavation work would have an impact on drinking water quality. East Chicago has historically been in compliance with the Lead and Copper Rule. As a small/medium sized system, they were not required by the regulation to do corrosion control treatment.

If so, did EPA take any actions with regard to the city's plans?

After the water testing results are given to residents, can EPA provide them to The Times with identifying information redacted?

Data (without identifying information) will be posted on EPA's website.

Also, if there are any letters between EPA and IDEM or EPA and East Chicago regarding drinking water from May 2016 to present, particularly any correspondence regarding EPA's previously stated finding that city water had little to no orthophosphate, this is a request for those documents. If I need to make a formal request, please let me know.

To: Reshkin, Karen[Reshkin.Karen@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]
From: Deltoral, Miguel
Sent: Sat 1/21/2017 1:15:04 PM
Subject: Re: USS Lead drinking water web content

One comment on the following sentence:

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager, GWDWB
U.S. EPA Region 5 (WG-15J)
77 West Jackson Blvd
Chicago, IL 60604
W: (312) 886-5253

On Jan 20, 2017, at 1:59 PM, Reshkin, Karen <Reshkin.Karen@epa.gov> wrote:

I've made some edits, too, to make the content work better on a web page.

- Karen

From: Bair, Rita
Sent: Friday, January 20, 2017 12:36 PM
To: Kelley, Jeff; Poy, Thomas; Deltoral, Miguel
Cc: Rowan, Anne; Bassler, Rachel; Reshkin, Karen
Subject: RE: USS Lead drinking water web content

Attached are my suggested edits/additions. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

From: Kelley, Jeff
Sent: Friday, January 20, 2017 10:18 AM

To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Reshkin, Karen <Reshkin.Karen@epa.gov>
Subject: USS Lead drinking water web content

We're preparing a web page about the drinking water pilot. I'm attaching draft content, based largely on the letter that was sent to the Indiana congressmen. Please review and let me know if you see anything that needs to be revised.

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

<Draft EC Drinking Water Web Page 1.20.17 rb (Reshkin, Karen).docx>

To: Kelley, Jeff[kelley.jeff@epa.gov]
Cc: Rowan, Anne[rowan.anne@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Reshkin, Karen
Sent: Fri 1/20/2017 11:27:08 PM
Subject: Re: USS Lead DW Pilot Study pages

Okay, link text now matches page title.
No mention of preliminary or final is offered now except on the document page where there is the sentence "EPA will post final data for all remaining homes when it is available"

Sent from my iPhone

On Jan 20, 2017, at 5:22 PM, Kelley, Jeff <kelley.jeff@epa.gov> wrote:

> Overall, I think this looks very good. But, I think the link text from the pilot page to data should match the title of that page ... or more closely match it. Also, some of the data is final ... the PDF is a mix of preliminary and final data now. When more final data is received, the PDF will be updated.
>
> ---
> Jeff Kelley
> Director, Office of External Communications
> U.S. EPA Region 5
> ph: 312-353-1159
>
> _____
> From: Reshkin, Karen <reshkin.karen@epa.gov>
> Sent: Friday, January 20, 2017 5:19 PM
> Subject: USS Lead DW Pilot Study pages
> To: Rowan, Anne <rowan.anne@epa.gov>, Bosscher, Valerie <bosscher.valerie@epa.gov>, Bair, Rita <bair.rita@epa.gov>, Kelley, Jeff <kelley.jeff@epa.gov>
>
> We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.
>
> The page about the pilot
>
> https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study
>
> The page with the sampling data PDF
>
> https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thank you,

Karen

To: Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]
From: Reshkin, Karen
Sent: Fri 1/20/2017 11:19:00 PM
Subject: USS Lead DW Pilot Study pages

We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.

The page about the pilot

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

The page with the sampling data PDF

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thank you,

Karen

To: Reshkin, Karen[Reshkin.Karen@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]
From: Bosscher, Valerie
Sent: Fri 1/20/2017 10:57:53 PM
Subject: RE: When do you expect the USS Lead data?

I think we were anticipating this would be a stand-alone pdf – are you asking for information for the "Landing page" that this link would be on?

When all final data is reported (or perhaps in discrete updates depending on management direction), I would anticipate this pdf would be replaced with the updated document.

The tables have applicable data notes, including a description of preliminary data, where applicable.

Does that help?

Thanks,

Val

From: Reshkin, Karen
Sent: Friday, January 20, 2017 4:43 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Re: When do you expect the USS Lead data?

Thank you for sending that, Valerie.

I'm making a page for the PDF, and I have questions; anything you can tell me would be helpful.

Is there any other language I should include (maybe about this being preliminary data, or

whether it's for a subset or all of the houses? Or when the samples were taken?)

And do we expect to add more data to this page?

Thank you,

Karen

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:22:20 PM
To: Bair, Rita; Reshkin, Karen
Cc: Porter, Andrea; Kelley, Jeff
Subject: RE: When do you expect the USS Lead data?

Karen,

Sorry for the delay, the computer was moving slowly with the pdf work…

Please see attached for the data tables and figures for the 43 sites in East Chicago – Addresses have been removed, but there is some preliminary data. The included prelim data was sent to residents due to delays at the contract lab in finalizing the data.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 3:12 PM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: When do you expect the USS Lead data?

Val Bosscher will be sending you the data very soon.

From: Reshkin, Karen
Sent: Friday, January 20, 2017 2:45 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: When do you expect the USS Lead data?

Hi Rita,

I'm going to be posting your new web page with USS Lead data, and was wondering when you think the data will be available? I've got plans for this evening, so am trying to fit schedules.

Thank you,

Karen

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]
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Thank you,

Karen

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:22:20 PM
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Cc: Porter, Andrea; Kelley, Jeff
Subject: RE: When do you expect the USS Lead data?

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Cc: Porter, Andrea[porter.andrea@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]
From: Bosscher, Valerie
Sent: Fri 1/20/2017 10:22:20 PM
Subject: RE: When do you expect the USS Lead data?
USS Lead Drinking Water Pilot Study data, 1-20-2017 (no addresses).pdf

Karen,

Sorry for the delay, the computer was moving slowly with the pdf work…

Please see attached for the data tables and figures for the 43 sites in East Chicago – Addresses have been removed, but there is some preliminary data. The included prelim data was sent to residents due to delays at the contract lab in finalizing the data.

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Karen

To: Bair, Rita[bair.rita@epa.gov]; Klassman, Debra[klassman.debra@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Fulghum, Mary
Sent: Fri 1/20/2017 9:36:10 PM
Subject: RE: USS Lead drinking water web content

Thank you, Rita!

From: Bair, Rita
Sent: Friday, January 20, 2017 3:26 PM
To: Fulghum, Mary <fulghum.mary@epa.gov>; Klassman, Debra <klassman.debra@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: USS Lead drinking water web content

From: Reshkin, Karen
Sent: Friday, January 20, 2017 1:59 PM
To: Bair, Rita <bair.rita@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: Re: USS Lead drinking water web content

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- Karen

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Sent: Friday, January 20, 2017 12:36 PM
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Cc: Rowan, Anne; Bassler, Rachel; Reshkin, Karen
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Ex. 5 - Deliberative Process

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Sent: Friday, January 20, 2017 10:18 AM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Reshkin, Karen <Reshkin.Karen@epa.gov>
Subject: USS Lead drinking water web content

We're preparing a web page about the drinking water pilot. I'm attaching draft content, based largely on the letter that was sent to the Indiana congressmen. Please review and let me know if you see anything that needs to be revised.

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

QUALITY ASSURANCE PROJECT PLAN

Superfund Technical Assessment and Response Team (START IV)
EPA Region 5

Contract No. EP-S5-13-01

U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by:

Tetra Tech, Inc.
1 South Wacker Drive
37th Floor
Chicago, Illinois 60606

June 2016
(Revision 3)

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ACRONYMS AND ABBREVIATIONS

%D	Percent difference
%R	Percent recovery
µCi	Microcurie
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
µg/m	Microgram per cubic meter
µR	Microrad
AAS	Atomic absorption spectrometry
APHA	American Public Health Association
ASTM	ASTM International (formerly American Society for Testing and Materials)
bgs	Below ground surface
C	Degrees Celsius
CA	Corrective action
CAS	Chemical Abstract Service
CCB	Continuing calibration blank
CCV	Continuing calibration verification
CDD	Chlorinated dibenzo-p-dioxin
CDF	Chlorinated dibenzofuran
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CF	Calibration factor
CLP	Contract Laboratory Program
CRL	Central Regional Laboratory
CVAA	Cold vapor atomic absorption
DQI	Data quality indicator
DQO	Data quality objective
EDD	Electronic data deliverable
EPA	U.S. Environmental Protection Agency
ERT	Environmental Response Team
ESAT	Environmental Services Assistance Team
FID	Flame ionization detector
GC	Gas chromatography
GC/ECD	Gas chromatography/electron capture detector
GC/MS	Gas chromatography/mass spectrometry
GPR	Ground-penetrating radar
GPS	Global positioning system
HASP	Health and safety plan
HAZWOPER	Hazardous Waste Operations and Emergency Response Standard
HPLC	High performance liquid chromatography
HRGC/HRMS	High resolution gas chromatography/high resolution mass spectrometry

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HRS	Hazard ranking system
ICP-AES	Inductively coupled plasma-atomic emission spectrometry
ICP-MS	Inductively coupled plasma-mass spectrometry
ICS	Incident command system
ICV	Initial calibration verification
ID	Identification
ISM	Inorganic Superfund Methods
LCS	Laboratory control sample
LIMS	Laboratory information management system
MCL	Maximum contaminant level
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
mL	Milliliter
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable or not available
NC	No criteria
NFG	National Functional Guidelines
ng/kg	Nanogram per kilogram
NiCd	Nickel-cadmium
OSC	On-scene coordinator
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzo-p-dioxin
PCDF	Polychlorinated dibenzofuran
PFK	Perfluorokerosene
pg/L	Picogram per liter
PPE	Personal protective equipment
ppm	Part per million
PQO	Project quality objective
PUF	Polyurethane foam
QA	Quality assurance
QAPP	Quality assurance project plan
QC	Quality control
QCC	Quality control coordinator
QL	Quantitation limit
RPD	Relative percent difference
RRF	Relative response factor
RSCC	Regional sample control coordinator
RSD	Relative standard deviation
RSL	Regional Screening Level

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SAP	Sampling and analysis plan
SEDD	Staged electronic data deliverable
SIM	Selected ion monitoring
S/N	Signal-to-noise
SOP	Standard operating procedure
START	Superfund Technical Assessment and Response Team
SVOC	Semivolatile organic compound
TBD	To be determined
TCLP	Toxicity characteristic leaching procedure
TDD	Technical direction document
TOC	Total organic carbon
UFP	Uniform Federal Policy for Implementing Environmental Quality Systems
VOC	Volatile organic compound
XRF	X-ray fluorescence

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INTRODUCTION

The ultimate success of an environmental data collection effort depends on the quality of the data collected and used to make decisions. The Quality Assurance Project Plan (QAPP) is a critical planning document for technical support that requires the collection and/or use of environmental data. Thus, the U.S. Environmental Protection Agency's (EPA) policy requires that all environmental data used in decision making be supported by an Agency-approved QAPP developed from a systematic planning process. The QAPP documents how environmental data collection operations are planned and implemented and how the results are assessed. In addition, the QAPP defines the specific quality assurance (QA) and quality control (QC) activities that will be applied to ensure that the environmental data collected are of the type and quality needed for a specific decision or use.

Tetra Tech, Inc. (Tetra Tech) has prepared this QAPP for EPA's Superfund Technical Assessment and Response Team (START) Contract for EPA Region 5. The QAPP is prepared in accordance with the Uniform Federal Policy for Implementing Quality Systems (UFP), and is also consistent with *EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5)* (EPA 2001 and 2005). Tetra Tech will review the QAPP annually during the START contract and will update the QAPP if necessary.

The intent of this QAPP is to provide a framework for all environmental data collection activities that might occur under the START contract. The QAPP emphasizes the use of proven, validated, and EPA-approved sampling methods and analytical methods such as those in the EPA Contract Laboratory Program (CLP) Statements of Work for organic and inorganic analyses (EPA 2015d and 2015e) and the Test Methods for Evaluating Solid Waste (SW-846) (EPA 2009b). These and other sampling and analytical methods are identified in appropriate sections of this QAPP and will be followed whenever they are sufficient to meet environmental data collection requirements and data quality objectives (DQO).

The purpose of the START contract is to provide assistance to EPA on-scene coordinators (OSC) and other federal officials implementing EPA's responsibilities under the National Response System. EPA is responsible for protecting human health and the environment, its role under the National Response System is to respond to emergencies related to the release or threat of release of oil, hazardous substances, pollutants, and contaminants as well as fire and explosion hazards. EPA is also responsible for coordinating all federal, state, local, and private efforts associated with responding to environmental emergencies. In addition, EPA is required to respond to nuclear, biological, chemical, and radiological events that may result from terrorism or weapons of mass destruction incidents. The START contract also supports other programs, such as hazardous waste site assessment, Brownfields investigations, and cleanups of hazardous waste sites.

The START contract statement of work identifies several activities that include environmental sampling, field and laboratory analysis, or other environmental data collection and are subject to the requirements of this QAPP. These activities include, but are not limited to, the following:

- Response activities. These include emergency response actions, fund-led removal actions conducted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and counter-terrorism, federal disaster, and oil spill response actions. Samples collected

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during response activities must often be analyzed on an emergency, quick turnaround basis. Results will be used to characterize materials released, evaluate hazards to surrounding populations and environments, recommend immediate actions, and evaluate disposal options. Data may also be used to verify that removal action objectives have been met.

- Assessment and inspection activities. These may include a variety of activities conducted under CERCLA such as pre-CERCLIS screening, removal assessments, preliminary assessments, site inspections, site reassessments, expanded site inspections, remedial investigations/feasibility studies, and integrated assessments. In addition, targeted Brownfields assessments may be conducted under this area of the statement of work. Sampling data collected will typically be used to document actual or potential releases of contaminants from a site via groundwater, surface water, soil exposure, or air pathways and to support decisions to conduct removal actions, assessments and evaluations of oil discharges, and preparation of Hazard Ranking System (HRS) packages for listing sites on the National Priorities List. Sampling may also be conducted to support remedial investigations, including preliminary risk assessments, for sites that are accelerated by EPA.

- Technical support activities. Several technical support activities in the START statement of work may require data collection and assessment and will be subject to this QAPP. These activities include multi-media surveys and inspections, treatability studies, engineering evaluations and cost analyses, regional response team support, and enforcement support.

Technical direction documents (TDD) issued under the START contract may require preparation of site-specific sampling and analysis plans (SAP) when environmental data is collected or used. Site-specific SAPs will be prepared in accordance with the requirements of the TDD, and will contain site-specific information that cannot be included in this QAPP. For most TDDs, Tetra Tech will prepare an abbreviated SAP, supplemented by tables and figures, to document site-specific data collection requirements. However, for more complex TDDs, Tetra Tech will prepare a full SAP to document sampling and analysis requirements. Many of the sampling and analytical standard operating procedures (SOP) described in this QAPP will be broadly applicable and can be referenced in site-specific SAPs. However, site-specific SAPs will describe any modifications to these sampling and analytical methods and any additional data collection procedures that are required to meet TDD objectives. This QAPP identifies areas where site-specific information will or might be required, but to the extent possible, common procedures (such as sample handling, chain of custody, data validation, and corrective action) will be included in the site-specific SAPs by reference only.

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QAPP WORKSHEET #1
TITLE AND APPROVAL PAGE

Quality Assurance Project Plan for Superfund Technical Assessment and Response Team (START IV), EPA Region 5, Contract No. EP-S5-13-01

Document Title

Tetra Tech, Inc.

Lead Organization

John Dirgo, Tetra Tech

Preparer's Name and Organizational Affiliation

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Preparer's Address, Telephone Number, and E-mail Address

April 21, 2014 (Revision 1 – July 9, 2015;
Revision 2 – January 6, 2016; Revision 3 – June 28, 2016)

Preparation Date (Day/Month/Year)

Kevin Scott

Kevin Scott

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DN: CN = Kevin Scott email = kevin.scott@tetratech.com C = US O = Tetra Tech OU = EMI
Date: 2016.06.30 09:35:00 -06'00'

Tetra Tech Program Manager — Signature/Date

John Dirgo

Digitally signed by: John Dirgo
DN: CN = John Dirgo C = US O = Tetra Tech, Inc. OU = EMI Division
Date: 2016.06.30 08:31:39 -06'00

Tetra Tech QA Officer — Signature/Date

EPA Approval Signatures:

Sam Chummar / Project Officer
Signature/Date

Ida Levin / QAPP Reviewer
Signature/Date

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QAPP WORKSHEET #2
QAPP IDENTIFYING INFORMATION

1. Identify guidance used to prepare QAPP:

Uniform Federal Policy for Implementing Environmental Quality Systems (UFP) (EPA 2005),
EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5) (EPA 2001)

2. Identify regulatory program: Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

3. Identify approval entity: EPA Region 5

4. Indicate whether the QAPP is a generic or project-specific QAPP: Generic

5. List dates of scoping sessions that were held: Not applicable (NA)

6. List dates and titles of QAPP documents written for previous work site, if applicable: NA

7. List organizational partners (stakeholders) and connection with lead organization: EPA Region 5, Tetra Tech

8. List data users: EPA Region 5, Tetra Tech

9. If any required QAPP elements and required information are not applicable to the project, then circle the omitted QAPP elements and required information on the attached table. Provide an explanation for their exclusion below: NA

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QAPP WORKSHEET #2 (CONTINUED)
QAPP IDENTIFYING INFORMATION

Required QAPP Element(s) and Corresponding QAPP Section(s)	Required Information	QAPP Worksheet #
Project Management and Objectives		
2.1 - Title and Approval Page	Title and Approval Page	1
2.2 - Document Format and Table of Contents	Table of Contents	
2.2.1 Document Control Format	QAPP Identifying Information	2
2.2.2 Document Control Numbering System		
2.2.3 Table of Contents		
2.2.4 QAPP Identifying Information		
2.3 - Distribution List and Project Personnel Sign-Off Sheet		
2.3.1 Distribution List	Distribution List	3
2.3.2 Project Personnel Sign-Off Sheet	Project Personnel Sign-Off Sheet	4
2.4 - Project Organization		
2.4.1 Project Organization Chart	Project Organization Chart	5
2.4.2 Communication Pathways	Communication Pathways	6
2.4.3 Personnel Responsibilities and Qualifications	Personnel Responsibilities and Qualifications	7
2.4.4 Special Training Requirements and Certification	Special Training Requirements and Certification	8
2.5 - Project Planning/Problem Definition		
2.5.1 Project Planning (Scoping)	Project Planning Session Documentation (including Data Needs tables)	9
	Project Scoping Session Participants Sheet	
2.5.2 Problem Definition, Site History, and Background	Problem Definition, Site History, and Background	10
	Site Maps (historical and present)	
2.6 - Project Quality Objectives (PQO) and Measurement Performance Criteria		
2.6.1 Development of PQOs Using the Systematic Planning Process	Site-Specific PQOs	11
2.6.2 Measurement Performance Criteria	Measurement Performance Criteria Table	12
2.7 - Secondary Data Evaluation	Sources of Secondary Data and Information	13
	Secondary Data Criteria and Limitations Table	
2.8 - Project Overview and Schedule		
2.8.1 Project Overview	Summary of Project Tasks	14
	Reference Limits and Evaluation Table	15
2.8.2 Project Schedule	Project Schedule/Timeline Table	16
Measurement/Data Acquisition		
3.1 - Sampling Tasks		
3.1.1 Sampling Process Design and Rationale	Sampling Design and Rationale	17
	Sampling Location Map	18
	Sampling Locations and Methods/Standard Operating Procedures (SOP) Requirements Table	
3.1.2 Sampling Procedures and Requirements		
3.1.2.1 Sampling Collection Procedures	Field Quality Control Sample Summary Table	20
	Sampling SOPs	21
	Project Sampling SOP References Table	21
3.1.2.2 Sample Containers, Volume, and Preservation	Analytical Methods/SOP Requirements Table	19, 23

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QAPP WORKSHEET #2 (CONTINUED)
QAPP IDENTIFYING INFORMATION

Required QAPP Element(s) and Corresponding QAPP Section(s)	Required Information	QAPP Worksheet #
3.1.2.3 Equipment/Sample Containers Cleaning and Decontamination Procedures	Analytical Methods, Containers, Preservatives, and Holding Times Table	19
3.1.2.4 Field Equipment Calibration, Maintenance, Testing, and Inspection Procedures	Field Equipment, Calibration, Maintenance, Testing, and Inspection Procedures Table	22
3.1.2.5 Supply Inspection and Acceptance Procedures		
3.1.2.6 Field Documentation Procedures		
3.2 - Analytical Tasks		
3.2.1 Analytical SOPs	Analytical SOPs	23
	Analytical SOP References Table	
3.2.2 Analytical Instrument Calibration Procedures	Analytical Instrument Calibration Table	24
3.2.3 Analytical Instrument and Equipment Maintenance, Testing, and Inspection Procedures	Analytical Instrument and Equipment Maintenance, Testing, and Inspection Table	25
3.2.4 Analytical Supply Inspection and Acceptance Procedures		
3.3 - Sample Collection Documentation, Handling, Tracking, and Custody Procedures	Sample Collection Documentation Handling, Tracking, and Custody SOPs	26
3.3.1 Sample Collection Documentation	Sample Container Identification	27
3.3.2 Sample Handling and Tracking System	Sample Handling Flow Diagram	
3.3.3 Sample Custody	Example Chain-of-Custody Form and Seal	
3.4 - Quality Control (QC) Samples		
3.4.1 Sampling QC Samples	QC Samples Table	28
3.4.2 Analytical QC Samples		
3.5 - Data Management Tasks		
3.5.1 Project Documentation and Records	Project Documents and Records Table	29
3.5.2 Data Package Deliverables	Analytical Services Table	30
3.5.3 Data Reporting Formats		23, 30 (specified by analytical method)
3.5.4 Data Handling and Management	Data Management SOPs	
3.5.5 Data Tracking and Control		
Assessment/Oversight		
4.1 - Assessments and Response Actions	Assessments and Response Actions	
4.1.1 Planned Assessments	Planned Project Assessments Table	31
	Audit Checklists	
4.1.2 Assessment Findings and Corrective Action (CA) Responses	Assessment Findings and CA Responses Table	32
4.2 - QA Management Reports	QA Management Reports Table	33
4.3 - Final Project Report	QA Management Reports Table	33
Data Review		
5.1 – Overview	Not applicable (NA)	NA
5.2 - Data Review Steps		

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QAPP WORKSHEET #2 (CONTINUED)
QAPP IDENTIFYING INFORMATION

Required QAPP Element(s) and Corresponding QAPP Section(s)	Required Information	QAPP Worksheet #
5.2.1 Step I: Verification	Verification (Step I) Process Table	34
5.2.2 Step II: Validation		
5.2.2.1 Step IIa Validation Activities	Validation (Steps IIa and IIb) Process Table	35
5.2.2.2 Step IIb Validation Activities	Validation (Steps IIa and IIb) Summary Table	36
5.2.3 Step III: Usability Assessment		
5.2.3.1 Data Limitations and Actions from Usability Assessment	Usability Assessment	37
5.2.3.2 Activities		
5.3 - Streamlining Data Review	NA	NA
5.3.1 Data Review Steps to be Streamlined		
5.3.2 Criteria for Streamlining Data Review		
5.3.3 Amounts and Types of Data Appropriate for Streamlining		

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QAPP WORKSHEET #3
DISTRIBUTION LIST

QAPP Recipient	Title	Organization	Telephone Number	E-mail Address
Sam Chummar	Project Officer	EPA Region 5	(312) 886-1434	chummar.sam@epa.gov
Ida Levin	QAPP Reviewer	EPA Region 5	(312) 886-6254	levin.ida@epa.gov
Kevin Scott	Program Manager	Tetra Tech	(312) 201-7739	kevin.scott@tetratech.com
Chris Burns	Deputy Program Manager	Tetra Tech	(321) 201-7719	chris.burns@tetratech.com
John Dirgo	QA Officer	Tetra Tech	(312) 201-7765	john.dirgo@tetratech.com
Carla Buriks	Corporate QA Manager	Tetra Tech	(303) 312-8855	carla.buriks@tetratech.com
Various	Project Managers	Tetra Tech	Various	Various
Tina Reese	QA Manager	Avantti Environmental Group, LLC	(414) 719-1477	treese@avantti-group.com
Patrick Letterer	Project Manager	CT Laboratories, LLC	(608) 356-2760	pletterer@ctlaboratories.com
Mel Turner	Equipment Manager	Field Environmental Instruments, Inc.	(412) 436-2600	MTurner@fieldenvironmental.com
Nancy Posavatz	Project Manager	The Mannik & Smith Group, Inc.	(231) 929-7330	NPosavatz@manniksmithgroup.com
Josh Randall	Project Manager	Quality Environmental Professionals, Inc.	(317) 351-4255	jrandall@qepi.com
Mike Browning	Project Manager	Seagull Environmental Technologies, Inc.	(248) 259-4761	mbrowning@seagullenvirotech.com

Notes:

QA Quality assurance
QAPP Quality assurance project plan
TBD To be determined

Requirements:

This contract-level QAPP will be distributed to the individuals listed in Worksheet #3. A current version of the contract-level QAPP will also be maintained on a shared network drive in Tetra Tech's Chicago office. The QAPP will be available for review by all Tetra Tech team personnel working on the START contract.

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QAPP WORKSHEET #4
PROJECT PERSONNEL SIGN-OFF SHEET

Project Personnel	Organization	Title	Telephone No.	Signature	Date Reviewed
John Dirgo	Tetra Tech	QA Officer	(312) 201-7765		
TBD	Tetra Tech	Project Manager			
TBD	Tetra Tech	Field Team Leader			
TBD	Tetra Tech	Analytical Coordinator			
TBD	Tetra Tech	Quality Control Coordinator			
TBD	Tetra Tech	Sample Custodian			
TBD	Tetra Tech	Chemist			
TBD	Tetra Tech	Technical Staff			
Drilling Subcontractor	TBD	Project Manager			
Surveying Subcontractor	TBD	Project Manager			
Subcontracted Laboratory	TBD	Project Manager			

Notes:

QA Quality assurance
TBD To be determined

Requirements:

Worksheet #4 illustrates the typical distribution list for a site-specific sampling and analysis plan (SAP) or site-specific quality assurance project plan (QAPP). Personnel working on START projects are required to review site-specific SAPs and QAPPs and to sign Worksheet #4 after they have finished their reviews.

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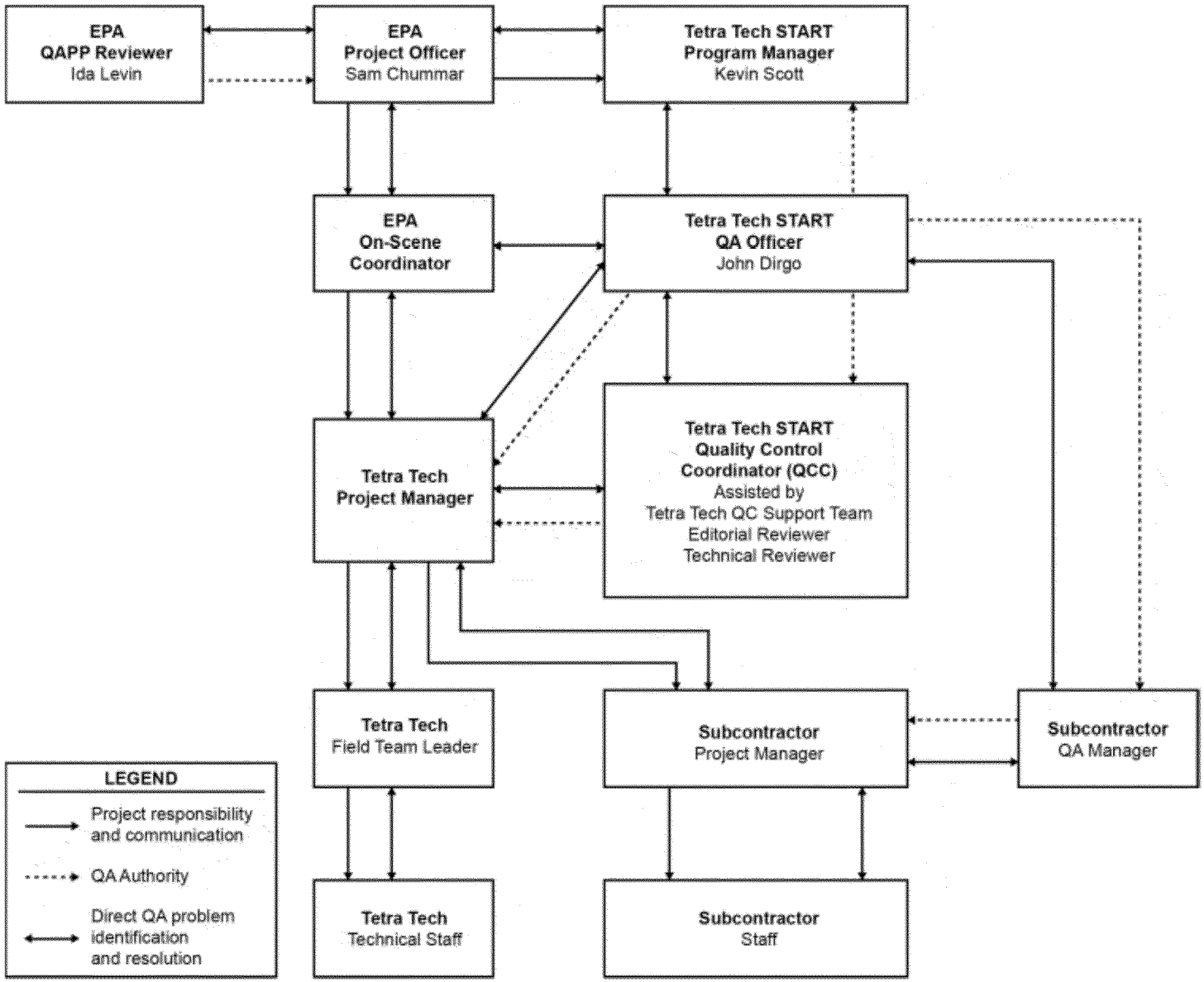
QAPP WORKSHEET #5
PROJECT ORGANIZATION CHART



QAPP WORKSHEET #6
COMMUNICATION PATHWAYS

Communication Drivers	Responsible Entity	Name	Telephone No.	Procedure (Timing, Pathways, etc.)
Point of contact with EPA OSC	Project Manager	TBD		Forward all materials and information about the project to the EPA OSC.
Manage all project phases	Project Manager	TBD		Communicate information to project team (including subcontractors) on a timely basis. Notify EPA OSC by telephone or e-mail of any significant issues. Direct field team and facilitate communication with analytical coordinator. Deliver all laboratory data packages to chemist for final review and/or validation.
Daily field progress report	Field Team Leader	TBD		Conduct specific field investigation tasks, direct field activities of subcontractors, and provide daily communication with project manager and sample custodian.
Manage field sample organization and delivery to laboratories	Sample Custodian	TBD		Ensure field staff is collecting samples in proper containers, observing holding times, and properly packaging and preparing samples for shipment. Coordinate daily with analytical coordinator concerning sample quantities and delivery locations and dates. Communicate daily with field staff and project manager regarding any laboratory issues.
Point of contact with EPA Region 5 Regional Sample Control Coordinator (RSCC) and subcontracted laboratories	Analytical Coordinator	TBD		Contact the RSCC or subcontracted laboratory before each sampling event to schedule laboratory services. Notify sample custodian and project manager of any laboratory issues. Track all laboratory data deliveries. Notify and forward data to project manager.
Release of analytical data	Chemist	TBD		No analytical data can be released until chemist has completed validation and approved data for release.
Report of laboratory data quality issues	Laboratory QA Officer	TBD		QA/QC issues with project field samples will be reported by the laboratory QA officer to the RSCC (for CLP or CRL) or to the Tetra Tech analytical coordinator (for subcontracted laboratories).

Notes:

CLP Contract Laboratory Program
CRL Central Regional laboratory
EPA U.S. Environmental Protection Agency
OSC On-scene coordinator
QA Quality assurance
QC Quality control
RSCC Regional Sample Control Coordinator
TBD To be determined

QAPP WORKSHEET #7
PERSONNEL RESPONSIBILITIES AND QUALIFICATIONS

Name	Title	Organization/ Affiliation	Responsibilities	Education and Experience Qualifications
John Dirgo	QA Officer	Tetra Tech	Provides QA/QC oversight	Sc.D. in Environmental Health Sciences 35 years of experience
TBD	Project Manager	Tetra Tech	Manages project; coordinates between lead agency and subcontractors; coordinates laboratory data deliverables from analytical coordinator to project chemist; manages field staff	
TBD	Field Team Leader	Tetra Tech	Supervises field sampling and coordinates field activities; reports daily to project manager while conducting field activities	
TBD	Technical Staff	Tetra Tech	Prepares QAPP; implements field plan; verifies sample processing, packaging, and shipping	
TBD	Quality Control Coordinator	Tetra Tech	Reviews project deliverables; provides QA/QC support to project manager	
TBD	Analytical Coordinator	Tetra Tech	Coordinates sample scheduling; verifies sample chain of custody; reviews laboratory results; notifies sample custodian and project manager of any issues	
TBD	Chemist	Tetra Tech	Validates analytical data produced by laboratories	
TBD	Analytical laboratory	CLP, CRL, or Subcontractor	Analyzes samples collected by field team	
TBD	Drillers	Subcontractor	Provides subsurface drilling	
TBD	Surveyors	Subcontractor	Provides survey of monitoring wells locations at the site	

Notes:

CLP Contract Laboratory Program
CRL Central Regional Laboratory
QA Quality assurance
QC Quality control
QAPP Quality assurance project plan
TBD To be determined

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QAPP WORKSHEET #8
SPECIAL PERSONNEL TRAINING REQUIREMENTS

Project Function	Specialized Training – Title or Description of Course	Training Provider	Training Date	Personnel/Groups Receiving Training	Personnel Titles/ Organizational Affiliation	Location of Training Records/Certificates
Field Staff	40-hour and 8-hour refresher –OSHA HAZWOPER training	Various	Various	Tetra Tech	Tetra Tech	Corporate human resources office
Subcontractors	40-hour OSHA HAZWOPER training	TBD	TBD	Drillers, surveyors, and other on-site subcontractors	TBD	As specified in subcontract agreements

Notes:

HAZWOPER Hazardous Waste Operations and Emergency Response Standard
OSHA Occupational Safety and Health Administration
TBD To be determined

Requirements:

The primary training requirements for Tetra Tech personnel engaged in field activities are the emergency response and hazardous waste operations training requirements defined in 29 CFR 1910.120. In addition, Tetra Tech personnel are trained on the Incident Command System (ICS) and on the operation and use of monitoring equipment. Additional specialized training or certification related to environmental data collection might be required if (1) specifically called for in a technical direction document (TDD) or (2) identified as necessary by Tetra Tech in responding to a TDD. In these situations, Tetra Tech will address training and certification needs in the site-specific sampling and analysis plan (SAP). The SAP will identify Tetra Tech personnel that meet the special training or certification requirements; provide documentation of the training or certification; and describe how these personnel will be assigned to the project. If Tetra Tech personnel do not meet special training or certification requirements, the SAP will briefly describe how the necessary skills will be acquired and applied to the project.

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QAPP WORKSHEET #9
PROJECT SCOPING SESSION PARTICIPANTS SHEET

Project Name			Site Name		
Projected Date(s) of Sampling			Site Location		
Project Manager					
Date of Session					
Scoping Session Purpose:	Kick-off meeting discuss site work.				
Name	**Title**	**Affiliation**	**Phone #**	**E-Mail Address**	**Project Role**
TBD	OSC	EPA Region 5			OSC
TBD	Project Manager	Tetra Tech			Project Manager
Kevin Scott	Program Manager	Tetra Tech	(312) 201-7739	kevin.scott@tetratech.com	Program Manager
Comments/Decisions: *Insert a description of the scoping session and associated decisions*					

Notes:

EPA U.S. Environmental Protection Agency
OSC On-scene coordinator
TBD To be determined

QAPP WORKSHEET #10
PROBLEM DEFINITION

The problem to be addressed by the project:

For site-specific sampling and analysis plans (SAP) prepared for the START contract, Tetra Tech will use the data quality objectives (DQO) process to (1) clarify study objectives and decisions to be made based on the data collected; (2) define the most appropriate types of data to collect; (3) determine the most appropriate conditions for collecting the data; and (4) specify performance or acceptance criteria that will be used as the basis for establishing the quantity and quality of data needed to support the decision. The DQO process consists of the following seven steps:

- Step 1—State the Problem. The purposes of step 1 are to summarize the problem that will require environmental data collection and to identify resources available to resolve the problem. The description of the problem should include the regulatory and programmatic context of the problem as well as appropriate action levels for evaluating and responding to the problem. The primary output of step 1 is a complete description of the problem. Information developed during step 1 (such as site background information and previous sampling results) can be used to complete the site-specific SAP.
- Step 2—Identify the Goals of the Study. The purpose of step 2 is to identify the key questions the study will address and decisions that will be made based on the environmental data collected. Examples of decisions to be made include whether a release poses a threat to human health and the environment, whether contaminant concentrations at a site exceed preliminary remediation goals, or whether cleanup levels have been achieved. Step 2 also identifies the actions that might be taken as a result of the decisions.
- Step 3—Identify Information. During step 3, the information needed to make decisions and resolve key study questions is identified. This information can include previously collected data and new environmental measurements. This step will determine whether decisions can be made based on monitoring, modeling, or a combination of both approaches. Step 3 will also identify the types of samples to be collected, specific contaminants to be measured, and potential sampling and analysis methods. Information developed in step 3 can be used as input for the site-specific SAP.
- Step 4—Define the Boundaries of the Study. This step defines the spatial and temporal boundaries of the study, considering such factors as site-specific contaminants, potential migration pathways for contamination, physical characteristics of the site, and future site use. Spatial boundaries can include property boundaries, solid waste management units, or exposure areas. Temporal boundaries can include the time frame over which the study data must apply as well as the most appropriate times for sample collection. For example, if a decision to be made is related to air concentrations of volatile organic compounds (VOC), it would be more appropriate to collect data during warmer weather when VOCs are more likely to be released.
- Step 5—Develop the Analytic Approach. The purpose of this step is to define specific parameters of interest, specify action levels for these parameters, integrate this information with outputs from previous DQO steps, and describe a logical basis for choosing appropriate actions based on study results. An example of a decision that might be made based on study results is "If the average vinyl chloride concentration in downgradient wells exceeds the maximum contaminant level (MCL), corrective action for groundwater will be required."
- Step 6—Specify Performance or Acceptance Criteria. Step 6 evaluates the consequences of making incorrect decisions based on the data collected. For example, at a site with a large number of nearby receptors, EPA may determine that the threat of health effects is a more serious consequence than spending extra resources for remedial action. In this case, the consequences of incorrectly concluding that contaminant concentrations do not exceed action levels are more serious than the consequences of incorrectly concluding that action levels are exceeded. By taking this information into account, a sampling plan can be developed that provides an acceptable level of uncertainty.

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• Step 7—Develop the Plan for Obtaining Data. The purpose of step 7 is to develop the most resource-effective sampling and analysis approach to generate data that will satisfy the DQOs specified in the previous steps. These design elements are documented in the site-specific SAP and include sample types, sample collection methods, sampling locations, analytical methods, and quality assurance and quality control requirements. All seven steps of the DQO process may not be applicable to all environmental data collection activities. Examples include activities where specific decisions cannot be identified or studies that are exploratory in nature. In these situations, Tetra Tech will use the steps of the DQO process that are applicable to help plan the data collection effort.
The environmental questions being asked: See DQO Steps 2 and 5 above.
Observations from any site reconnaissance reports: Site-specific SAPs will summarize any important observations from site reconnaissance reports that have been used to develop the sampling and analysis approach.
A synopsis of secondary data or information from site reports: See Worksheet #13 for a discussion of secondary data.
The possible classes of contaminants and the affected matrices: See DQO Steps 3 and 4 above.
Project decision conditions ("If…, then…" statements): See DQO Step 5 above.

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QAPP WORKSHEET #11
PROJECT QUALITY OBJECTIVES/SYSTEMATIC PLANNING PROCESS STATEMENTS

Who will use the data: EPA Region 5 and Tetra Tech will use the data.
What will the data be used for? Data use will depend on the specific requirements of each technical direction document (TDD) and should be explained in the site-specific sampling and analysis plan (SAP).
What types of data are needed (target analytes, analytical groups, field screening, on-site analytical or off-site laboratory techniques, sampling techniques)? Site-specific SAPs should include a table listing the sample types and matrices, sampling locations, field screening parameters, and other pertinent information. See DQO Step 3 in Worksheet #10 and Worksheets #18 and 20 for the type of information that will be included.
How "good" do the data need to be in order to support the environmental decision? Data quality depends on the intended use of the data and the decisions to be made based on the data. For projects that require data collection, Tetra Tech will follow EPA's data quality objectives (DQO) process as described in *Guidance on Systematic Planning Using the Data Quality Objectives Process* (EPA QA/G-4) (EPA 2006a). The DQO process provides a systematic procedure for defining the criteria that a data collection design should satisfy and is a preliminary step for developing site-specific SAPs. See DQO Step 6 in Worksheet #10. The quality of the data is determined by establishing criteria for performance measures listed in Worksheet #12. Also, contaminant-specific action limits and reporting limits the environmental media likely to be sampled and the analytical methods likely to be used under the START contract are specified in Worksheet #15.
How much data are needed (number of samples for each analytical group, matrix, and concentration)? Site-specific SAPs should include a table listing the sample types and matrices, sampling locations, field screening parameters, and other pertinent information. See DQO Step 7 in Worksheet #10. See Worksheets #18 and 20 for the type of information that will be included.
Where, when, and how should the data be collected/generated? For site-specific SAPs prepared for the START contract, Tetra Tech will use the DQO process to (1) clarify study objectives and decisions to be made based on the data collected; (2) define the most appropriate types of data to collect; (3) determine the most appropriate conditions for collecting the data; and (4) specify performance or acceptance criteria that will be used as the basis for establishing the quantity and quality of data needed to support the decision. See DQO Step 3, 4, and 7 in Worksheet #10.
Who will collect and generate the data? Tetra Tech and its team subcontractors will collect all samples required under the START contract. Samples will be analyzed by EPA Contract Laboratory Program (CLP) laboratories, the EPA Region 5 Central Regional Laboratory (CRL), or subcontracted laboratories. See Worksheet #30 for additional information about analytical services.
How will the data be reported? Worksheet #27 has additional information about reporting of field data. Laboratory data will be reported by analytical laboratories using standard data reporting techniques. Data will be reported in electronic and hard-copy formats. Worksheets #29 and 30 provide additional information about reporting requirements for laboratory data.

How will the data be archived? Electronic and hard copies of CLP and CRL analytical data will be archived by the individual laboratories. Electronic and hard copies of subcontracted laboratory data will be archived by the Tetra Tech project manager. Field data (electronic data, logbooks, and field data sheets) will be maintained at Tetra Tech's Chicago office. Tetra Tech will also provide 10-year data storage. Worksheet #29 provides further information about document and records management under the START contract.

QAPP WORKSHEET #12
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	VOCs, TCLP VOCs
Concentration Level[a]	Trace, Low

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A2	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A1, A2	Accuracy/ Bias-Contamination	VOCs < QL	Trip blank	S & A
Various	A1, A2	Accuracy/ Bias-Contamination	VOCs < QL	Rinsate blank	S & A
Various	A1, A2	Accuracy/Bias	1,1-Dichloroethene: 61-145 %R TCE: 71-120 %R Benzene: 76-127 %R Toluene: 76-125 %R Chlorobenzene: 75-130 %R	MS/MSD	S & A
Various	A1, A2	Precision	1,1-Dichloroethene: 14% RPD TCE: 14% RPD Benzene: 11% RPD Toluene: 13% RPD Chlorobenzene: 13% RPD	MS/MSD	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	VOCs, TCLP VOCs
Concentration Level[a]	Trace, Low

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A2	Accuracy	Vinyl chloride-d_3: 60-135 %R Chloroethane-d_5: 70-130 %R 1,1-Dichloroethene-d_2: 60-125 %R 2-Butanone-d_5: 40-130 %R Chloroform-d: 70-125 %R 1,2-Dichloroethane-d_4: 70-125 %R Benzene-d_6: 70-125 %R 1,2-Dichloropropane-d_6: 70-120 %R Toluene-d_8 : 80-120 %R Trans-1,3-Dichloropropene-d_4 : 60-125 %R 2-Hexanone-d_5 : 45-130 %R 1,1,2,2-Tetrachloroethane-d_2: 65-120 %R 1,2-Dichlorobenzene-d_4: 80-120 %R	Deuterated monitoring compounds (surrogates)	A
Various	A1, A2	Accuracy/ Bias-Contamination	VOCs < QL	Method blank	A
Various	A1, A2	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	SVOCs, TCLP SVOCs
Concentration Level[a]	SIM, Low

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A5	Precision	RPD ≤ 50%	Field Duplicate	S & A
Various	A1, A5	Accuracy/Bias	Phenol: 12-110 %R 2-Chlorophenol: 27-123 %R N-Nitrosodi-n-propylamine: 41-116 %R 4-Chloro-3-methylphenol: 23-97 %R Acenaphthene: 46-118 %R 4-Nitrophenol: 10-80 %R 2,4-Dinitrotoluene: 24-96 %R Pentachlorophenol: 9-103 %R Pyrene: 26-127 %R	MS/MSD	S & A
Various	A1, A5	Precision	Phenol: 42% RPD 2-Chlorophenol: 40% RPD N-Nitrosodi-n-propylamine: 38% RPD 4-Chloro-3-methylphenol: 42% RPD Acenaphthene: 31% RPD 4-Nitrophenol: 50% RPD 2,4-Dinitrotoluene: 38% RPD Pentachlorophenol: 50% RPD Pyrene: 31% RPD	MS/MSD	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	SVOCs, TCLP SVOCs
Concentration Level[a]	SIM, Low

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A5	Accuracy	1,4-Dioxane-d_8: 40-110 %R Phenol-d_5: 10-130 %R Bis(2-chloroethyl)ether-d_8: 25-120 %R 2-Chlorophenol-d_4: 20-130 %R 4-Methylphenol-d_8: 25-125 %R Nitrobenzene-d_5: 20-125 %R 2-Nitrophenol-d_4: 20-130 %R 2,4-Dichlorophenol-d_3: 20-120 %R 4-Chloroaniline-d_4: 1-146 %R Dimethylphthalate-d_6: 25-130 %R Acenaphthylene-d_8: 10-130 %R 4-Nitrophenol-d_4: 10-150 %R Fluorene-d_{10}: 25-125 %R 4,6-Dinitro-2-methylphenol-d_2: 10-130 %R Anthracene-d_{10}: 25-130 %R Pyrene-d_{10}: 15-130 %R Benzo(a)pyrene-d_{12}: 20-130 %R Fluoranthene-d_{10}: 30-130 %R 2-Methylnaphthalene-d_{10}: 30-130 %R	Deuterated monitoring compounds (surrogates)	A
Various	A1, A5	Accuracy/ Bias-Contamination	SVOCs < QL	Method blank	A
Various	A1, A5	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	Herbicides
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A8	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A8	Accuracy/ Bias-Contamination	Herbicides < QL	Rinsate blank	S & A
Various	A8	Accuracy/Bias	All herbicides: 70-130 %R	MS	S & A
Various	A8	Precision	All herbicides: < 35% RPD	Laboratory duplicate	A
Various	A8	Accuracy	2,4-Dichlorophenylacetic acid: 70-130 %R	Surrogate spike	A
Various	A8	Accuracy/ Bias-Contamination	Herbicides < QL	Method blank	A
Various	A8	Accuracy/Bias	All herbicides: 70-130 %R	LCS	A
Various	A8	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	Pesticides
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A7	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A1, A7	Accuracy/ Bias-Contamination	Pesticides < QL	Rinsate blank	S & A
Various	A1, A7	Accuracy/Bias	gamma-BHC (Lindane): 56-123 %R Heptachlor: 40-131 %R Aldrin: 40-120 %R Dieldrin: 52-126 %R Endrin: 56-121 %R 4,4'-DDT: 38-127 %R	MS/MSD	S & A
Various	A1, A7	Precision	gamma-BHC (Lindane): 15 %RPD Heptachlor: 20 %RPD Aldrin: 22 %RPD Dieldrin: 18 %RPD Endrin: 21 %RPD 4,4'-DDT: 27 %RPD	MS/MSD	S & A
Various	A1, A7	Accuracy	Tetrachloro-m-xylene: 30-150 %R Decachlorobiphenyl: 30-150 %R	Surrogate spike	A
Various	A1, A7	Accuracy/ Bias-Contamination	Pesticides < QL	Method blank	A
Various	A1, A7	Accuracy/Bias	gamma-BHC (Lindane): 50-120 %R Heptachlor epoxide: 50-150 %R Dieldrin: 30-130 %R 4,4'-DDE: 50-150 %R Endrin: 50-120 %R Endosulfan sulfate: 50-120 %R gamma-Chlordane: 30-130%R	LCS	A
Various	A1, A7	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	PCBs
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A6	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A1, A6	Accuracy/ Bias-Contamination	PCBs < QL	Rinsate blank	S & A
Various	A1, A6	Accuracy/Bias	Aroclor-1016: 29-135 %R Aroclor-1260: 29-135 %R	MS/MSD	S & A
Various	A1, A6	Precision	Aroclor-1016: 15% RPD Aroclor-1260: 20% RPD	MS/MSD	S & A
Various	A1, A6	Accuracy	Tetrachloro-m-xylene: 30-150 %R Decachlorobiphenyl: 30-150 %R	Surrogate spike	A
Various	A1, A6	Accuracy/ Bias-Contamination	PCBs < QL	Method blank	A
Various	A1, A6	Accuracy/Bias	Aroclor-1016: 50-150 %R Aroclor-1260: 50-150 %R	LCS	A
Various	A1, A6	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	Dioxins/Furans
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A9, A10	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A9, A10	Accuracy/ Bias-Contamination	Dioxins/furans < QL	Rinsate blank	S & A
Various	A9, A10	Accuracy/Bias	2378-TCDD: 67-158 %R 2378-TCDF: 75-158 %R 12378-PeCDF: 80-134 %R 12378-PeCDD: 70-142 %R 23478-PeCDF: 68-160 %R 123478-HxCDF: 72-134 %R 123678-HxCDF: 84-130 %R 123478-HxCDD: 70-164 %R 123678-HxCDD: 76-134 %R 234678-HxCDF: 70-156 %R 123789-HxCDF: 78-130 %R 1234678-HpCDF: 82-132 %R 1234678-HpCDD: 70-140 %R 1234789-HpCDF: 78-138 %R OCDD: 78-144 %R OCDF: 63-170 %R	LCS	A
Various	A9, A10	Accuracy/ Bias-Contamination	Dioxins/furans < QL	Method blank	A
Various	A9, A10	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Water
Analytical Group	Metals, Mercury, Cyanide, TCLP Metals/CLP
Concentration Level[a]	ICP-AES or ICP-MS for Metals, NA for Mercury and Cyanide

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A11, A12, A13, A14, A16	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A11, A12, A13, A14, A16	Accuracy/Bias-contamination	Metals, cyanide < QL	Rinsate blank	S & A
Various	A11, A12, A13, A14, A16	Accuracy	All metals, cyanide: 75-125 %R	MS	A
Various	A11, A12, A13, A14, A16	Precision	All metals, cyanide: < 20% RPD	Laboratory duplicate	A
Various	A11, A12, A13, A14, A16	Sensitivity/ Contamination	Metals, cyanide < QL	Method blank	A
Various	A11, A12, A13, A14, A16	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	VOCs, TCLP VOCs
Concentration Level[a]	Low, Medium

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A2	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A1, A2	Accuracy/ Bias-Contamination	VOCs < QL	Rinsate blank	S & A
Various	A1, A2	Accuracy/Bias	1,1-Dichloroethene: 59-172 %R TCE: 62-137 %R Benzene: 66-142 %R Toluene: 59-139 %R Chlorobenzene: 60-133 %R	MS/MSD	S & A
Various	A1, A2	Precision	1,1-Dichloroethene: 22% RPD TCE: 24% RPD Benzene: 21% RPD Toluene: 21% RPD Chlorobenzene: 21% RPD	MS/MSD	S & A
Various	A1, A2	Accuracy	Vinyl chloride-d_3: 30-150 %R Chloroethane-d_5: 30-150 %R 1,1-Dichloroethene-d_2: 45-110 %R 2-Butanone-d_5: 20-135 %R Chloroform-d: 40-150 %R 1,2-Dichloroethane-d_4: 70-130 %R Benzene-d_6: 20-135 %R 1,2-Dichloropropane-d_6: 70-120 %R Toluene-d_8: 30-130 %R 1,1,2,2-Tetrachloroethane-d_2: 45-120 %R Trans-1,3-Dichloropropene-d_4: 35-135 %R 2-Hexanone-d_5: 20-135 %R 1,2-Dichlorobenzene-d_4: 75-120 %R	Deuterated monitoring compounds (surrogates)	A
Various	A1, A2	Accuracy/ Bias-Contamination	VOCs < QL	Method blank	A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	VOCs, TCLP VOCs
Concentration Level[a]	Low, Medium

Sampling Procedure[b]	**Analytical Method SOP[c]**	**DQIs**	**Measurement Performance Criteria[d]**	**QC Sample and/or Activity Used to Assess Measurement Performance**	**QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)**
Various	A1, A2	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	SVOCs, TCLP SVOCs
Concentration Level[a]	SIM, Low, Medium

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A5	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A1, A5	Accuracy/ Bias-Contamination	SVOCs < QL	Rinsate blank	S & A
Various	A1, A5	Accuracy/Bias	Phenol: 26-90 %R 2-Chlorophenol: 25-102 %R N-Nitroso-di-n-propylamine: 41-126 %R 4-Chloro-3-methylphenol: 26-103 %R Acenaphthene: 31-137 %R 4-Nitrophenol: 11-114 %R 2,4-Dinitrotoluene: 28-89 %R Pentachlorophenol: 17-109 %R Pyrene: 35-142 %R	MS/MSD	S & A
Various	A1, A5	Precision	Phenol: 35% RPD 2-Chlorophenol: 50% RPD N-Nitroso-di-n-propylamine: 38% RPD 4-Chloro-3-methylphenol: 33% RPD Acenaphthene: 19% RPD 4-Nitrophenol: 50% RPD 2,4-Dinitrotoluene: 47% RPD Pentachlorophenol: 47% RPD Pyrene: 36% RPD	MS/MSD	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	SVOCs, TCLP SVOCs
Concentration Level[a]	SIM, Low, Medium

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A5	Accuracy	1,4-Dioxane-d8: 40-110 %R Phenol-d5: 10-130 %R Bis(2-Chloroethyl)ether-d8: 10-150 %R 2-Chlorophenol-d4: 15-120 %R 4-Methylphenol-d8: 10-140 %R Nitrobenzene-d5: 10-135 %R 2-Nitrophenol-d4: 10-120 %R 2,4-Dichlorophenol-d3: 10-140 %R 4-Chloroaniline-d4: 1-145 %R Dimethylphthalate-d6: 10-145 %R Acenaphthylene-d8: 15-120 %R 4-Nitrophenol-d4: 10-150 %R Fluorene-d10: 20-140 %R 4,6-Dinitro-2-methylphenol-d2: 10-130 %R Anthracene-d10: 10-150 %R Pyrene-d10: 10-130 %R Benzo(a)pyrene-d12: 10-140 %R Fluoranthene-d10: 30-130 %R 2-Methylnaphthalene-d10: 20-140 %R	Deuterated monitoring compounds (surrogates)	A
Various	A1, A5	Accuracy/Bias-Contamination	SVOCs < QL	Method blank	A
Various	A1, A5	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S&A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	Pesticides
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A7	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A1, A7	Accuracy/ Bias-Contamination	Pesticides < QL	Rinsate blank	S & A
Various	A1, A7	Accuracy/Bias	gamma-BHC (Lindane): 46-127 %R Heptachlor: 35-130 %R Aldrin: 34-132 %R Dieldrin: 31-134 %R Endrin: 42-139 %R 4,4'-DDT: 23-134 %R	MS/MSD	S & A
Various	A1, A7	Precision	gamma-BHC (Lindane): 50 %RPD Heptachlor: 31 %RPD Aldrin: 43 %RPD Dieldrin: 38 %RPD Endrin: 45 %RPD 4,4'-DDT: 50 %RPD	MS/MSD	S & A
Various	A1, A7	Accuracy	Tetrachloro-m-xylene: 30-150 %R Decachlorobiphenyl: 30-150 %R	Surrogate spike	A
Various	A1, A7	Accuracy/ Bias-Contamination	Pesticides < QL	Method blank	A
Various	A1, A7	Accuracy/Bias	gamma-BHC (Lindane): 50-120 %R Heptachlor epoxide: 50-150 %R Dieldrin: 30-130 %R 4,4'-DDE: 50-150 %R Endrin: 50-120 %R Endosulfan sulfate: 50-120 %R gamma-Chlordane: 30-130 %R	LCS	A
Various	A1, A7	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

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QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	Herbicides
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A8	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A8	Accuracy/ Bias-Contamination	Herbicides < QL	Rinsate blank	S & A
Various	A8	Accuracy/Bias	All herbicides: 70-130 %R	MS	S & A
Various	A8	Accuracy	2,4-Dichlorophenylacetic acid: 70-130 %R	Surrogate spike	A
Various	A8	Precision	All herbicides: < 50% RPD	Laboratory duplicate	A
Various	A8	Accuracy/ Bias-Contamination	Herbicides < QL	Method blank	A
Various	A8	Accuracy/Bias	All herbicides: 70-130 %R	LCS	A
Various	A8	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	PCBs
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A1, A6	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A1, A6	Accuracy/ Bias-Contamination	PCBs < QL	Rinsate blank	S & A
Various	A1, A6	Accuracy/Bias	Aroclor-1016: 29-135 %R Aroclor-1260: 29-135 %R	MS/MSD	S & A
Various	A1, A6	Precision	Aroclor-1016: 15% RPD Aroclor-1260: 20% RPD	MS/MSD	S & A
Various	A1, A6	Accuracy	Tetrachloro-m-xylene: 30-150 %R Decachlorobiphenyl: 30-150 %R	Surrogate spike	A
Various	A1, A6	Accuracy/ Bias-Contamination	PCBs < QL	Method blank	A
Various	A1, A6	Accuracy/Bias	Aroclor-1016: 50-150 %R Aroclor-1260: 50-150 %R	LCS	A
Various	A1, A6	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	Dioxins/Furans
Concentration Level[a]	NA

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A9, A10	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A9, A10	Accuracy/ Bias-Contamination	Dioxins/furans < QL	Rinsate blank	S & A
Various	A9, A10	Accuracy/Bias	2378-TCDD: 67-158 %R 2378-TCDF: 75-158 %R 12378-PeCDF: 80-134 %R 12378-PeCDD: 70-142 %R 23478-PeCDF: 68-160 %R 123478-HxCDF: 72-134 %R 123678-HxCDF: 84-130 %R 123478-HxCDD: 70-164 %R 123678-HxCDD: 76-134 %R 234678-HxCDF: 70-156 %R 123789-HxCDF: 78-130 %R 1234678-HpCDF: 82-132 %R 1234678-HpCDD: 70-140 %R 1234789-HpCDF: 78-138 %R OCDD: 78-144 %R OCDF: 63-170 %R	LCS	A
Various	A9, A10	Accuracy/ Bias-Contamination	Dioxins/furans < QL	Method blank	A
Various	A9, A10	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Soil/Sediment/Waste
Analytical Group	TAL Metals, Mercury, Cyanide, TCLP Metals/CLP
Concentration Level[a]	ICP-AES or ICP-MS for Metals, NA for Mercury and Cyanide

Sampling Procedure[b]	**Analytical Method SOP[c]**	**DQIs**	**Measurement Performance Criteria[d]**	**QC Sample and/or Activity Used to Assess Measurement Performance**	**QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)**
Various	A11, A12, A13, A15, A16	Precision	RPD ≤ 70%	Field duplicate	S & A
Various	A11, A12, A13, A15, A16	Accuracy/Bias-contamination	Metals, cyanide < QL	Rinsate blank	S & A
Various	A11, A12, A13, A15, A16	Accuracy/Bias	All metals, cyanide: 75-125 %R	Matrix spike	A
Various	A11, A12, A13, A15, A16	Precision	All metals, cyanide: < 20% RPD	Laboratory duplicate	A
Various	A11, A12, A13, A15, A16	Accuracy/Bias, Contamination	Metals, cyanide < QL	Method blank	A
Various	A11, A12, A13, A15, A16	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Matrix	Air/Soil Gas
Analytical Group	VOCs
Concentration Level[a]	SIM, Scan

Sampling Procedure[b]	Analytical Method SOP[c]	DQIs	Measurement Performance Criteria[d]	QC Sample and/or Activity Used to Assess Measurement Performance	QC Sample Assesses Error for Sampling (S), Analytical (A), or both (S&A)
Various	A3, A4	Precision	RPD ≤ 50%	Field duplicate	S & A
Various	A3, A4	Accuracy	Bromochloromethane, 60-140 %R Chlorobenzene-d5, 60-140 %R 1,4-Difluorobenzene, 60-140 %R	Internal standards	A
Various	A3, A4	Accuracy	70-130 % R	Laboratory control sample	A
Various	A3, A4	Accuracy/ Bias-Contamination	VOC < QL	Method blank	A
Various	A3, A4	Precision	RPD <30%	Laboratory Duplicate	A
Various	A3, A4	Completeness	≥ 90%	Data completeness defined as data not qualified as rejected after validation	S & A

QAPP WORKSHEET #12 (CONTINUED)
MEASUREMENT PERFORMANCE CRITERIA

Notes:

a	Concentration levels refer to specific contract-required quantitation limits defined by EPA's Contract Laboratory Program (CLP). See the CLP web site for additional information: http://www2.epa.gov/clp/what-are-available-analytical-services-within-superfund-contract-laboratory-program
b	Sampling SOPs are listed in QAPP Worksheet #21
c	Analytical method reference numbers are listed QAPP Worksheet #23
d	The measurement performance criteria listed for VOCs, SVOCs, pesticides, herbicides, PCBs, dioxins/furans, metals, and cyanide are from EPA CLP statements of work. Subcontracted laboratories may have different laboratory-specific measurement performance criteria.

DQI	Data quality indicator
ICP-AES	Inductively coupled plasma-atomic emission spectrometry
ICP-MS	Inductively coupled plasma-mass spectrometry
LCS	Laboratory control sample
MS/MSD	Matrix spike/matrix spike duplicate
NA	Not applicable
PCB	Polychlorinated biphenyl
QL	Quantitation limit
%R	Percent recovery
RPD	Relative percent difference
SIM	Selected ion monitoring
SOP	Standard operating procedure
SVOC	Semivolatile organic compound
TCLP	Toxicity characteristic leaching procedure
VOC	Volatile organic compound

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QAPP WORKSHEET #13
SECONDARY DATA CRITERIA AND LIMITATIONS

Secondary Data	Data Source (Report Title and Date)	Data Generator (Originating Organization, Data Types, Data Generation and Collection Dates)	How Data Will Be Used	Limitations on Data Use

Requirements:

Some work under the START contract may rely on secondary data from other sources such as reports, databases, spreadsheets, and literature files. When secondary data is of critical importance in supporting sampling and analytical measurements, quality requirements will be outlined in the site-specific sampling and analysis plan (SAP). The source and quality of the data, along with any potential problems affecting its applicability or limitations, will be documented. Supporting documentation will be used to evaluate the quality and usefulness of the data. If supporting documentation does not accompany the data, a records or file search will be conducted to obtain the supporting documentation.

When historical sampling data will be used, the data should be reviewed to determine the quality assurance and quality control procedures that were implemented when the data were collected (for example, were the data collected under an EPA-approved quality assurance project plan?). If this information is not available, the use of the data may be limited. Generally, data that is not supported by documented and acceptable quality procedures cannot be used for enforcement purposes but may be useful for preliminary analysis and assessment. Evaluation and verification procedures for secondary data should be approved by the Tetra Tech's QA officer.

When a large external data set is used, computer-assisted data screening may be applied to determine the internal consistency of the data set. The goal of such screening is to identify outliers from the overall data set. When data accuracy is primarily an issue of transcription accuracy, such as keying large data sets into a computer file, proof readers will independently check the transcribed data.

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QAPP WORKSHEET #14
SUMMARY OF PROJECT TASKS

Sampling Tasks: Sampling activities for each project will be outlined in a site-specific sampling and analysis plan (SAP). The SAP will summarize the sample network design and rationale, including: the numbers and types of samples to be collected, sampling locations, sampling frequencies, sample matrices, and measurement parameters. Sampling procedures will vary with each project and will be specified in the site-specific SAP. Worksheet #21 lists the standard operating procedures (SOP) that Tetra Tech will use to guide sampling activities. Worksheet #19 includes requirements for containers, volumes, preservation methods, and holding times for samples that might be commonly required under the START contract. Requirements for collecting QC samples are included in Worksheet #20.
Analysis Tasks: The source of analytical services to be provided will be determined by data quality objectives (DQO), the intended use of the resulting data, and technical direction document (TDD) requirements and constraints, such as quick turnaround of data. Tetra Tech may obtain analytical services from the EPA Region 5 Central Regional Laboratory (CRL) or through EPA Contract Laboratory Program (CLP) laboratories. However, if the EPA laboratories are at capacity, unable to implement a specific analytical method, or unable to achieve quantitation limits required by DQOs, the required analytical services will be provided by subcontracted laboratories procured by Tetra Tech. The site-specific SAP will identify the specific laboratory that has been selected to provide analytical services. Worksheets #23 and 30 include additional information about the analytical methods and services that will be required under the START contract.
QC Tasks: Field and laboratory quality control (QC) samples and measurements will be used to verify that analytical data meet project-specific quality objectives. Field QC samples and measurements will be used to assess how the sampling activities and measurements influence data quality. Requirements for collecting field QC samples are outlined in Worksheet #20. Similarly, laboratory QC samples will be used to assess how a laboratory's analytical program influences data quality. The site-specific SAP will describe (usually in table format) the QC samples to be analyzed during the investigation for each field and laboratory environmental measurement method and each sample matrix type. Worksheets #12 and 28 summarize the QC samples and acceptance criteria for analytical methods that will be used for most samples collected under the START contract.
Secondary Data: Some work under the START contract may rely on secondary data from other sources such as reports, databases, spreadsheets, and literature files. When secondary data is of critical importance in supporting sampling and analytical measurements, quality requirements will be outlined in the site-specific sampling and analysis plan (SAP). Secondary data requirements are addressed Worksheet #13.
Data Management Tasks: Tetra Tech project managers have the primary responsibility for defining project-specific data reporting requirements and for managing data under the START contract. Further details and requirements will be provided as necessary in site-specific SAPs, including requirements for data recording, validation, transformation, transmittal, reduction, analysis, tracking, storage, and retrieval. Data management requirements and tasks are addressed in Worksheet #29.
Documentation and Records: Data for the START contract will be obtained from a combination of sources, including field measurements and laboratory analyses. The process of data gathering is a coordinated effort and will be conducted by project staff in conjunction with data producers. Worksheet #27 includes additional information about how Tetra Tech will document field activities, and Worksheet #29 summarizes general requirements for managing data under the START contract. Further detail and requirements will be provided as necessary in site-specific SAPs.

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Assessment/Audit Tasks: Under the START contract, Tetra Tech may conduct performance and system audits of both field and laboratory activities to verify that sampling and analysis are performed in accordance with the procedures and requirements established in this QAPP and in site-specific SAPs. Worksheets #31 and 32 include additional information about these assessments and resulting corrective actions. If project-specific audits are planned for or required by a TDD, they will be identified in the site-specific SAP.
Data Review Tasks: Data reduction, review, and verification are essential functions for preparing data that can be effectively used to support project decisions and DQOs. Data review and verification includes procedures conducted by field or laboratory personnel to ensure that measurement results are correct and acceptable relative to QA objectives in this QAPP and in any site-specific SAP. Field and laboratory measurement data reduction, review, and verification procedures and requirements are specified in field and laboratory methods, SOPs, and guidance documents. In most cases, data review, reduction, and verification procedures can be identified in site-specific SAP by referencing these sources. However, if data review, reduction, and verification are not adequately described in these sources, the site-specific SAP will include additional information. Worksheet #34 includes additional discussion of data review tasks and requirements.

QAPP WORKSHEET #15
REFERENCE LIMITS AND EVALUATION

VOCs in Water

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]	
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	Trace Level	Low Level
Dichlorodifluoromethane	75-71-8	200	NC	590	0.5	5.0
Chloromethane	74-87-3	190	NC	560	0.5	5.0
Vinyl chloride	75-01-4	0.019	2.0	1.9	0.5	5.0
Bromomethane	74-83-9	7.5	NC	23	0.5	5.0
Chloroethane	75-00-3	21,000	NC	63,000	0.5	5.0
Trichlorofluoromethane	75-69-4	5,200	NC	15,000	0.5	5.0
1,1-Dichloroethene	75-35-4	280	7.0	850	0.5	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	55,000	NC	170,000	0.5	5.0
Acetone	67-64-1	14,000	NC	42,000	5.0	10.0
Carbon disulfide	75-15-0	810	NC	2,400	0.5	5.0
Methyl acetate	79-20-9	20,000	NC	60,000	0.5	5.0
Methylene chloride	75-09-2	11	5.0	320	0.5	5.0
trans-1,2-Dichloroethene	156-60-5	360	100	1,100	0.5	5.0
Methyl tert-butyl ether	1634-04-4	14	NC	1,400	0.5	5.0
1,1-Dichloroethane	75-34-3	2.8	NC	280	0.5	5.0
cis-1,2-Dichloroethene	156-59-2	36	70.0	110	0.5	5.0
2-Butanone	78-93-3	5,600	NC	17,000	5.0	10.0
Bromochloromethane	74-97-5	83	NC	250	0.5	5.0
Chloroform	67-66-3	0.22	NC	22	0.5	5.0
1,1,1-Trichloroethane	71-55-6	8,000	200	24,000	0.5	5.0
Cyclohexane	110-82-7	13,000	NC	38,000	0.5	5.0
Carbon tetrachloride	56-23-5	0.46	5.0	46	0.5	5.0
Benzene	71-43-2	0.46	5.0	46	0.5	5.0
1,2-Dichloroethane	107-06-2	0.17	5.0	17	0.5	5.0

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]	
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	Trace Level	Low Level
Trichloroethene	79-01-6	0.49	5.0	8.5	0.5	5.0
Methylcyclohexane	108-87-2	NC	NC	NC	0.5	5.0
1,2-Dichloropropane	78-87-5	0.44	5.0	25	0.5	5.0
Bromodichloromethane	75-27-4	0.13	NC	13	0.5	5.0
cis-1,3-Dichloropropene	10061-01-5	NC	NC	NC	0.5	5.0
4-Methyl-2-pentanone	108-10-1	6,300	NC	19,000	5.0	10.0
Toluene	108-88-3	1,100	1,000	3,300	0.5	5.0
trans-1,3-Dichloropropene	10061-02-6	NC	NC	NC	0.5	5.0
1,1,2-Trichloroethane	79-00-5	0.28	5.0	1.2	0.5	5.0
Tetrachloroethene	127-18-4	11	5.0	120	0.5	5.0
2-Hexanone	591-78-6	38	NC	110	5.0	10.0
Dibromochloromethane	124-48-1	0.87	NC	87	0.5	5.0
1,2-Dibromoethane	106-93-4	0.0075	0.05	0.75	0.5	5.0
Chlorobenzene	108-90-7	78	100	230	0.5	5.0
Ethylbenzene	100-41-4	1.5	700	150	0.5	5.0
o-Xylene	95-47-6	190	10,000	580	0.5	5.0
m,p-Xylene	179601-23-1	190	10,000	580	0.5	5.0
Styrene	100-42-5	1,200	100	3,600	0.5	5.0
Bromoform	75-25-2	3.3	NC	330	0.5	5.0
Isopropylbenzene (cumene)	98-82-8	450	NC	1,400	0.5	5.0
1,1,2,2-Tetrachloroethane	79-34-5	0.076	NC	7.6	0.5	5.0
1,3-Dichlorobenzene	541-73-1	NC	NC	NC	0.5	5.0
1,4-Dichlorobenzene	106-46-7	0.48	75	48	0.5	5.0
1,2-Dichlorobenzene	95-50-1	300	600	910	0.5	5.0
1,2-Dibromo-3-chloropropane[f]	96-12-8	0.00033	0.2	0.033	0.5	5.0
1,2,4-Trichlorobenzene	120-82-1	1.2	70	12	0.5	5.0
1,2,3-Trichlorobenzene	87-61-6	7.0	NC	21	0.5	5.0

VOCs in Soil, Sediment, and Waste

Analyte Name	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]	
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	Low Level	Medium Level
Dichlorodifluoromethane	75-71-8	87	370	260	1,100	0.005	0.250
Chloromethane	74-87-3	110	460	330	1,400	0.005	0.250
Vinyl chloride	75-01-4	0.059	1.7	5.9	170	0.005	0.250
Bromomethane	74-83-9	6.8	30	21	90	0.005	0.250
Chloroethane	75-00-3	14,000	57,000	41,000	170,000	0.005	0.250
Trichlorofluoromethane	75-69-4	23,000	350,000	70,000	1,100,000	0.005	0.250
1,1-Dichloroethene	75-35-4	230	1,000	680	3,000	0.005	0.250
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	40,000	170,000	120,000	500,000	0.005	0.250
Acetone	67-64-1	61,000	670,000	180,000	2,000,000	0.010	0.500
Carbon disulfide	75-15-0	770	3,500	2,300	10,000	0.005	0.250
Methyl acetate	79-20-9	78,000	1,200,000	230,000	3,500,000	0.005	0.250
Methylene chloride	75-09-2	57	1,000	1,000	9,500	0.005	0.250
trans-1,2-Dichloroethene	156-60-5	1,600	23,000	4,700	70,000	0.005	0.250
Methyl tert-butyl ether	1634-04-4	47	210	4,700	21,000	0.005	0.250
1,1-Dichloroethane	75-34-3	3.6	16	360	1,600	0.005	0.250
cis-1,2-Dichloroethene	156-59-2	160	2,300	470	7,000	0.005	0.250
2-Butanone	78-93-3	27,000	190,000	81,000	580,000	0.010	0.500
Bromochloromethane	74-97-5	150	630	450	1,900	0.005	0.250
Chloroform	67-66-3	0.32	1.4	32	140	0.005	0.250
1,1,1-Trichloroethane	71-55-6	8,100	36,000	24,000	110,000	0.005	0.250
Cyclohexane	110-82-7	6,500	27,000	20,000	82,000	0.005	0.250
Carbon tetrachloride	56-23-5	0.65	2.9	65	290	0.005	0.250
Benzene	71-43-2	1.2	5.1	120	510	0.005	0.250
1,2-Dichloroethane	107-06-2	0.46	2.0	46	200	0.005	0.250
Trichloroethene	79-01-6	0.94	6.0	12	56	0.005	0.250

Analyte Name	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]	
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	Low Level	Medium Level
Methylcyclohexane	108-87-2	NC	NC	NC	NC	0.005	0.250
1,2-Dichloropropane	78-87-5	1.0	4.4	47	200	0.005	0.250
Bromodichloromethane	75-27-4	0.29	1.3	29	130	0.005	0.250
cis-1,3-Dichloropropene	10061-01-5	NC	NC	NC	NC	0.005	0.250
4-Methyl-2-pentanone	108-10-1	33,000	140,000	99,000	420,000	0.010	0.500
Toluene	108-88-3	4,900	47,000	15,000	140,000	0.005	0.250
trans-1,3-Dichloropropene	10061-02-6	NC	NC	NC	NC	0.005	0.250
1,1,2-Trichloroethane	79-00-5	1.1	5.0	4.5	19	0.005	0.250
Tetrachloroethene	127-18-4	24	100	240	1,200	0.005	0.250
2-Hexanone	591-78-6	200	1,300	600	4,000	0.010	0.500
Dibromochloromethane	124-48-1	8.3	39	830	3,900	0.005	0.250
1,2-Dibromoethane	106-93-4	0.036	0.16	3.6	16	0.005	0.250
Chlorobenzene	108-90-7	280	1,300	830	4,000	0.005	0.250
Ethylbenzene	100-41-4	5.8	25	580	2,500	0.005	0.250
o-Xylene	95-47-6	650	2,800	1,900	8,400	0.005	0.250
m,p-Xylene	179601-23-1	550	2,400	1,700	7,200	0.005	0.250
Styrene	100-42-5	6,000	35,000	18,000	100,000	0.005	0.250
Bromoform	75-25-2	19	86	1,900	8,600	0.005	0.250
Isopropylbenzene (cumene)	98-82-8	1,900	9,900	5,800	30,000	0.005	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.60	2.7	60	270	0.005	0.250
1,3-Dichlorobenzene	541-73-1	NC	NC	NC	NC	0.005	0.250
1,4-Dichlorobenzene	106-46-7	2.6	11	260	1,100	0.005	0.250
1,2-Dichlorobenzene	95-50-1	1,800	9,300	5,400	28,000	0.005	0.250
1,2-Dibromo-3-chloropropane	96-12-8	0.0053	0.064	0.53	6.4	0.005	0.250
1,2,4-Trichlorobenzene	120-82-1	24	110	170	770	0.005	0.250
1,2,3-Trichlorobenzene	87-61-6	63	930	190	2,800	0.005	0.250

VOCs in Air and Soil Gas

Analyte	CAS Number	Possible Action Limit (µg/m³)[a]				Laboratory Reporting Limit (µg/m³)[b]	
		EPA RSL (Residential Air)[c]	EPA RSL (Industrial Air)[c]	EPA VISL (Indoor Air)[g]	EPA VISL (Sub-Slab Vapor)[g]	Scan	SIM
Propylene	115-07-1	3,100	13,000	9,400	310,000	0.86	NA
Dichlorodifluoromethane (Freon 12)	75-71-8	100	440	310	10,000	2.47	NA
Dichlorotetrafluoroethane (Freon 114)	76-14-2	NC	NC	NC	NC	3.50	NA
Chloromethane	74-87-3	94	390	280	9,400	1.03	NA
Vinyl chloride	75-01-4	0.17	2.8	17	560	1.28	0.128
1,3-Butadiene	106-99-0	0.094	0.41	6.3	210	1.11	NA
Bromomethane	74-83-9	5.2	22	16	520	1.94	NA
Chloroethane	75-00-3	10,000	44,000	31,000	1,000,000	1.32	NA
Ethanol	64-17-5	NC	NC	NC	NC	0.94	NA
Trichlorofluoromethane (Freon 11)	75-69-4	NC	NC	NC	NC	2.81	NA
1,1-Dichloroethene	75-35-4	210	880	630	21,000	1.98	0.198
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	31,000	130,000	94,000	3,100,000	3.83	NA
Acetone	67-64-1	32,000	140,000	97,000	3,200,000	1.19	NA
2-Propanol (Isopropanol)	67-63-0	210	880	630	21,000	1.23	NA
Carbon disulfide	75-15-0	730	3,100	2,200	73,000	1.56	NA
Methylene chloride	75-09-2	100	1,200	1,900	63,000	1.74	NA
trans-1,2-Dichloroethene	156-60-5	NC	NC	NC	NC	1.98	0.198
n-Hexane	110-54-3	730	3,100	2,200	73,000	1.76	NA
Methyl tert-butyl ether	1634-04-4	11	47	1,100	36,000	1.80	0.18
1,1-Dichloroethane	75-34-3	1.8	7.7	180	5,800	2.02	0.202
cis-1,2-Dichloroethene	156-59-2	NC	NC	NC	NC	1.98	0.198
2-Chloro-1,3-butadiene (Chloroprene)[h]	126-99-8	0.0094	0.041	0.94	31	1.81	NA
2-Butanone	78-93-3	5,200	22,000	16,000	520,000	1.47	NA
Tetrahydrofuran	109-99-9	2,100	8,800	6,300	210,000	1.47	NA

Analyte	CAS Number	Possible Action Limit (µg/m³)[a]				Laboratory Reporting Limit (µg/m³)[b]	
		EPA RSL (Residential Air)[c]	EPA RSL (Industrial Air)[c]	EPA VISL (Indoor Air)[g]	EPA VISL (Sub-Slab Vapor)[g]	Scan	SIM
Chloroform	67-66-3	0.12	0.53	12	410	2.44	NA
1,1,1-Trichloroethane	71-55-6	5,200	22,000	16,000	520,000	2.73	0.273
Cyclohexane	110-82-7	6,300	26,000	19,000	630,000	1.72	NA
Carbon tetrachloride	56-23-5	0.47	2.0	47	1,600	3.15	NA
Ethyl Acetate	141-78-6	73	310	220	7,300	1.80	NA
Vinyl Acetate	108-05-4	210	880	630	21,000	1.76	NA
Benzene	71-43-2	0.36	1.6	36	1,200	1.60	0.16
1,2-Dichloroethane	107-06-2	0.11	0.47	11	360	2.02	0.202
n-Heptane	142-82-5	NC	NC	NC	NC	2.05	NA
1,4-Dioxane	123-91-1	0.56	2.5	56	1,900	1.80	NA
Trichloroethene	79-01-6	0.48	3.0	6.3	210	2.69	0.269
1,2-Dichloropropane	78-87-5	0.28	1.2	13	420	2.31	NA
Bromodichloromethane	75-27-4	0.076	0.33	7.6	250	3.35	NA
cis-1,3-Dichloropropene	10061-01-5	NC	NC	NC	NC	2.27	NA
4-Methyl-2-pentanone	108-10-1	3,100	13,000	9,400	310,000	2.05	NA
Toluene	108-88-3	5,200	22,000	16,000	520,000	1.88	0.188
trans-1,3-Dichloropropene	10061-02-6	NC	NC	NC	NC	2.27	NA
1,1,2-Trichloroethane	79-00-5	0.18	0.77	0.63	21	2.73	0.273
Tetrachloroethene	127-18-4	11	47	130	4,200	3.39	0.339
2-Hexanone	591-78-6	31	130	94	3,100	2.05	NA
Dibromochloromethane	124-48-1	NC	NC	NC	NC	4.26	NA
1,2-Dibromoethane	106-93-4	0.0047	0.020	0.47	16	3.84	0.15[i]
n-Octane	111-65-9	NC	NC	NC	NC	2.34	NA
Chlorobenzene	108-90-7	52	220	160	5,200	2.30	NA
Ethylbenzene	100-41-4	1.1	4.9	110	3,700	2.17	0.217
o-Xylene	95-47-6	100	440	310	10,000	2.17	0.217

Analyte	CAS Number	Possible Action Limit (µg/m³)[a]				Laboratory Reporting Limit (µg/m³)[b]	
		EPA RSL (Residential Air)[c]	EPA RSL (Industrial Air)[c]	EPA VISL (Indoor Air)[g]	EPA VISL (Sub-Slab Vapor)[g]	Scan	SIM
m,p-Xylene	179601-23-1	100	440	310	10,000	2.17	0.217
Styrene	100-42-5	1,000	4,400	3,100	100,000	2.13	NA
Bromoform	75-25-2	2.6	11	260	8,500	5.17	NA
Cumene	98-82-8	420	1,800	1,300	42,000	2.46	NA
1,1,2,2-Tetrachloroethane	79-34-5	0.048	0.21	4.8	160	3.43	0.343
Propylbenzene	103-65-1	1,000	4,400	3,100	100,000	2.46	NA
4-Ethyltoluene	622-96-8	NC	NC	NC	NC	2.46	NA
1,3,5-Trimethylbenzene	108-67-8	NC	NC	NC	NC	2.46	NA
1,2,4-Trimethylbenzene	95-63-6	7.3	31	22	730	2.46	NA
Benzyl Chloride	100-44-7	0.057	0.25	3.1	100	2.59	NA
1,3-Dichlorobenzene	541-73-1	NC	NC	NC	NC	3.01	NA
1,4-Dichlorobenzene	106-46-7	0.26	1.1	26	850	3.01	NA
1,2-Dichlorobenzene	95-50-1	210	880	630	21,000	3.01	NA
Hexachlorobutadiene	87-68-3	0.13	0.56	13	430	5.33	NA
1,2,4-Trichlorobenzene	120-82-1	2.1	8.8	6.3	210	3.71	NA

SVOCs in Water

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]	
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	SIM	Low Level
1,4-Dioxane	123-91-1	0.46	NC	46	NA	2
Benzaldehyde	100-52-7	19	NC	1,900	NA	10
Phenol	108-95-2	5,800	NC	17,000	NA	10
Bis(2-chloroethyl) ether	111-44-4	0.014	NC	1.4	NA	1[j]
2-Chlorophenol	95-57-8	91	NC	270	NA	5
2-Methylphenol	95-48-7	930	NC	2,800	NA	10
3-Methylphenol	108-39-4	930	NC	2,800	NA	5
2,2'-Oxybis(1-chloropropane)	108-60-1	710	NC	2,100	NA	10
Acetophenone	98-86-2	1,900	NC	5,800	NA	10
4-Methylphenol	106-44-5	1,900	NC	5,600	NA	10
N-Nitroso-di-n propylamine	621-64-7	0.011	NC	1.1	NA	1[j]
Hexachloroethane	67-72-1	0.33	NC	19	NA	5
Nitrobenzene	98-95-3	0.14	NC	14	NA	5
Isophorone	78-59-1	78	NC	7,800	NA	5
2-Nitrophenol	88-75-5	NC	NC	NC	NA	5
2,4-Dimethylphenol	105-67-9	360	NC	1,100	NA	5
Bis(2-chloroethoxy)methane	111-91-1	59	NC	180	NA	5
2,4-Dichlorophenol	120-83-2	46	NC	140	NA	5
Naphthalene	91-20-3	0.17	NC	17	0.1	5
4-Chloroaniline	106-47-8	0.37	NC	37	NA	10
Hexachlorobutadiene	87-68-3	0.14	NC	14	NA	5
Caprolactam	105-60-2	9,900	NC	30,000	NA	10
4-Chloro-3-methylphenol	59-50-7	1,400	NC	4,300	NA	5
2-Methylnaphthalene	91-57-6	36	NC	110	0.1	5
Hexachlorocyclopentadiene[k]	77-47-4	0.41	50	1.2	NA	5
2,4,6-Trichlorophenol	88-06-2	4.1	NC	36	NA	5

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]	
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	SIM	Low Level
2,4,5-Trichlorophenol	95-95-4	1,200	NC	3,500	NA	5
1,1'-Biphenyl	92-52-4	0.83	NC	2.5	NA	1[j]
2-Chloronaphthalene	91-58-7	750	NC	2,200	NA	5
2-Nitroaniline	88-74-4	190	NC	570	NA	5
Dimethylphthalate	131-11-3	NC	NC	NC	NA	5
2,6-Dinitrotoluene	606-20-2	0.049	NC	4.9	NA	1[j]
Acenaphthylene	208-96-8	NC	NC	NC	0.1	5
3-Nitroaniline	99-09-2	NC	NC	NC	NA	10
Acenaphthene	83-32-9	530	NC	1,600	0.1	5
2,4-Dinitrophenol	51-28-5	39	NC	120	NA	10
4-Nitrophenol	100-02-7	NC	NC	NC	NA	10
Dibenzofuran	132-64-9	7.9	NC	24	NA	5
2,4-Dinitrotoluene	121-14-2	0.24	NC	24	NA	5
Diethylphthalate	84-66-2	15,000	NC	45,000	NA	5
Fluorene	86-73-7	290	NC	880	0.1	5
4-Chlorophenyl-phenyl ether	7005-72-3	NC	NC	NC	NA	5
4-Nitroaniline	100-01-6	3.8	NC	230	NA	10
4,6-Dinitro-2-methylphenol[k]	534-52-1	1.5	NC	4.5	NA	10
N-Nitrosodiphenylamine	86-30-6	12	NC	1,200	NA	5
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7	NC	5.1	NA	5
4-Bromophenyl-phenylether	101-55-3	NC	NC	NC	NA	5
Hexachlorobenzene[k]	118-74-1	0.0098	1.0	0.98	NA	5
Atrazine	1912-24-9	0.30	3.0	30	NA	10
Pentachlorophenol	87-86-5	0.041	1.0	4.1	0.2	10
Phenanthrene	85-01-8	NC	NC	NC	0.1	5
Anthracene	120-12-7	1,800	NC	5,300	0.1	5
Carbazole	86-74-8	NC	NC	NC	NA	10
Di-n-butylphthalate	84-74-2	900	NC	2,700	NA	5

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]	
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	SIM	Low Level
Fluoranthene	206-44-0	800	NC	2,400	0.1	10
Pyrene	129-00-0	120	NC	360	0.1	5
Butylbenzylphthalate	85-68-7	16	NC	1,600	NA	5
3,3'-Dichlorobenzidine	91-94-1	0.13	NC	13	NA	10
Benzo(a)anthracene	56-55-3	0.012	NC	1.2	0.1	5
Chrysene	218-01-9	3.4	NC	340	0.1	5
Bis(2-ethylhexyl)phthalate	117-81-7	5.6	6.0	560	NA	5
Di-n-octylphthalate	117-84-0	200	NC	600	NA	10
Benzo(b)fluoranthene	205-99-2	0.034	NC	3.4	0.1	5
Benzo(k)fluoranthene	207-08-9	0.34	NC	34	0.1	5
Benzo(a)pyrene	50-32-8	0.0034	0.2	0.34	0.1	5
Indeno(1,2,3-cd)pyrene	193-39-5	0.034	NC	3.4	0.1	5
Dibenzo(a,h)anthracene	53-70-3	0.0034	NC	0.34	0.1	5
Benzo(g,h,i)perylene	191-24-2	NC	NC	NC	0.1	5
2,3,4,6-Tetrachlorophenol	58-90-2	240	NC	710	NA	5

SVOCs in Soil, Sediment, and Waste

Analyte	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]		
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	SIM	Low Level	Medium Level
1,4-Dioxane	123-91-1	5.3	24	530	2,400	NA	0.067	2
Benzaldehyde	100-52-7	170	820	17,000	82,000	NA	0.330	10
Phenol	108-95-2	19,000	250,000	57,000	740,000	NA	0.330	10
Bis(2-chloroethyl) ether	111-44-4	0.23	1.0	23	100	NA	0.330	10
2-Chlorophenol	95-57-8	390	5,800	1,200	18,000	NA	0.170	5
2-Methylphenol	95-48-7	3,200	41,000	9,500	120,000	NA	0.330	10
2,2'-Oxybis(1-chloropropane)	108-60-1	3,100	47,000	9,400	140,000	NA	0.330	10
Acetophenone	98-86-2	7,800	120,000	23,000	350,000	NA	0.330	10
4-Methylphenol	106-44-5	6,300	82,000	19,000	250,000	NA	0.330	10
N-Nitroso-di-n propylamine	621-64-7	0.078	0.33	7.8	33	NA	0.170	5
Hexachloroethane	67-72-1	1.8	8.0	130	800	NA	0.170	5
Nitrobenzene	98-95-3	5.1	22	380	2,200	NA	0.170	5
Isophorone	78-59-1	570	2,400	38,000	240,000	NA	0.170	5
2-Nitrophenol	88-75-5	NC	NC	NC	NC	NA	0.170	5
2,4-Dimethylphenol	105-67-9	1,300	16,000	3,800	49,000	NA	0.170	5
Bis(2-chloroethoxy)methane	111-91-1	190	2,500	570	7,400	NA	0.170	5
2,4-Dichlorophenol	120-83-2	190	2,500	570	7,400	NA	0.170	5
Naphthalene	91-20-3	3.8	17	380	1,700	0.0033	0.170	5
4-Chloroaniline	106-47-8	2.7	11	270	1,100	NA	0.330	10
Hexachlorobutadiene	87-68-3	1.2	5.3	120	530	NA	0.170	5
Caprolactam	105-60-2	31,000	400,000	94,000	1,200,000	NA	0.330	10
4-Chloro-3-methylphenol	59-50-7	6,300	82,000	19,000	250,000	NA	0.170	5
2-Methylnaphthalene	91-57-6	240	3,000	720	9,000	0.0033	0.170	5
Hexachlorocyclopentadiene	77-47-4	1.8	7.5	5.3	22	NA	0.330	10
2,4,6-Trichlorophenol	88-06-2	49	210	190	2,500	NA	0.170	5
2,4,5-Trichlorophenol	95-95-4	6,300	82,000	19,000	250,000	NA	0.170	5

Analyte	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]		
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	SIM	Low Level	Medium Level
1,1'-Biphenyl	92-52-4	47	200	140	600	NA	0.170	5
2-Chloronaphthalene	91-58-7	4,800	60,000	14,000	180,000	NA	0.170	5
2-Nitroaniline	88-74-4	630	8,000	1,900	24,000	NA	0.170	5
Dimethylphthalate	131-11-3	NC	NC	NC	NC	NA	0.170	5
2,6-Dinitrotoluene	606-20-2	0.36	1.5	36	150	NA	0.170	5
Acenaphthylene	208-96-8	NC	NC	NC	NC	0.0033	0.170	5
3-Nitroaniline	99-09-2	NC	NC	NC	NC	NA	0.330	10
Acenaphthene	83-32-9	3,600	45,000	11,000	140,000	0.0033	0.170	5
2,4-Dinitrophenol	51-28-5	130	1,600	380	4,900	NA	0.330	10
4-Nitrophenol	100-02-7	NC	NC	NC	NC	NA	0.330	10
Dibenzofuran	132-64-9	73	1,000	220	3,100	NA	0.170	5
2,4-Dinitrotoluene	121-14-2	1.7	7.4	170	740	NA	0.170	5
Diethylphthalate	84-66-2	51,000	660,000	150,000	2,000,000	NA	0.170	5
Fluorene	86-73-7	2,400	30,000	7,200	90,000	0.0033	0.170	5
4-Chlorophenyl-phenyl ether	7005-72-3	NC	NC	NC	NC	NA	0.170	5
4-Nitroaniline	100-01-6	27	110	760	9,800	NA	0.330	10
4,6-Dinitro-2-methylphenol	534-52-1	5.1	66	15	200	NA	0.330	10
N-Nitrosodiphenylamine	86-30-6	110	470	11,000	47,000	NA	0.170	5
1,2,4,5-Tetrachlorobenzene	95-94-3	23	350	70	1,100	NA	0.170	5
4-Bromophenyl-phenylether	101-55-3	NC	NC	NC	NC	NA	0.170	5
Hexachlorobenzene	118-74-1	0.21	0.96	21	96	NA	0.170	5
Atrazine	1912-24-9	2.4	10	240	1,000	NA	0.330	10
Pentachlorophenol	87-86-5	1.0	4.0	100	400	0.0067	0.330	10
Phenanthrene	85-01-8	NC	NC	NC	NC	0.0033	0.170	5
Anthracene	120-12-7	18,000	230,000	54,000	680,000	0.0033	0.170	5
Carbazole	86-74-8	NC	NC	NC	NC	NA	0.330	10
Di-n-butylphthalate	84-74-2	6,300	82,000	19,000	250,000	NA	0.170	5
Fluoranthene	206-44-0	2,400	30,000	7,200	90,000	0.0033	0.330	10

Analyte	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]		
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	SIM	Low Level	Medium Level
Pyrene	129-00-0	1,800	23,000	5,400	68,000	0.0033	0.170	5
Butylbenzylphthalate	85-68-7	290	1,200	29,000	120,000	NA	0.170	5
3,3'-Dichlorobenzidine	91-94-1	1.2	5.1	120	510	NA	0.330	10
Benzo(a)anthracene	56-55-3	0.16	2.9	16	290	0.0033	0.170	5
Chrysene	218-01-9	16	290	1,600	29,000	0.0033	0.170	5
Bis(2-ethylhexyl)phthalate	117-81-7	39	160	3,800	16,000	NA	0.170	5
Di-n-octylphthalate	117-84-0	630	8,200	1,900	25,000	NA	0.330	10
Benzo(b)fluoranthene	205-99-2	0.16	2.9	16	290	0.0033	0.170	5
Benzo(k)fluoranthene	207-08-9	1.6	29	160	2,900	0.0033	0.170	5
Benzo(a)pyrene	50-32-8	0.016	0.29	1.6	29	0.0033	0.170	5
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	2.9	16	290	0.0033	0.170	5
Dibenzo(a,h)anthracene	53-70-3	0.016	0.29	1.6	29	0.0033	0.170	5
Benzo(g,h,i)perylene	191-24-2	NC	NC	NC	NC	0.0033	0.170	5
2,3,4,6-Tetrachlorophenol	58-90-2	1,900	25,000	5,700	74,000	NA	0.170	5

PCBs in Water

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	
Aroclor-1016	12674-11-2	0.22	0.5	4.2	1.0
Aroclor-1221	11104-28-2	0.0047	0.5	0.47	0.4[j]
Aroclor-1232	11141-16-5	0.0047	0.5	0.47	0.4[j]
Aroclor-1242	53469-21-9	0.0078	0.5	0.78	0.4[j]
Aroclor-1248	12672-29-6	0.0078	0.5	0.78	0.4[j]
Aroclor-1254	11097-69-1	0.0078	0.5	0.78	0.4[j]
Aroclor-1260	11096-82-5	0.0078	0.5	0.78	0.2[j]
Aroclor-1262	37324-23-5	NC	0.5	NC	1.0
Aroclor-1268	11100-14-4	NC	0.5	NC	1.0

PCBs in Soil, Sediment, and Waste

Analyte	CAS Number	Possible Action Limit (µg/kg)[a]				Laboratory Reporting Limit (µg/kg)[b]
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	
Aroclor-1016	12674-11-2	4,100	27,000	12,000	150,000	33
Aroclor-1221	11104-28-2	200	830	20,000	83,000	33
Aroclor-1232	11141-16-5	170	720	17,000	72,000	33
Aroclor-1242	53469-21-9	230	950	23,000	95,000	33
Aroclor-1248	12672-29-6	230	950	23,000	95,000	33
Aroclor-1254	11097-69-1	240	970	3,500	44,000	33
Aroclor-1260	11096-82-5	240	990	24,000	99,000	33
Aroclor-1262	37324-23-5	NC	NC	NC	NC	33
Aroclor-1268	11100-14-4	NC	NC	NC	NC	33

Pesticides in Water

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	
alpha-BHC	319-84-6	0.0072	NC	0.72	0.05
beta-BHC	319-85-7	0.025	NC	2.5	0.05
delta-BHC	319-86-8	NC	NC	NC	0.05
gamma-BHC (Lindane)	58-89-9	0.042	0.2	4.2	0.05
Heptachlor	76-44-8	0.0014	0.4	0.14	0.05
Aldrin	309-00-2	0.00092	NC	0.092	0.05
Heptachlor epoxide	1024-57-3	0.0014	0.2	0.14	0.05
Endosulfan I	959-98-8	NC	NC	NC	0.05
Dieldrin	60-57-1	0.0018	NC	0.18	0.1
4,4'-DDE	72-55-9	0.046	NC	4.6	0.1
Endrin	72-20-8	2.3	2.0	6.9	0.1
Endosulfan II	33213-65-9	NC	NC	NC	0.1
4,4'-DDD	72-54-8	0.032	NC	3.2	0.1
Endosulfan sulfate	1031-07-8	NC	NC	NC	0.1
4,4'-DDT	50-29-3	0.023	NC	23	0.1
Methoxychlor	72-43-5	37	40	110	0.5
Endrin ketone	53494-70-5	NC	NC	NC	0.1
Endrin aldehyde	7421-93-4	NC	NC	NC	0.1
cis-Chlordane	5103-71-9	0.02	2.0	2.0	0.05
trans-Chlordane	5103-74-2	0.02	2.0	2.0	0.05
Toxaphene	8001-35-2	0.071	3.0	7.1	5

Pesticides in Soil, Sediment, and Waste

Analyte	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	
alpha-BHC	319-84-6	0.086	0.36	8.6	36	0.0017
beta-BHC	319-85-7	0.30	1.3	30	130	0.0017
delta-BHC	319-86-8	NC	NC	NC	NC	0.0017
gamma-BHC (Lindane)	58-89-9	0.57	2.5	57	250	0.0017
Heptachlor	76-44-8	0.13	0.63	13	63	0.0017
Aldrin	309-00-2	0.039	0.18	3.9	18	0.0017
Heptachlor epoxide	1024-57-3	0.070	0.33	3.1	33	0.0017
Endosulfan I	959-98-8	NC	NC	NC	NC	0.0017
Dieldrin	60-57-1	0.034	0.14	3.4	14	0.0033
4,4'-DDE	72-55-9	2.0	9.3	200	930	0.0033
Endrin	72-20-8	19	250	57	740	0.0033
Endosulfan II	33213-65-9	NC	NC	NC	NC	0.0033
4,4'-DDD	72-54-8	2.3	9.6	230	960	0.0033
Endosulfan sulfate	1031-07-8	NC	NC	NC	NC	0.0033
4,4'-DDT	50-29-3	1.9	8.5	110	850	0.0033
Methoxychlor	72-43-5	320	4,100	950	12,000	0.017
Endrin ketone	53494-70-5	NC	NC	NC	NC	0.0033
Endrin aldehyde	7421-93-4	NC	NC	NC	NC	0.0033
cis-Chlordane	5103-71-9	1.7	7.7	100	770	0.0017
trans-Chlordane	5103-74-2	1.7	7.7	100	770	0.0017
Toxaphene	8001-35-2	0.49	2.1	49	210	0.170

Herbicides in Water

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[l]
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	
2,4-D	94-75-7	170	70	520	0.20
2,4-DB	94-82-6	120	NC	360	0.80
2,4,5-TP (Silvex)	93-72-1	110	50	330	0.075
2,4,5-T	93-76-5	160	NC	490	0.080
Dalapon	75-99-0	600	200	1,800	1.3
Dicamba	1918-00-9	570	NC	1,700	0.081
Dichloroprop	120-36-5	NC	NC	NC	0.26
Dinoseb	88-85-7	15	7.0	44	0.19
MCPA	94-74-6	7.5	NC	23	0.056
MCPP	93-65-2	16	NC	47	0.090
4-Nitrophenol	100-02-1	NC	NC	NC	0.13
Pentachlorophenol	87-86-5	0.041	1.0	4.1	0.076

Herbicides in Soil, Sediment, and Waste

Analyte	CAS Number	Possible Action Limit (µg/kg)[a]				Laboratory Reporting Limit (µg/kg)[l]
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	
2,4-D	94-75-7	700,000	9,600,000	2,100,000	29,000,000	0.11
2,4-DB	94-82-6	510,000	6,600,000	1,500,000	20,000,000	NL
2,4,5-TP (Silvex)	93-72-1	510,000	6,600,000	1,500,000	20,000,000	0.28
2,4,5-T	93-76-5	630,000	8,200,000	1,900,000	25,000,000	NL
Dalapon	75-99-0	1,900,000	25,000,000	5,700,000	74,000,000	0.12
Dicamba	1918-00-9	1,900,000	25,000,000	5,700,000	74,000,000	NL
Dichloroprop	120-36-5	NC	NC	NC	NC	NL
Dinoseb	88-85-7	63,000	820,000	190,000	2,500,000	NL
MCPA	94-74-6	32,000	410,000	95,000	1,200,000	43
MCPP	93-65-2	63,000	820,000	190,000	2,500,000	66
4-Nitrophenol	100-02-1	NC	NC	NC	NC	0.34
Pentachlorophenol	87-86-5	1,000	4,000	100,000	400,000	0.16

Dioxins and Furans in Water

Analyte	CAS Number	Possible Action Limit (pg/L)[a]			Laboratory Reporting Limit (pg/L)[b]
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	
2,3,7,8-TCDD	1746-01-6	0.12	30	12	10
1,2,3,7,8-PeCDD	40321-76-4	NC	NC	NC	50
1,2,3,6,7,8-HxCDD	57653-85-7	NC	NC	NC	50
1,2,3,4,7,8-HxCDD	39227-28-6	NC	NC	NC	50
1,2,3,7,8,9-HxCDD	19408-74-3	NC	NC	NC	50
1,2,3,4,6,7,8-HpCDD	35822-46-9	NC	NC	NC	50
OCDD	3268-87-9	NC	NC	NC	100
2,3,7,8-TCDF	51207-31-9	NC	NC	NC	10
1,2,3,7,8-PeCDF	57117-41-6	NC	NC	NC	50
2,3,4,7,8-PeCDF	57117-31-4	NC	NC	NC	50
1,2,3,6,7,8-HxCDF	57117-44-9	NC	NC	NC	50
1,2,3,7,8,9-HxCDF	72918-21-9	NC	NC	NC	50
1,2,3,4,7,8-HxCDF	70648-26-9	NC	NC	NC	50
2,3,4,6,7,8-HxCDF	60851-34-5	NC	NC	NC	50
1,2,3,4,6,7,8-HpCDF	67562-39-4	NC	NC	NC	50
1,2,3,4,7,8,9-HpCDF	55673-89-7	NC	NC	NC	50
OCDF	39001-02-0	NC	NC	NC	100

Dioxins and Furans in Soil, Sediment, and Waste

Analyte	CAS Number	Possible Action Limit (ng/kg)[a]				Laboratory Reporting Limit (ng/kg)[b]
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	
2,3,7,8-TCDD	1746-01-6	4.8	22	150	2,200	1.0
1,2,3,7,8-PeCDD	40321-76-4	NC	NC	NC	NC	5.0
1,2,3,6,7,8-HxCDD	57653-85-7	NC	NC	NC	NC	5.0
1,2,3,4,7,8-HxCDD	39227-28-6	NC	NC	NC	NC	5.0
1,2,3,7,8,9-HxCDD	19408-74-3	NC	NC	NC	NC	5.0
1,2,3,4,6,7,8-HpCDD	35822-46-9	NC	NC	NC	NC	5.0
OCDD	3268-87-9	NC	NC	NC	NC	10
2,3,7,8-TCDF	51207-31-9	NC	NC	NC	NC	1.0
1,2,3,7,8-PeCDF	57117-41-6	NC	NC	NC	NC	5.0
2,3,4,7,8-PeCDF	57117-31-4	NC	NC	NC	NC	5.0
1,2,3,6,7,8-HxCDF	57117-44-9	NC	NC	NC	NC	5.0
1,2,3,7,8,9-HxCDF	72918-21-9	NC	NC	NC	NC	5.0
1,2,3,4,7,8-HxCDF	70648-26-9	NC	NC	NC	NC	5.0
2,3,4,6,7,8-HxCDF	60851-34-5	NC	NC	NC	NC	5.0
1,2,3,4,6,7,8-HpCDF	67562-39-4	NC	NC	NC	NC	5.0
1,2,3,4,7,8,9-HpCDF	55673-89-7	NC	NC	NC	NC	5.0
OCDF	39001-02-0	NC	NC	NC	NC	10

Metals (including Cyanide) in Water

Analyte	CAS Number	Possible Action Limit (µg/L)[a]			Laboratory Reporting Limit (µg/L)[b]	
		EPA RSL (Tapwater)[c]	MCL[d]	EPA RML (Tapwater)[e]	ICP-AES	ICP-MS
Aluminum	7429-90-5	20,000	NC	60,000	200	20
Antimony	7440-36-0	7.8	6.0	23	60	2
Arsenic	7440-38-2	0.052	10	5.2	10	1
Barium	7440-39-3	3,800	2,000	11,000	200	10
Beryllium	7440-41-7	25	4.0	74	5	1
Cadmium	7440-43-9	9.2	5.0	28	5	1
Calcium	7440-70-2	NC	NC	NC	5,000	500
Chromium	7440-47-3	NC	100	NC	10	2
Cobalt	7440-48-4	6.0	NC	18	50	1
Copper	7440-50-8	800	1,300	2,400	25	2
Iron	7439-89-6	14,000	NC	42,000	100	200
Lead	7439-92-1	15	15	15	10	1
Magnesium	7439-95-4	NC	NC	NC	5,000	500
Manganese	7439-96-5	430	NC	1,300	15	1
Nickel	7440-02-0	390	NC	1,200	40	1
Potassium	7440-09-7	NC	NC	NC	5,000	500
Selenium	7782-49-2	100	50	300	35	5
Silver	7440-22-4	94	NC	280	10	1
Sodium	7440-23-5	NC	NC	NC	5,000	500
Thallium[k]	7440-28-0	0.20	2.0	0.60	25	1
Vanadium	7440-62-2	86	NC	260	50	5
Zinc	7440-66-6	6,000	NC	18,000	60	2
					Laboratory Reporting Limit (µg/L)[b]	
Mercury	7439-97-6	0.63	2.0	1.9	0.2	
Cyanide[k]	57-12-5	1.5	200	4.4	10	

Metals (including Cyanide) in Soil, Sediment, and Waste

Analyte	CAS Number	Possible Action Limit (mg/kg)[a]				Laboratory Reporting Limit (mg/kg)[b]	
		EPA RSL (Residential Soil)[c]	EPA RSL (Industrial Soil)[c]	EPA RML (Residential Soil)[e]	EPA RML (Industrial Soil)[e]	ICP-AES	ICP-MS
Aluminum	7429-90-5	77,000	1,100,000	230,000	3,400,000	20	NA
Antimony	7440-36-0	31	470	94	1,400	6	1
Arsenic	7440-38-2	0.68	3.0	68	300	1	0.5
Barium	7440-39-3	15,000	220,000	46,000	650,000	20	5
Beryllium	7440-41-7	160	2,300	470	6,900	0.5	0.5
Cadmium	7440-43-9	71	980	210	2,900	0.5	0.5
Calcium	7440-70-2	NC	NC	NC	NC	500	NA
Chromium	7440-47-3	NC	NC	NC	NC	1	1
Cobalt	7440-48-4	23	350	70	1,000	5	0.5
Copper	7440-50-8	3,100	47,000	9,400	140,000	2.5	1
Iron	7439-89-6	55,000	820,000	160,000	2,500,000	10	NA
Lead	7439-92-1	400	800	400	800	1	0.5
Magnesium	7439-95-4	NC	NC	NC	NC	500	NA
Manganese	7439-96-5	1,800	26,000	5,500	77,000	1.5	0.5
Nickel	7440-02-0	1,500	22,000	4,600	67,000	4	0.5
Potassium	7440-09-7	NC	NC	NC	NC	500	NA
Selenium	7782-49-2	390	5,800	1,200	18,000	3.5	2.5
Silver	7440-22-4	390	5,800	1,200	18,000	1	0.5
Sodium	7440-23-5	NC	NC	NC	NC	500	NA
Thallium	7440-28-0	0.78	12	2.3	35	2.5	0.5
Vanadium	7440-62-2	390	5,800	1,200	17,000	5	2.5
Zinc	7440-66-6	23,000	350,000	70,000	1,100,000	6	1
						Laboratory Reporting Limit (mg/kg)[b]	
Mercury	7439-97-6	11	46	33	140	0.1	
Cyanide	57-12-5	23	150	69	440	0.5	

Notes:

a EPA removal management levels (RML) for water and soil and EPA vapor intrusion screening levels (VISL) for indoor air and sub-slab vapor will be used as the action limits for most sites.

b Laboratory reporting limits are from the EPA Contract Laboratory Program (CLP) Statements of Work unless otherwise noted. Reporting limits for subcontracted laboratories may be lower than the limits listed in this worksheet. CLP reporting limits are available at available under "Target Analytes" at the following locations:
http://www2.epa.gov/clp/organic-analytical-service-within-superfund-contract-laboratory-program
http://www2.epa.gov/clp/inorganic-analytical-service-within-superfund-contract-laboratory-program
http://www2.epa.gov/clp/dioxins-furans-pcbs-and-congeners-analytical-service-within-superfund-contract-laboratory
http://pubweb.epa.gov/superfund/programs/clp/sav1.htm

c EPA regional screening levels (RSL) (EPA 2016a) are available at: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016

d EPA maximum contaminant levels for drinking water are available at: https://www.epa.gov/your-drinking-water/table-regulated-drinking-water-contaminants

e EPA RMLs are based on a target risk of 1.0 E-04 for carcinogens and a target hazard quotient of 3 for non-carcinogens (EPA 2016b). RMLs are available at: http://www2.epa.gov/risk/regional-removal-management-levels-chemicals-rmls

f Reporting limits for subcontracted laboratories are likely to be higher than EPA Tapwater RSLs and RMLs for 1,2-dibromo-3-chloropropane.

g EPA VISLs are based on a target risk of 1.0 E-04 for carcinogens and a target hazard quotient of 3 for non-carcinogens (EPA 2015a). VISLs are available at: http://www2.epa.gov/vaporintrusion

h 2-Chloro-1,3-butadiene (chloroprene) is not reported as a target analyte by most laboratories that analyze volatile organic compounds (VOC) in air by EPA Method TO-15. If reported, laboratory reporting limits are likely to exceed EPA VISLs for air and soil gas.

i SIM reporting limit for 1,2-dibromoethane in air and is for Eurofins Air Toxics, Inc. Other subcontracted laboratories may also be able to achieve reporting limits below EPA VISLs.

j Reporting limit listed is for CT Laboratories LLC and is lower than the EPA Tapwater RML.

k CLP reporting limit is higher than EPA Tapwater RML, but subcontracted laboratories may be able to achieve lower limits. Further, subcontracted laboratories will report results below their reporting limits, but above method detection limits, as estimated. These estimated reported results may be below RMLs.

l Herbicide reporting limits are from SW-846 Method 8151A and are available at: https://www.epa.gov/hw-sw846/sw-846-test-method-8151a-chlorinated-herbicides-gas-chromatography-gc-using-methylation-or

µg/kg	Microgram per kilogram
µg/L	Microgram per liter
$\mu g/m^3$	Microgram per cubic meter
CAS	Chemical Abstract Service
MCL	Maximum contaminant level
mg/kg	Milligram per kilogram
NA	Not available
NC	No criteria

ng/kg	Nanogram per kilogram
NL	Not listed in SW-846 – check with laboratory for reporting limits
pg/L	Picogram per liter
RML	Removal management level
RSL	Regional screening level
SIM	Selected ion monitoring
VISL	Vapor intrusion screening level

Note: EPA RMLs and RSLs in this QAPP revision are from the May 2016 updates; VISLs are from the November 2015 update. Highlighted numbers have changed from previous values.

QAPP WORKSHEET #16
PROJECT SCHEDULE AND TIMELINE

Activity	Organization	Anticipated Start Date	Anticipated Completion Date	Deliverable	Deliverable Due Date
Prepare site-specific SAP	Tetra Tech	Before sampling	TBD	Site-specific SAP	TBD
Prepare HASP	Tetra Tech	Before sampling	TBD	HASP	TBD
Prepare analytical services request	Tetra Tech	Before sampling	TBD	Analytical services request	TBD
Procure field equipment	Tetra Tech	Before sampling	TBD	NA	NA
Complete field reconnaissance	Tetra Tech	Before sampling	TBD	NA	NA
Collect field samples	Tetra Tech	TBD	TBD	NA	NA
Analyze samples	Laboratory	TBD	TBD	Laboratory data package	TBD
Validate laboratory data	Tetra Tech	TBD	TBD	Data validation report	TBD
Prepare TDD report	Tetra Tech	TBD	TBD	TBD	TBD

Notes:

HASP	Health and safety plan
NA	Not applicable
SAP	Sampling and analysis plan
TBD	To be determined
TDD	Technical direction document

Requirements:

Tetra Tech will develop a project-specific schedule for each TDD. Each site-specific SAP will include a schedule showing the anticipated start and completion dates of all major milestones, including field sampling events, laboratory analyses, data validation, and report preparation and submittal. Worksheet #16 is a generic schedule that can be used to develop project-specific schedules.

QAPP WORKSHEET #17
SAMPLING DESIGN AND RATIONALE

Describe and provide a rationale for choosing the sampling approach. Describe the sampling design and rationale in terms of what matrices will be sampled, what analytical groups will be analyzed at what concentration levels, the sampling locations (including QC, critical, and background samples), the number of samples to be taken, and the sampling frequency (including seasonal considerations).

Sampling activities for each project will be outlined in a site-specific sampling and analysis plan (SAP). The SAP will summarize the sample network design and rationale, including: the numbers and types of samples to be collected, sampling locations, sampling frequencies, sample matrices, and measurement parameters. Key factors to be evaluated in the sampling process design include:

- Project objectives and decisions to be made
- Information needed for the decisions and how the information will be used
- Time and resource constraints
- Statistical validity and legal defensibility of the data

Completing this evaluation (1) helps ensure that the analytical results obtained fully support the decisions to be made by data users and (2) maximizes the probability of making correct decisions based on the results.
The sampling network design and rationale will be coordinated with the data quality objective (DQO) process described in Worksheets #10 and 11. The ultimate use of the data, as defined by the DQO process, will help determine whether grab or composite samples should be collected or whether a probability-based (statistical) data collection design or a nonrandom (judgmental) data collection design should be used.
The site-specific SAP will also distinguish between screening data used for information purposes only (noncritical measurements) and definitive data used to meet project objectives (critical measurements). If field screening techniques will be used to identify samples for confirmative laboratory analysis, the site-specific SAP will indicate what techniques will be used and the frequency of confirmative sampling.

The site-specific will include figures showing sampling locations and a summary table of investigative and quality control samples to be collected, similar to the information presented in Worksheet #20.

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QAPP WORKSHEET #18
SAMPLING LOCATIONS AND METHODS/SOP REQUIREMENTS

Matrix	Sampling Location/ID Number	Depth (if applicable)	Analytical Group	Sampling SOP Reference[a]	Rationale for Sampling Location
Groundwater	MW-23	15-20 feet bgs	VOCs	Tetra Tech SOP015-2	Downgradient well
Soil	SS-06	0-6 inches bgs	PCBs	Tetra Tech SOP005-2	Area near transformer spill
Air	AA-02	NA	VOCs	ERT SOP #1704	Area downwind of drums

Notes:

a See Worksheet #21 for identification of sampling SOPs

bgs Below ground surface
ERT Environmental Response Team
NA Not applicable
PCB Polychlorinated biphenyl
SOP Standard operating procedure
VOC Volatile organic compound

Requirements:

Because of the general nature of this QAPP, project-specific sampling method requirements cannot be described. However, Worksheet #18 has been partially completed with example information to illustrate the level of detail required for project-specific sampling and analysis plans (SAP). The project-specific SAP should address:

- Methods used to select sample locations for all sample matrices
- Project-specific modifications to sampling procedures outlined in SOPs
- Sampling equipment for all sample matrices and all sampling locations
- Decontamination procedures for sampling equipment (including drilling equipment)
- Procedures for handling and disposing of investigation-derived wastes such as well construction wastes, decontamination fluids, and disposable sampling equipment
- Procedures for providing unique sample identification numbers to accurately correlate analytical results and field information with sampling locations and field monitoring stations

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QAPP WORKSHEET #19
ANALYTICAL SOP REQUIREMENTS

Matrix	Analytical Group	Concentration Level	Analytical Methods[a]	Sample Volume and Containers	Preservation Requirements	Maximum Holding Time[b] (Preparation/Analysis)
Water	VOCs	Trace, low	SW-846 8260B CLP SOM02.1	Three 40-mL glass vials with Teflon®-lined septum	To pH < 2 with hydrochloric acid; store at 4 degrees C	NA/14 days
Water	SVOC	SIM, low	SW-846 8270D CLP SOM02.1	Two 1,000-mL amber glass bottles with Teflon®-lined caps	Store at 4 degrees C	7 days/40 days
Water	Pesticides and herbicides	NA	SW-846: 8081B, 8151A CLP SOM02.1	Two 1,000-mL amber glass bottles with Teflon®-lined caps	Store at 4 degrees C	7 days/40 days
Water	PCBs	NA	SW-846 8082A CLP SOM02.1	Two 1,000-mL amber glass bottles with Teflon®-lined caps	Store at 4 degrees C	7 days/40 days
Water	Dioxins and furans	NA	SW-846 8290A CLP DLM02.2	Two 1,000-mL amber glass bottles with Teflon®-lined cap	Store at 4 degrees C	30 days/45 days
Water	Metals (except mercury)	ICP-AES, ICP-MS	SW-846 6010C, 6020A CLP ISM01.3	One 1,000-mL glass or polyethylene bottle	To pH < 2 with nitric acid; store at 4 degrees C	NA/180 days
Water	Mercury	NA	SW-846 6010C, 6020A, 7470A CLP ISM02.1	One 1,000-mL glass or polyethylene bottle	To pH < 2 with nitric acid; store at 4 degrees C	NA/28 days
Water	Cyanide	NA	SW-846 9012B CLP ISM02.1	One 1,000-mL glass or polyethylene bottle	To pH > 12 with sodium hydroxide; store at 4 degrees C (if residual chlorine is present, add 0.6 grams of ascorbic acid)	14 days
Water	TCLP VOCs	NA	SW-846 1311/8260B	One 4-ounce glass bottle	Store at 4 degrees C	14 days/14 days
Water	TCLP SVOCs	NA	SW-846 1311/8270D	One 1,000-mL glass bottle	Store at 4 degrees C	14 days/7 days/40 days[c]
Water	TCLP Metals	NA	SW-846 1311/6010C, 6020A, 7470A	One 1,000-mL glass bottle	Store at 4 degrees C	180 days/180 days 28 days/28 days (mercury)

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QAPP WORKSHEET #19 (CONTINUED)
ANALYTICAL SOP REQUIREMENTS

Matrix	Analytical Group	Concentration Level	Analytical Methods[a]	Sample Volume and Containers	Preservation Requirements	Maximum Holding Time[b] (Preparation/Analysis)
Soil, Sediment, Waste	VOCs	Low, medium	SW-846 5035A, 8260B CLP: SOM02.1	(1) Two 40-mL glass vials with Teflon®-lined caps (2) Two pre-labeled, pre-weighed 40-mL glass vials with Teflon®-lined septum caps, containing magnetic stir bars and sodium bisulfate solution (3) Three coring tool samplers containing 5 grams of soil plus one 40-mL glass vile with Teflon®-lined cap	Freeze from -7 to -15 degrees C or store at 4 degrees C	NA/14 days (if frozen) NA/48 hours (if stored at 4 degrees C)
Soil, Sediment, Waste	SVOCs	Low, medium	SW-846 8270D CLP SOM02.1	One 8-ounce glass jar with Teflon®-lined cap	Store at 4 degrees C	14 days/40 days
Soil, Sediment, Waste	Pesticides, herbicides	NA	SW-846 8081B, 8151A CLP SOM02.1	One 8-ounce glass jar with Teflon®-lined cap	Store at 4 degrees C	14 days/40 days
Soil, Sediment, Waste	PCBs	NA	SW-846 8082A CLP SOM02.1	One 8-ounce glass jar with Teflon®-lined cap	Store at 4 degrees C	14 days/40 days
Soil, Sediment, Waste	Dioxins and furans	NA	SW-846 8280B, 8290A CLP DLM02.2	One 8-ounce glass jar with Teflon®-lined cap	Store at 4 degrees C	30 days/45 days
Soil, Sediment, Waste	Metals (except mercury)	ICP-AES, ICP-MS	SW-846 6010C, 6020A CLP ISM02.1	One 8-ounce glass jar	Store at 4 degrees C	NA/180 days
Soil, Sediment, Waste	Mercury	NA	SW-846 6010C, 6020A, 7471B CLP ISM01.3	One 8-ounce glass jar	Store at 4 degrees C	NA/28 days
Soil, Sediment, Waste	Cyanide	NA	SW-846 9012B CLP ISM02.1	One 8-ounce glass jar	Store at 4 degrees C	14 days
Soil, Sediment, Waste	TCLP VOCs	NA	SW-846 1311/8260B	One 8-ounce glass jar with zero headspace	Store at 4 degrees C	14 days/14 days

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QAPP WORKSHEET #19 (CONTINUED)
ANALYTICAL SOP REQUIREMENTS

Matrix	Analytical Group	Concentration Level	Analytical Methods[a]	Sample Volume and Containers	Preservation Requirements	Maximum Holding Time[b] (Preparation/Analysis)
Soil, Sediment, Waste	TCLP SVOCs	NA	SW-846 1311/8270D	One 8-ounce glass jar	Store at 4 degrees C	14 days/7 days/14 days[c]
Soil, Sediment, Waste	TCLP Metals	NA	SW-846 1311/6010C, 6020A, 7471B	One 8-ounce glass jar	Store at 4 degrees C	180 days/180 days 28 days/28 days (mercury)
Air	VOCs	NA	TO-15 CLP SAV01.X	6-liter Summa canister	None	30 days

Notes:

a See Worksheet 23 for analytical methods
b Holding time is measured from the time of sample collection to the time of sample extraction and analysis
c SVOC holding times for Method 1311 include times for leachate/extraction/analysis of sample

C Celsius
CLP Contract Laboratory Program
ICP-AES Inductively coupled plasma-atomic absorption spectrometry
ICP-MS Inductively coupled plasma-mass spectrometry
mL Milliliter
NA Not applicable
PCB Polychlorinated biphenyl
SIM Selected ion monitoring
SVOC Semivolatile organic compound
VOC Volatile organic compound

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QAPP WORKSHEET #20
FIELD QUALITY CONTROL SAMPLE SUMMARY

Matrix	Analytical Group	Analytical SOP Reference[a]	No. of Sampling Locations	No. of Samples	No. of Field Duplicates[b]	No. of MS/MSDs[b]	No. of Equipment Rinsate Blanks[b]	No. of Trip Blanks[b]	Total No. of Samples to Laboratory
Water	VOCs	A1, A2	TBD	TBD	1 in 10	1 in 20	As needed	1 per cooler	TBD
	SVOCs	A1, A5	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Pesticides	A1, A7	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Herbicides	A8	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	PCBs	A1, A6	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Dioxins/furans	A9, A10	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Metals	A11, A12, A13	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Mercury	A11, A14	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Cyanide	A11, A16	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
Soil, sediment, and waste	VOCs	A1, A2	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	SVOCs	A1, A5	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Pesticides	A1, A7	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Herbicides	A8	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	PCBs	A1, A6	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Dioxins/furans	A9, A10	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Metals	A11, A12, A13	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Mercury	A11, A15	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
	Cyanide	A11, A16	TBD	TBD	1 in 10	1 in 20	As needed	NA	TBD
Air	VOCs	A3, A4	TBD	TBD	1 in 10	NA	NA	NA	TBD

Notes:
a See Worksheet #23 for identification of analytical methods
b See discussion of field quality control samples in "Requirements" section below for specific guidelines and frequencies.

MS/MSD Matrix spike/matrix spike duplicate
NA Not applicable
PCB Polychlorinated biphenyl
SOP Standard operating procedure
SVOC Semivolatile organic compound
TBD To be determined
VOC Volatile organic compound

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QAPP WORKSHEET #20
FIELD QUALITY CONTROL SAMPLE SUMMARY

Requirements:

Field QC samples will be collected and analyzed to assess the quality of data generated from sampling activities. These samples may include field duplicates, matrix spike/matrix spike duplicate (MS/MSD) samples, equipment rinsate blanks, and trip blanks.

Field duplicate samples are independent samples collected as close as possible in space and time to the original investigative sample. The field duplicate sample is collected immediately after the original sample, using the same collection method. Care should be taken to collect the field duplicate sample as close to the location of the original sample as possible. Field duplicate samples can measure how sampling and field procedures influence the precision of an environmental measurement. They can also provide information on the heterogeneity of a sampling location. Typically, field duplicates are collected at a frequency of one for every 10 investigative samples of the same matrix type.

MS/MSD samples are typically collected for analysis by organic methods, and often for analysis by inorganic methods. Solid MS/MSDs usually require no extra volume. Liquid MS/MSD samples are usually collected from a single sampling location at triple the normal sample volume. MS and matrix duplicate samples are typically collected for inorganic analysis. The MS sample and matrix duplicate sample are usually collected from a single location at double the normal sample volume. In the laboratory, MS/MSD samples and MS samples are spiked with known amounts of analytes. Matrix duplicate samples are not spiked. Analytical results of MS/MSDs are used to measure the precision and accuracy of the laboratory organic analytical program and MS samples are used to measure the accuracy of the inorganic analytical program. Matrix duplicate sample are used to measure the precision of the inorganic analytical program. Each of these QC samples is typically collected and analyzed at a frequency of one for every 20 investigative samples per matrix.

Equipment rinsate blanks are collected when non-disposable sampling equipment is used. These blanks assess the cleanliness of sampling equipment and the effectiveness of equipment decontamination. Equipment rinsate blanks are collected by pouring analyte-free water over surfaces of cleaned sampling equipment that contact sample media. Equipment rinsate blanks are collected after sampling equipment has been decontaminated but prior to being reused for sampling. Equipment rinsate blanks are typically collected for each type of decontaminated sampling equipment.

Trip blanks are used to assess the potential for sample contamination during handling, shipment, and storage. Trip blanks are sample bottles filled by the analytical laboratory with organic-free water. The trip blanks are sealed and transported to the field; kept with empty sample bottles and then with the investigative samples throughout the field effort; and returned to the laboratory for analysis with the investigative samples. Trip blanks are never opened in the field. One trip blank is usually included within every shipping cooler of liquid samples to be analyzed for VOCs.

Additional field QC samples include field blanks and split samples.

Field blanks are samples of the same or similar matrix as the actual investigative samples that are exposed to the sampling environment or equipment at the time of sampling. They are used to assess contamination resulting from ambient conditions. For aqueous samples, field blanks consist of analyte-free water such as degasified organic-free water for VOC analysis, High-performance liquid chromatography-grade water for SVOC analysis, and deionized or demineralized water for inorganic analyses. Field blanks are generally not required for solid matrices but may be collected on a case-by-case basis. Typically, one field blank is collected for every 10 or fewer liquid investigative samples.

Split samples are usually a set of two or more samples taken from a larger homogenized sample. The larger sample is usually collected from a single sampling location, but can also be a composite sample. Split samples can be sent to two or more laboratories and are used to compare data between the laboratories. Regulatory agencies involved in a project may request that split samples be collected to monitor how closely laboratories are meeting project-specific QA objectives.

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QAPP WORKSHEET #21
PROJECT SAMPLING SOP REFERENCES

Reference Number	SOP Title (and Revision Date or Number	Originating Organization	Equipment Type	Modified for Project Work? (Y/N)	Comments
SOP 001-2	Site Reconnaissance and Characterization (Nov 1999)	Tetra Tech	PPE, survey instruments, logbook	TBD	
SOP 002-3	General Equipment Decontamination (Jun 2009)	Tetra Tech	Scrub brushes, wash tubs, squirt bottles, water, decontamination solutions	TBD	
SOP 003-3	Organic Vapor Air Monitoring (Jul 2009)	Tetra Tech	Survey instruments, calibration gases, logbook	TBD	
SOP 005-2	Soil Sampling (Jun 2009)	Tetra Tech	Spoons, spatulas, triers, shovels, augers, core samplers, sample containers	TBD	
SOP 006-4	Sediment and Sludge Sampling (May 2010)	Tetra Tech	Spoons, spatulas, scoops, coring devices, sample containers	TBD	
SOP 007-2	Bulk Materials Sampling (Dec 1999)	Tetra Tech	Scoops, trowels, triers, spoons, grain thieves, sample containers	TBD	
SOP 008-2	Containerized Liquid, Sludge, and Slurry Sampling (Jan 2000)	Tetra Tech	Glass tubes, COLIWASA, bung remover, sample containers	TBD	
SOP 009-4	Surface Water Sampling (Jun 2009)	Tetra Tech	Dipper, point source bailer, Kemmerer sampler, peristaltic pump, sample containers	TBD	
SOP 010-4	Groundwater Sampling (Jun 2009)	Tetra Tech	Water level indicator, bailers, pumps, sample containers	TBD	
SOP 011-2	Field Measurement of Water Temperature (Nov 1999)	Tetra Tech	Thermometer, sample container, logbook	TBD	
SOP 012-3	Field Measurement of pH (Nov 1999)	Tetra Tech	pH meter, buffer solutions, sample container, logbook	TBD	
SOP 013-2	Field Measurement of Specific Conductance (Nov 1999)	Tetra Tech	Specific conductance meter, standard solutions, thermometer, sample container, logbook	TBD	
SOP 014-1	Static Water Level, Total Well Depth, and Immiscible Layer Measurement (Jul 2009)	Tetra Tech	Electric water level meter	TBD	
SOP 015-2	Groundwater Sample Collection Using Low-Flow Sampling Methodology (Nov 2014)	Tetra Tech	Adjustable flow rate pump, multi-parameter meter, water level indicator, sample containers	TBD	

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QAPP WORKSHEET #21 (CONTINUED)
PROJECT SAMPLING SOP REFERENCES

Reference Number	SOP Title (and Revision Date or Number	Originating Organization	Equipment Type	Modified for Project Work? (Y/N)	Comments
SOP-019-7	Packaging and Shipping Samples (Nov 2014)	Tetra Tech	Coolers; ice; packing materials; tape; plastic bags for samples and to line cooler; custody forms and seals		
SOP 020-4	Monitoring Well Installation (Apr 2009)	Tetra Tech	Tremie pipe and funnel; bentonite pellets; grouting supplies; casing, well screen, filter pack, and surface completion materials	TBD	
SOP 021-4	Monitoring Well Development (Jun 2009)	Tetra Tech	Pumps, air compressors, bailers, surge blocks	TBD	
SOP 024-2	Recording Notes in Field Logbooks (Nov 2014)	Tetra Tech	Logbook, pen with permanent ink	TBD	
SOP-030-0	Aquifer Pump Testing (Nov 2014)	Tetra Tech	Submersible pump, electric water level indicator, pressure transducer, electronic data logger, stop watch, logbook	TBD	
SOP-031-0	Aquifer Slug Testing (Nov 2014)	Tetra Tech	Tape measure, pressure transducer, electric water level indicator, slug of known volume, stop watch, logbook	TBD	
SOP 052-1	Measurement of Stream or Pond Stage (Dec 1999)	Tetra Tech	Standard staff gauge, wire-weight gauge, logbook	TBD	
SOP 061-2	Field Measurement of Groundwater Indicator Parameters (Jul 2009)	Tetra Tech	Multi-parameter water quality measuring system, standard solutions, logbook	TBD	
SOP 064-2	Calibration of Air Sampling Pump (Nov 1999)	Tetra Tech	Air sampling pump, digital calibrator	TBD	
SOP 065-0	Colorimetric Indicator Detectors (Dräeger Tubes) (Nov 1999)	Tetra Tech	Dräeger tubes, hand pump, logbook	TBD	
SOP 073-1	Air Quality Monitoring (Nov 1999)	Tetra Tech	Air sampling pump with collection media, Summa canister	TBD	
SOP 074-2	Soil Gas Sampling Methods (Jul 2009)	Tetra Tech	Sampling pump, port, line; or Summa canister with pump for purging	TBD	
SOP# 1704	Summa Canister Sampling (Nov 2015)	EPA ERT	Summa canisters, flow controllers, vacuum gauges	TBD	
SOP #1720	Operation of the Niton XLt792YW Field Portable X-Ray Fluorescence Instrument (Dec 2015)	EPA ERT	Niton XRF analyzer, battery pack, battery charger, soil sampling accessories	TBD	
SOP #1733	Area Clearance for Indoor Mercury Spills (Mar 2015)	EPA ERT	Direct-reading mercury vapor instrument with data logging capability	TBD	

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QAPP WORKSHEET #21 (CONTINUED)
PROJECT SAMPLING SOP REFERENCES

Reference Number	SOP Title (and Revision Date or Number	Originating Organization	Equipment Type	Modified for Project Work? (Y/N)	Comments
SOP #2004	Sample Packing and Shipping (Jun 2015)	EPA ERT	Coolers; ice; packing materials; tape; plastic bags for samples and to line cooler; custody forms and seals	TBD	
SOP #2006	Sampling Equipment Decontamination (Dec 2015)	EPA ERT	Scrub brushes, wash tubs, water, decontamination solutions	TBD	
SOP #2007	Groundwater Well Sampling (Jun 2015)	EPA ERT	Water level indicator, bailers, pumps, tubing, sample containers	TBD	
SOP #2008	General Air Sampling Guidelines (Nov 1994)	EPA ERT	Direct reading instruments, logbook	TBD	
SOP #2009	Drum Sampling (Nov 1994)	EPA ERT	Drum opening devices, bung wrench, glass thieving tubes or COLIWASA, overpack materials	TBD	
SOP #2010	Tank Sampling (Nov 1994)	EPA ERT	Weighted tape line, sludge judge, glass thieves, bailers, COLIWASA, sample containers	TBD	
SOP #2011	Chip, Wipe, and Sweep Sampling (Aug 2015)	EPA ERT	Brush, chisel, sample containers	TBD	
SOP #2012	Soil Sampling (Jul 2001)	EPA ERT	Spades, shovels, spatulas, scoops, spoons, trowels, augers, tube samplers, split spoons, sample containers	TBD	
SOP #2013	Surface Water Sampling (Feb 2002)	EPA ERT	Kemmerer bottles, dip sampler, sample containers	TBD	
SOP #2015	Asbestos Sampling (Nov 1994)	EPA ERT	Sampling pumps, batteries, filter cassettes	TBD	
SOP #2016	Sediment Sampling (Nov 2001)	EPA ERT	Spades, shovels, scoops, trowels, augers, sediment coring devices, dredges, sample containers	TBD	
SOP #2017	Waste Pile Sampling (Mar 2002)	EPA ERT	Spades, shovels, scoops, spoons, trowels, tube samplers, triers, sample containers	TBD	
SOP #2037	Terrestrial Plant Community Sampling (Oct 1994)	EPA ERT	Stakes, plot frames, shovels, pruning shears or knives, plant field guide	TBD	
SOP #2038	Vegetation Assessment Field Protocol (Jun 1996)	EPA ERT	Stakes of flags, shovels, soil moisture/pH probe, pruning shears or knives, plant field guide	TBD	
SOP #2042	Soil Gas Sampling (Apr 2001)	EPA ERT	Soil gas probe, vacuum box, Tedlar bags, tubing and fittings, Summa canisters	TBD	

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QAPP WORKSHEET #21 (CONTINUED)
PROJECT SAMPLING SOP REFERENCES

Reference Number	SOP Title (and Revision Date or Number	Originating Organization	Equipment Type	Modified for Project Work? (Y/N)	Comments
SOP #2043	Manual Water Level Measurements (May 2013)	EPA ERT	Well depth measurement device, logbook or data forms	TBD	
SOP #2044	Monitoring Well Development (Jun 2015)	EPA ERT	Air compressors, pumps, air lines, surge blocks, generators	TBD	
SOP #2045	Controlled Pumping Tests (May 2015)	EPA ERT	Submersible pump, electric water level indicator, pressure transducer, electronic data logger, stop watch, logbook	TBD	
SOP #2046	Slug Tests (Dec 2015)	EPA ERT	Tape measure, pressure transducer, electric water level indicator, slug of known volume, stop watch, logbook	TBD	
SOP #2048	Monitor Well Installation (Jul 2001)	EPA ERT	Tremie pipe and funnel; bentonite pellets; grouting supplies; casing, well screen, filter pack, and surface completion materials	TBD	
SOP #2049	Investigation Derived Waste Management (Oct 2015)	EPA ERT	Drums, buckets, trash bags, containers, decontamination supplies	TBD	
SOP #2050	Operation of the Model 6620 GT Geoprobe (Jun 2015)	EPA ERT	Geoprobe sampling device, threaded rods, drive caps, slotted well points, mini-bailers, tubing, sample containers	TBD	
SOP #2056	Operation of Ground Penetrating Radar (Sep 2010)	EPA ERT	GPR system with antennae, cables, batteries, data logger	TBD	
SOP #2074	Field Description of Soil and Sediment Borings (Dec 2015)	EPA ERT	Coring device, spatula, tape measure, Munsell color charts, logbook	TBD	
SOP #2082	Construction and Installation of Permanent Sub-Slab Soil Gas Wells (Mar 2007)	EPA ERT	Hammer drill or rotary hammer, extension cord, portable vacuum cleaner, tubing, fittings	TBD	
SOP #2084	Activity-Based Air Sampling for Asbestos (May 2007)	EPA ERT	Personal air sampling pumps, high volume pumps, filter cassettes, tubing	TBD	
SOP #2101	Retrieving Meteorological Information (Dec 1994)	EPA ERT	Remote meteorological station, computer connection	TBD	
SOP #2102	Tedlar Bag Sampling (Sep 2001)	EPA ERT	Vacuum box, pumps, Tedlar bags, tubing, fittings	TBD	
SOP #2103	Charcoal Tube Ambient Air Sampling (Oct 1994)	EPA ERT	Air sampling pumps, charcoal tubes, tubing, fittings, air sampling data sheets	TBD	
SOP #2104	Tenax/CMS Tube Sampling (Oct 1994)	EPA ERT	Air sampling pumps, Tenax/CMS tubes, tubing, fittings, air sampling data sheets	TBD	

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QAPP WORKSHEET #21 (CONTINUED)
PROJECT SAMPLING SOP REFERENCES

Reference Number	SOP Title (and Revision Date or Number	Originating Organization	Equipment Type	Modified for Project Work? (Y/N)	Comments
SOP #2119	Air Sampling for Metals [NIOSH Method 7300 Elements] (Aug 2001)	EPA ERT	Air sampling pumps, filter cassettes, tubing, fittings, air sampling data sheets	TBD	
SOP #2121	High Volume Polyurethane Foam Sampling (Aug 1995)	EPA ERT	PUF samplers, sample modules, calibration device, air sampling data sheets	TBD	
SOP #2130	Operation of DryCal DC-Lite Primary Flow Calibrator (Dec 2015)	EPA ERT	Flow calibrator, tubing, charger, instruction manual	TBD	
SESDPROC-305-R3	Potable Water Supply Sampling (May 2013)	EPA Region 4	Sample containers, logbook, custody forms, packaging and shipping materials	TBD	

Notes:

ERT Environmental Response Team
SOP Standard operating procedure
TBD To be determined

Requirements:

Sampling methods and equipment will be selected to meet project objectives. Affected media may include groundwater, surface water, sediment, surface and subsurface soils, wastes, process materials, and air. Field parameters (such as pH, specific conductance, oxidation-reduction potential, temperature, dissolved oxygen content, meteorological parameters, and water elevation) may also be measured to assist in carrying out sampling procedures effectively.

To the extent possible, Tetra Tech will rely on EPA-approved methods for sample collection and field measurements. EPA-approved sampling methods selected for use will be referenced in the site-specific SAP. These include methods developed by EPA's Environmental Response Team (ERT) and the EPA Region 4 Science and Ecosystem Support Division (SESD). ERT SOPs are available on line at the following addresses (EPA 2016c):

https://www.epaosc.org/site/doc_list.aspx?site_id=2107&category=Field%20Activities
https://www.epa.gov/quality/quality-system-and-technical-procedures-sesd-field-branches

If an EPA-approved sampling method is not available, or a non-standard sampling method is required, Tetra Tech will use an internal SOP or will describe the sampling method in the site-specific SAP. The Tetra Tech SOPs listed in Worksheet #21 were reviewed in accordance with an internal QC program. Many of these SOPs have been reviewed and approved by EPA as portions of QAPPs and SAPs prepared under various Tetra Tech contracts and have been successfully implemented by Tetra Tech in the field.

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QAPP WORKSHEET #22
FIELD EQUIPMENT CALIBRATION, MAINTENANCE, TESTING, AND INSPECTION

Field Equipment	Calibration Activity	Maintenance Activity	Testing/Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Responsible Person
MultiRAE PRO w/ppB Sensor (Non-wireless)	Zero unit in ambient air or with Zero value calibration gas; span calibrate the LEL/O2/H2S/CO sensors using quad mix calibration gas. Span calibrate PID sensor with Isobutylene calibration gas.	Check pump flow with Bios calibrator to ensure appropriate flow; change moisture filter routinely	Bump test	Prior to each day's activity; any anomaly suspected	Calibration acceptable within +/- 2% of span gas value	Replace battery or replace unit	Equipment vendor
MiniRAE 3000	Zero calibrate unit in ambient air or with Zero value calibration gas. Span calibrate PID senor using Isobutylene 100ppm span gas	Check / Replace battery / Clean tip or bulb if necessary; Check pump flow with Bios calibrator to ensure appropriate flow; change moisture filter routinely	Bump Test	Prior to each day's activity; any anomaly suspected	Calibration acceptable within +/- 2% of span gas value	Replace battery or replace unit	Equipment vendor
UltraRAE 3000	Zero calibrate unit in ambient air or with Zero value calibration gas. Use 1 benzene SEP tube and calibrate span to 5 ppm benzene concentration	Check / Replace battery / Clean tip or bulb if necessary; Check pump flow with Bios calibrator to ensure appropriate flow; change moisture filter routinely	Bump Test	Prior to each day's activity; any anomaly suspected	Calibration acceptable within +/- 2% of span gas value	Replace battery or replace unit	Equipment vendor

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QAPP WORKSHEET #22 (CONTINUED)
FIELD EQUIPMENT CALIBRATION, MAINTENANCE, TESTING, AND INSPECTION

Field Equipment	Calibration Activity	Maintenance Activity	Testing/Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Responsible Person
Thermo Scientific TVA 1000B	Annual manufacturer's calibration	Check calibration date on tag or sticker; need rechargeable NiCd battery	NA	Prior to each day's activity; any anomaly suspected	FID: zero <5000 counts Span Counts= 175-250 per ppm methane PID: zero <2000 counts Span Counts= 3500-6000 per ppm isobutylene (response factors)	Check batteries, bulbs, and filters; service if needed	Equipment vendor
Thermo Scientific PDR-1000	Place in included zero bag. Run zero-calibration function. Automatically counts down to zero.	Used compressed air to blow inside optical chamber to remove excess particle residue. If post calibration readings result in "Background Too High" message additional cleaning is required with isopropyl alcohol and cotton swab.	Test battery and memory check using internal menu options	Prior to each day's activity; any anomaly suspected	FID: zero <5000 counts Span Counts= 175-250 per ppm methane PID: zero <2000 counts Span Counts= 3500-6000 per ppm isobutylene (response factors)	Check batteries, bulbs, and filters; service if needed	Equipment vendor
GPS (Trimble Geo XT)	None	Data extraction and post-processing	Turn unit on. Start GPS program. Synchronize with satellites.	Prior to use	NA	NA	Equipment vendor
Ludlum Micro-R Meter - Model 19	Annual factory calibration	Replace alkaline batteries when required	Replace alkaline batteries when required	Prior to use	Within range: 0 to 5,000 µR/hr No alarm	Check batteries, Cesium 137 1 µCi, check source	Equipment vendor
Ludlum 192	Annual factory calibration	Replace alkaline batteries when required	Replace alkaline batteries when required	Prior to use	Within range: 0 to 5,000 µR/hr Alarm fixed and deviation	Check batteries, Cesium 137 1 µCi, check source	Equipment vendor

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QAPP WORKSHEET #22 (CONTINUED)
FIELD EQUIPMENT CALIBRATION, MAINTENANCE, TESTING, AND INSPECTION

Field Equipment	Calibration Activity	Maintenance Activity	Testing/Inspection Activity	Frequency	Acceptance Criteria	Corrective Action	Responsible Person
Dräeger Accuro 2000 Pump	None	None	Squeeze hand pump and place finger over tube chamber to ensure suction and no air leaks.	Prior to use	No leaks	Return to equipment vendor for replacement	Equipment vendor
Lumex 915+	Annual factory calibration	Replace alkaline batteries when required	Replace alkaline batteries when required	Prior to use	<20 %R of the S_k (based on saturated mercury vapor tables) deviation	If %R (based on the S_k value and the readings by the analyzer) is above 20% call tech support	Equipment vendor
Horiba U-52	Vendor will calibrate meter before rental pick up	Replace alkaline batteries when required	Test pH and conductivity using standard buffer solutions	Prior to Use	Unit automatically identifies out-of-calibration results. Calibration accepted within range of standard solutions.	Recalibrate or return to vendor	Equipment vendor
Gil Air 5 with 5 unit base charger	Use with Bios Flow Calibrator to monitor air flow. Use screwdriver to adjust air flow to desired rate.	Use with Bios Flow Calibrator to monitor air flow. Use screwdriver to adjust air flow to desired rate.	Run pump for 8-hour period to ensure battery life remains greater than 8 hours.	After use	Failure to maintain charge for 8-hour period	Return to equipment vendor for replacement	Equipment vendor
Bios Defender - M	Annual factory calibration	Place unit on charge routinely	Connect to air sampling pump to ensure flow testing capability	Occasionally; any anomaly suspected	Inconsistent calibration results	Return to equipment vendor for replacement	Equipment vendor

Notes:

%R Percent recovery
µCi Microcurie
µR Microrad
FID Flame ionization detector
GPS Global positioning system
NA Not applicable
NiCd Nickel-cadmium
PID Photoionization detector
ppm Part per million

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Requirements:

General requirements for testing, inspection, and maintenance procedures for the START contract are as follows. Testing, inspection, and maintenance methods and frequency will be based on the type of instrument; its stability characteristics; the required accuracy, sensitivity, and precision; its intended use, considering project-specific data quality objectives (DQO); manufacturer's recommendations; and other conditions affecting measurement or operational control. For most instruments, preventive maintenance is performed according to procedures and schedules recommended in (1) the instrument manufacturer's literature or operating manual or (2) standard operating procedures (SOP) associated with particular applications of the instrument. In such cases, site-specific sampling and analysis plans (SAP) will reference these documents for the testing, inspection, and maintenance procedures and schedules to be used. The site-specific SAP will also reference these documents or will describe how the availability of critical spare parts will be assured and maintained for instruments used for the project. In some cases, testing, inspection, and maintenance procedures and schedules may differ from the manufacturer's specifications or SOPs. This can occur when a field instrument is used to make critical measurements. In these situations, any special testing, inspection, and maintenance procedures and schedules will be outlined in the site-specific SAP.

Any field instrument that is in disrepair or is out of calibration must be segregated, clearly marked, and not used until it is repaired and recalibrated. If an instrument is repeatedly broken or out of calibration, the instrument must be replaced or repaired so that it is in good working order. When the condition of an instrument is suspect, unscheduled testing, inspection, and maintenance should be conducted. Adherence to these field preventive maintenance practices is subject to verification during performance and system audits.

Field Environmental Instruments, Inc. (Field), Tetra Tech's team subcontractor, will provide most of the field equipment and instruments that will be used under the START contract. Field is responsible for (1) thoroughly checking and calibrating each instrument before shipment to the field and (2) including instructions for field calibration, testing, and maintenance of each instrument shipped. Once in the field, Tetra Tech field team leaders assume responsibility for testing, inspection, and maintenance of field instruments and equipment.

Field equipment and instruments will be inspected for damage upon arrival in the field. Damaged equipment and instruments will be immediately replaced or repaired. Battery-operated equipment will be checked to assure full operating capacity; if needed, batteries are recharged or replaced. Critical spare parts such as tape, paper, pH probes, electrodes, batteries, and battery chargers will be kept on site to minimize equipment downtime. Backup instruments, equipment, and additional spare parts will be available on site or can be shipped to the site within 1 day to avoid delays in the field schedule.

Equipment used for field measurements under the START contract will be maintained and calibrated with sufficient frequency and in such a manner that the accuracy and reproducibility of results are consistent with the manufacturer's specifications and with project-specific DQOs. As noted above, Field will have primary responsibility for initial equipment calibrations before shipping the instruments to the field. The manufacturer's operating manual and instructions that accompany the equipment will be consulted to ensure that all calibration procedures are followed. Calibration procedures, frequency, standards, control limits, and corrective action for commonly used field equipment are also addressed in the SOPs listed in Worksheet #21.

Following use, field equipment will be properly decontaminated prior to being returned to the equipment vendor. When the equipment is returned, copies of any field notes regarding equipment problems will be included so that problems are not overlooked and any necessary equipment repairs are carried out.

QAPP WORKSHEET #23
ANALYTICAL SOP REFERENCES

Reference Number	Title, Revision, Date, and/or Number[a]	Definitive or Screening Data	Analytical Group	Instruments	Organization Performing Analysis[b]	Modified for Project Work?[b]
A1	SOM02.3 (EPA Contract Laboratory Program Statement of Work for Organic Superfund Methods, Multi-Media, Multi-Concentration, September 2015)	Definitive	VOCs, SVOCs, PCBs, Pesticides	GC/ECD, GS/MS	TBD	TBD
A2	SW-846 8260B (Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry)	Definitive	VOCs	GC/MS	TBD	TBD
A3	SAV01.X (EPA Contract Laboratory Program Statement of Work for Volatile Organics Analysis in Air, June 2008)	Definitive	VOCs	GC/MS	TBD	TBD
A4	TO-15 (Determination Of Volatile Organic Compounds [VOCs] In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/ Mass Spectrometry, January 1999)	Definitive	VOCs	GC/MS	TBD	TBD
A5	SW-846 8270D (Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry)	Definitive	SVOCs	GS/MS	TBD	TBD
A6	SW-846 8082A (Polychlorinated Biphenyls [PCBs] by Gas Chromatography)	Definitive	PCBs	GC/ECD	TBD	TBD
A7	SW-846 8081B (Organochlorine Pesticides by Gas Chromatography)	Definitive	Pesticides	GC/ECD	TBD	TBD
A8	SW-846 8151A (Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzylation Derivatization)	Definitive	Herbicides	GC/ECD	TBD	TBD
A9	DLM02.2 (EPA Analytical Services Branch Statement of Work for Analysis of Chlorinated Dibenzo-p-dioxins [CDDs] and Chlorinated Dibenzofurans [CDFs], Multi-Media, Multi-Concentration, December 2009)	Definitive	Dioxins/furans	HRGC/HRMS	TBD	TBD
A10	SW-846 8290A (Polychlorinated Dibenzodioxins [PCDDs] and Polychlorinated Dibenzofurans [PCDFs] by High-Resolution Gas Chromatography/High-Resolution Mass Spectrometry)	Definitive	Dioxins/furans	HRGC/HRMS	TBD	TBD

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QAPP WORKSHEET #23 (CONTINUED)
ANALYTICAL SOP REFERENCES

Reference Number	Title, Revision, Date, and/or Number[a]	Definitive or Screening Data	Analytical Group	Instruments	Organization Performing Analysis[b]	Modified for Project Work?[b]
A11	ISM02.3 (EPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods, Multi-Media, Multi-Concentration, September 2015)	Definitive	Metals (including mercury and cyanide)	ICP-AES, ICP-MS, CVAA, Spectrophotometer	TBD	TBD
A12	SW-846 6010C (Inductively Coupled Plasma-Atomic Emission Spectrometry)	Definitive	Metals (including mercury)	ICP-AES	TBD	TBD
A13	SW-846 6020A (Inductively Coupled Plasma-Mass Spectrometry)	Definitive	Metals (including mercury)	ICP-MS	TBD	TBD
A14	SW-846 7470A (Mercury in Liquid Waste – Manual Cold-Vapor Technique)	Definitive	Mercury	CVAA	TBD	TBD
A15	SW-846 7471B (Mercury in Solid or Semisolid Waste – Manual Cold-Vapor Technique)	Definitive	Mercury	CVAA	TBD	TBD
A16	SW-846 9012B (Total and Amenable Cyanide – Automated Colorimetric, with Off-Line Distillation)	Definitive	Cyanide	Spectrophotometer	TBD	TBD

Notes:

a EPA Contract Laboratory Program (CLP) analytical methods are available at: http://www2.epa.gov/clp/contract-laboratory-program-analytical-statements-work-sows
EPA SW-846 analytical methods are available at: http://www3.epa.gov/epawaste/hazard/testmethods/sw846/online/
EPA Toxic Organic Compendium (TO) analytical methods are available at: http://www.epa.gov/ttn/amtic/airtox.html

b The site-specific SAP will identify the laboratories that have been selected to provide analytical services and whether analytical methods must be modified to meet TDD objectives. Laboratories that might analyze samples include the EPA Region 5 Central Regional Laboratory (CRL), EPA CLP laboratories, and subcontracted laboratories.

CDD	Chlorinated dibenzo-p-dioxin
CDF	Chlorinated dibenzofuran
CVAA	Cold vapor atomic absorption
GC/ECD	Gas chromatography/electron capture detector
GC/MS	Gas chromatography/mass spectrometry
HRGC/HRMS	High-resolution gas chromatography/high-resolution mass spectrometry
ICP/AES	Inductively coupled plasma/atomic absorption spectrometry
ICP/MS	Inductively coupled plasma/mass spectrometry
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzo-p-dioxin
PCDF	Polychlorinated dibenzofuran
SVOC	Semivolatile organic compound
TBD	To be determined
VOC	Volatile organic compound

QAPP WORKSHEET #23 (CONTINUED)
ANALYTICAL SOP REFERENCES

Requirements:

Laboratory analytical methods will vary with each investigation conducted under the START contract and will be identified in the site-specific SAP. To select appropriate methods for sample preparation, cleanup, and analysis, Tetra Tech will consider the specific parameters of interest, sample matrices, and minimum detectable concentrations needed to accomplish project DQOs. Whenever possible, Tetra Tech will select methods from SW-846 (EPA 2009b), CLP statements of work (EPA 2008, 2009c, 2009d, 2015b, and 2015c, EPA Toxic Organic methods (EPA 1999), or the most recent updates). If these sources do not include an analytical method consistent with DQOs, Tetra Tech will review other EPA-approved methods such as those specified in *Methods for Chemical Analysis of Water and Wastes* (EPA 1983).

When EPA-approved methods are not available or appropriate for project-specific requirements, other recognized standard analytical methods, such as those published by the American Public Health Association (APHA), American Society for Testing and Materials (ASTM), or the National Institute for Occupational Safety and Health (NIOSH), may be used. Guidance documents containing these analytical methods include:

- Standard Methods for the Examination of Water and Waste Water (APHA 2012)
- ASTM Annual Book of Standards (ASTM 2014)
- NIOSH Manual of Analytical Methods (NIOSH 2003)

The published methods mentioned above are updated at various time intervals. Unless otherwise stated, laboratories conducting work under the START contract will use the most current version of any specified analytical method.

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QAPP WORKSHEET #24
ANALYTICAL INSTRUMENT CALIBRATION

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference[a]
GC/ECD	Pesticides: Run five calibration standard solutions and a blank PCBs: Run five calibration standard solutions and a blank	12-hour continuing calibration acceptance criteria	Always, resolution per SOP Initial, CF RSD ≤ 20% Continuing, CF %D ≤ 15 for opening and ≤ 50 for closing	Inspect the system for problems, change the column, bake out the detector, clean the injection port, and take other CAs to achieve the acceptance criteria.	Laboratory Analyst	A1, A6, A7, A8
GC/MS	VOCs: Run five calibration standard solutions and a blank SVOCs: Run five calibration standard solutions and a blank	12-hour continuing calibration acceptance criteria	Always, RRF ≥ 0.010 or per SOP Initial, RSD ≤ 20% or 40%, depending on compound. Continuing, %D ≤ 25 or 40 depending on compound	Inspect the system for problems, clean the ion source, change the column, service the purge and trap device, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A1, A2, A5
GC/MS	Run five calibration standard solutions and a blank	24- hour continuing calibration acceptance criteria	Always, RRF ≥ 0.010 or per SOP Initial, RSD ≤ 30%, but one or two analytes may be ≤40%. Continuing, %D ≤ 30%, tracked on control chart	Inspect the system for problems, clean the ion source, change the column, service the purge and trap device, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A3, A4
HRGC/HRMS	Run five calibration standard solutions and a blank	12-hour continuing calibration acceptance criteria	Always, S/N ≥10, ion abundance ratios per SOP Initial, RSD ≤20% Continuing, RSD ≤20% (unlabeled compounds) and ≤30% (labeled compounds)	Inspect the system for problems, clean the ion source, change the column, service the purge and trap device, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A9, A10
ICP-AES	Daily calibration curve with at least blank and five standard solutions. Curve must have correlation coefficient of at least 0.998.	Each CCV analyzed shall reflect the conditions of analysis of all associated analytical samples (the preceding 10 analytical samples or the preceding analytical samples up to the previous CCV)	Deviation from the initial calibration verification: metals 90-110%	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A12

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QAPP WORKSHEET #24 (CONTINUED)
ANALYTICAL INSTRUMENT CALIBRATION

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference[a]
ICP-MS	Daily calibration curve with at least blank and five standard solutions. Curve must have correlation coefficient of at least 0.998.	Each CCV analyzed shall reflect the conditions of analysis of all associated analytical samples (the preceding 10 analytical samples or the preceding analytical samples up to the previous CCV)	Deviation from the initial calibration verification: metals 90-110%	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A13
CVAA, AAS	Daily calibration curve with at least blank and three standards solutions. Curve must be linear and have a correlation coefficient of at least 0.995.	Verify calibration curve at the end of each analysis batch and/or after every 10 samples using a continuing calibration blank (CCB) and CCV standard	CCV standard within ±10% of its true value and the CCB must not contain target analytes at or above quantitation limit	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A14, A15
Spectrophotometer	Run at least six calibration standard solutions and a blank. Calibration curve must be linear and have a correlation coefficient of at least 0.995.	Daily or once every 24 hours, each time the instrument is set up, or after any calibration failure.	Deviation from the ICV or CCV within 85-115%	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A16

Notes:

a See Worksheet #23 for identification of analytical methods

%D Percent difference
AAS Atomic adsorption spectrophotometry
CCB Continuing calibration blank
CCV Continuing calibration verification
CF Calibration factor
CVAA Cold vapor atomic adsorption
GC/ECD Gas chromatography/electron capture detector
GC/MS Gas chromatography/mass spectrometry
HPLC High performance liquid chromatography
ICE-AES Inductively coupled plasma/atomic emission spectrometry
ICP-MS Inductively coupled plasma/mass spectrometry

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ICV	Initial calibration verification
PCB	Polychlorinated biphenyl
RSD	Relative standard deviation
RRF	Relative response factor
S/N	Signal-to-noise ratio
SOP	Standard operating procedure
SVOC	Semivolatile organic compound
VOC	Volatile organic compound

Requirements:

Laboratory equipment used to analyze samples collected under the START contract will be calibrated based upon written SOPs maintained by the laboratory. Calibration records (including the dates and times calibration and the names of the personnel performing the calibration) will be filed at the location where the analytical work is performed and maintained by the laboratory personnel performing QC activities. Calibration records will be subject to QA audits. Laboratory analyses under the START contract may be conducted by the EPA Region 5 Central Regional Laboratory (CRL), Contract Laboratory Program (CLP) laboratories, or subcontractor laboratories. The laboratory QA managers are responsible for ensuring that laboratory instruments are calibrated in accordance with the requirements in this QAPP and in any site-specific SAP.

When analyses are conducted in accordance with SW-846 or CLP methods, calibration procedures and frequencies specified in the relevant method should be followed as closely as possible. The site-specific SAP should provide any additional calibration requirements (such as equipment requiring calibration, calibration procedures, requirements for calibration standards, requirements for maintaining calibration records and traceability, calibration frequency, acceptance criteria, number of calibration points, and internal or external standards) that deviate from or are not specified in the published EPA-approved method. Such deviations will be outlined in the site-specific SAP or in an appendix as part of a laboratory SOP.

For analytical methods that are not EPA-approved, a complete SOP including the calibration procedures for the method will be included as an appendix to the site-specific SAP. Laboratory SOPs describing calibration procedures for such non-standard methods should include the following information:

- Detailed calibration procedure for each instrument used
- Internal standard or external standard calibration requirements and procedures
- Calibration requirements for confirmatory results (second column, second detector, mass spectral confirmation, and so forth)
- Frequency of calibration and continuing calibration checks
- Number of calibration standards used, concentrations, and preparation methods
- Traceability of calibration standards and continuing calibration check standards
- Numerical acceptance criteria for initial calibration and continuing calibration checks
- Corrective action procedures for situations where calibration procedures are not performed properly, or calibration acceptance criteria are not met
- Instructions for recording calibration information and results, including information to be recorded and where information is recorded and stored

QAPP WORKSHEET #25
ANALYTICAL INSTRUMENT AND EQUIPMENT MAINTENANCE, TESTING, AND INSPECTION

Instrument/ Equipment	Maintenance Activity	Inspection Activity	Frequency	Acceptance Criteria	Corrective Action (CA)	Responsible Person	SOP Reference[a]
GC/ECD	Daily check, calibration verification	Injector syringe, injector septum, injector liner/seal, injector port, guard column, column splitter, analytical column, ion source, detector, traps, and gas supply	Daily before use	See A1, A6, A7, A8	Inspect the system for problems, change the column, bake out the detector, and clean the injection port.	Laboratory Analyst	A1, A6, A7, A8
GC/MS	Daily check, instrument tune with bromofluorobenzene (VOC) or Decafluorotriphenylphosphine (SVOC)	Injector syringe, injector septum, injector liner/seal, injector port, guard column, column splitter, analytical column, ion source, detector, traps, and gas supply	Daily before use	See A1, A2, A5	Inspect the system for problems, clean the ion source, change the column, and service the purge and trap device.	Laboratory Analyst	A1, A2, A5
GC/MS	Daily check, instrument tune with bromofluorobenzene	Injector syringe, injector septum, injector liner/seal, injector port, guard column, column splitter, analytical column, ion source, detector, traps, and gas supply	Daily before use	See A3, A4	Inspect the system for problems, clean the ion source, change the column, and service the sample injection port.	Laboratory Analyst	A3, A4
HRGC/HRMS	Daily check instrument tune with PFK. Before initial calibration, verify SIM mass spectral data acquisition with performance check solution.	Injector syringe, injector septum, injector liner/seal, injector port, guard column, column splitter, analytical column, ion source, detector, traps, and gas supply	Daily before use	See A9, A10	Inspect the system for problems, clean the ion source, change the column, and service the sample injection port.	Laboratory Analyst	A9, A10
ICP-AES	Daily check, calibration verification	Nebulizer, injection tube, plasma optimization, gas supply, and detector	Daily before use	See A11, A12	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A12

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QAPP WORKSHEET #25 (CONTINUED)
ANALYTICAL INSTRUMENT AND EQUIPMENT MAINTENANCE, TESTING, AND INSPECTION

Instrument/ Equipment	Maintenance Activity	Inspection Activity	Frequency	Acceptance Criteria	Corrective Action (CA)	Responsible Person	SOP Reference[a]
ICP-MS	Daily check, calibration verification	Nebulizer, injection tube, plasma optimization, gas supply, and detector	Daily before use	See A11, A13	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A13
CVAA, AAS	Daily check, calibration verification	Nebulizer, injection tube, flame optimization, gas supply, and detector	Daily before use	See A11, A14, A15	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria.	Laboratory Analyst	A11, A14, A15
Spectrophotometer	Daily check, calibration verification	Check connections, valves/flow rates, temperature settings, and other items specified by instrument manufacturer	Daily before use	See A11, A16	Inspect the system for problems, clean the system, verify operating conditions, and take CAs to achieve the technical acceptance criteria	Laboratory Analyst	A11, A16

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Notes:

a See Worksheet #23 for identification of analytical methods.

AAS	Atomic adsorption spectrometry
CA	Corrective action
CVAA	Cold vapor atomic adsorption
GC/ECD	Gas chromatography/electron capture detector
GC/MS	Gas chromatography/mass spectrometry
HRGC/HRMS	Inductively coupled plasma/atomic emission spectrometry
HPLC	High performance liquid chromatography
ICE-AES	Inductively coupled plasma/atomic emission spectrometry
ICP-MS	Inductively coupled plasma/mass spectrometry
PFK	Perfluorokerosene
SIM	Selected ion monitoring

Requirements:

Laboratories conducting analyses of samples collected under the START contract are required to have a preventative maintenance program covering testing, inspection, and maintenance procedures and schedules for each measurement system and required support activity. This program is usually documented in the form of SOPs for each analytical instrument to be used. The basic requirements and components of such a program include the following:

- Each laboratory will implement, as a part of its QA/QC program, a routine preventive maintenance program to minimize the occurrence of instrument failure and other system malfunctions.
- Service and repair of instruments, equipment, tools, gauges, and so forth will be performed by an internal group of qualified personnel. Alternatively, scheduled instrument maintenance and emergency repair may be provided by manufacturers' representatives under a repair and maintenance contract.
- Instrument maintenance will be carried out by the laboratory on a regular schedule. The servicing of critical items should be scheduled to minimize the downtime of measurement systems. A list of critical spare parts for each instrument will be identified by the laboratory and requested from the manufacturer. These spare parts will be stored at the laboratory to reduce downtime. The availability of spare parts will be monitored periodically.
- Testing, inspection, and maintenance procedures described in laboratory SOPs will be in accordance with manufacturer's specifications and with the requirements of the specific analytical methods employed.
- Maintenance and service must be documented in service logbooks to provide a complete maintenance history. A separate service logbook should be kept for each instrument. Maintenance records will be traceable to the specific instrument, equipment, tool, or gauge.
- Records produced as a result of testing, inspection, or maintenance of laboratory instruments will be maintained and filed at the laboratory. These records will be available for review by internal and external laboratory system audits under the START contract.

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QAPP WORKSHEET #26
SAMPLE HANDLING SYSTEM

SAMPLE COLLECTION, PACKAGING, AND SHIPMENT
Sample Collection (Personnel/Organization): Tetra Tech field sampling team
Sample Packaging (Personnel/Organization): Tetra Tech field sampling team
Coordination of Shipment (Personnel/Organization): Tetra Tech field sampling team
Type of Shipment/Carrier: Federal Express for priority shipments; local courier service or direct pick-up by laboratory if this option is available
SAMPLE RECEIPT AND ANALYSIS
Sample Receipt (Personnel/Organization): Sample custodian for CLP laboratory, EPA Region 5 CRL, or subcontracted laboratory
Sample Custody and Storage (Personnel/Organization): Sample custodian for CLP laboratory, EPA Region 5 CRL, or subcontracted laboratory
Sample Preparation (Personnel/Organization): Laboratory analyst for CLP laboratory, EPA Region 5 CRL, or subcontracted laboratory
Sample Determinative Analysis (Personnel/Organization): Laboratory analyst for CLP laboratory, EPA Region 5 CRL, or subcontracted laboratory
SAMPLE ARCHIVING
Field Sample Storage (No. of days from sample collection): 30 days after delivery of analytical data package unless otherwise specified
Sample Extract/Digestate Storage (No. of days from extraction/digestion): 30 days after delivery of analytical data package unless otherwise specified
Biological Sample Storage (No. of days from sample collection): 30 days after delivery of analytical data package unless otherwise specified
SAMPLE DISPOSAL
Personnel/Organization: Sample custodian for CLP laboratory, EPA Region 5 CRL, or subcontracted laboratory
Number of Days from Analysis: 30 days after delivery of analytical data package unless otherwise specified

Notes:

CLP Contract Laboratory Program
CRL Central Regional Laboratory
EPA U.S. Environmental Protection Agency

QAPP WORKSHEET #27
SAMPLE CUSTODY REQUIREMENTS

Field Sample Custody Procedures (sample collection, packaging, shipment, and delivery to laboratory):

Samples collected by Tetra Tech under the START contract must be traceable from the point of collection through analysis and final disposition to ensure sample integrity. Sample integrity helps ensure the legal defensibility of the analytical data and subsequent conclusions. The team will use standard EPA procedures and software (such as SCRIBE) to identify, track, monitor, and maintain sample chain-of-custody for. Chain-of-custody records will establish the documentation necessary to trace sample possession from collection through analysis and final disposition. Each person retaining custody at any time throughout the sample history is responsible for maintaining proper documentation and control measures. A sample is under a person's custody if it:

- Is in that person's possession
- Is in that person's view after being in his or her possession
- Is in that person's possession and he or she places it in a secured location
- Is placed by that person in a designated secure area

All projects conducted by Tetra Tech under the START contract will follow sample and document control procedures, sample and evidence identification procedures, field records requirements and procedures, and chain-of-custody procedures outlined in the *Contract Laboratory Program Guidance for Field Samplers* (EPA 2014c). Samples will be packaged and labeled for shipment in compliance with current U.S. Department of Transportation (DOT) and International Air Transport Association (IATA) dangerous goods regulations. Any additional requirements stipulated by the overnight carrier will be followed. Tetra Tech will use EPA's SCRIBE environmental data management software to manage sample collection, documentation, chain of custody, and reporting under the START contract. Field personnel will input data into SCRIBE and then use the software to generate sample labels, bottle tags, and chain-of-custody forms, and to track samples from the field to the laboratory. Because SCRIBE captures sample management information electronically, the information is easily exportable to databases or various reporting formats.

Chain-of-custody forms will be signed in ink by the samplers and the individual relinquishing custody. Tetra Tech will then follow the sample packaging and shipment procedures summarized below to ensure that samples arrive at the laboratory with the chain of custody intact.

- Immediately after sample collection, sample containers will be labeled with the appropriate identifiers, and clear tape will be placed over the labels to prevent smearing.
- The samples will be placed in Ziploc™ plastic bags and then in a cooler containing double sealed bags of ice and maintained at 4° C. The cooler will remain in a secured area or in view of the sampler until it is properly sealed for shipment to the laboratory.
- Prior to shipping, the chain-of-custody forms, airbills, and all other relevant documents will be completed. Chain-of-custody forms will be sealed in plastic bags and taped to the inside of the cooler lid. Cushioning material, such as bubble-wrap, will be placed in the cooler.
- A temperature blank consisting of a jar or vial containing water will be included in every cooler, and will be used by the laboratory to determine the cooler temperature at the time of sample receipt.
- The shipping cooler will then be sealed with tape and custody seals in a manner that will indicate whether the cooler was opened. The preferred procedure includes placing custody seals at diagonally opposite corners of the cooler. The custody seals will be covered with clear plastic tape or strapping tape.

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The field sampler is personally responsible for the care and custody of the samples until they are transferred to other Tetra Tech personnel or properly dispatched to an overnight carrier or directly to a laboratory. As few people as possible should handle the samples to prevent loss, breakage, or potential contamination. When transferring possession of the samples, the individuals relinquishing and receiving the samples sign, date, and note the time of transfer on the chain-of-custody form. Commercial carriers are not required to sign off on the chain-of-custody form as long as the form is sealed inside the sample cooler and the custody seals remain intact.

Sample Identification Procedures:

Field logbooks provide the means of recording all data collection activities performed. Logbook entries will include much detail as possible so that a particular situation can be reconstructed without relying on memory. Field logbooks will be bound field survey books or notebooks. Logbooks will be assigned to field personnel but will be stored in the secure location when not in use. Each logbook will be identified by a project-specific document number. The title page of each logbook will contain the following information:

- Person to whom the logbook is assigned
- Logbook number
- Project name
- Project start and end dates

Logbook entries will be made in ink and no erasures will be made. If an incorrect entry is made, the incorrect information will be crossed out, initialed, and dated by the person making the correction. Logbook entries will contain a variety of information. The beginning of each entry will note the date, start time, weather conditions, names of team members present, facility visitors present and the purpose of their visit, level of personal protection used, and signature of the person making the entry.

Whenever a sample is collected or a measurement is taken, a detailed description of the sampling or measurement location, which may include global positioning (GPS) coordinates, will be recorded in the logbook. The number and description of any photographs taken of the location will also be noted. All equipment used to take measurements will be identified along with the date of equipment calibration. The equipment used to collect samples will be noted along with the time of sampling, sample description, depth at which the sample was collected, sample volume, number of containers, and sample preservation method. The number, type, and location of QC samples will also be noted in the logbook. Field logbooks will also describe any issues encountered during data collection and how these issues were resolved.

In addition to field logbooks, Tetra Tech will use a variety of electronic tools to collect and store field data under the START contract. These tools include:

- Capturx™ – An ink-to-digital system that allows transfer of information written in ink on pre-configured field sheets to a digital system seamlessly imported into SCRIBE
- Viper – A data collection system developed by EPA's Environmental Response Team (ERT) that couples hardware and software with field instruments to report real-time information to a web-based console
- Rapid Assessment Tool (RAT) – An EPA-developed data collection system that couples hardware and software with certain field instruments to record data in a Microsoft Access database

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- PDF fillable forms – Forms that can be populated using free software such as Adobe Reader and that use dropdowns and pick lists to speed data entry and increase quality by standardizing field values
- ArcPad – A product that allows true geographic information system (GIS) and data collection functionality in the field by coupling mobile devices and GPS units for high-accuracy data collection.

GPS data collection tools – Tools such as Garmin GPS units coupled with GeoSetter software, for use in documenting and geo-tagging images

Laboratory Sample Custody Procedures (receipt of samples, archiving, disposal):

Custody procedures must be followed in the laboratory from sample receipt until the sample is discarded. The procedures required for this contract must be at least as stringent as those required by the EPA Contract Laboratory Program (CLP) statements of work (EPA 2008, 2009c, 2009d, 2015b, and 2015c, or the most recent updates). These procedures are briefly described in this section.

The laboratory should designate a specific person as the sample custodian, with an alternate designated to act in the custodian's absence. The custodian will receive incoming samples and indicate receipt by signing the accompanying custody forms and retaining copies of the signed forms as permanent records. Once the sample transfer process is complete, the laboratory is responsible for maintaining internal logbooks, lab tracking reports, and other records necessary to maintain custody throughout sample preparation and analysis.

The laboratory sample custodian will record pertinent information concerning the sample, including the persons delivering and receiving the sample, the date and time received, the method by which the sample was transmitted to the laboratory, sample condition at the time of receipt (sealed, unsealed, or broken container; temperature; or other relevant remarks), the sample identification number, and any unique laboratory identification number associated with the sample. This information should be entered into a computerized laboratory information management system (LIMS).

The laboratory must provide a secure storage area, restricted to authorized personnel, for all samples. The custodian will ensure that samples that are heat- or light-sensitive, radioactive, have other unusual physical characteristics, or require special handling are properly stored and maintained prior to analysis. Only the custodian can distribute samples to laboratory personnel authorized to conduct the required analyses. Laboratory analytical personnel are responsible for the care and custody of the sample upon receipt. These personnel must be prepared to testify that the sample was in their custody at all times from the moment they received it from the custodian until the time that the analyses were completed.

At the completion of sample analysis, any unused portion of the sample, together with identifying labels, must be returned to the custodian. The returned tagged sample should be retained in secure storage until the custodian receives permission to dispose of the sample. Sample disposal will occur only on the order of the laboratory director, in consultation with EPA or Tetra Tech, or when it is certain that the information is no longer required or the samples have deteriorated. Likewise, tags and laboratory records will be maintained until the information is no longer required and final disposition is ordered by the laboratory director, in consultation with EPA or Tetra Tech.

QAPP WORKSHEET #28
QC SAMPLES

Matrix	Water
Analytical Group	VOCs, TCLP VOCs
Concentration Level	Trace, Low
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A2 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Deuterated Monitoring Compounds (Surrogates)	All samples	Reanalyze sample. If on reanalysis, the monitoring compound meets criteria, report reanalysis results. If upon reanalysis, the monitoring compound does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet # 12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Water
Analytical Group	SVOCs, TCLP SVOCs
Concentration Level	SIM, Low
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A5 (See Worksheet # 23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Deuterated Monitoring Compounds (Surrogates)	All samples	Reanalyze sample. If on reanalysis, the monitoring compound meets criteria, report reanalysis results. If upon reanalysis, the monitoring compound does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet # 12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Water
Analytical Group	Pesticides
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A7 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Surrogate Spike	All samples	Reanalyze sample. If upon reanalysis, the surrogate meets criteria, report reanalysis results. If upon reanalysis, the surrogate does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Water
Analytical Group	Herbicides
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21
Analytical Method/ SOP Reference	A8 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R as presented in Worksheet #12
Laboratory Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	RPD as presented in Worksheet #12
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Surrogate Spike	All samples	Reanalyze sample. If upon reanalysis, the surrogate meets criteria, report reanalysis results. If upon reanalysis, the surrogate does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Water
Analytical Group	PCBs
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A6 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Surrogate Spike	All samples	Reanalyze sample. If upon reanalysis, the surrogate meets criteria, report reanalysis results. If upon reanalysis, the surrogate does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Water
Analytical Group	Dioxins/Furans
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A9, A10 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Water
Analytical Group	Metals, Mercury, Cyanide, TCLP Metals
Concentration Level	ICP-AES or ICP-MS for Metals, NA for Mercury and Cyanide
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A11, A12, A13, A14, A16 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike	1 per extraction batch of 20 samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R as presented in Worksheet #12
Laboratory Duplicate	1 per extraction batch of 20 samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	RPD as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	VOCs, TCLP VOCs
Concentration Level	Low, Medium
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A2 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Deuterated Monitoring Compounds (Surrogates)	All samples	Reanalyze sample. If on reanalysis, the monitoring compound meets criteria, report reanalysis results. If upon reanalysis, the monitoring compound does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	SVOCs, TCLP SVOCs
Concentration Level	SIM, Low, Medium
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A5 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Deuterated Monitoring Compounds (Surrogates)	All samples	Reanalyze sample. If on reanalysis, the monitoring compound meets criteria, report reanalysis results. If upon reanalysis, the monitoring compound does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	Pesticides
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A7 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Surrogate Spike	All samples	Reanalyze sample. If upon reanalysis, the surrogate meets criteria, report reanalysis results. If upon reanalysis, the surrogate does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	Herbicides
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A8 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R as presented in Worksheet #12
Laboratory Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	RPD as presented in Worksheet #12
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Surrogate Spike	All samples	Reanalyze sample. If upon reanalysis, the surrogate meets criteria, report reanalysis results. If upon reanalysis, the surrogate does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	PCBs
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A1, A6 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike/Matrix Spike Duplicate	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R and RPD as presented in Worksheet #12
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Surrogate Spike	All samples	Reanalyze sample. If upon reanalysis, the surrogate meets criteria, report reanalysis results. If upon reanalysis, the surrogate does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	30-150 %R

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	Dioxins/Furans
Concentration Level	NA
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A9, A10 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Laboratory Control Sample	1 per analytical batch, 20 samples maximum	Perform corrective action as needed. If problems continue, recalibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Soil/Sediment/Waste
Analytical Group	Metals, Mercury, Cyanide, TCLP Metals
Concentration Level	ICP-AES or ICP-MS for Metals, NA for Mercury and Cyanide
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A11, A12, A13, A15, A16 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per extraction batch samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected extracts.	Laboratory Analyst	Accuracy/Bias Contamination	No target compounds > QL
Matrix Spike	1 per extraction batch of 20 samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	%R as presented in Worksheet #12
Laboratory Duplicate	1 per extraction batch of 20 samples maximum	If sufficient volume is available, extract and reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Accuracy and Precision	RPD as presented in Worksheet #12

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QAPP WORKSHEET #28 (CONTINUED)
QC SAMPLES

Matrix	Air/Soil Gas
Analytical Group	VOCs
Concentration Level	SIM, Scan
Sampling SOP	Various (See Worksheet #21)
Analytical Method/ SOP Reference	A3, A4 (See Worksheet #23)
Sampler's Name/ Organization	TBD/Tetra Tech
Analytical Organization	TBD
No. of Sampling Locations	See Worksheet #18

QC Sample	Frequency/ Number	Corrective Action (CA)	Person(s) Responsible for CA	DQI	Measurement Performance Criteria
Method Blank	1 per batch samples maximum	If sufficient volume is available, reanalyze samples in affected batch. If sufficient volume is not available, reanalyze affected samples.	Laboratory Analyst	Accuracy/Bias-Contamination	No target compounds > QL
Laboratory Control Sample	1 per batch of 20 samples maximum	Perform maintenance as needed. If problems continue, re-calibrate instrument.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Internal Standards	All samples	Reanalyze sample. If upon reanalysis, the monitoring compounds meet criteria, report reanalysis results. If upon reanalysis, the monitoring compound does not meet criteria, the results are reported in the narrative.	Laboratory Analyst	Accuracy	%R as presented in Worksheet #12
Laboratory Duplicate	1 per batch of 20 samples maximum	If sufficient volume is available, reanalyze samples in affected batch. Otherwise, analyze laboratory control sample to see if problem is analysis or sample.	Laboratory Analyst	Precision	RPD as presented in Worksheet #12

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Notes:

%R	Percent recovery
CA	Corrective Action
DQI	Data quality indicator
PCB	Polychlorinated biphenyl
QL	Quantitation limit
RPD	Relative percent difference
SIM	Selected ion monitoring
SOP	Standard operating procedure
SVOC	Semivolatile organic compound
TBD	To be determined
TCLP	Toxicity characteristic leaching procedure
VOC	Volatile organic compound

QAPP WORKSHEET #29
PROJECT DOCUMENTS AND RECORDS

Document	Where Maintained
Sampling and Analysis Plans, Work Plans, Health and Safety Plans	Field office, Tetra Tech project files, EPA administrative record
Field notes and logbooks	Field office, Tetra Tech project files
Chain-of-custody records	Tetra Tech project files
Field forms	Tetra Tech project files
Audit/assessment checklists, forms, and reports	Tetra Tech project files
Corrective action forms and reports	Tetra Tech project files
Laboratory equipment calibration logs	Laboratory
Laboratory sample preparation logs	Laboratory
Laboratory run logs	Laboratory
Sample disposal records	Laboratory
Laboratory data packages	Tetra Tech project files
Data verification and validation records	Tetra Tech project files
Validated data	Tetra Tech project files, EPA administrative record
Project reports	Tetra Tech project files, EPA administrative record

Requirements:

This worksheet summarizes general requirements for managing data under the START contract for Region 5. Further detail and requirements will be provided as necessary in site-specific sampling and analysis plans (SAP), including requirements for data recording, validation, transformation, transmittal, reduction, analysis, tracking, storage, and retrieval. If necessary, site-specific SAPs will also provide checklists and standard forms for detecting and correcting errors and preventing the loss of data during data reduction, reporting, encoding, and entry.

Data for the START contract will be obtained from a combination of sources, including field measurements and laboratory analyses. The process of data gathering is a coordinated effort and will be conducted by project staff in conjunction with data producers. Laboratory data will be obtained from analytical laboratories in EDD format in addition to the required hard copy analytical data packages. Acceptable electronic data deliverable (EDD) formats for the contract include the Environmental Response Laboratory Network EDD and EPA's Staged Electronic Data Deliverable (SEDD).

Data tracking is imperative to ensure timely, cost-effective, and high-quality results. Data tracking begins with sample chain-of-custody. When the analytical laboratory receives the samples into custody, the laboratory will send a sample acknowledgment to Tetra Tech. The sample acknowledgment will confirm the sample receipt, condition, and the required analyses.

When directed by EPA, Tetra Tech will validate data generated under the START contract as described in Worksheets #34 through 36. As a part of the data validation process, EDDs will be reviewed against the hard copy deliverables to ensure accurate transfer of data. In addition, the hard copy will be evaluated for calculation errors. As a result of the data validation, qualifiers will be placed on the data to indicate the data usability. These qualifiers will also be placed into the electronic data file. Upon approval of the data set with the appropriate data qualifiers, the electronic data will be released to the project manager for reporting.

Following data validation and release of data, Tetra Tech project managers will use data to prepare project reports. As a part of the quality control (QC) review of the final report, the data will be further checked by technical reviewers and a quality control coordinator (QCC) to verify its accuracy.

Tetra Tech will maintain reports, analytical data, field records, and other documents generated under the START contract within the final project file at a secure location. Tetra Tech will retain project documents for the 10-year time period specified by EPA or until EPA requests transfer or disposition of the documents.

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QAPP WORKSHEET #30
ANALYTICAL SERVICES

Matrix	Analytical Group	Concentration Level	Analytical SOP[a]	Data Package Turnaround Time[b]	Laboratory[c]	Backup Laboratory[c]
Water	VOCs	Trace, low	A1, A2	21 days	TBD	TBD
	SVOCs	SIM, low	A1, A5	21 days	TBD	TBD
	Pesticides	NA	A1, A7	21 days	TBD	TBD
	Herbicides	NA	A8	21 days	TBD	TBD
	PCBs	NA	A1, A6	21 days	TBD	TBD
	Dioxins/furans	NA	A9, A10	21 days	TBD	TBD
	Metals	ICP-AES, ICP-MS	A11, A12, A13	21 days	TBD	TBD
	Mercury	NA	A11, A14	21 days	TBD	TBD
	Cyanide	NA	A11, A16	21 days	TBD	TBD
Soil, sediment, waste	VOCs	Low, medium	A1, A2	21 days	TBD	TBD
	SVOCs	Low, medium	A1, A5	21 days	TBD	TBD
	Pesticides	NA	A1, A7	21 days	TBD	TBD
	Herbicides	NA	A8	21 days	TBD	TBD
	PCBs	NA	A1, A6	21 days	TBD	TBD
	Dioxins/furans	NA	A9, A10	21 days	TBD	TBD
	Metals	ICP-AES, ICP-MS	A11, A12, A13	21 days	TBD	TBD
	Mercury	NA	A11, A15	21 days	TBD	TBD
	Cyanide	NA	A11, A16	21 days	TBD	TBD
Air	VOCs	NA	A3, A4	21 days	TBD	TBD

Notes:

a See Worksheet #23 for identification of analytical methods

b 21 days is listed as a standard turnaround time. Site-specific sampling and analysis plans (SAP) will include the turnaround time required for the TDD.

c Samples will be analyzed by EPA Contract Laboratory Program (CLP) laboratories, the EPA Region 5 Central Regional Laboratory (CRL), or subcontracted laboratories. The site-specific SAP will identify the specific laboratory that will be used.

NA Not applicable
ICP-AES Inductively coupled plasma-atomic emission spectrometry
ICP-MS Inductively coupled plasma-mass spectrometry
PCB Polychlorinated biphenyl
SIM Selected ion monitoring
SVOC Semivolatile organic compound
TDD Technical direction document
VOC Volatile organic compound

Requirements:

The source of analytical services to be provided will in part be determined by data quality objectives (DQO), the intended use of the resulting data, and technical direction document (TDD) requirements and constraints such as quick turnaround of data. For some TDDs, Tetra Tech will obtain analytical services from the EPA Region 5 Central Regional Laboratory (CRL) or through EPA Contract Laboratory Program (CLP) laboratories. However, if the EPA laboratories are overloaded, unable to implement a specific analytical method, or unable to achieve quantitation limits required by DQOs, the required analytical services will be provided by subcontractor laboratories procured by Tetra Tech. The site-specific SAP will identify the specific laboratory that has been selected to provide analytical services. An analytical service request form will be used for laboratory services that are subcontracted by Tetra Tech under the START contract. This form will contain basic information, modified as needed to meet project-specific requirements. The form will be submitted to EPA with the site-specific SAP and to the laboratory performing the analyses. The form will include the following information:

- General description of analytical service requested
- Number and types of samples to be collected
- Purpose of analysis
- Estimated dates of sample collection
- Dates and methods of sample shipment
- Holding time requirements
- Analytical protocols required, including method, detection limits, reporting limits, precision, and accuracy
- Special technical instructions if outside the scope of analytical protocol
- Required data deliverables and number of days after sample receipt that the data will be required
- Other additional requirements
- Sampling and shipping contact information
- Project-specific data reduction or validation criteria

On rare occasions, project-specific conditions might require the use of an analytical method that is not an EPA-approved or standard method. These methods will typically be provided by the laboratory performing the analysis and will include a detailed description of sample preparation, instrument calibration, sample analyses, method sensitivity, associated QA/QC requirements, and acceptance criteria. The laboratory must provide method performance study information to confirm the performance of the method for each applicable matrix; if previous performance studies are not available, they must be developed during the project and included as part of the project results.

Site-specific SAPs will provide the data reporting requirements for physical and chemical field and laboratory analyses that are conducted during the investigation. Data reporting requirements will depend on the DQOs and on the intended uses of the resulting data. Reporting requirements must be clearly specified as part of

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any request for analytical services and are closely linked to data validation requirements (see Worksheets #34 through 36). The site-specific SAP will clearly specify the data that must be reported such that (1) data validation requirements can be satisfied and (2) attainment of DQOs can be verified.

When complete laboratory data packages are required for START TDDs, the data packages will typically contain the following information:

- Case narrative, including a statement of samples received, a description of any deviations from the specified analytical method, explanations of data qualifiers applied to the data, and any other significant problems encountered during analysis. The narrative will describe all QC nonconformances experienced during sample analysis, along with the corrective actions taken.
- Table that cross-references field and laboratory sample numbers
- Chain-of-custody forms pertaining to each sample delivery group or sample batch analyzed
- Laboratory report showing traceability to the sample analyzed and containing the following information: project identification; field sample number; laboratory sample number; sample matrix description; dates and times of sample collection, receipt at the laboratory, sample preparation, and analysis; analytical method description and reference citation; individual parameter results with concentration units (including second column results or second detector results, or other confirmatory results, where appropriate); quantitation limits achieved; and dilution or concentration factors
- Data summary forms and QC summary forms for sample results, surrogate results, blank results, field QC sample results, matrix spike (MS)/matrix spike duplicate (MSD) results, MS results, initial and continuing calibration results, confirmatory results, laboratory control sample (LCS) results, and other QC sample results
- Laboratory control charts
- Raw data such as chromatograms, peak areas, retention times for gas chromatography (GC) and high performance liquid chromatography (HPLC) analyses, mass spectra for gas chromatography/mass spectrometry (GC/MS) analyses, and laboratory bench sheets
- Method detection limits and instrument detection limits

Most laboratory data under the START contract will be reported in electronic format using SCRIBE. Acceptable electronic data deliverable (EDD) formats for the contract include the Environmental Response Laboratory Network EDD and EPA's Staged Electronic Data Deliverable (SEDD). Additional data deliverables may be required depending on project-specific DQOs or on the particular field or laboratory method used.

Tetra Tech project managers, in conjunction with the Tetra Tech START QA officer, have the primary responsibility for defining project-specific data reporting requirements. These requirements, the turnaround time for receipt of results and data packages, and any project-specific requirements for retention of samples and laboratory records, should be clearly defined in requests for analytical services. Subcontractor laboratory QA managers are responsible for ensuring that laboratory data reporting requirements in the site-specific SAPs are met.

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QAPP WORKSHEET #31
PLANNED PROJECT ASSESSMENTS

Assessment Type[a]	Frequency	Internal or External	Organization Performing Assessment	Person(s) Responsible for Performing Assessment (Title and Organization)	Person(s) Responsible for Responding to Assessment Findings (Title and Organization)	Person(s) Responsible for Identifying and Implementing CAs (Title and Organization)	Person(s) Responsible for Monitoring Effectiveness of CAs (Title and Organization)
Field audit	TBD	Internal	Tetra Tech	Auditors selected by Tetra Tech QA officer	Tetra Tech project manager and field personnel	Tetra Tech project manager	Tetra Tech QA officer
Laboratory audit	TBD	Internal	Tetra Tech	Auditors selected by Tetra Tech QA officer	Laboratory project manager, QA manager, and analytical personnel	Laboratory project manager and QA manager	Tetra Tech QA officer

Note:

a See requirements section below for activities typically reviewed during field and laboratory audits

Requirements:

Under the START contract, performance and system audits of both field and laboratory activities may be conducted to verify that sampling and analysis are performed in accordance with the procedures and requirements established in this QAPP and in any applicable site-specific SAP. Non-conforming items identified during an audit will be addressed by corrective action. This worksheet addresses basic audit requirements that apply to work conducted by Tetra Tech under the START contract. If additional project-specific audits are required by a TDD, these will be identified in the site-specific SAP.

While this worksheet focuses on audit activities related to environmental data operations, it should be noted that deliverables submitted by Tetra Tech under the START contract are subject to a three-level internal QC review process. This process includes a technical review by a technical staff member independent of the project team; an editorial review completed by a technical editor; and a final review by a quality control coordinator (QCC) for overall completeness and compliance with TDD requirements.

Performance and System Audits: Both internal performance and system audits may be conducted on Tetra Tech's field operations and subcontractor laboratories under the START contract. Performance audits include verification that field measurements and sampling activities and laboratory analyses are being conducted in accordance with the requirements of this QAPP and any site-specific SAP. System audits involve a qualitative examination of all components of an environmental data collection system, including records, personnel, and QA management activities.

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QAPP WORKSHEET #31 (CONTINUED)
PLANNED PROJECT ASSESSMENTS

This worksheet describes the selection of audit personnel, the scope of field and laboratory audits, audit frequencies, and typical audit reports for internal audits initiated by Tetra Tech START QA officer. External performance and system audits initiated by EPA may also be conducted under the START contract and would involve similar activities.

Audit Personnel: Auditors must be independent of the activities being audited. The Tetra Tech START QA officer has the lead role in directing internal audit activities. The QA officer will select the appropriate personnel to conduct each internal audit and will assign them responsibilities and deadlines for completing their audits. These personnel may include the Tetra Tech START QA officer, QCCs for the project, or other independent auditors. When an audit team is required, the QA officer selects a lead auditor based on relevant technical expertise and audit experience. The lead auditor is responsible for selecting and preparing the audit team; preparing an audit plan; coordinating and scheduling the audit with the project team, subcontractor, or other organization being audited; participating in the audit; coordinating the preparation and issuance of audit reports and corrective action requests; and evaluating audit responses and resulting corrective actions.

Audit Scope of Work: Performance audits of field activities may be conducted to evaluate compliance with the requirements of this QAPP and site-specific SAPs. Field systems audits may include an examination of the following items:

- Sample collection records
- Sample handling, preservation, packaging, shipping, and custody records
- Equipment operation, maintenance, and calibration records

Laboratory performance audits include analysis of blind performance evaluation samples to assess a laboratory's ability to comply with QC limits. Laboratory systems audits may include evaluation of the following:

- Sample log-in, identification, storage, tracking, and custody procedures
- Sample and standards preparation procedures
- Availability of analytical instruments
- Analytical instrument operation, maintenance, and calibration records
- Laboratory security procedures
- Qualifications of analysts
- Project file organization and data handling procedures

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Audit Frequencies: Site-specific SAPs will provide a schedule of any planned audits that will be conducted during the investigation. These audits may be required by EPA or planned by the Tetra Tech START QA officer. Audit frequency will depend on several factors. In selecting projects for auditing, the QA officer will consider projects with a large volume of work or those on which EPA has placed a high level of importance. The QA officer may also randomly select projects for auditing. For laboratory audits, the QA officer will focus on subcontractor laboratories performing critical measurements (as determined by DQOs) or performing work for the first time under the START contract.

Unscheduled follow-up audits may occur if any deficiencies are discovered during an audit or review. Follow-up audits verify that corrective actions have been properly implemented to address deficiencies.

Audit Reports: Audit reports will be prepared for performance and system audits of field and laboratory activities and laboratory performance evaluation studies conducted under the START contract. Reports will be prepared by the lead auditor responsible for coordinating the audit. Audit reports will identify audit participants, describe the activity audited, summarize audit findings, and detail any deficiencies or deviations from protocol that were discovered during the audits, as well as any corrective actions that are proposed. Any field or laboratory analytical data that is generated during the analysis of blind performance evaluation samples must be validated. The validated data will be included with the audit report. Data validation procedures are addressed in Worksheets #34, 35, and 36.

Audit reports are distributed to the Tetra Tech START QA officer, program manager, project manager, and the laboratory subcontractor QA manager. The lead auditor has primary responsibility for ensuring that audits are conducted thoroughly and properly. Tetra Tech project managers and laboratory subcontractor QA managers are responsible for implementing corrective actions that result from an audit. The Tetra Tech START QA officer is responsible for verifying that recommended corrective actions have been implemented.

QAPP WORKSHEET #32
ASSESSMENT FINDINGS AND CORRECTIVE ACTION RESPONSES

Assessment Type	Nature of Deficiencies Documentation	Individual(s) Notified of Findings (Name, Title, Organization)	Timeframe of Notification	Nature of Corrective Action (CA) Response Documentation	Individual(s) Receiving CA Response (Name, Title, Organization)	Timeframe for Response
Field audit	Audit report	Tetra Tech QA officer, program manager, and project manager	Within 7 days of completing audit	Written response, with detail depending on nature of CA	Lead auditor; Tetra Tech QA officer and program manager	Within 7 days of receiving audit report
Laboratory audit	Audit report	Tetra Tech QA officer, program manager, and project manager; laboratory subcontractor project manager and QA manager.	Within 7 days of completing audit	Written response, with detail depending on nature of CA	Lead auditor; Tetra Tech QA officer, program manager, and project manager	Within 7 days of receiving audit report

Requirements:

Rapid and thorough correction of QA problems, through an effective corrective action program, minimizes the possibility of questionable data or documentation. The two types of corrective action are immediate and long-term. Immediate corrective actions include correcting procedures, repairing instruments that are not working improperly, and correcting errors or deficiencies in documentation. Long-term corrective actions eliminate the sources of problems by correcting systematic errors in sampling and analytical procedures, revising procedures that produce questionable results, and manipulating similar cause-and-effect relationships.

QA problems and corrective actions applied are documented to provide a complete record of QA activities. These records assist the Tetra Tech START contract management team in identifying long-term QA problems and enable application of long-term corrective actions such as personnel training, replacement of instruments, and improvement of sampling and analytical procedures.

The Tetra Tech START QA officer has the authority to discontinue or limit environmental data collection activities that are compromised until corrective action is complete and data quality is no longer questionable. The QA officer may also order the recollection or reanalysis of samples or re-measurement of field parameters since the last documented evidence that the measurement system was in control.

Specific corrective action procedures for sample collection and field measurements and laboratory analyses are discussed below.

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Sample Collection and Field Measurements: Technical staff and project personnel involved in sample collection or field measurement activities are responsible for initiating routine corrective actions by reporting all suspected technical or QA nonconformances and deficiencies to the Tetra Tech project manager or field team leader. Corrective actions for sample collection and field measurements may include, but are not limited to, the following:

- Repeating measurements to check for error
- Checking that instruments are properly adjusted for ambient conditions such as temperature
- Checking batteries
- Checking calibration and recalibrating equipment if necessary
- Replacing the instrument or measurement devices
- Collecting additional samples
- Stopping work (if necessary)

Laboratory Analyses: Each laboratory that participates as a START subcontractor is required to have a written SOP that summarizes procedures for initiating, developing, approving, implementing, and documenting corrective action. The existence of such a program does not exempt the laboratory from following the corrective action requirements or additional requirements in any site-specific SAP. When errors, deficiencies, or out-of-control situations arise, systematic corrective actions must be taken to resolve problems and restore proper functioning analytical systems. Laboratory personnel and QA managers are alerted that corrective actions may be necessary if any of the following situations arise:

- Sample volumes are not sufficient to perform required analyses
- QC data are outside the acceptable limits for precision and accuracy
- Blanks contain contaminants above acceptable levels
- Undesirable trends are detected in spike recoveries or in the RPD between duplicates
- Unusual changes in detection limits arise
- Deficiencies are detected during internal or external audits or from the results of performance evaluation samples
- Inquiries concerning data quality are received from clients

If sample volumes are insufficient to complete the required analyses, the laboratory will notify the Tetra Tech project manager. The Tetra Tech project manager, Tetra Tech START QA officer, and laboratory subcontractor QA manager will contact the EPA on-scene coordinator (OSC) to determine if additional samples should be collected.

QAPP WORKSHEET #32 (CONTINUED)
ASSESSMENT FINDINGS AND CORRECTIVE ACTION RESPONSES

Laboratory corrective action procedures are often initiated at the bench level by the analyst, who reviews the preparation or extraction procedure for possible errors; checks the instrument calibration; checks the spiking levels, calibration solutions, and standards; and checks instrument sensitivity. If the problem persists or cannot be identified, the matter may be referred to the laboratory supervisor, project manager, or QA manager for further investigation. Every effort must be made to determine the cause of the problem so that a permanent solution can be developed and implemented. Once a problem is resolved, full documentation of the corrective action procedure is filed with the project records.

Investigations initiated by laboratory technical or QA personnel that result in corrective actions must be documented and reported to the Tetra Tech START QA officer. Documentation of investigations of poor results on performance evaluation samples and corrective actions taken will be forwarded to the appropriate certifying agencies when required.

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QAPP WORKSHEET #33
QA MANAGEMENT REPORTS

Type of Report	Frequency (daily, weekly, monthly, quarterly, annually, etc.)	Projected Delivery Date(s)	Person(s) Responsible for Report Preparation (Name, Title, Organization)	Report Recipient(s) (Title and Organization)
Monthly progress report	Monthly for all active TDDs	By the 20th of the following month	Tetra Tech project manager	EPA on-scene coordinator, project officer, and contracting officer
Annual quality report	Annual	Within 1 month of contract anniversary dates	Tetra Tech QA officer	Tetra Tech president, corporate QA manager; Tetra Tech START program manager

Requirements:

Effective management of environmental data collection requires timely assessment and review of measurement activities. Open communication, interaction, and feedback must also occur among all project participants, including the EPA Region 5 project officer and QA officer, the Tetra Tech START program manager and QA officer, the Tetra Tech project manager and technical staff, and subcontractors. Tetra Tech prepares monthly progress reports for each TDD under the START contract. These reports address any TDD-specific quality issues and facilitate timely communication of such issues.

At the contract level, the Tetra Tech START QA officer prepares an annual START contract quality report related to Tetra Tech's work on the contract. This report is distributed to Tetra Tech's president, Tetra Tech's corporate QA manager, the Tetra Tech START program manager, and, upon request, to EPA. The report will:

- Summarize the results of audits and management systems reviews that have been completed
- Describe the status of ongoing corrective actions or quality improvement opportunities
- Identify any TDD-specific, subcontractor, and contract-wide quality issues
- Outline plans to address quality issues
- Identify any corporate- or contract-level support that will be required to effectively address the issues

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QAPP WORKSHEET #34
VERIFICATION (STEP 1) PROCESS

Verification Input	Description	Internal/ External	Responsible for Verification (Name, Organization)
Field notes/ logbook	Field notes will be reviewed internally and placed in the project file. A copy of the field notes may be attached to the final report.	Internal	Tetra Tech project manager
Field data	Manual data entries will be reviewed against hard copy field forms or logbook entries. Electronic uploads of field data will be checked against any available manually recorded data on field forms or in logbooks	Internal	Tetra Tech project manager, field team leader, or assigned personnel
Chain-of-custody forms	Chain-of-custody forms will be reviewed internally upon their completion and verified against the packed sample coolers they represent. The shipper's signature on the chain-of-custody form should be initialed by the reviewer, a copy of the chain-of-custody form should be retained in the project file, and the original and remaining copies should be taped inside the cooler for shipment.	Internal	Tetra Tech field team leader
Sample receipt	For samples shipped by commercial carrier, Tetra Tech will confirm that samples were received by the laboratory on the date following shipment	Internal	Tetra Tech project manager, field team leader, or assigned personnel
Laboratory data packages	Laboratory data packages will be verified internally by the laboratory performing the work for completeness and technical accuracy prior to submittal.	Internal	EPA Region 5 Central Regional Laboratory (CRL), Contract Laboratory Program (CLP) laboratory, or subcontracted laboratory project manager
Laboratory data	All laboratory data packages will be verified externally for completeness and technical accuracy prior in accordance with the data validation procedures specified in Worksheet #35.	Internal	EPA Environmental Services Assistance Team (ESAT) contractor for data generated by CRL or CLP laboratories; Tetra Tech chemist for data generated by subcontracted laboratories

Requirements:

Data reduction, review, and verification are essential functions for preparing data that can be effectively used to support project decisions and DQOs. These functions must be performed accurately and according to EPA-approved procedures and techniques and region-specific guidelines. Data reduction includes computations and data manipulations that produce the final results used during the investigation. Data review and verification includes procedures conducted by field or laboratory personnel to ensure that measurement results are correct and acceptable relative to QA objectives in this QAPP and in any site-specific SAP. Because the types of field measurements and laboratory measurements used will vary with each site investigation, specific data reduction, review, and verification procedures and requirements cannot be addressed directly in this QAPP. However, many field and laboratory measurement data reduction, review, and verification procedures and requirements are specified in field and laboratory methods, SOPs, and guidance documents. In most cases, data review, reduction, and verification procedures can be identified in site-specific SAP by referencing these sources. However, if data review, reduction, and verification are not adequately described in these sources, the site-specific SAP should include the following information:

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- Data review and reduction procedures for all phases of sample preparation and analysis (including procedures for data that are reduced and stored on a computer)
- Field personnel and laboratory personnel responsible for conducting each phase of data review and reduction
- Formulas and equations used during data reduction, including equations used to produce final results
- The definitions of terms and parameters
- The units for parameters and results
- Instructions on how results from QC samples (such as blanks) will be treated and used in calculating final results
- Procedures for flagging, qualifying, or marking the data with labels
- Corrective action procedures for instances when data reduction procedures are not followed correctly or when errors are found during data review

Field personnel will record all raw data from chemical and physical field measurements on field forms, in a field logbook, or using one of the electronic data collection tools described in Worksheet #27. Tetra Tech project managers have primary responsibility for (1) verifying that field measurements were made correctly, (2) confirming that sample collection and handling procedures specified in the site-specific SAP were followed, and (3) ensuring that field data reduction and review procedures and requirements are followed. They are also responsible for assessing preliminary data quality and for advising data users of potential QA/QC problems with field data. When field data are used in a project report, data reduction methods will be fully documented in the report.

Each laboratory will complete data reduction for chemical and physical measurements and will complete an in-house review of laboratory analytical results. The laboratory QA manager and project manager are responsible for ensuring that laboratory data reduction and review procedures and requirements in this QAPP and in the site-specific SAP are followed. The laboratory QA manager and project manager are also responsible for assessing data quality and for advising the Tetra Tech START QA officer and project manager of possible QA/QC problems with laboratory data.

QAPP WORKSHEET #35
VALIDATION (STEPS IIA AND IIB) PROCESS

Step IIa/IIb	Validation Input	Description	Responsible for Validation (Name, Organization)
IIa	Chain of custody	Examine chain of custody records to verify the traceability of the data from time of sample collection until reporting.	EPA ESAT contractor for data generated by EPA Region 5 CRL or CLP laboratories Tetra Tech chemist for data generated by subcontracted laboratories
IIa	Holding times	Confirm that holding time requirements are met. If holding times were not met, confirm that deviations were documented, and that appropriate notifications were made.	
IIa	Analytical methods	Confirm that analytical methods specified in the site-specific SAP were used and that any deviations were noted. Verify that the QC samples met performance criteria or that any deviations were documented.	
IIa	Instrument calibration	Confirm that instrument calibration requirements were met.	
IIa	Laboratory data qualifiers	Verify that laboratory data qualifiers were defined and applied as specified in methods or laboratory SOPs.	
IIb	Project quantitation limits	Verify that quantitation limits in the site-specific SAP were achieved and that the laboratory successfully analyzed a standard at the quantitation limit.	
IIb	Field duplicate sample results	If field duplicate samples were analyzed, verify that the results meet RPD limits specified in the site-specific SAP.	
IIb	Performance criteria	Confirm that QC samples meet project-specific performance criteria and document any deviations.	

Notes:

CLP Contract Laboratory Program
CRL Central Regional Laboratory
ESAT Environmental Services Assistance Team
QC Quality control
SAP Sampling and analysis plan
SOP Standard operating procedure

Requirements:

Data used to support activities under the START contract must be valid for their intended purposes. This worksheet outlines the basic data validation procedures that will be followed for field and laboratory measurements. The following subsections identify personnel responsible for data validation and the general data validation process that will be followed.

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QAPP WORKSHEET #35 (CONTINUED)
VALIDATION (STEPS IIA AND IIB) PROCESS

Data Validation Responsibilities: When required under a TDD, the Tetra Tech START QA officer, or her designee, is responsible for validating field and laboratory data. Tetra Tech will typically validate laboratory data produced by subcontractor laboratories. Data validation will be completed by one or more experienced data reviewers (typically a Tetra Tech chemist). Data produced by EPA laboratories will typically be validated internally be EPA or by the Region 5 Environmental Services Assistance Team (ESAT) contractor.

Data Validation Procedures: The validity of a set of data is determined by comparing the data with a predetermined set of QC limits. For investigations conducted under the START contract, these QC limits will be provided or referenced in each site-specific SAP. Tetra Tech data reviewers will conduct a systematic review of the data for compliance with established QC limits (for example, sensitivity, precision, and accuracy) based on spike, duplicate, and blank sample results provided by the laboratory. The data review will identify any out-of-control data points or omissions. Tetra Tech data reviewers will evaluate laboratory data for compliance with the following:

- Method and project-specific analytical service requests
- Holding times
- Initial and continuing calibration acceptance criteria
- Field, trip, and method blank acceptance criteria
- Surrogate recovery
- Field duplicates, MS/MSD, and matrix duplicate acceptance criteria
- Other laboratory QC criteria specified by the method and the project-specific analytical service request
- Compound identification and quantitation
- Overall assessment of data in accordance with project-specific objectives

Data validation requirements will depend on DQOs, region-specific guidelines, reporting requirements, and data deliverables requested from the laboratory. Data validation requirements presented in this worksheet may be referenced in the site-specific SAP to ensure consistency.

QAPP WORKSHEET #36
VALIDATION (STEPS IIA AND IIB) SUMMARY TABLE

Step IIa/IIb	Matrix	Analytical Group	Concentration Level	Validation Criteria	Data Validator (Title and Organization)
IIa/IIb	Water	VOCs	Trace, low	NFG for Superfund Organic Methods Data Review	EPA ESAT contractor for data generated by EPA Region 5 CRL or CLP laboratories Tetra Tech chemist for data generated by subcontracted laboratories
		SVOCs	SIM, low	NFG for Superfund Organic Methods Data Review	
		Pesticides	NA	NFG for Superfund Organic Methods Data Review	
		Herbicides	NA	NFG for Superfund Organic Methods Data Review	
		PCBs	NA	NFG for Superfund Organic Methods Data Review	
		Dioxins/furans	NA	NFG for CDD and CDF Data Review	
		Metals	ICP-AES, ICP-MS	NFG for Inorganic Superfund Data Review	
		Mercury	NA	NFG for Inorganic Superfund Data Review	
		Cyanide	NA	NFG for Inorganic Superfund Data Review	
IIa/IIb	Soil, sediment, waste	VOCs	Low, medium	NFG for Superfund Organic Methods Data Review	
		SVOCs	Low, medium	NFG for Superfund Organic Methods Data Review	
		Pesticides	NA	NFG for Superfund Organic Methods Data Review	
		Herbicides	NA	NFG for Superfund Organic Methods Data Review	
		PCBs	NA	NFG for Superfund Organic Methods Data Review	
		Dioxins/furans	NA	NFG for CDD and CDF Data Review	
		Metals	ICP-AES, ICP-MS	NFG for Inorganic Superfund Data Review	
		Mercury	NA	NFG for Inorganic Superfund Data Review	
		Cyanide	NA	NFG for Inorganic Superfund Data Review	
IIa/IIb	Air	VOCs	NA	NFG for Superfund Organic Methods Data Review	

Notes:

CDD Chlorinated dibenzo-p-dioxin
CDF Chlorinated dibenzofuran
CLP Contract Laboratory Program
CRL Central Regional Laboratory
ESAT Environmental Services Assistance Team
NA Not applicable
NFG National Functional Guidelines
ICP-AES Inductively coupled plasma-atomic emission spectrometry
ICP-MS Inductively coupled plasma-mass spectrometry
PCB Polychlorinated biphenyl
SIM Selected ion monitoring
SVOC Semivolatile organic compound
TDD Technical direction document
VOC Volatile organic compound

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QAPP WORKSHEET #36 (CONTINUED)
VALIDATION (STEPS IIA AND IIB) SUMMARY

Requirements:

Tetra Tech will follow the most current EPA guidelines for completing data validation:

- U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA 2014a)
- U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (EPA 2014b)
- U.S. EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review (EPA 2011)
- U.S. EPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (EPA 2009a)

General procedures in the EPA guidelines will be modified as necessary to fit the specific analytical method used to produce the data.
Tetra Tech will prepare brief reports to document the results of data validation. Data validation reports will be submitted to the Tetra Tech project manager and will include the following information:

- A summary of the analytical data that were validated
- The data validation guidelines that were used
- The specific criteria that were evaluated (such as initial and continuing calibration results, blank results, duplicate results, and sample quantitation results)
- Qualifiers that were applied to the data, and the reasons for application
- An overall assessment of data usability

The report will also include (as an attachment) a summary of the analytical results showing any data qualifiers that were applied.
If there are significant issues with the data, the project manager, with support from the data validator and Tetra Tech QA officer, will contact the laboratory to resolve the issues.

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QAPP WORKSHEET #37
USABILITY ASSESSMENT

Summarize the usability assessment process and all procedures, including interim steps and any statistics, equations, and computer algorithms that will be used:

Tetra Tech's process for evaluating data usability includes the data review, verification, and validation procedures outlined in Worksheets # 34, 35, and 36. As part of this effort, Tetra Tech will evaluate the precision, accuracy, representativeness, completeness, and comparability (PARCC) of the data using the methods described below. Finally, Tetra Tech will evaluate whether the data achieve the data quality objectives (DQO) that were established at the beginning of the project.

Precision and Accuracy: Precision is a measure of the variability of a measurement system. Precision is typically estimated by means of duplicate and replicate measurements and is expressed in terms of relative percent difference (RPD). For field sampling, precision is increased by following standard operating procedures (SOP) and by collecting samples consistently, using the same sampling procedures. Field quality control (QC) samples collected to measure precision include field duplicate samples and collocated samples. Field measurement precision is monitored by taking replicate measurements, and is increased through proper operation and maintenance of field equipment. Precision for laboratory analyses will be measured by collecting and analyzing the following types of samples: matrix spike (MS) and matrix spike duplicate (MSD) samples, and laboratory control samples (LCS) and LCS duplicate (LCSD) samples.

Accuracy is the degree of agreement between an observed value and an accepted reference value. Accuracy is typically expressed as percent recovery (%R) from spiked samples or bias with respect to a reference standard. The use of spiked samples permits a check on method accuracy and helps evaluate whether the sample matrix affects analytical results. Accuracy for field sampling will be increased by establishing a sound sampling strategy and following appropriate SOPs. Field QC samples collected to measure accuracy include trip blanks, field blanks, and equipment rinsate blanks. In general, the accuracy of field measurements will be increased by following appropriate SOPs and through proper calibration and maintenance of equipment. QC measures used to monitor the accuracy of field measurements include checking instrument responses against calibration standards. Accuracy for laboratory analyses will be assessed by collecting and analyzing MS/MSD samples which are collected in the field. Other QC check samples used to assess accuracy are prepared in the laboratory and may include blank spikes, surrogate spikes, method blanks, reagent blanks, instrument blanks, calibration blanks, LCS, standard reference materials, and independent check standards.

Representativeness, Completeness, and Comparability: Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that depends on the proper design of the sampling program and proper laboratory protocol. The sampling network for each investigation will be designed to provide data representative of environmental conditions. Representativeness can also be affected by the time, place, and manner by which the samples are collected. Project planners may account for the difficulty in knowing when, where, and how to collect representative samples by developing statistical or random sampling networks; collecting more samples than would otherwise be needed; collecting samples at several different phases of natural or anthropogenic cycles; sampling at different locations within the project area; collecting composite samples as opposed to grab samples; and verifying and validating the sampling techniques in separate studies. The site-specific SAP will identify specific methods for achieving and demonstrating the representativeness of the samples to be collected.

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Completeness is a measure of the amount of valid data obtained from a measurement system compared to the total number of measurements necessary to achieve DQOs at a specified level of confidence. Following completion of data validation, the percent completeness will be calculated from the number of samples with valid data and the number of samples originally planned. QA objectives for completeness are directly related to DQOs and will be documented and explained in site-specific SAPs.

Comparability expresses the confidence with which one data set can be compared with another. Generally, comparability will be attained by achieving the QA objectives for accuracy, precision, completeness, and representativeness in the site-specific SAP. Comparability of data will also be achieved by following field and laboratory procedures consistently for individual investigations and for the START contract. EPA-approved field and laboratory procedures, such as those listed in Worksheets #21 and 23 will be used to the extent possible.

Reconciliation with User Requirements: The primary purpose of a quality system is to define a process for collecting data that is of known quality, is scientifically valid, is legally defensible, and fully supports any decisions that will be based on the data. To achieve this purpose, this QAPP requires that DQOs be fully defined as describe in Worksheets #10 and 11. All other parts of the quality system must then be planned and implemented in a manner consistent with the DQOs. Quality system components that follow directly from the DQOs include documentation and sample network design (Worksheet #17), sampling methods (Worksheet #21), analytical methods (Worksheet #23); field QC requirements (Worksheet #20); laboratory QC requirements (Worksheets #12 and 28), and data review, verification, and, validation methods (Worksheets #34, 35, and 36).

Once environmental data have been collected, reviewed, and validated, the data must be further evaluated to determine whether the DQOs identified in the site-specific SAP have been met. Tetra Tech will follow EPA's data quality assessment (DQA) process to verify that the type, quality, and quantity of data collected are appropriate for their intended use. The DQA process involves first verifying that the assumptions under which the data collection design and DQOs were developed have been met, or taking appropriate corrective action if the assumptions have not been met. The DQA process then evaluates how well the data collected support the decision that must be made so that scientifically valid and meaningful conclusions can be drawn from the data. To the extent possible, Tetra Tech will follow methods and procedures outlined in EPA's DQA guidance – *Data Quality Assessment: A Reviewer's Guide (EPA QA/G-9R and Data Quality Assessment: Statistical Methods for Practitioners (EPA QA/G-9S)* (EPA 2006b and 2006c).

If data quality indicators do not meet the project's requirements as outlined in the QAPP, the data may be rejected, and re-sampling and/or re-analysis may be required.

Identify the personnel responsible for performing the usability assessment:
Tetra Tech project managers and field team leaders have primary responsibility for review and verification of field data.
Tetra Tech will typically validate laboratory data produced by subcontractor laboratories. Data validation will be completed by one or more experienced data reviewers (typically a Tetra Tech chemist). Data produced by EPA laboratories will typically be validated internally be EPA or by the Region 5 Environmental Services Assistance Team (ESAT) contractor. Validation will include a review of the precision and accuracy of the data.

Tetra Tech project managers and project team members have primary responsibility for the final data usability assessment. This includes evaluating the completeness, representativeness, and comparability of the data and whether the quantity and quality of data collected are sufficient to meet DQOs.

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REFERENCES

American Public Health Association (APHA), American Water Works Association, and Water *Environment Federation. 2012. Standard Methods for the Examination of Water and Wastewater, 22nd Edition.*

ASTM International (ASTM). Updated yearly. *Annual Book of Standards.* West Conshohocken, PA.

National Institute for Occupational Safety and Health (NIOSH). 2003. *NIOSH Manual of Analytical Methods, Fourth Edition, Third Supplement.* Publication No. 2003-154. On-Line Address: http://www.cdc.gov/niosh/docs/2003-154/default.html

U.S. Environmental Protection Agency (EPA). 1983. *Methods for Chemical Analysis of Water and Wastes.* Environmental Monitoring and Support Laboratory. Cincinnati, OH. EPA-600/4-79-020. March.

EPA. 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. Compendium Method TO-15, Determination of Volatile Organic Compounds (VOCs) In Air Collected in Specially-Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS).* Office of Research and Development. Cincinnati, OH. EPA/625/R-96/010b. January.

EPA. 2001. *EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5).* Office of Environmental Information. Washington, DC. EPA/240/B-01/003. March.

EPA. 2005. *Uniform Federal Policy for Implementing Environmental Quality Systems, Evaluating, Assessing, and Documenting Environmental Data Collection/Use and Technology Programs.* EPA-505-F03-001. March.

EPA. 2006a. *Guidance on Systematic Planning Using the Data Quality Objectives Process (EPA QA/G-4).* Office of Environmental Information. Washington, DC. EPA/240/B-06-001. February.

EPA. 2006b. *Data Quality Assessment: A Reviewer's Guide (QA/G-9R).* Office of Environmental Information. Washington, DC. EPA/240/B-06/002. February.

EPA. 2006c. *Data Quality Assessment: Statistical Methods for Practitioners (QA/G-9S).* Office of Environmental Information. Washington, DC. EPA/240/B-06/003. February.

EPA. 2008. *USEPA Contract Laboratory Program Statement of Work for Volatile Organics Analysis in Air, Draft.* Document Number SAV01.X. June.

EPA. 2009a. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use.* Office of Solid Waste and Emergency Response. Washington, DC. EPQ 540-R-08-005. January.

EPA. 2009b. *Test Methods for Evaluating Solid Waste, SW-846, Status Tables for SW-846.* Office of Solid Waste and Emergency Response. Washington, DC. March.

EPA. 2009c. *USEPA Contract Laboratory Program Statement of Work for Analysis of Chlorinated Biphenyl Congeners (CBCs), Multi-Media, Multi-Concentration.* Document Number CBC01.2. December.

EPA. 2009d. *USEPA Contract Laboratory Program Statement of Work for Analysis of Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs), Multi-Media, Multi-Concentration.* Document Number DLM02.2. December.

EPA. 2011. *USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review.* Office of Superfund Remediation and Technology Innovation. Washington, DC. USEPA-540-R-11-016. September.

EPA. 2014a. *National Functional Guidelines for Superfund Organic Methods Data Review.* Office of Superfund Remediation and Technology Innovation (OSRTI). Washington, DC. USEPA-540-R-014-002. August.

EPA. 2014b. *National Functional Guidelines for Inorganic Superfund Data Review.* Office of Superfund Remediation and Technology Innovation. Washington, DC. USEPA-540-R-013-001. August.

EPA. 2014c. *Sampler's Guide: Contract Laboratory Program Guidance for Field Samplers.* Office of Superfund Remediation and Technology Innovation. Washington, DC. EPA 540-R-014-013. October.

EPA. 2015a. *Vapor Intrusion Screening Level (VISL) Calculator.* Office of Solid Waste and Emergency Response. Washington, DC. November. On-Line Address: http://www2.epa.gov/vaporintrusion

EPA. 2015b. *EPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration.* Document Number SOM02.3. September.

EPA. 2015c. *EPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods, Multi-Media, Multi-Concentration.* Document Number ISM02.3. September.

EPA. 2016a. *Regional Screening Levels (RSLs) Generic Tables.* November. On-Line Address: https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016

EPA. 2016b. *Regional Removal Management Levels (RML) for Chemicals.* November. On-Line Address: http://www2.epa.gov/risk/regional-removal-management-levels-chemicals-rmls

EPA. 2016c. *ERT Standard Operating Procedures (SOPs).* Environmental Response Team. Edison, NJ. On-Line Address: https://www.epaosc.org/site/doc_list.aspx?site_id=2107&category=Field%20Activities

EPA-R5-2017-006353 Final Prod ED_001281_00017915-00137

To: Bassler, Rachel[Bassler.Rachel@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]
From: Poy, Thomas
Sent: Fri 1/20/2017 2:13:03 AM
Subject: RE: Media request -- East Chicago

See responses below.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bassler, Rachel
Sent: Thursday, January 19, 2017 5:45 PM
To: Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: FW: Media request -- East Chicago

All,

Please see the reporter questions highlighted below. Her deadline is COB tomorrow, can you start to pull responses together? I'm out tomorrow but Anne is covering.

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

-----Original Message-----
From: Sarah Reese [mailto:Sarah.Reese@nwi.com]
Sent: Thursday, January 19, 2017 5:35 PM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: Re: Media request -- East Chicago

Thanks for these answers.

I have a follow-up question. When did EPA first approach IDEM about orthophosphate levels? Was it because of the 9/28/16 sample, or did EPA go to IDEM before that date?

On October 24, 2016, EPA informed IDEM about low orthophosphate levels in sampling done by EPA as part of the pilot study.

Did EPA review the city's corrosion control plan, Lead and Copper In Drinking Water Reporting forms or the city's pipe inventory before beginning water sampling 9/18/16?

No, the purpose of the pilot sampling was to determine if soil excavation work would have an impact on drinking water quality. East Chicago has historically been in compliance with the Lead and Copper Rule. As a small/medium sized system, they were not required by the regulation to do corrosion control treatment.

If so, did EPA take any actions with regard to the city's plans?

After the water testing results are given to residents, can EPA provide them to The Times with identifying information redacted?

Data (without identifying information) will be posted on EPA's website.

Also, if there are any letters between EPA and IDEM or EPA and East Chicago regarding drinking water from May 2016 to present, particularly any correspondence regarding EPA's previously stated finding that city water had little to no orthophosphate, this is a request for those documents. If I need to make a formal request, please let me know.

FOIA request???

Thanks,

Sarah

Sent from my iPhone

On Jan 19, 2017, at 4:54 PM, Bassler, Rachel <Bassler.Rachel@epa.gov<mailto:Bassler.Rachel@epa.gov>> wrote:

Hi Sarah,

Below are our responses to your water questions, to be attributed to an EPA spokesperson.

Question: Did Chris Korleski look further into the chronology of the water testing? It appears the city is saying orthophosphate use began in September, which is before sequential testing of water would have started in zone 3 (because sequential testing was done in conjunction with excavation, which began Oct. 1, right?) So, did EPA do any water testing before October?

Answer: EPA's first pre-excavation drinking water sample was taken on 9/28/16. This sample was taken a few days before the excavation work began to ensure that the sampling followed the pilot protocol.

Question: Has EPA issued any official recommendations on drinking water in East Chicago? If so, can you either point me to where such guidance is on the website or provide me with a copy? Has EPA mailed any guidance to individual residences?

Answer: Attached is the East Chicago drinking water fact sheet (also on the Web:https://www.epa.gov/uss-lead-superfund-site/drinking-water-safety-information-east-chicago-residents). The FAQ's can be found on the city's website: http://www.eastchicago.com/page10/page94/page57/page135/index.html. On 1/18/17, EPA began mailing the first set of letters with drinking water results to residents. EPA will continue to mail letters until all residents receive their final, validated results.

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov<mailto:bassler.rachel@epa.gov>

p: 312-886-7159

c: 312-914-3393

From: Sarah Reese [mailto:Sarah.Reese@nwi.com]

Sent: Saturday, January 14, 2017 11:59 AM

To: Bassler, Rachel <Bassler.Rachel@epa.gov<mailto:Bassler.Rachel@epa.gov>>

Subject: Media request -- East Chicago

Hi Rachel,

I'm trying to follow up on a few things. I happen to be working today (Saturday), but I'm not expecting any response until Monday.

First, can we set up an interview with someone at EPA who can explain the indoor dust screening level?

Second, did Chris Korleski look further into the chronology of the water testing? It appears the city is saying orthophosphate use began in September, which is before sequential testing of water would have started in zone 3 (because sequential testing was done in conjunction with excavation, which began Oct. 1, right?) So, did EPA do any water testing before October?

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Perhaps some of this could be cleared up in another on-the-record interview with Mr. Korleski or someone else? If you need a clearer list of questions, let me know and I can provide it.

Thanks,

Sarah

Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com<mailto:sarah.reese@nwi.com>

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<drinkingwatersafetyflyer.pdf>

To: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]
From: Bassler, Rachel
Sent: Thur 1/19/2017 11:44:30 PM
Subject: FW: Media request -- East Chicago

All,

Please see the reporter questions highlighted below. Her deadline is COB tomorrow, can you start to pull responses together? I'm out tomorrow but Anne is covering.

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

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Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov<mailto:bassler.rachel@epa.gov>

p: 312-886-7159

c: 312-914-3393

From: Sarah Reese [mailto:Sarah.Reese@nwi.com]

Sent: Saturday, January 14, 2017 11:59 AM

To: Bassler, Rachel <Bassler.Rachel@epa.gov<mailto:Bassler.Rachel@epa.gov>>

Subject: Media request -- East Chicago

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Sarah

Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com<mailto:sarah.reese@nwi.com>

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<drinkingwatersafetyflyer.pdf>

To: Bair, Rita[bair.rita@epa.gov]
Cc: Klassman, Debra[klassman.debra@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Fulghum, Mary
Sent: Thur 1/19/2017 10:48:48 PM
Subject: RE: East Chicago letters

Hi Rita- Thank you. I spoke with Deb and also attended the pre-meeting for the Jan. 28 public meeting in East Chicago. Peg and Miquel explained that the letters for both prelim and final sample results ahead of the public meeting. It was also agreed that while Dr. Buchanan would be encouraged to provide a general background on lead in drinking water and that the Superfund project managers will also discuss the sampling during their presentations, to meet the anticipated high interest in the water issues, Miquel will also give a presentation before the question and answer period. I look forward to working with you and the Water Division staff on this matter. I may be difficult to reach tomorrow, Friday, but I will be available Monday. (Deb is available Friday.)

--Mary

Mary L. Fulghum

Associate Regional Counsel

U.S. Environmental Protection Agency

Region 5 Mail Code C-13J

77 West Jackson Boulevard

Chicago, Illinois 60604

Phone: (312) 886-4683

From: Bair, Rita
Sent: Thursday, January 19, 2017 12:42 PM
To: Fulghum, Mary <fulghum.mary@epa.gov>
Cc: Klassman, Debra <klassman.debra@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: East Chicago letters

Per Deb's request, I am attaching the example letters for sending final and preliminary data to the East Chicago residents. Feel free to call to discuss.

Rita D. Bair

Section 2 Chief

Ground Water and Drinking Water Branch

USEPA-Region 5

phone: (312) 886-2406

fax: 312-692-2132

To: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Fri 1/13/2017 7:05:54 PM
Subject: RE: East Chicago --> new data for calls

Rita - I should point out that we have new post-excavation data (11 sites) in the Master spreadsheet, from the last ~week, for which calls have not yet been made. Do you want to assign these? Thanks,

Val

From: Bosscher, Valerie
Sent: Friday, January 13, 2017 12:43 PM
To: Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago --> any updates on timing for sending letters?

Hi Rita,

I have the data tables (and graphs) ready to go for 11 homes. I am currently pulling together Site 3039, for which the final data recently got uploaded to Scribe. The prepared tables are saved on Sharepoint under Resident letters, if you'd like to see them.

Time/Workload: For the data that is in Scribe, it only takes me about 15-20 minutes to prepare both tables and the graph for each site. Unfortunately, it doesn't look like STAT data has been uploaded to SCRIBE (apparently the contract didn't include a preliminary EDD). I assume that the 5 sets of CRL data will be available, including the ICP-AES metals, in Scribe sometime next week, but validated qualifiers wouldn't be available yet. It could take a couple of hours per site if we have to pick the numbers off the pdf files.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

- Pace data is all final except a few samples were missing from the DVR for post-excavation sampling at Site 3088 (Pace job 50160869); SRS has been asked about a revised/amended DVR.

- CT Labs data is all final.

I'm available to discuss this afternoon by phone, next week Tuesday-Thursday in the office, or next Friday by phone.

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 13, 2017 11:42 AM
To: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: East Chicago --> any updates on timing for sending letters?

I will pull the latest version of the letter with Peter's comment and Tom's response and move it to OPA today. The letter has already gone through Mary at IDEM. I will work on getting the letter ready to go out. I believe we will proceed with the graphs in the letters. How many do we have done so far? I thought Andrea said the graphs for the 8 in Zone 2 are done. What about the

attachment results tables? We have 12 homes with both final pre and post data that we should move on first. When do we think we can be done with those graphs and data tables? We then have 24 with some data still preliminary. I can check with management to see if they want us to go ahead with those also, but again, how long will it take to prepare graphs and data tables? We then have the last 7 where we are either waiting for results from CRL or sampling wasn't completed.

I can set up a meeting for early next week if you want to cover this in a meeting rather than email. Just let me know and I'll set it up.

From: Porter, Andrea
Sent: Friday, January 13, 2017 10:47 AM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: East Chicago --> any updates on timing for sending letters?

Hi Rita and Val,

Have there been any more decisions on when the East Chicago results letters to residents should go out?

Our website says the Open House is scheduled for Saturday, Jan. 28, 11 a.m. – 3 p.m. (link → https://www.epa.gov/uss-lead-superfund-site). Can we try to get letters out before the Open House so that residents could bring them along if they have questions?

Here are some outstanding questions:

•□□□□□□□□ Is the wording for the letter finalized? If not, what's the next step?

•□□□□□□□□ Are we going to loop in the City and State on the content before it goes out? (Seems like we should, even if it's just as a courtesy but not for comments.)

•□□□□□□□□ What about addressing Peter Grevatt's concerns with the graph?

Ex. 5 - Deliberative Process

Val – based on what you've seen of the data, do you have advice on sending out prelim results vs. waiting for the final?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bair, Rita
Sent: Monday, January 09, 2017 2:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: East Chicago data/letters

Chris is looking for the current state of the East Chicago data. Based on the spreadsheet it

appears we have 12 homes with final data for both S1 and S2, 24 homes with S1 and S2 data, not both final yet, and 7 homes still missing S2 data results. Can you confirm that I have this right? Attached is the spreadsheet I used to generate them. Chris' thought was to send each home 1 letter when we have final data from both rounds. However, do we have any idea how much longer it will take to get the remaining data? If it will still be awhile, Chris may decide to move ahead with prelim data. Thanks!

To: Kelley, Jeff[kelley.jeff@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Bosscher, Valerie
Sent: Fri 1/13/2017 6:16:51 PM
Subject: RE: East Chicago final data status

Link to CRL data packages on Sharepoint:

Ex. 6 - Personal Privacy

From: Bosscher, Valerie
Sent: Friday, January 13, 2017 12:09 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago final data status

As we just discussed, it is slow going uploading the large CRL data files to the Sharepoint site. I will send the link as soon as I get the files uploaded.

Here is the link to the summary spreadsheet with lead and water quality data for the sampled sites (see Column I for S1=pre-excavation and S2=post-excavation, and see Column U for the Prelim/Final data receipt date):

Ex. 6 - Personal Privacy

This spreadsheet is updated for all data that has been provided to WD through noon today.

Thanks,

Val

From: Bosscher, Valerie
Sent: Friday, January 13, 2017 11:58 AM

To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: East Chicago final data status

Good morning, Jeff,

I spoke with Miguel this morning and he asked me to send you an updated summary of the status of final data for the East Chicago/USS Lead drinking water pilot study.

- We have final, validated data for both pre- and post-excavation for a total of 12 sites: 4 sites in Zone 3 (3039, 3302, 3097, and 3277) and all 8 sites in Zone 2.

- We have all pre-excavation data (at least prelim) for all sites.

- We have post-excavation data (at least prelim lead) for all but 2 sites: Site 3113 can't be sampled until later in 2017 (excavation has not been completed yet) and Site 3106 has also not been sampled yet (due to challenges scheduling a time with the resident).

Available Final, validated data is saved on the Sharepoint site at:

- Zone 2:

Ex. 6 - Personal Privacy

- Zone 3:

Ex. 6 - Personal Privacy

Please note that the "Level 4" laboratory analytical reports are LARGE files and include raw data that is very technical. The Data Validation Reports (DVR) are summary files prepared by the contractor (TetraTech or SRS) summarizing the data and any data quality issues (qualifiers). All analytes are included in the files, not just lead.

Remaining Final Data status:

- STAT (no final data yet for 29 sites pre-excavation and 6 sites post-excavation): No

DVRs for STAT data have been received by EPA. SRS indicated on 1/11 that they would send EPA all remaining final, validated data by Friday 1/27.

- Pace: The Pace data has all been reported final, but report 50160869 that was incomplete and the contractor has been asked to revise/amend. Based on quick review of the DVR Narratives, there were few instances of issues that affect the lead data.

- CRL: CRL has reported final data for Lead data (with Cu and Zn, ICP-MS) and water quality data (Total P, Anions, and Alkalinity), and other metals (ICP-AES) should be reported by next week. SRS plans to validate the CRL data, so a decision will need to be made whether to consider the data "final" before or after SRS data validation is complete. Based on quick review of the lab QA data in the CRL report, I did not see any major issues that affect the lead data. There could be a few changes to qualifiers including water quality parameters or other metals.

- Link to CRL reports (final but not yet validated):

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]
From: Kelley, Jeff
Sent: Fri 1/13/2017 4:30:55 PM
Subject: FW: East Chicago Draft Resident Notification Letter
DRAFT EC sequential_sampling_memo_rbedits.docx
Example EC_sequential_data_DRAFT_20161215.xlsx

Is this the latest version of the letter? **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bassler, Rachel
Sent: Friday, January 13, 2017 9:51 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: FW: East Chicago Draft Resident Notification Letter

Ex. 5 - Deliberative Process

Rachel Bassler
Press Officer
U.S. EPA Region 5
bassler.rachel@epa.gov
p: 312-886-7159
c: 312-914-3393

From: Bair, Rita
Sent: Thursday, December 15, 2016 3:15 PM
To: Cassell, Peter <cassell.peter@epa.gov>; Hollingsworth, Mary <MHolling@idem.IN.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Benenati, Frank <benenati.frank@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Klasen, Matthew <Klasen.Matthew@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy

<Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject: East Chicago Draft Resident Notification Letter

Please find attached a draft East Chicago home water testing final sample result letter and final data template attachment for your review and comment. Once we get approval to move forward we will start getting letters out. Our staff can start preparing each home's final data attachments while folks are looking over the letter. However, please note that given that we have to manually prepare these attachments and with holiday schedules, these letters will probably go out piecemeal and we won't be completely done until early-mid January or when we get final data. Let me know if you have any questions. If finalizing this letter goes into next week, please note I will be out of the office. Please work with Tom Poy, Andrea Porter, or Val Bosscher in my absence. Thanks!

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 5
77 West Jackson Blvd
Chicago, IL 60604

DATE: December 14, 2016

SUBJECT: Results for Samples Taken at Your Home for the Lead Sequential Sampling Pilot Study

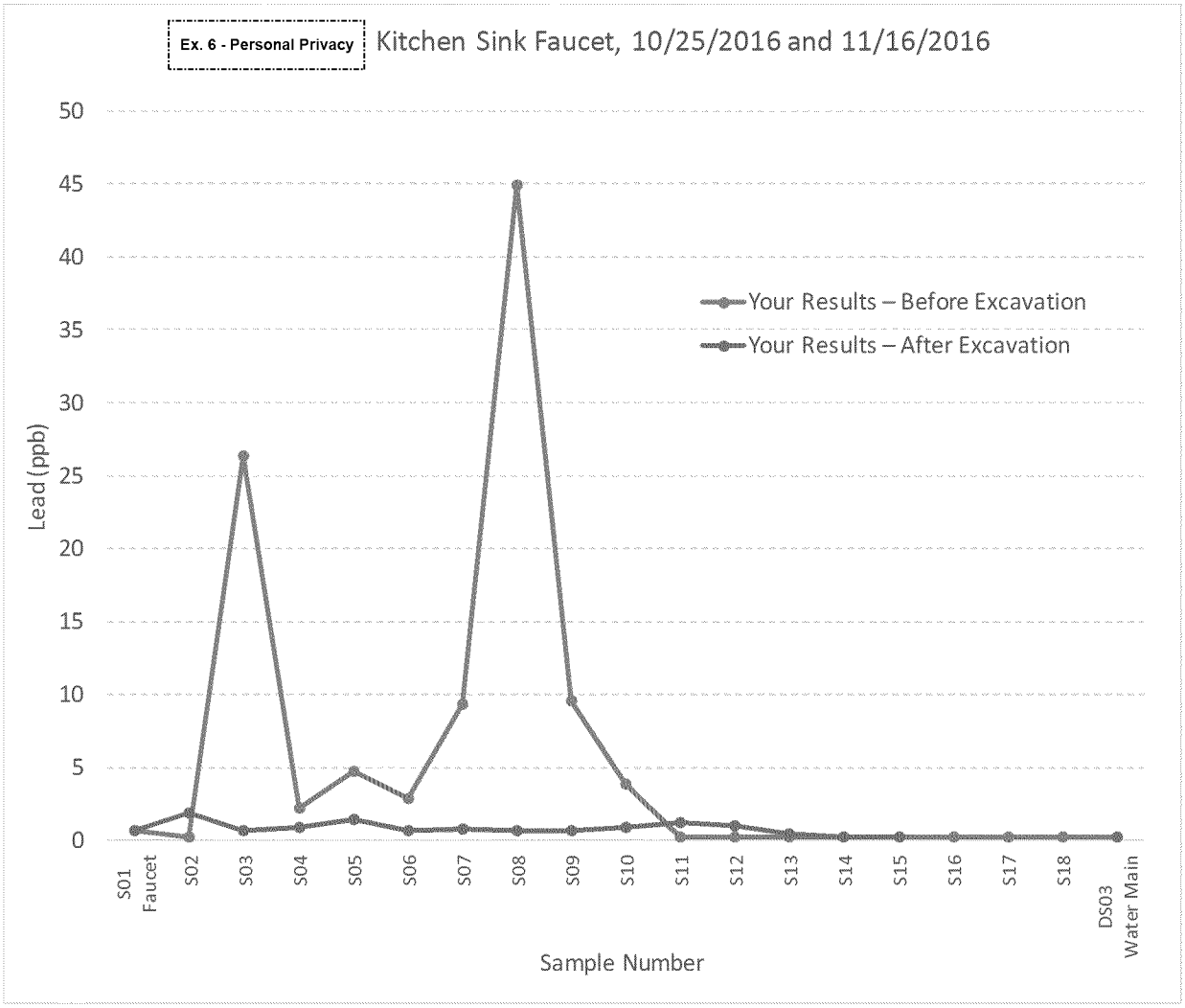
TO: Name
Address
East Chicago, Indiana Zip

FROM: U.S. EPA East Chicago Water Team

On Month xx and Month xx, 2016, EPA collected two series of xx unfiltered water samples from your kitchen faucet. EPA did these tests on a pilot basis at some of the first homes that were excavated in Zones 2 and 3 of the USS Lead Superfund Site. Like many older cities, East Chicago has a large percentage of service lines made of lead, and lead can also be found in the interior house piping, lead solder, and brass or chrome-plated brass faucets. Street and construction work can sometimes disturb the service lines that carry water from the mains in the street into the home, and there is a chance that small particles of lead can break off and get into drinking water.

Lead concentrations in the Month xx, 2016 samples, collected prior to Superfund soil excavation activities at your home, ranged from xx to xx parts per billion. Lead concentrations in the Month xx, 2016 samples, collected after the completion of Superfund soil excavation activities at your home, ranged from xx to xx parts per billion. EPA's action level for lead in drinking water is 15 parts per billion. EPA and the Centers for Disease Control and Prevention agree there is no safe level of lead exposure, especially for children and pregnant women.

The graph below shows the lead levels in the pipes leading from your faucet (left side of the diagram) to the water main under your street (right side) for each sampling event. EPA's test can help determine where lead may be coming from in your plumbing or the service line connecting your home to the water main under the street. These sample results represent a snapshot in time. These results do not show lead level trends in your home over time and cannot be used to assess long-term health impacts from lead.



All results taken at your home for the 2016 Sequential Sampling Pilot Study are attached. The full results include many substances in addition to lead levels. We realize that some of the results may be difficult to understand, so if you have questions, you can call EPA Region 5's Drinking Water program at 312-886-3473.

As part of the pilot project, EPA installed a filter on your kitchen tap and EPA recommends that you continue to use the filtered tap as your source of drinking water (including water for cooking, baby formula, and tooth brushing) until further notice. Filter cartridges should be replaced regularly (**be sure to look for "certified to remove total lead" (NSF 53 certified) for the replacement**), and aerators should be cleaned on a weekly basis. Unfiltered tap water can be used to wash dishes, clothes, and to clean homes. It can also be used for showers and children's baths. Enclosed is the Drinking Water Safety Information for East Chicago Residents Fact Sheet and for additional information on measures you can take, see our website at https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water.

EPA has notified the Indiana Department of Environmental Management and the city about the results from EPA's pilot project. IDEM has been working with the city to ensure that corrosion control treatment is being introduced into the water at a high enough level to increase the coating of the lines and reduce lead levels in your home. The city of East Chicago has been in full compliance with the EPA's "Lead and Copper Rule" since 1993, and the city currently meets all applicable federal and state rules on lead and copper in drinking water.

If you have any questions regarding the soil or dust sampling at your home, or the Superfund cleanup activities, call the USS Lead Superfund Site Hotline at 219-801-2199. It is not possible for lead from contaminated soil to get into your tap water. If there is elevated lead in your tap water, it is most likely due to the presence of lead in your service lines and/or the plumbing in your home.

Attachments:
Final Analytical Results
Drinking Water Safety Information for East Chicago Residents Fact Sheet

Ex. 6 - Personal Privacy - Kitchen Sink Faucet
Sequential Sampling by U.S. EPA on MM/DD/2016
Final Analytical Results

Parameter	Units	Your Results - Before Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
(U) = Not detected above the listed reporting limit
(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL), ranges from 0.014 ppb to 0.35 ppb for Flint lead data reported by EPA, indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL), ranges from 0.50 ppb to 1.0 ppb for Flint lead data reported by EPA, is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

Ex. 6 - Personal Privacy -- Kitchen Sink Faucet
Sequential Sampling by U.S. EPA on MM/DD/2016
Final Analytical Results

Parameter	Units	Your Results - After Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
(U) = Not detected above the listed reporting limit
(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

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Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

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Reporting Limit (RL), ranges from 0.50 ppb to 1.0 ppb for Flint lead data reported by EPA, is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

To: Kelley, Jeff[kelley.jeff@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]
From: Donnelly, Peggy
Sent: Fri 1/13/2017 3:32:38 PM
Subject: Re: Revised Draft Letter to Representative Visclosky - East Chicago / USS Lead

Ex. 5 - Deliberative Process

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

On Jan 13, 2017, at 8:01 AM, Kelley, Jeff <kelley.jeff@epa.gov> wrote:

> Peggy, are you the most plugged in as far as the status of the final water sampling data? We've got a reporter who is requesting the full lab reports … Bob would like us to be able to provide everything we're legally able to … as quickly as we can. How much final data do we have? What would have to be done to make it releasable?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Korleski, Christopher

Sent: Thursday, January 12, 2017 6:17 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Beckmann, Ronna Erin <beckmann.ronna@epa.gov>; Fortin, Denise <Fortin.Denise@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Revised Draft Letter to Representative Visclosky

Hey Team:

Thanks to all who worked on this and provided comments, especially Peg Donnelly who did a lot of digging for me today.

Please take one last look and provide any comments/concerns.

Thanks.

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Poy, Thomas[poy.thomas@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]
From: Cannon, Phillippa
Sent: Wed 1/11/2017 8:06:27 PM
Subject: FW: Urgent: Draft Letter to Representative Visclosky
USS Lead Viscloskey ck 1 11 17.docx

Tom -- The only thing I would suggest adding is that a Spanish speaking Community Involvement Coordinator made the calls to residents who speak Spanish as their primary language.

Let me know if you need any more help with the letter.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Ballotti, Doug
Sent: Wednesday, January 11, 2017 11:35 AM
To: Alcamo, Thomas <alcamo.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: Fw: Urgent: Draft Letter to Representative Visclosky

Tom and Phillippa,

Please provide whatever assistance you can.

Thanks. Doug

From: Korleski, Christopher
Sent: Wednesday, January 11, 2017 11:21 AM
To: Poy, Thomas; Bair, Rita; Mendez, Thomas; Maraldo, Dean; Porter, Andrea; Donnelly, Peggy; Bosscher, Valerie; Deltoral, Miguel; Drexler, Timothy
Cc: Kaplan, Robert; Kelley, Jeff; Ballotti, Doug; Korleski, Christopher
Subject: Urgent: Draft Letter to Representative Visclosky

East Chicago Team:

Please see the attached draft letter to Representative Visclosky, who is seeking more information on the drinking water notifications made to residents. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Also, **Rita**, please advise how many residents were actually contacted and by what method?

Finally, do we have all the final data (both pre-and post-excavation) on all the homes sampled?

Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Kaplan, Robert[kaplan.robert@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]
From: Donnelly, Peggy
Sent: Wed 1/11/2017 7:02:24 PM
Subject: Re: Urgent: Draft Letter to Representative Visclosky

The last date post-excavation water samples were collected was on December 20, 2016.

The first date we received preliminary water data was October 14, 2016.

One other item, we learned from the Superfund contractor we will not receive the rest of their finalized data until Jan 27 from one lab, and potentially about 6 more weeks until the final validated data from their STAT contract lab.

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

On Jan 11, 2017, at 12:36 PM, Kaplan, Robert <kaplan.robert@epa.gov> wrote:

> Thanks. Let's ground truth the chronology to the day. I appreciate your efforts. Bob
>
> Robert Kaplan
> Acting Regional Administrator
> EPA Region 5
> Cell: 312-515-9827
> Office: 312-886-1499
>
> On Jan 11, 2017, at 12:24 PM, Donnelly, Peggy <Donnelly.Peggy@epa.gov> wrote:
>
>> Two dates that need revision:
>>
>> 1) EPA received our first set of preliminary in mid-October (not mid-November).
>>
>> 2) The last post-excavation sampling occurred at the end of December (not early December).

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

On Jan 11, 2017, at 11:21 AM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

East Chicago Team:

Please see the attached draft letter to Representative Visclosky, who is seeking more information on the drinking water notifications made to residents. We need

Ex. 5 - Deliberative Process

Also, **Rita**, please advise how many residents were actually contacted and by what method?

Finally, do we have all the final data (both pre-and post-excavation) on all the homes sampled?

Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

<USS Lead Viscloskey ck 1 11 17.docx>

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]
From: Porter, Andrea
Sent: Wed 1/11/2017 6:59:58 PM
Subject: RE: Urgent: Draft Letter to Representative Visclosky

Hi All,

Calls with water results to residents are tracked in "East Chicago sequential – master.xlsx" (posted to the SharePoint, here:

Ex. 6 - Personal Privacy

Per the above spreadsheet, there were:

- Calls made to 8 Zone 2 properties on 12/9/2016
- Calls made to 35 Zone 3 properties between 12/9/2016 and 12/15/2016

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Donnelly, Peggy
Sent: Wednesday, January 11, 2017 12:24 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: Re: Urgent: Draft Letter to Representative Visclosky

Two dates that need revision:

1) EPA received our first set of preliminary in mid-October (not mid-November).

2) The last post-excavation sampling occurred at the end of December (not early December).

Peg Donnelly

U.S.EPA, R5, Water Division

77 W Jackson, Chicago IL

312.886.6109 office

312.914.4794 cell

Sent from my iPhone

On Jan 11, 2017, at 11:21 AM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

East Chicago Team:

Please see the attached draft letter to Representative Visclosky, who is seeking more information on the drinking water notifications made to residents. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Also, **Rita**, please advise how many residents were actually contacted and by what method?

Finally, do we have all the final data (both pre-and post-excavation) on all the homes sampled?

Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

<USS Lead Viscloskey ck 1 11 17.docx>

To: Bair, Rita[bair.rita@epa.gov]
From: Donnelly, Peggy
Sent: Wed 1/11/2017 6:57:23 PM
Subject: RE: Urgent: Draft Letter to Representative Visclosky

There are at least two or three homes that we conducted pre-excavation sampling, that have not had post-excavation sampling. I believe one home is not going to be excavated until spring (so the post-excavation sampling can take place in the spring), and the other home was excavated in fall but we weren't able to schedule the post-excavation sampling with the resident (so spring may be too late for post-excavation sampling, but I would defer to Miguel on this one).

Peg Donnelly

U.S. EPA, Region 5

77 W Jackson Blvd

Chicago IL 60604

312.886.6109

donnelly.peggy@epa.gov

From: Bair, Rita
Sent: Wednesday, January 11, 2017 1:53 PM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Subject: RE: Urgent: Draft Letter to Representative Visclosky

One question OPA asked that might have been after you hung up is whether there will be more sampling in the Spring? When you mentioned the last post excavation at the end of December, did you mean that we are done? If not, how many are left and are there plans to go out later? I did tell them that we had no plans to do more homes.

From: Donnelly, Peggy
Sent: Wednesday, January 11, 2017 12:24 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>

Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: Re: Urgent: Draft Letter to Representative Visclosky

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2) The last post-excavation sampling occurred at the end of December (not early December).

Peg Donnelly

U.S.EPA, R5, Water Division

77 W Jackson, Chicago IL

312.886.6109 office

312.914.4794 cell

Sent from my iPhone

On Jan 11, 2017, at 11:21 AM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

East Chicago Team:

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Ex. 5 - Deliberative Process

Also, **Rita**, please advise how many residents were actually contacted and by what method?

Finally, do we have all the final data (both pre-and post-excavation) on all the homes sampled?

Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

<USS Lead Viscloskey ck 1 11 17.docx>

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]
From: Kaplan, Robert
Sent: Wed 1/11/2017 6:36:03 PM
Subject: Re: Urgent: Draft Letter to Representative Visclosky

Thanks. Let's ground truth the chronology to the day. I appreciate your efforts. Bob

Robert Kaplan
Acting Regional Administrator
EPA Region 5
Cell: 312-515-9827
Office: 312-886-1499

On Jan 11, 2017, at 12:24 PM, Donnelly, Peggy <Donnelly.Peggy@epa.gov> wrote:

Two dates that need revision:

1) EPA received our first set of preliminary in mid-October (not mid-November).

2) The last post-excavation sampling occurred at the end of December (not early December).

Peg Donnelly
U.S.EPA, R5, Water Division
77 W Jackson, Chicago IL
312.886.6109 office
312.914.4794 cell

Sent from my iPhone

On Jan 11, 2017, at 11:21 AM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

East Chicago Team:

Please see the attached draft letter to Representative Visclosky, who is seeking more information on the drinking water notifications made to residents. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

<USS Lead Viscloskey ck 1 11 17.docx>

To: Porter, Andrea[porter.andrea@epa.gov]
Cc: Spaulding, William[spaulding.william@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Kuefler, Janet
Sent: Wed 1/11/2017 5:36:13 PM
Subject: RE: lcr --> owqp not required to be set for pws <=50,000 if below al

Hi Andrea, so if the system has an AL, they would need these set (i.e., this should remain as an item not fully implemented, and require a plan and schedule, for systems exceeding the AL)—is that correct?

3. Optimal Water Quality Parameter (OWQP) Setting

U.S. EPA: IDEM should set OWQPs for all small and medium-sized systems after a lead or copper action level (AL) exceedance. Tracking (b)(3) systems if the tap sampling and source water sampling is the difference between the 90th percentile tap lead level and the highest source lead level is less than PQL.

IDEM: By the end of program year 2018, IDEM will start setting parameters for systems that install phosphate treatment, adjust pH, and/or adjust alkalinity levels in response to exceedance.

From: Porter, Andrea
Sent: Wednesday, November 23, 2016 10:32 AM
To: Kuefler, Janet <kuefler.janet@epa.gov>
Cc: Spaulding, William <spaulding.william@epa.gov>
Subject: lcr --> owqp not required to be set for pws <=50,000 if below al

Hi Janet and Bill,

In case this helps in determining if IN has an LCR disinvestment, here's an excerpt from

"Optimal Corrosion Control Treatment Evaluation Technical Recommendations for Primacy Agencies and Public Water Systems (March 2016)"

Link → https://www.epa.gov/sites/production/files/2016-03/documents/occtmarch2016.pdf

(See footnote 4):

Exhibit 4.1: Review of CCT Requirements and Deadlines for Systems Serving ≤ 50,000 People (§141.81(e))

Requirement	Timetable for Completing Corrosion Control Treatment Steps[1]	Section Where Technical Recommendations Can Be Found
STEP 1: System exceeds the lead or copper action level (AL).		
STEP 2: System recommends OCCT.	Within 6 months[2]	Section 4.1.1
STEP 3: Primacy agency decides whether system must perform a corrosion control study. If system must conduct a corrosion control study, go to Step 5. If not, go to Step 4.	Within 12 months[2]	Section 4.1.2
STEP 4: Primacy agency designates OCCT for systems that were not required to conduct a study. Go to Step 7.	• Within18 months[2] for systems serving 3,301-50,000 people • Within 24 months[2] for systems serving ≤ 3,300 people	Section 4.1.3
STEP 5: System completes corrosion control study.[3]	Within 18 months after primacy agency requires that such a study be conducted	Section 4.1.4
STEP 6: Primacy agency designates OCCT.[3]	Within 6 months after completion of Step 5	Section 4.1.5
STEP 7: System installs OCCT.	Within 24 months after the primacy agency designates such treatment	Section 5.1
STEP 8: System conducts follow-up sampling for 2 consecutive 6-month periods.	Within 36 months after the primacy agency designates OCCT	Section 5.2
STEP 9: Primacy agency designates OWQPs.[4]	Within 6 months after completion of Step 8	Section 5.3
STEP 10: System conducts continued WQP and lead and copper tap sampling.	The schedule for required monitoring is based on whether the system exceeds an AL and/or complies with OWQP ranges or minimum	Section 5.4

Notes:

[1]Systems serving 50,000 or fewer people can discontinue these steps whenever their 90th percentile levels are at or below both action levels for two consecutive six-month monitoring periods. However, if these systems then exceed the lead or copper action level, they must recommence completion of the applicable CCT steps.

[2]The required timetable (i.e., number of months) for completing Steps 2, 3, and 4 represent the number of months after the end of the monitoring period during which the lead and/or copper action level was exceeded in Step 1.

[3]These steps only apply to systems that were required to conduct a corrosion control study.

[4]The primacy agency is not required to designate OWQPs for systems serving 50,000 or fewer people that no longer exceed either action level after installing treatment. However, some primacy agencies have opted to do so.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

To: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Deltoral, Miguel
Sent: Tue 1/10/2017 10:28:29 AM
Subject: Fw: USS Lead - Community Group Request for Water Sampling
12 23 2016 and 12 25 2016 letter to EPA Region 5 doc 4ABC-signed.pdf
Coalition Questions 7 & 8 GARYPIE DRAFT 01 09 17 430 GARYPIE DRAFT.docx
EPA Response to Congressional Kaplan to Donnelly 01 03 17.pdf

Chris/Tim - I just got this late yesterday and it looks like you folks were not copied on this so I am forwarding it. I'm not sure who will be responding , but since I will be tied up all day today at the data summit and then heading out to Flint tomorrow am, here are my thoughts on the draft responses for coalition comments 7 & 8.

Coalition comment #7 - Ex. 5 - Deliberative Process
Ex. 5 - Deliberative Process

Coalition comment #8 - Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Status from Val as of approx 4pm yesterday…

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Garypie, Catherine
Sent: Monday, January 9, 2017 04:49 PM
To: Poy, Thomas; Deltoral, Miguel
Cc: Kaiser, Steven; Chingcuanco, Leonardo
Subject: USS Lead - Community Group Request for Water Sampling

PRIVILEGED/CONFIDENTIAL/FOIA-EXEMPT

Ex. 5 - Attorney Client

Ex. 5 - Attorney Client

Thank you very much!

Catherine Garypie, Associate Regional Counsel

Office of Regional Counsel

United States Environmental Protection Agency, Region 5

77 West Jackson Blvd. (mail code C-14J)

Chicago, Illinois 60604

PH: 312-886-5825

FAX: 312- 692-2513

EMAIL: garypie.catherine@epa.gov

NOTICE: This email and any attachments to it are intended only for the party to whom they are addressed. This email may contain privileged and/or confidential information. If you have received this transmission in error, please notify the sender immediately and delete any digital copies and destroy any paper copies. Thank you.

From: East Chicago / Calumet Coalition [CAG] USS Lead Superfund Site East Chicago, Indiana
Date: Dec 23, 2016: Friday reissued on Sunday: December 25, 2016
Subject: Questions and Requests for EPA

To: "Cannon, Phillippa" <Cannon.Phillippa@epa.gov>," "Leon, Heriberto" <leon.heriberto@epa.gov>, "Jones, Teresa" <jones.teresa@epa.gov>, "Palomeque, Adrian" <palomeque.adrian@epa.gov>, "Pastor, Susan" <pastor.susan@epa.gov>,
Cc: "Pope, Janet" <Pope.Janet@epa.gov>, "Rodriguez, Charles" <rodriguez.charles@epa.gov>, "Garypie, Catherine" <garypie.catherine@epa.gov>, "Drexler, Timothy" <drexler.timothy@epa.gov>, "Alcamo, Thomas" <alcamo.thomas@epa.gov>, "Mitchell, James"<mitchell.james@epa.gov>,

Dear Phillippa Cannon, Heriberto Leon, Adrian Palomeque, Teresa Jones and Susan Pastor,

I, Ex. 6 - Personal Privacy received the following email from Ms, Phillippa Cannon in response to my email on 12/15/2016 [Please see below] since she's out of office as too Heriberto Leon as per return response on 12/23/2016. It's in reference to our CAG: East Chicago / Calumet Coalition. Per my email pertaining to our Community Advisory Group: East Chicago / Calumet Coalition, our steering committee members DID MEET this past Saturday, December 17, 2016[last scheduled 2016 weekly CAG meeting], prior to our Community CAG Meeting taking place.

Our CAG Steering Committee members along with the membership have come up with the following questions and requests to be addressed by our U.S. EPA Region 5 Office by end of 2016 Calendar Year [December 31, 2016]:

QUESTIONS and REQUESTS from East Chicago / Calumet Coalition CAG Steering Committee

1. Will EPA Region V, NOW officially acknowledge / recognize and submit accredited documentation to us [East Chicago / Calumet Coalition] confirming us as an Official Community Advisory Group [CAG} in written format based on us completing the following EPA requests per Janet Pope and Charles Rodriguez: Community Coordinators on 11/14/2016 and per EPA CAG guidelines:
    - Internal conflict has been resolved pertaining to representation of Superfund demographics.
    - The CAG Name conflict reflecting Calumet was rectified by order of Robert's Rules of Order [Motioned and Adopted] at our November 19, 2016 residential CAG meeting. This Name Change point of order was pending from our residential CAG meeting from November 12, 2016. Proof was submitted to Janet Pope and Charles Rodriguez [EPA Community Coordinators] when they called a Conflict Resolution Mediation Meeting between Ex. 6 - Personal Privacy from Calumet Lives Matter and Ex. 6 - Personal Privacy from then named CAG: East Chicago Undivided on Monday, November 14, 2016 at 3:00pm. Ex. 6 - Personal Privacy did show agenda from 11/12/2016 to prove Name Change was on the agenda then and moved to agenda for meeting on 11/19/2016.
    - Our CAG NOW has met the demographic representation requirements of membership for the steering committee of the 12 – 15 representatives. We have a total of 14 representatives from throughout the complete USS Lead Superfund Site. Two steering committee members are from Zones 1 and 2 and too are part of the group Ex. 6 - Personal Privacy is a member.
    - We have amongst ourselves [Steering Committee Members and Residents] have settled ALL internal misunderstandings; miscommunications and have met the proposed mutual agreements proposed by EPA that best remediates so we can proactively progress forward with the CAG now known as East Chicago / Calumet Coalition.
    - We are requesting CAG accreditation prior to New Presidential Administration being sworn into Office on January 21, 2017 as we too did prior. We should not be penalized for any future EPA political concerns when we requested confirmation on 10/29/2016 at the orientation meeting and now again presently in writing while we are still being governed under the Obama Administration.

ML

- We have meeting sign-in sheets, agendas and minutes.
- Community Advisory Group: East Chicago / Calumet Coalition are requesting EPA Region V to **CANCEL the Dispute Resolution Class** for us based on the above rectifications and progression of the CAG: East Chicago / Calumet Coalition moving forward.

2. Our Community Advisory Group: East Chicago / Calumet Coalition are requesting to have a private meeting prior to the January 2017 Open House within the Superfund Site boundaries. We would like to meet with the following EPA Region V Staffers [preferably on a Saturday at 10:30am] before our Community CAG Meeting: We'd like to meet with the following individuals together so all our questions may be addressed: Janet Pope; Charles Rodriguez; Catherine Garypie; Phillipa Cannon; Tim Drexler and Thomas Alcamo.
3. Why weren't we informed / notified about the rescheduled EPA OPEN HOUSE at Urban Enterprise School scheduled for January 28th, 2017 from 1:00pm – 4:00pm? We've heard about it from someone else.
4. Are we, the CAG: East Chicago / Calumet Coalition still going to be allotted an information Display table for this rescheduled Open House in January of 2017 as you had approved for December 10th, 2016?
5. Will the January 28, 2017 Open House at Urban Enterprise School be implemented in a panel-style event as we had requested back on 10/29/2016 [CAG Orientation Meeting] and again via email on 12/05/2016 now that there is ample time to program an allotted portion of the open house in this manner?
6. When is the Superfund 101 class being scheduled for? Per Janet Pope, expected scheduling is for mid February of 2017 to beginning of March 2017. We'd like to program our calendar meetings.
7. The Steering Committee and Residents want EPA to TEST ALL HOMES IN THE SUPERFUND SITE INTERIORLY DURING THE WINTER MONTHS FOR LEAD, ARSENIC AND THE WATER TOO.
8. The Steering Committee and Residents want EPA to release in WRITING: 45 DAYS OF Date OF TESTING OF THE INTERIOR LEAD, ARSENIC AND WATER TO THE RESIDENTS. It has been informed that several of the residents in the pilot program have not been given anything in writing and have requested it from the EPA more than 2 or 3 times or more to no avail of receiving them.

In closing, please note that all detailed questions and requests for EPA mentioned above have been discussed and formatted by East Chicago / Calumet Coalition Steering Committee members and Residents who attended the CAG meeting on Saturday, December 17, 2016 at the East Chicago Public Library. We ask to receive answers to all prior to end year of 2016 in writing. We also need to emphasize that although we have authorized Ex. 6 - Personal Privacy to contact EPA representatives via email, she has done it with our prior majority authorization and we are cc'd to all communication. We, all of the steering committee members, ask to each individually receive back [be cc'd] to all correspondences in return from EPA to Ms. Ex. 6 - Personal Privacy

Attached you will find the Steering Committee Members Contact Sheet.

Respectfully yours and Happy Holidays,

Ex. 6 - Personal Privacy

Authorized Steering Committee Member: Zone 3 [East Calumet]
East Chicago / Calumet Coalition [CAG]
USS Lead Superfund Site East Chicago, Indiana

Dec 23 (2 days ago)

Leon, Heriberto via usepa.onmicrosoft.com

to me

I am out of the office until 9 Jan. 2017. I will respond after my return.

Heriberto León | Community Involvement Coordinator

U.S. EPA | Superfund Division

77 W Jackson Blvd | SI-6J | Chicago, IL 60604 Phone 312.886.6163 | Fax 312.697.2754 Toll free: 800-621-8431, ext. 66163
http://www.epa.gov/region5/

Cannon, Phillippa via usepa.onmicrosoft.com Dec 15 (10 days ago)

---

to me

I will be on vacation until Tuesday, Jan. 3. If this is a press inquiry, please contact EPA's regional press office at 312-353-2000.

If you need assistance with a community involvement issue, please contact Heriberto Leon (leon.heriberto@epa.gov), Teresa Jones (jones.teresa@epa.gov), Adrian Palomeque (palomeque.adrian@epa.gov) or Susan Pastor (pastor.susan@epa.gov).

Happy holidays!

From: Ex. 6 - Personal Privacy
Date: Dec 15, 2016 9:52 PM
Subject: Re: Request for EPA assistance with room rental
To: "Cannon, Phillippa" <Cannon.Phillippa@epa.gov>
Cc: "Pope, Janet" <Pope.Janet@epa.gov>, "Rodriguez, Charles" <rodriguez.charles@epa.gov>, "Garypie, Catherine" <garypie.catherine@epa.gov>, "Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Dear Ms. Phillippa Cannon,

Thank you for your message concerning our CAG: East Chicago ~ Calumet Coalition requests.

We do have a few questions about your answers. Since we, the CAG will be having our final scheduled 2016 meeting this coming Saturday, December 17, 2016 at the East Chicago Library, we will be getting back to you via email next week with the questions.

I'm asking again for EPA to please address the Steering Committee of the CAG as a whole and not just I.

Attached please find the CAG Steering Committee List updated with newly added members from Zones 1 and 2 which now puts us at 14 [within the EPA CAG guidelines] for your records and so we all may be addressed equally. Saturday's Flyer for the CAG Meeting is attached.

Again, thank you for your message.

Respectfully yours,

Ex. 6 - Personal Privacy

Steering Committee Member: [East Calumet: Zone 3]

Ex. 6 - Personal Privacy

To: Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Deamer, Eileen[deamer.eileen@epa.gov]
From: Bassler, Rachel
Sent: Mon 1/9/2017 8:04:09 PM
Subject: FW: Media question -- East Chicago

Hi Rita and Peg,

When calls were made to the East Chicago residents to inform them of their drinking water sample results, did we provide any additional information or resources for them? And could you send me a copy of the script you used?

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Cannon, Phillippa
Sent: Monday, January 09, 2017 2:03 PM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: Deamer, Eileen <deamer.eileen@epa.gov>
Subject: RE: Media question -- East Chicago

The drinking water program made most of those calls and wrote the script. Check with Rita Bair or Peggy Donnelly.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Bassler, Rachel
Sent: Monday, January 09, 2017 2:00 PM
To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Cc: Deamer, Eileen <deamer.eileen@epa.gov>
Subject: FW: Media question -- East Chicago

Hi Phillippa,

Please see below. Do you know what we provided to residents when we called them with their initial water sample results?

Thanks,
Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Deamer, Eileen
Sent: Monday, January 09, 2017 1:59 PM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: RE: Media question -- East Chicago

Did we share any resources about lead? Fact sheet or anything? Answered residents questions?

From: Bassler, Rachel
Sent: Monday, January 09, 2017 1:58 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Cc: Deamer, Eileen <deamer.eileen@epa.gov>
Subject: FW: Media question -- East Chicago

Please see Sarah's email below. I attempted to answer her question below, per Bob's response letter. Her deadline is 7pm.

Question: Specifically, Visclosky said EPA didn't inform homeowners individually of what caused the high lead in water results and what resources were available.

Ex. 5 - Deliberative Process

Thanks,

Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Sarah Reese [mailto:Sarah.Reese@nwi.com]
Sent: Monday, January 09, 2017 1:49 PM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: Media question -- East Chicago

Hi Rachel,

U.S. Rep. Pete Visclosky said at a congressional forum today in East Chicago he was unhappy with how the EPA informed residents about lead found in drinking water. He said he and Indiana's two senators sent a letter to EPA about this, and EPA has responded. He has not yet provided copies of those letters to me; I have asked for them.

I'm trying to write a short story about the forum, but I wanted to make sure EPA can respond. My deadline is 7 p.m. today.

Specifically, Visclosky said EPA didn't inform homeowners individually of what caused the high lead in water results and what resources were available.

My shift ends at 2 p.m., but I'll be available on my cell at 219-841-1034 or by email at sarah.reese@nwi.com.

Thanks,

Sarah

Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com

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To: Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Bosscher, Valerie
Sent: Mon 1/9/2017 6:02:15 PM
Subject: RE: East Chicago Draft Resident Notification Letter

FYI, two more reports since last week, both post-excavation, added to Sharepoint.

From: Bosscher, Valerie
Sent: Tuesday, January 03, 2017 4:35 PM
To: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: East Chicago Draft Resident Notification Letter

Here is an update on data status. I updated the spreadsheet on Sharepoint for all data received through this afternoon.

- Zone 2: All 8 sites have final data for pre- and post-excavation. I have drafted data tables for these 8 sites and saved them under "Resident Notification" on the EC Sharepoint site. Note that TetraTech incorporated revised qualifiers for Final Zone 2 data.

- Zone 3:

o We have final data for both pre- and post-excavation for 4 sites (3039, 3302, 3097, and 3277). Including the 3 sites above, we have final data for 6 sites for pre-excavation and 19 sites for post-excavation.

o I have not prepared any data tables yet for Zone 3. From quick review of the Zone 3 Database today, it looks like "final" data loaded to Scribe does not reflect the revised qualifiers based on the data validation. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

o Additional details on lab and validation status:

▪ Most of the Pace data has been reported final. Based on quick review of the DVR Narratives, there were few instances of issues that affect the lead data.

▪ No DVRs for STAT data have been received by EPA (SRS indicated on 12/30 that the Level 4 data "begun to arrive from STAT and we will begin finalizing those data next week")

▪ CRL data (post-excavation at 5-6 sites in December) will be reported final only, likely beginning at the end of next week. SRS plans to validate the CRL data.

I will be working all week, if you need anything on this.

Hope this helps,

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Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>
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Hi Rita,

I haven't heard anything about the resident letters for East Chicago recently. Note that Tom's suggested edits/responses below were only sent to our Branch.

Do we have an East Chicago check-in coming up where we (you?) could discuss the resident letters with a larger group? For example, I don't know the current status of final data packages (Val or Miguel may have this info). Also, Val had started putting together some results tables, but I don't know how quickly that's going since the data isn't yet in SCRIBE.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

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Subject: RE: East Chicago Draft Resident Notification Letter

Attached are my edits to the notification letter. We can be more descriptive on what the individual samples on the graph represent, i.e., water from individual sections of their plumbing from the tap to main. We can also include a link to EC's website and the FAQs.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Porter, Andrea

Sent: Thursday, December 22, 2016 10:04 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
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+ Andrea and Val

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Cc: Rowan, Anne <rowan.anne@epa.gov>; Klasen, Matthew <Klasen.Matthew@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
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Subject: RE: East Chicago Draft Resident Notification Letter

IDEM is okay with this information.

Thanks

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Bair, Rita [mailto:bair.rita@epa.gov]
Sent: Thursday, December 15, 2016 4:15 PM
To: Cassell, Peter; Hollingsworth, Mary; JONES, STACY; Prater, Matthew; Kelley, Jeff
Cc: Deltoral, Miguel; Maraldo, Dean; Mendez, Thomas; Fiscus, Taylor; Bassler, Rachel; Benenati, Frank; Rowan, Anne; Korleski, Christopher; Klasen, Matthew; Loop, Travis; Dennis, Allison; Poy, Thomas; Porter, Andrea; Bosscher, Valerie; Donnelly, Peggy; Deamer, Eileen; Henry, Timothy; Cannon, Phillippa; Alcamo, Thomas; Drexler, Timothy
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To: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
Cc: Henry, Timothy[henry.timothy@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Schock, Michael[Schock.Michael@epa.gov]; Lytle, Darren[Lytle.Darren@epa.gov]; Pressman, Jonathan[Pressman.Jonathan@epa.gov]; Kempic, Jeffrey[Kempic.Jeffrey@epa.gov]
From: Deltoral, Miguel
Sent: Wed 1/4/2017 12:07:51 PM
Subject: Fw: east chicago article --> mentions water defense

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

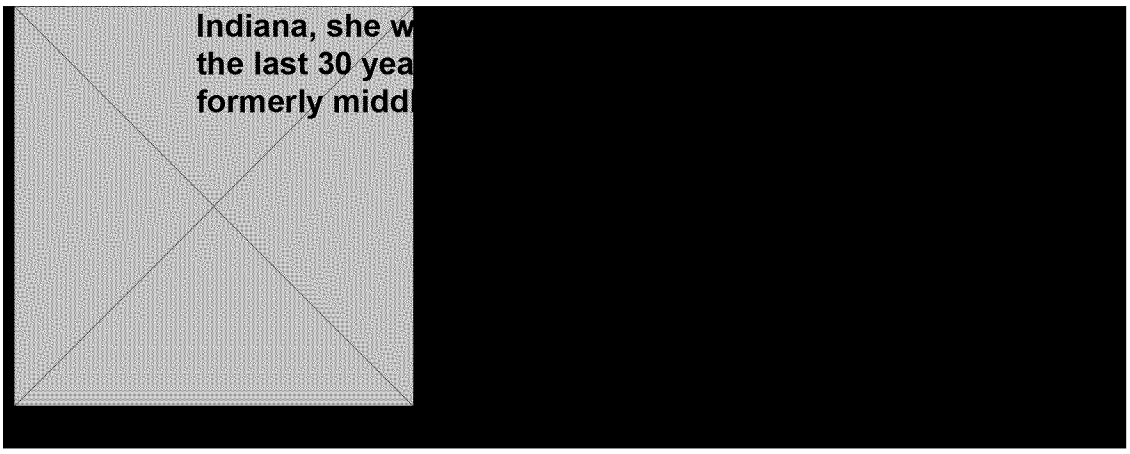
From: Porter, Andrea
Sent: Tuesday, January 3, 2017 10:10 AM
To: Deltoral, Miguel
Cc: Bosscher, Valerie
Subject: east chicago article --> mentions water defense

Hi Miguel,

Article: "How Lead Poisoning in East Chicago, Indiana Might Pop Flint Crisis Wide Open"

Link → https://tytnetwork.com/2016/12/31/how-lead-poisoning-in-east-chicago-indiana-might-pop-flint-crisis-wide-open/

How Lead Poisoning in East Chicago, Indiana Might Pop Flint Crisis Wide Open



Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

How Lead Poisoning in East Chicago, Indiana Might Pop Flint Crisis Wide Open

by JordanChariton/December 31, 2016

When Ex. 6 - Personal Privacy immigrated to the U.S. at age 27 to Indiana, she was pursuing the

american dream, which over the last 30 years has dwarfed into an actual dream for formerly middle class people.

Ex. 6 - Personal Privacy lived, loved, and worked in East Chicago, Indiana, raising two daughters. Ex. 6 - Personal Privacy was a proud steelworker; Ex. 6 - Personal Privacy a proud housewife who also cleaned offices around town.

Upon speaking with Ex. 6 - Personal Privacy who's now a widow, I learned she began experiencing nose bleeds for the first time a few years upon moving to East Chicago. Her two daughters had chronic upper respiratory issues from early childhood, including bronchitis and sinus infections. Mood swings, anxiety, and occasional angry fits haunted several members of the family.

There was no family history for any of this.

What was the history? East Chicago was built and populated engulfed by lead: a lead smelting plant, lead emitters, decades-old lead pipes, and the DuPont Paint Factory.

Ex. 6 - Personal Privacy and their children lived down the block from DuPont, which like most paint companies, helps spread beauty—along with lead-infused paint.

So, fresh off the crushing blow of losing Ex. 6 - Personal Privacy in February, Ex. 6 - Personal Privacy received notice from the EPA that her home might be in an area with high lead levels. Around the same time, I reported in East Chicago for the first time, where the EPA official Brad Benning emphatically told me there was no issue with the East Chicago water.

In October, a crew of EPA workers dug up Ex. 6 - Personal Privacy backyard soil checking for lead along with her kitchen sink water. High levels of lead was detected in Ex. 6 - Personal Privacy drinking water, backyard soil, and basement.

When Ex. 6 - Personal Privacy asked about whether she can shower safely, the EPA said yes. When she asked if they would be checking the home water heater, which is where hot shower water comes from, she was assured it wasn't necessary.

That's the same story thousands of citizens in Flint, Michigan, which despite the corporate media's complete dereliction of duty to cover, is still a disaster zone with water that's not safe to drink or bathe in—have been told. Governor Snyder has proclaimed water is safe to drink with a filter and showering/bathing as A-Ok.

But Chief Investigator at Water Defense and technology inventor, Scott Smith, who has experience and expertise in over 60 water contamination events, pushed the EPA to test home water heaters in Flint and water as it enters a home by the meter, since water from the distribution system to the water heaters are the central stream that feeds the rest of the house.

The EPA didn't take his advice.

In private testing of nearly 30 homes, Smith, who, unlike the EPA or the Michigan Department of Environment Quality—or those paid by the State of MI and/or EOA, who mainly tested at sinks for lead and copper, tested for the full gamut of harmful metals and chemicals, including arsenic, barium, phosphorous compounds, and mercury, found many different chemicals, including chloroform, a trihalomethane. Smith was joined in his testing by the Plumbers' Union (Local 370 of the United States Association of Plumbers and Pieofitters).

After hearing Ex. 6 - Personal Privacy crushing story of being a prisoner in her own home, fearful of what she touches or inhales, I consulted Scott, who offered his expertise to walk me through drawing water from Carmen's home water heater and shower myself (I dug up a fungi for good measure).

I found brownish/yellow water coming out of her home water heater—which is just two years old. This sample, along with others from her home and the one across the street the EPA didn't test, are being sent out to a lab.

As Scott told me, the EPA not testing the water heaters and water as it enters a home by the meter in Flint and East Chicago is not responsible given the contamination history.

"The EPA is doing the best it can in an environment that is driven by false narratives driven by politics and being held hostage to PR firms," he said.

"There are 3 human exposure pathways when it comes to water: ingestion(drinking),

inhalation(shower/bathing), dermal/Skin(showering/bathing), Smith began.

“There are no bathing or showering standards – and what we have learned in Flint is that cold tap water is taken from a sink from a few homes and then all water is declared safe for all homes to drink/bath/shower by government agencies,” he said, adding that people in Flint still report a myriad of health issues from drinking and bathing in water.

“No definitive conclusions can be made without more thorough testing from more data points (from water meter to water heater to hot water in showers/baths) and looking for the complete spectrum of chemicals (including chloroform and other disinfection byproducts) and bacteria (the full spectrum of bacteria).

“If the water being delivered to a home is contaminated with chemicals of concern and/or bacteria or concern, it is going to then contaminate the water heater shower water – and for anyone to deny this, it is irresponsible,” he continued.

Yet, on December 12th, during a meeting between residents and East Chicago, officials, Gregory Crowley, Utilities Director for the City of East Chicago said: “The skin does not absorb lead, so bathing is an activity that you can continue to do without the concern of having to flush those lines. So when you think about showers and baths, there’s not a need to have to flush the lines for those activities.”

For good measure, he added, “I don’t view this as a crisis.”

Smith’s response to East Chicago officials and the EPA originally saying the water was safe to drink—and currently saying it’s safe to bathe, evoked his Holiness.

“The Pope could bless and deliver the purest Holy Water at the water treatment facility in East Chicago and that would mean nothing about the safety of bathing and showering in homes.”

But I thought anything His Holiness touches is pure!

Smith had the answer: “Testing this water at the treatment facility only and not downstream

through the water distribution system [six-decade old lead pipes] and premise plumbing is meaningless because of potentially aging infrastructure that includes lead and galvanized pipes within the distribution system that can be compromised and cause."

This potential compromise could produce more than toxic lead, but also other chemicals and bacteria, Smith noted.

If the test The Young Turks and water defense conducted in Ex. 6 - Personal Privacy home—testing the water heater and the shower waster, which the EPA opted not to do—show high levels of lead or other bacteria, the EPA will have a lot of explaining to do.

So will incoming Vice President Mike Pence—who, as Governor of Indiana, didn't go to East Chicago once after lead levels of more than 218 times the allowable limit were revealed in July.

Mainly on why the state of Indiana and East Chicago officials continued to build a neighborhood of low-income Latinos and African Americans surrounded by lead without modernizing and replacing aging lead pipes. Most importantly, on how they could have told residents the water is safe to drink and bathe in.

Most importantly, further IMMEDIATE investigation and EMERGENCY FUNDING AND TESTING need to go into place.

Why?

District 5 of the EPA oversees East Chicago, Indiana. Guess what other city they're in charge of?

Flint, Michigan.

To: Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Bosscher, Valerie
Sent: Tue 1/3/2017 10:34:41 PM
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USEPA - Region 5

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Thanks

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

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100 North Senate Avenue

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317-232-8741

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From: Porter, Andrea
Sent: Tue 1/3/2017 5:42:48 PM
Subject: FW: Very Draft Comments on Letter from Indiana Congressional Representatives on East Chicago
161220 Letter to EPA Expressing Concerns Regarding EC Response.pdf

FYI

From: Korleski, Christopher
Sent: Tuesday, December 27, 2016 5:54 PM
To: Kaplan, Robert <kaplan.robert@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Beckmann, Ronna Erin <beckmann.ronna@epa.gov>; Fortin, Denise <Fortin.Denise@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Very Draft Comments on Letter from Indiana Congressional Representatives on East Chicago

Hello All:

In an attempt to assist with putting together a response to the letter from the Indiana members (attached), I took a first shot at addressing the water testing issues. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Miguel - please take the lead for WD in correcting/modifying/improving as appropriate. Other WD folks weigh in as appropriate.

<u>Assertion 1:</u>

Ex. 5 - Deliberative Process

Assertion 2:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Assertion 3:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Thanks all.

Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Bair, Rita[bair.rita@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Porter, Andrea
Sent: Tue 1/3/2017 5:40:33 PM
Subject: RE: East Chicago Draft Resident Notification Letter

Hi Rita,

Ex. 5 - Deliberative Process

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bair, Rita
Sent: Tuesday, January 03, 2017 11:13 AM
To: Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago Draft Resident Notification Letter

What is the status of the letter and sending it out?

From: Poy, Thomas
Sent: Thursday, December 22, 2016 1:48 PM
To: Porter, Andrea <porter.andrea@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: East Chicago Draft Resident Notification Letter

Attached are my edits **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Porter, Andrea
Sent: Thursday, December 22, 2016 10:04 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: FW: East Chicago Draft Resident Notification Letter

Hi Tom,

FYI – See attached. Since Rita is out, do you want to coordinate the resident results memos for East Chicago?

Ex. 5 - Deliberative Process

Let Val and I know if you want to meet to discuss this.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Dennis, Allison
Sent: Thursday, December 22, 2016 9:54 AM
To: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: East Chicago Draft Resident Notification Letter

+ Andrea and Val

From: Wadlington, Christina
Sent: Wednesday, December 21, 2016 7:45 AM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Klasen, Matthew <Klasen.Matthew@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: East Chicago Draft Resident Notification Letter

Provided are recommended edits and comments from OGWDW.

From: Dennis, Allison
Sent: Monday, December 19, 2016 10:39 AM
To: Bair, Rita <bair.rita@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Klasen, Matthew <Klasen.Matthew@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Subject: RE: East Chicago Draft Resident Notification Letter

Is the attached the latest version of this letter? We plan to review this week and send comments (if we have any).- Allison

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Friday, December 16, 2016 2:28 PM
To: Bair, Rita <bair.rita@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Benenati, Frank <benenati.frank@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Klasen, Matthew <Klasen.Matthew@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: East Chicago Draft Resident Notification Letter

IDEM is okay with this information.

Thanks

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Bair, Rita [mailto:bair.rita@epa.gov]
Sent: Thursday, December 15, 2016 4:15 PM
To: Cassell, Peter; Hollingsworth, Mary; JONES, STACY; Prater, Matthew; Kelley, Jeff
Cc: Deltoral, Miguel; Maraldo, Dean; Mendez, Thomas; Fiscus, Taylor; Bassler, Rachel; Benenati, Frank; Rowan, Anne; Korleski, Christopher; Klasen, Matthew; Loop, Travis; Dennis, Allison; Poy, Thomas; Porter, Andrea; Bosscher, Valerie; Donnelly, Peggy; Deamer, Eileen; Henry, Timothy; Cannon, Phillippa; Alcamo, Thomas; Drexler, Timothy
Subject: East Chicago Draft Resident Notification Letter

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Please find attached a draft East Chicago home water testing final sample result letter and final data template attachment for your review and comment. Once we get approval to move forward we will start getting letters out. Our staff can start preparing each home's final data attachments while folks are looking over the letter. However, please note that given that we have to manually prepare these attachments and with holiday schedules, these letters will probably go out piecemeal and we won't be completely done until early-mid January or when we get final data. Let me know if you have any questions. If finalizing this letter goes into next week, please note I will be out of the office. Please work with Tom Poy, Andrea Porter, or Val Bosscher in my absence. Thanks!

To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Henry, Timothy[henry.timothy@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]; Caudill, Motria[caudill.motria@epa.gov]
From: Korleski, Christopher
Sent: Tue 12/27/2016 8:08:11 PM
Subject: RE: Water Sampling in Zones 2 and 3 and Update on City Council Meeting Tonight

Thanks, M. Per Bob's request, I went ahead and forwarded the prior spreadsheet to Greg Crowley, **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Chris

From: Deltoral, Miguel
Sent: Tuesday, December 27, 2016 2:03 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Johnson, Mark <johnson.mark@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: RE: Water Sampling in Zones 2 and 3 and Update on City Council Meeting Tonight

Hi Chris – See responses below.

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Tuesday, December 27, 2016 1:21 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Water Sampling in Zones 2 and 3 and Update on City Council Meeting Tonight

Hi Miguel:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Site ID 3007: We now have post-excavation data not available to us on 12/2

Ex. 5 - Deliberative Process

MDT: Sounds good.

Thanks.

Chris

From: Deltoral, Miguel
Sent: Tuesday, December 20, 2016 6:48 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: Water Sampling in Zones 2 and 3

Hi Chris,

Attached are the updated charts. The first file contains all sites. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604

Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Monday, December 19, 2016 02:46 PM
To: Poy, Thomas
Cc: Henry, Timothy; Bair, Rita; Deltoral, Miguel; Donnelly, Peggy; Korleski, Christopher
Subject: FW: Water Sampling in Zones 2 and 3

Please see below. Tom, please update me on where we are with new incoming data so I can respond to Greg.

Thanks.

From: Crowley Engineering [mailto:crowley@eastchicago.com]
Sent: Monday, December 19, 2016 2:02 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Water Sampling in Zones 2 and 3

Hi Chris:

Per the Joint Agency Coordination Group Meeting held last Friday in East Chicago, I understand that there is additional drinking water sampling data available. I'm interested in receiving a copy of the most recent data for all of the homes in Zones 2 and 3. If it's easier to access this information in the future via the SharePoint that was discussed in the past, I would appreciate receiving access to that platform too.

Thanks,
Greg

From: Korleski, Christopher [korleski.christopher@epa.gov]
Sent: Friday, December 09, 2016 4:23 PM
To: philip@crowleyengineering.com; diana@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel; Crowley Engineering; Carla Morgan; 'Hollingsworth, Mary'
Subject: RE: Revised Draft Script and FAQs

Dear Phillip and Diane:

Sorry for getting back to you so late, but it's been quite a day.

Region 5 has taken a look at your proposed revisions. Although we do not have approval from our HQ on the FAQ (with or without your revisions) and therefore cannot consider it a final EPA document, Region 5 does not think your proposed revisions are unreasonable, and we think it appropriate to give deference to the City's technical judgment on the suggested revisions. Consequently, we have no concerns with the City posting the document you provided to us (including your revisions) as long as the City does not indicate that the posted FAQ is a final EPA approved document, has an EPA logo, etc. That way, you will be able to satisfy your concern of having something up on your website that will be responsive to Qs.

Thanks.

Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

From: philip@crowleyengineering.com [mailto:philip@crowleyengineering.com]
Sent: Friday, December 09, 2016 12:10 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>

Cc: Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; diana@crowleyengineering.com; 'CLARK METTLER, MARTHA' <MCLARK@idem.IN.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; 'Arango, Courtney' <CArango@idem.IN.gov>; 'Snemis, Donald (IDEM)' <DSnemis@idem.IN.gov>; 'Crowley Engineering' <crowley@eastchicago.com>; 'Carla Morgan' <cmorgan@eastchicago.com>; 'Hollingsworth, Mary' <MHolling@idem.IN.gov>
Subject: RE: Revised Draft Script and FAQs

Chris,

We appreciate the incorporation of the City's and IDEM's comments to the FAQs and the caller script. We've attached the City's final edits to the FAQs.

In light of the news breaking, we think it is critical that the City post useful advice for residents on the City website by the end of the day. We are requesting to use this FAQ, incorporating any final revisions EPA is able to provide by the end of the day, so that there is one unified message going out to residents.

Thanks,

Philip McKie

Project Assistant

Crowley Engineering

Phone: (219) 322-4422

Fax: (219) 322-2277

Website: www.crowleyengineering.com

From: Korleski, Christopher [mailto:korleski.christopher@epa.gov]
Sent: Thursday, December 8, 2016 11:14 PM
To: CLARK METTLER, MARTHA <MCLARK@idem.IN.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Arango, Courtney <CArango@idem.IN.gov>; Snemis, Donald (IDEM) <DSnemis@idem.IN.gov>; 'Crowley Engineering' <crowley@eastchicago.com>; 'Carla Morgan' <cmorgan@eastchicago.com>; Hollingsworth, Mary <MHolling@idem.IN.gov>; philip@crowleyengineering.com
Cc: Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: Re: Revised Draft Script and FAQs

Hello All:

Thanks again for all your comments and suggestions. In light of this evening's public letter from Mayor Copeland regarding the drinking water issue, EPA believes it is it imperative that we go forward with the notification to the homeowners as soon as possible. Consequently, EPA will be reaching out to residents beginning tomorrow (Friday) morning using the materials I circulated earlier this evening.

Thanks again,

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 9:32 PM
To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com

Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Revised Draft Script and FAQs

Hello IDEM and East Chicago Colleagues:

In accordance with our discussion earlier today, I am attaching for your review:

1. A revised draft script. If you review it in "all mark-up" format, you will see that I have tried to show EC's and IDEM's proposed revisions and how EPA responded to them.

2. A revised draft FAQ. Anne and her team developed two versions. The first document is our attempt to reconcile all comments. Many revisions have been incorporated; but not all suggestions were accepted. The second document shows the marked-up version of Region 5's original draft with comments from the city and IDEM.

We appreciate your getting your written proposals and comments to us earlier today, and we look forward to your comments on these latest drafts.

Finally, please note that we may be getting some additional comments from our national program office.

Thanks.

Chris

To: Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Henry, Timothy[henry.timothy@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]; Caudill, Motria[caudill.motria@epa.gov]
From: Deltoral, Miguel
Sent: Tue 12/27/2016 8:03:13 PM
Subject: RE: Water Sampling in Zones 2 and 3 and Update on City Council Meeting Tonight
East Chicago Graphs ALL SITES with summaries updated 2016-12-27.pdf

Hi Chris – See responses below.

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Tuesday, December 27, 2016 1:21 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Water Sampling in Zones 2 and 3 and Update on City Council Meeting Tonight

Hi Miguel:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

MDT: Sounds good.

Thanks.

Chris

From: Deltoral, Miguel
Sent: Tuesday, December 20, 2016 6:48 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>

Cc: Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: Water Sampling in Zones 2 and 3

Hi Chris,

Attached are the updated charts. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Monday, December 19, 2016 02:46 PM
To: Poy, Thomas
Cc: Henry, Timothy; Bair, Rita; Deltoral, Miguel; Donnelly, Peggy; Korleski, Christopher
Subject: FW: Water Sampling in Zones 2 and 3

Please see below. Tom, please update me on where we are with new incoming data so I can respond to Greg.

Thanks.

From: Crowley Engineering [mailto:crowley@eastchicago.com]

Sent: Monday, December 19, 2016 2:02 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Water Sampling in Zones 2 and 3

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Thanks,
Greg

From: Korleski, Christopher [korleski.christopher@epa.gov]
Sent: Friday, December 09, 2016 4:23 PM
To: philip@crowleyengineering.com; diana@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel; Crowley Engineering; Carla Morgan; 'Hollingsworth, Mary'
Subject: RE: Revised Draft Script and FAQs

Dear Phillip and Diane:

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Region 5 has taken a look at your proposed revisions. Although we do not have approval from our HQ on the FAQ (with or without your revisions) and therefore cannot consider it a final EPA document, Region 5 does not think your proposed revisions are unreasonable, and we think it appropriate to give deference to the City's technical judgment on the suggested revisions. Consequently, we have no concerns with the City posting the document you provided to us (including your revisions) as long as the City does not indicate that the posted FAQ is a final EPA approved document, has an EPA logo, etc. That way, you will be able to satisfy your concern of having something up on your website that will be responsive to Qs.

Thanks.

Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

From: philip@crowleyengineering.com [mailto:philip@crowleyengineering.com]
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To: Korleski, Christopher <korleski.christopher@epa.gov>
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From: Korleski, Christopher
Sent: Tue 12/27/2016 7:20:47 PM
Subject: RE: Water Sampling in Zones 2 and 3 and Update on City Council Meeting Tonight

Hi Miguel:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Also, I wanted to let you know that OEC may be sending someone (probably Rachel Bassler) to the City Council meeting tonight to provide you and Jaime with support and to handle anything that falls within OEC's bailiwick.

Thanks.

Chris

From: Deltoral, Miguel
Sent: Tuesday, December 20, 2016 6:48 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: Water Sampling in Zones 2 and 3

Hi Chris,

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Monday, December 19, 2016 02:46 PM
To: Poy, Thomas
Cc: Henry, Timothy; Bair, Rita; Deltoral, Miguel; Donnelly, Peggy; Korleski, Christopher
Subject: FW: Water Sampling in Zones 2 and 3

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U.S. Environmental Protection Agency

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312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

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Subject: Re: Water Sampling in Zones 2 and 3
East Chicago Graphs ALL SITES with summaries updated 2016-12-20.pdf
East Chicago Graphs High Pre-Excavation Sites Only updated 2016-12-16.pdf

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 5
77 West Jackson Blvd
Chicago, IL 60604

DATE: December 14, 2016

SUBJECT: Results for Samples Taken at Your Home for the Lead Sequential Sampling Pilot Study

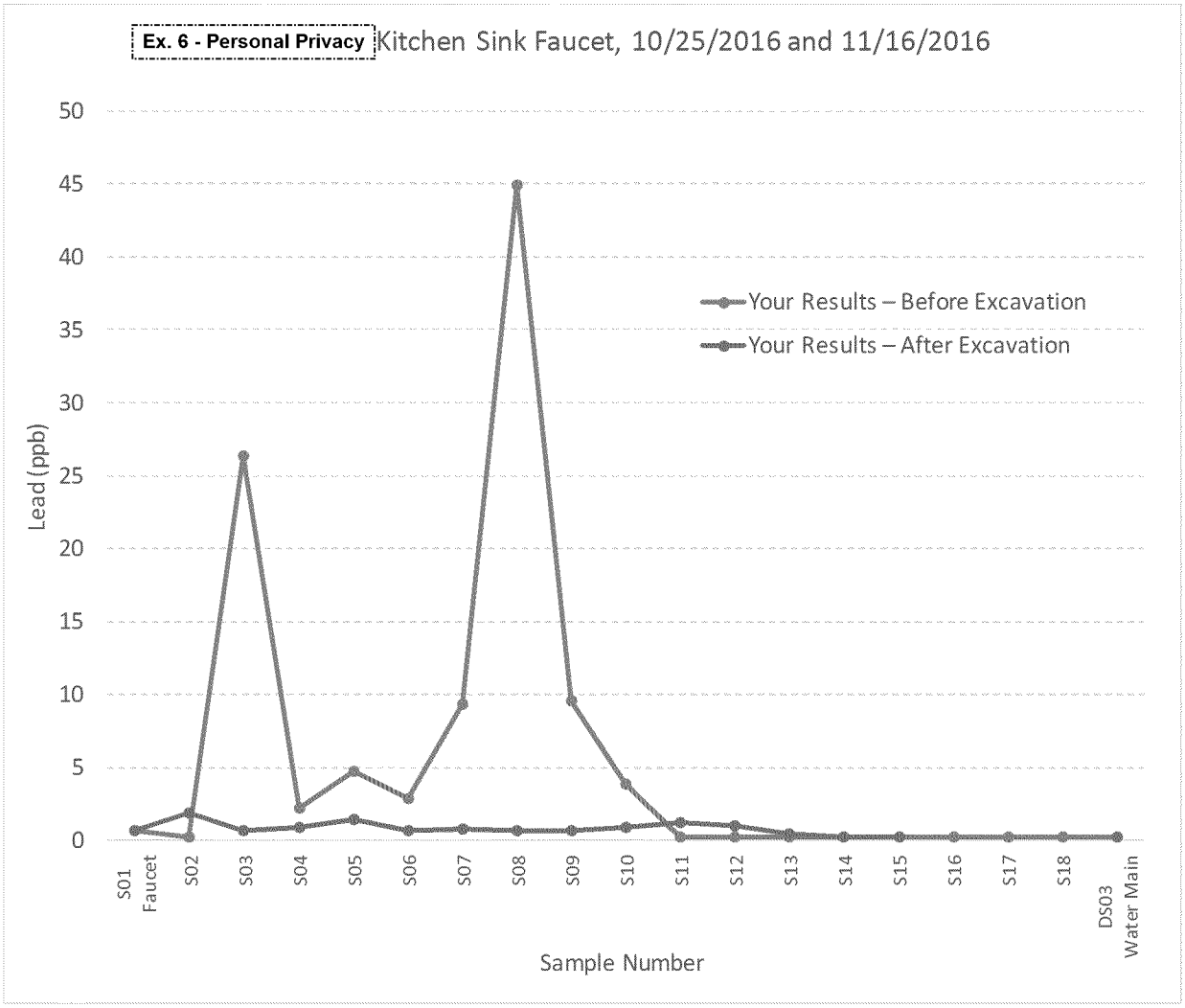
TO: Name
Address
East Chicago, Indiana Zip

FROM: U.S. EPA East Chicago Water Team

On Month xx and Month xx, 2016, EPA collected two series of xx unfiltered water samples from your kitchen faucet. EPA did these tests on a pilot basis at some of the first homes that were excavated in Zones 2 and 3 of the USS Lead Superfund Site. Like many older cities, East Chicago has a large percentage of service lines made of lead, and lead can also be found in the interior house piping, lead solder, and brass or chrome-plated brass faucets. Street and construction work can sometimes disturb the service lines that carry water from the mains in the street into the home, and there is a chance that small particles of lead can break off and get into drinking water.

Lead concentrations in the Month xx, 2016 samples, collected prior to Superfund soil excavation activities at your home, ranged from xx to xx parts per billion. Lead concentrations in the Month xx, 2016 samples, collected after the completion of Superfund soil excavation activities at your home, ranged from xx to xx parts per billion. EPA's action level for lead in drinking water is 15 parts per billion. EPA and the Centers for Disease Control and Prevention agree there is no safe level of lead exposure, especially for children and pregnant women.

The graph below shows the lead levels in the pipes leading from your faucet (left side of the diagram) to the water main under your street (right side) for each sampling event. EPA's test can help determine where lead may be coming from in your plumbing or the service line connecting your home to the water main under the street. These sample results represent a snapshot in time. These results do not show lead level trends in your home over time and cannot be used to assess long-term health impacts from lead.



All results taken at your home for the 2016 Sequential Sampling Pilot Study are attached. The full results include many substances in addition to lead levels. We realize that some of the results may be difficult to understand, so if you have questions, you can call EPA Region 5's Drinking Water program at 312-886-3473.

As part of the pilot project, EPA installed a filter on your kitchen tap and EPA recommends that you continue to use the filtered tap as your source of drinking water (including water for cooking, baby formula, and tooth brushing) until further notice. Filter cartridges should be replaced regularly (**be sure to look for "certified to remove total lead" (NSF 53 certified) for the replacement**), and aerators should be cleaned on a weekly basis. Unfiltered tap water can be used to wash dishes, clothes, and to clean homes. It can also be used for showers and children's baths. Enclosed is the Drinking Water Safety Information for East Chicago Residents Fact Sheet and for additional information on measures you can take, see our website at https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water.

EPA has notified the Indiana Department of Environmental Management and the city about the results from EPA's pilot project. IDEM has been working with the city to ensure that corrosion control treatment is being introduced into the water at a high enough level to increase the coating of the lines and reduce lead levels in your home. The city of East Chicago has been in full compliance with the EPA's "Lead and Copper Rule" since 1993, and the city currently meets all applicable federal and state rules on lead and copper in drinking water.

If you have any questions regarding the soil or dust sampling at your home, or the Superfund cleanup activities, call the USS Lead Superfund Site Hotline at 219-801-2199. It is not possible for lead from contaminated soil to get into your tap water. If there is elevated lead in your tap water, it is most likely due to the presence of lead in your service lines and/or the plumbing in your home.

Attachments:
Final Analytical Results
Drinking Water Safety Information for East Chicago Residents Fact Sheet

Ex. 6 - Personal Privacy - Kitchen Sink Faucet
Sequential Sampling by U.S. EPA on MM/DD/2016
Final Analytical Results

Parameter	Units	Your Results - Before Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
(U) = Not detected above the listed reporting limit
(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL), ranges from 0.014 ppb to 0.35 ppb for Flint lead data reported by EPA, indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL), ranges from 0.50 ppb to 1.0 ppb for Flint lead data reported by EPA, is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

Ex. 6 - Personal Privacy – Kitchen Sink Faucet

Sequential Sampling by U.S. EPA on MM/DD/2016

Final Analytical Results

Parameter	Units	Your Results - After Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
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Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
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To: Bair, Rita[bair.rita@epa.gov]
From: Bosscher, Valerie
Sent: Fri 12/16/2016 6:34:13 PM
Subject: RE: USS Lead - 2nd Sequential data for Zone 3

Ex. 5 - Deliberative Process

Hope this helps,

Val

From: Bair, Rita
Sent: Friday, December 16, 2016 12:04 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: USS Lead - 2nd Sequential data for Zone 3

Thanks, but I think we have agreement **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

From: Bosscher, Valerie
Sent: Friday, December 16, 2016 11:24 AM
To: Bair, Rita <bair.rita@epa.gov>
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Chicago Regional Laboratory

USEPA Region 5

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Importance: High

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Tim/Jacob - Please make sure the contractors inform the residents **not to use any water at all throughout the home** during the minimum six-hour stagnation period (no kitchen or bathroom taps, no showering/bathing, no toilet flushing, no washing clothes, etc.). Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process I will also be sending you folks a list of the missing information I need for each site (e.g., service line/internal plumbing material).

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

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Subject: RE: USS Lead - 2nd Sequential data for Zone 3

Per Miguel's request, I filled out an analytical request form for CRL (attached as DRAFT) to take the last 10 East Chicago sites and have some follow-up clarifications/requests:

- Does Superfund (or the Water Team) already have bottleware for these sites?

SRS (Zone 3) has enough bottles to do the remaining properties.

Ex. 5 - Deliberative Process

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o **I just noticed that CT Labs [Zone 2] does not appear to be reporting Sodium, fyi.**

- Should Superfund be the point of contact? **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Superfund:

Tim Drexler

Tom Alcamo

Kevin Adler

Brian Cooper

TetraTech Data Manager:

Randy Dorian - Randy.Dorian@tetratech.com

SRS Data Validation Manager:

Rich Baldino - RBaldino@srsllc.com

Ex. 5 - Deliberative Process

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Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

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What are the residents' issues? Maybe we can help with that.

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From: Hassan, Jacob
Sent: Wednesday, December 7, 2016 02:26 PM
To: Deltoral, Miguel
Cc: Donnelly, Peggy; Maraldo, Dean; Mendez, Thomas; Drexler, Timothy
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Federal On-Scene Coordinator

77 W Jackson Blvd

Chicago, IL 60604

Ph: 312-886-6864

To: Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Porter, Andrea
Sent: Thur 12/15/2016 9:13:28 PM
Subject: RE: Draft EC Memo

Hi Val and Rita,

I agree – the memo and results attachment template look great!

Thanks for doing this so quickly,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bair, Rita
Sent: Thursday, December 15, 2016 2:59 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Draft EC Memo

Great job with the letter and attachment template. I made some edits to the letter (in red) and moved

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 2:22 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Draft EC Memo

Rita,

Please see attached for a DRAFT memo template, Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process incorporating East Chicago information from the script and FAQ. I am also attaching a template for how the analytical results would be attached.

I have referenced the Drinking Water Safety Information for East Chicago Residents Fact Sheet as an enclosure: https://www.epa.gov/sites/production/files/2016-08/documents/drinkingwatersafetyflyer.pdf

Let me know if you need anything else.

Thanks!

Val

From: Bair, Rita
Sent: Thursday, December 15, 2016 12:57 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Draft EC Memo

If you could finish it up that would be great! I will send to OPA after those revisions. Thanks

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 10:51 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: Draft EC Memo

Rita,

I pulled the attached DRAFT memo together based on Ex. 5 - Deliberative Process final script from last Friday's calls. There are a few things that I wanted to add or look into, which are flagged in comments. Let me know if you'd like me to work further on this when I get back around 12:15/12:30.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

To: Bair, Rita[bair.rita@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Thur 12/15/2016 8:22:13 PM
Subject: RE: Draft EC Memo
EC_sequential_data_DRAFT_20161215.xlsx
DRAFT EC sequential_sampling_memo.DOCX

Rita,

Please see attached for a DRAFT memo template, Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process incorporating East Chicago information from the script and FAQ. I am also attaching a template for how the analytical results would be attached.

I have referenced the Drinking Water Safety Information for East Chicago Residents Fact Sheet as an enclosure: https://www.epa.gov/sites/production/files/2016-08/documents/drinkingwatersafetyflyer.pdf

Let me know if you need anything else.

Thanks!

Val

From: Bair, Rita
Sent: Thursday, December 15, 2016 12:57 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Draft EC Memo

If you could finish it up that would be great! I will send to OPA after those revisions. Thanks

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 10:51 AM

To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: Draft EC Memo

Rita,

I pulled the attached DRAFT memo together based on **Ex. 5 - Deliberative Process** EC final script from last Friday's calls. There are a few things that I wanted to add or look into, which are flagged in comments. Let me know if you'd like me to work further on this when I get back around 12:15/12:30.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

Ex. 6 - Personal Privacy **Kitchen Sink Faucet**

Sequential Sampling by U.S. EPA on MM/DD/2016

Final Analytical Results

Parameter	Units	Your Results - Before Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL), ranges from 0.014 ppb to 0.35 ppb for Flint lead data reported by EPA, indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL), ranges from 0.50 ppb to 1.0 ppb for Flint lead data reported by EPA, is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

Ex. 6 - Personal Privacy - **Kitchen Sink Faucet**

Sequential Sampling by U.S. EPA on MM/DD/2016

Final Analytical Results

Parameter	Units	Your Results - After Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

µg/L = micrograms per liter (also called ppb or parts per billion)

(U) = Not detected above the listed reporting limit

(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

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Reporting Limit (RL), ranges from 0.50 ppb to 1.0 ppb for Flint lead data reported by EPA, is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

To: Bair, Rita[bair.rita@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]; Rodriguez, Charles[rodriguez.charles@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]; Haag, Daniel[Haag.Daniel@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
From: Deltoral, Miguel
Sent: Thur 12/15/2016 6:57:40 PM
Subject: Re: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Update: I spoke to the resident at Ex. 6 - Personal Privacy today. Notes are in the master.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 09:55 AM
To: Bair, Rita; Mendez, Thomas; Porter, Andrea; Kuefler, Janet; Pope, Janet
Cc: Bosscher, Valerie; Rodriguez, Charles; Korleski, Christopher; Poy, Thomas; Henry, Timothy; Rowan, Anne; Cassell, Peter; Drexler, Timothy; Alcamo, Thomas; Hassan, Jacob; Haag, Daniel; Maraldo, Dean; Donnelly, Peggy
Subject: Re: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

I added one site to the list below that I have to call back.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, December 15, 2016 09:47 AM
To: Mendez, Thomas; Porter, Andrea; Kuefler, Janet; Pope, Janet

Cc: Bosscher, Valerie; Deltoral, Miguel; Rodriguez, Charles; Korleski, Christopher; Poy, Thomas; Henry, Timothy; Rowan, Anne; Cassell, Peter; Drexler, Timothy; Alcamo, Thomas; Hassan, Jacob; Haag, Daniel; Maraldo, Dean; Donnelly, Peggy
Subject: RE: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Please let me know if you can make a return call to the home (listed below) that you called last week with the recent preliminary post-excavation lead data. The message is that they will receive a letter once we have final data in. **Ex. 5 - Deliberative Process** will be rescheduled, but possibly in mid-January. The updated data is on the spreadsheet.

Please let me know if you cannot make the call, so I can re-assign. Thanks again.

Also, let me know if you have questions.

Tom M. – Site ID 3097

Janet K. – Site ID 3343

Janet K. – Site ID 3368

Andrea – Site ID 3406

Janet P. – Site ID 3383

Miguel -- Site ID 3332

From: Donnelly, Peggy
Sent: Wednesday, December 14, 2016 7:43 PM
To: Mendez, Thomas <mendez.thomas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Subject: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Rita (and all) -

We received several sets of Zone 3 data today. Wondering if we can call those people with results? If so, can you assign to folks and let us know?

Ex. 5 - Deliberative Process

From: Bair, Rita
Sent: Friday, December 09, 2016 8:27 AM
To: Kuefler, Janet <kuefler.janet@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: EC Notifications to Begin on Friday

Pease start making calls this morning and recording it on the spreadsheet. The call list was sent out yesterday. Please remember to include the homes where you are designated as a backup for Alex and Andrew. Let me know if you have questions.

Attached is the approved script and the draft Q&A's for reference.

From: Korleski, Christopher
Sent: Thursday, December 08, 2016 11:24 PM
To: Bair, Rita <bair.rita@epa.gov>

Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>
Subject: Notifications to Begin on Friday

Rita:

Please have the team begin the notification process as early as possible (i.e. 8:00) on Friday morning using the materials I circulated to everyone this evening.

Thanks.

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 11:14 PM
To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Re: Revised Draft Script and FAQs

Hello All:

Thanks again for all your comments and suggestions. In light of this evening's public letter from Mayor Copeland regarding the drinking water issue, EPA believes it is it imperative that we go forward with the notification to the homeowners as soon as possible. Consequently, EPA will be reaching out to residents beginning tomorrow (Friday) morning using the materials I circulated earlier this evening.

Thanks again,

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 9:32 PM
To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Revised Draft Script and FAQs

Hello IDEM and East Chicago Colleagues:

In accordance with our discussion earlier today, I am attaching for your review:

1. A revised draft script. If you review it in "all mark-up" format, you will see that I have tried to show EC's and IDEM's proposed revisions and how EPA responded to them.

2. A revised draft FAQ. Anne and her team developed two versions. The first document is our attempt to reconcile all comments. Many revisions have been incorporated; but not all suggestions were accepted. The second document shows

the marked-up version of Region 5's original draft with comments from the city and IDEM.

We appreciate your getting your written proposals and comments to us earlier today, and we look forward to your comments on these latest drafts.

Finally, please note that we may be getting some additional comments from our national program office.

Thanks.

Chris

To: Mendez, Thomas[mendez.thomas@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Rodriguez, Charles[rodriguez.charles@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Donnelly, Peggy
Sent: Thur 12/15/2016 4:18:15 PM
Subject: Re: EC Notifications to Begin on Friday

Investigator extraordinaire! Thanks for finding and fixing it, Tom! We're going to miss you!!

Sent from my iPhone

On Dec 15, 2016, at 10:12 AM, Mendez, Thomas <mendez.thomas@epa.gov> wrote:

Ok I think I found out what happened. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Everyone, are we missing any notes now in the current version?

Ex. 5 - Deliberative Process

<image003.jpg>

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

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From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 8:56 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

I have added my notes for the calls made Friday and this morning.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 08:20 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Spreadsheet on sharepoint is updated. Analytical reports are also uploaded to Sharepoint.

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 7:12 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 07:10 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 6:12 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Mendez, Thomas
Sent: Wednesday, December 14, 2016 05:17 PM
To: Bair, Rita; Bosscher, Valerie; Porter, Andrea; Donnelly, Peggy; Deltoral, Miguel; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

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From: Bair, Rita
Sent: Friday, December 09, 2016 8:27 AM
To: Kuefler, Janet <kuefler.janet@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: EC Notifications to Begin on Friday

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Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
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From: Bosscher, Valerie
Sent: Thur 12/15/2016 4:15:36 PM
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

From: Mendez, Thomas
Sent: Thursday, December 15, 2016 10:12 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
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92.0	12/9/2016 12:16 PM	Donnelly, Peggy	78.2 KB	

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

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Sent: Thursday, December 15, 2016 8:56 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

I have added my notes for the calls made Friday and this morning.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 08:20 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Spreadsheet on sharepoint is updated. Analytical reports are also uploaded to Sharepoint. Do we need to let IDEM know they can see new data?

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<rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Yes, definitely. I also have to add my notes from calls last Friday but I will wait until the updated file is back on sharepoint. Please let me know when its up there.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 07:10 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
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Ex. 5 - Deliberative Process

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Sent: Thursday, December 15, 2016 6:12 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
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From: Mendez, Thomas
Sent: Wednesday, December 14, 2016 05:17 PM
To: Bair, Rita; Bosscher, Valerie; Porter, Andrea; Donnelly, Peggy; Deltoral, Miguel; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

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Thanks.

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To: Bair, Rita[bair.rita@epa.gov]
From: Mendez, Thomas
Sent: Thur 12/15/2016 4:14:32 PM
Subject: RE: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

No problem. I'll call

Thomas Mendez
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Water Team Lead (Flint)
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Subject: RE: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Please let me know if you can make a return call to the home (listed below) that you called last week with the recent preliminary post-excavation lead data. The message is that they will receive a letter once we have final data in. In addition, we are not sure when the Open House

will be rescheduled, but possibly in mid-January. The updated data is on the spreadsheet.

Please let me know if you cannot make the call, so I can re-assign. Thanks again.

Also, let me know if you have questions.

Tom M. – Site ID 3097

Janet K. – Site ID 3343

Janet K. – Site ID 3368

Andrea – Site ID 3406

Janet P. – Site ID 3383

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Rita (and all) -

We received several sets of Zone 3 data today. Wondering if we can call those people with results? If so, can you assign to folks and let us know?

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97.0	12/9/2016 1:23 PM	Porter, Andrea	78.6 KB	
96.0	12/9/2016 1:18 PM	Bair, Rita	78.6 KB	
95.0	12/9/2016 1:03 PM	Donnelly, Peggy	78.6 KB	
94.0	12/9/2016 12:37 PM	Donnelly, Peggy	78.4 KB	
93.0	12/9/2016 12:32 PM	Donnelly, Peggy	78.4 KB	
92.0	12/9/2016 12:16 PM	Donnelly, Peggy	78.2 KB	

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

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not release under FOIA without appropriate review. If this message has been received by you in error, you are instructed to delete this message, together with any attachments, from your computer and all storage media, whether electronic or hard copy.

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 8:56 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

I have added my notes for the calls made Friday and this morning.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 08:20 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Spreadsheet on sharepoint is updated. Analytical reports are also uploaded to Sharepoint. Do we need to let IDEM know they can see new data?

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 7:12 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles

<rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Yes, definitely. I also have to add my notes from calls last Friday but I will wait until the updated file is back on sharepoint. Please let me know when its up there.

Miguel A. Del Toral

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U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 07:10 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 6:12 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

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U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Mendez, Thomas
Sent: Wednesday, December 14, 2016 05:17 PM
To: Bair, Rita; Bosscher, Valerie; Porter, Andrea; Donnelly, Peggy; Deltoral, Miguel; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

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Chris

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Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
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From: Deltoral, Miguel
Sent: Thur 12/15/2016 3:55:03 PM
Subject: Re: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

I added one site to the list below that I have to call back.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, December 15, 2016 09:47 AM
To: Mendez, Thomas; Porter, Andrea; Kuefler, Janet; Pope, Janet
Cc: Bosscher, Valerie; Deltoral, Miguel; Rodriguez, Charles; Korleski, Christopher; Poy, Thomas; Henry, Timothy; Rowan, Anne; Cassell, Peter; Drexler, Timothy; Alcamo, Thomas; Hassan, Jacob; Haag, Daniel; Maraldo, Dean; Donnelly, Peggy
Subject: RE: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Please let me know if you can make a return call to the home (listed below) that you called last week with the recent preliminary post-excavation lead data. The message is that they will receive a letter once we have final data in. In addition, we are not sure when the Open House will be rescheduled, but possibly in mid-January. The updated data is on the spreadsheet.

Please let me know if you cannot make the call, so I can re-assign. Thanks again.

Also, let me know if you have questions.

Tom M. – Site ID 3097

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Janet K. – Site ID 3368

Andrea – Site ID 3406

Janet P. – Site ID 3383

Miguel -- Site ID 3332

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Sent: Wednesday, December 14, 2016 7:43 PM
To: Mendez, Thomas <mendez.thomas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
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Rita (and all) -

We received several sets of Zone 3 data today. Wondering if we can call those people with results? If so, can you assign to folks and let us know?

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Chris

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From: Kuefler, Janet
Sent: Thur 12/15/2016 3:54:33 PM
Subject: RE: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Yes, I can do this.

From: Bair, Rita
Sent: Thursday, December 15, 2016 9:48 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Kuefler, Janet <kuefler.janet@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
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From: Cassell, Peter
Sent: Thur 12/15/2016 3:24:21 PM
Subject: Re: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Is there a draft results letter we can look at? I'll check with everyone about the rest of this. I

Ex. 5 - Deliberative Process

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

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Cc: Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
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From: Cassell, Peter
Sent: Thur 12/15/2016 3:24:20 PM
Subject: Re: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Can we get an updated table?

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

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From: Deltoral, Miguel
Sent: Thur 12/15/2016 2:56:07 PM
Subject: Re: EC Notifications to Begin on Friday

I have added my notes for the calls made Friday and this morning.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

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Thanks Val,

I'll add my call notes right now. I don't know if IDEM is going to the meeting with the mayor tomorrow in EC but if so, they should get the updates today. I will send out the updated graphs later today, which should also be forwarded.

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From: Bosscher, Valerie
Sent: Thur 12/15/2016 2:20:52 PM
Subject: RE: EC Notifications to Begin on Friday

Spreadsheet on sharepoint is updated. Analytical reports are also uploaded to Sharepoint. Do we need to let IDEM know they can see new data?

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Sent: Thursday, December 15, 2016 7:12 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
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From: Deltoral, Miguel
Sent: Thur 12/15/2016 12:11:36 PM
Subject: Re: EC Notifications to Begin on Friday
East Chicago sequential - master downloaded 12-12-2016.xlsx

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Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
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Thanks again,

Chris

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Thanks.

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From: Donnelly, Peggy
Sent: Thur 12/15/2016 1:43:15 AM
Subject: EC calls for new Z3 prelim data received today? And letters for Z2 since all data final?

Rita (and all) -

We received several sets of Zone 3 data today. Wondering if we can call those people with results? If so, can you assign to folks and let us know?

Ex. 5 - Deliberative Process

From: Bair, Rita
Sent: Friday, December 09, 2016 8:27 AM
To: Kuefler, Janet <kuefler.janet@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: EC Notifications to Begin on Friday

Pease start making calls this morning and recording it on the spreadsheet. The call list was sent out yesterday. Please remember to include the homes where you are designated as a backup for Alex and Andrew. Let me know if you have questions.

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From: Mendez, Thomas
Sent: Wed 12/14/2016 11:17:08 PM
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

Confidential: This transmission may contain deliberative, attorney-client, attorney work product or otherwise privileged material. Do not release under FOIA without appropriate review. If this message has been received by you in error, you are instructed to delete this message, together with any attachments, from your computer and all storage media, whether electronic or hard copy.

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From: Cassell, Peter
Sent: Tue 12/13/2016 7:30:53 PM
Subject: RE: article --> "Update: East Chicago Lead Contamination Drinking Water"

Im calling you now.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Deltoral, Miguel
Sent: Tuesday, December 13, 2016 1:30 PM
To: Cassell, Peter <cassell.peter@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
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U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

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Yes. Stay tuned

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U.S. EPA Region 5

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Sent: Tuesday, December 13, 2016 8:19 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: article --> "Update: East Chicago Lead Contamination Drinking Water"

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Link → http://lakeshorepublicmedia.org/update-east-chicago-lead-contamination-

drinking-water/

See highlighted sentences.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

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December 12, 2016

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From: Deltoral, Miguel
Sent: Tue 12/13/2016 7:29:33 PM
Subject: Re: article --> "Update: East Chicago Lead Contamination Drinking Water"

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Link → http://lakeshorepublicmedia.org/update-east-chicago-lead-contamination-drinking-water/

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Environmental Engineer

Ground Water & Drinking Water Branch

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From: Cassell, Peter
Sent: Tue 12/13/2016 3:47:39 PM
Subject: Re: article --> "Update: East Chicago Lead Contamination Drinking Water"

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From: Deltoral, Miguel
Sent: Tue 12/13/2016 2:53:02 PM
Subject: Re: article --> "Update: East Chicago Lead Contamination Drinking Water"

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process The city of East Chicago has tons of lead service lines and the lead is coming from the city's portions of these lead service lines as well as the residents' portions of the service lines and typically to a much lesser extent, the internal plumbing.

Miguel A. Del Toral
Regulations Manager, GWDWB
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On Dec 13, 2016, at 8:45 AM, Cassell, Peter <cassell.peter@epa.gov> wrote:

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Ex. 5 - Deliberative Process

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

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On Dec 13, 2016, at 8:36 AM, Kelley, Jeff <kelley.jeff@epa.gov> wrote:

Ex. 5 - Deliberative Process Pete, did you watch the entire video online?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

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cassell.peter@epa.gov

Sent from my mobile device - please pardon typos.

On Dec 13, 2016, at 8:27 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process The statements that the high lead was caused by excavation and that testing 'before the cleanup' shows they were in compliance (implying our pre-excavation data) is very obviously not true.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Porter, Andrea
Sent: Tuesday, December 13, 2016 08:19 AM
To: Deltoral, Miguel; Bosscher, Valerie
Cc: Bair, Rita; Poy, Thomas
Subject: article --> "Update: East Chicago Lead Contamination Drinking Water"

Hi All,

Article: "Update: East Chicago Lead Contamination Drinking Water"

Link → http://lakeshorepublicmedia.org/update-east-chicago-lead-contamination-drinking-water/

Update: East Chicago Lead Contamination Drinking Water | Lakeshore

lakeshorepublicmedia.org

Northwest Indiana based news, culture, sports and educational audio and video from 89.1FM, The Lakeshore (NPR) and Lakeshore Public Television (PBS).

See highlighted sentences.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

Update: East Chicago Lead Contamination Drinking Water

December 12, 2016

By: Nick Janzen, IPB News

EAST CHICAGO -The City of East Chicago, Indiana told residents the high lead levels recently measured in parts of the city's drinking water are likely the result of efforts to clean up the lead in the soil there.

East Chicago Utilities Director Greg Crowley told residents that heavy machinery and soil excavation can knock loose lead in the city's older service lines, but can't release more details.

“They provided us some preliminary results, um, they wanted to validate their results, so we do not have final data,” said Crowley.

The Environmental Protection Agency tested 45 homes in parts of the USS Lead Superfund site. Eighteen homes did have elevated levels.

Crowley says testing conducted before the cleanup shows East Chicago as a whole is in compliance with safe drinking water standards.

About half a dozen residents spoke at the meeting. Gilda Orange asked city officials to be open and provide accurate information.

“Our concerns is when people leave here, we’re still here, I’m not going anywhere, I’m going to die in my house and, whether it’s by lead, by cancer, by whatever, because we traded jobs for pollution a long time ago,” Orange said.

Utilities Director Crowley says residents can install filters or flush their water to reduce lead risk. He says the city is looking into ways to help residents cover those costs.

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Kuefler, Janet[kuefler.janet@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Rodriguez, Charles[rodriguez.charles@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]
From: Deltoral, Miguel
Sent: Fri 12/9/2016 3:09:32 PM
Subject: RE: EC Notifications to Begin on Friday

I agree with Val.

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Friday, December 09, 2016 8:32 AM
To: Cassell, Peter <cassell.peter@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Kuefler, Janet <kuefler.janet@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: RE: EC Notifications to Begin on Friday

The sequential sampling might better be described as in the FAQ:

"The sequential sampling for the pilot project measures lead levels throughout an individual's homes piping system from the water main to the street to the tap which is more rigorous series of tests." Sequential sampling has been used by many researchers who study lead in drinking water, including previous studies by EPA.

From: Cassell, Peter
Sent: Friday, December 09, 2016 8:29 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Kuefler, Janet <kuefler.janet@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

Thanks.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

Sent from my mobile device - please pardon typos.

On Dec 9, 2016, at 8:27 AM, Bair, Rita <bair.rita@epa.gov> wrote:

> Pease start making calls this morning and recording it on the spreadsheet. The call list was sent out yesterday. Please remember to include the homes where you are designated as a backup for Alex and Andrew. Let me know if you have questions.
>
> Attached is the approved script and the draft Q&A's for reference.

From: Korleski, Christopher
Sent: Thursday, December 08, 2016 11:24 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>
Subject: Notifications to Begin on Friday

Rita:

Please have the team begin the notification process as early as possible (i.e. 8:00) on Friday morning using the materials I circulated to everyone this evening.

Thanks.

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 11:14 PM
To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Re: Revised Draft Script and FAQs

Hello All:

Thanks again for all your comments and suggestions. In light of this evening's public letter from Mayor Copeland regarding the drinking water issue, EPA believes it is it imperative that we go forward with the notification to the homeowners as soon as possible. Consequently, EPA will be reaching out to residents beginning tomorrow (Friday) morning using the materials I circulated earlier this evening.

Thanks again,

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 9:32 PM
To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Revised Draft Script and FAQs

Hello IDEM and East Chicago Colleagues:

In accordance with our discussion earlier today, I am attaching for your review:

1. A revised draft script. If you review it in "all mark-up" format, you will see that I have tried to show EC's and IDEM's proposed revisions and how EPA responded to them.

2. A revised draft FAQ. Anne and her team developed two versions. The first document is our attempt to reconcile all comments. Many revisions have been incorporated; but not all suggestions were accepted. The second document shows the marked-up version of Region 5's original draft with comments from the city and IDEM.

We appreciate your getting your written proposals and comments to us earlier today, and we look forward to your comments on these latest drafts.

Finally, please note that we may be getting some additional comments from our national program office.

Thanks.

Chris

<EC notification script 12 8 16 korleski.docx>

<East Chicago FAQs 12-9-16.docx>

To: Korleski, Christopher[korleski.christopher@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
From: Deltoral, Miguel
Sent: Thur 12/8/2016 9:59:11 PM
Subject: Re: Draft East Chicago Notification and Q&A Document: For Your Review

Just FYI - I looked at the IDEM & EC comments on the script and I think they are both fine.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 03:22 PM
To: Rowan, Anne; Cassell, Peter; Bassler, Rachel; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Donnelly, Peggy; Porter, Andrea; Mendez, Thomas; Maraldo, Dean; Bosscher, Valerie; Henry, Timothy
Cc: Korleski, Christopher
Subject: FW: Draft East Chicago Notification and Q&A Document: For Your Review

Hey Team:

True to her word, Mary has provided IDEM's comments on our draft. Please do review them. Please do not start writing anything up. I'm going to work on crafting the revised notification, and Anne is going to start revising the FAQs. Once Anne and I have our drafts completed, we will circulate them internally for comment before sending back to EC and IDEM. As I said, time is of the essence.

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Thursday, December 08, 2016 2:28 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: CLARK METTLER, MARTHA <MCLARK@idem.IN.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Arango, Courtney <CArango@idem.IN.gov>; Snemis, Donald (IDEM) <DSnemis@idem.IN.gov>

Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Attached are IDEM's comments.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

To: Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]
From: Korleski, Christopher
Sent: Thur 12/8/2016 9:22:05 PM
Subject: FW: Draft East Chicago Notification and Q&A Document: For Your Review
FAQs.ECwater.Tuesday_noon IDEM.docx
Tues scriptECwater final draft IDEM.docx

Hey Team:

True to her word, Mary has provided IDEM's comments on our draft. Please do review them. Please do not start writing anything up. I'm going to work on crafting the revised notification, and Anne is going to start revising the FAQs. Once Anne and I have our drafts completed, we will circulate them internally for comment before sending back to EC and IDEM. As I said, time is of the essence.

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Sent: Thursday, December 08, 2016 2:28 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: CLARK METTLER, MARTHA <MCLARK@idem.IN.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Arango, Courtney <CArango@idem.IN.gov>; Snemis, Donald (IDEM) <DSnemis@idem.IN.gov>
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Attached are IDEM's comments.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Kauth, Paisly
Location: GIS EOC & Conference number (877) 226-9607, Ex. 6 - Personal Privacy
Importance: Normal
Subject: GIS and Data Call - Flint
Start Date/Time: Thur 12/8/2016 8:15:00 PM
End Date/Time: Thur 12/8/2016 9:00:00 PM

GIS and Data Call - Flint
Weekly meetings on Thursday seem to be sufficient.

Conference number (877) 226-9607, Code: Ex. 6 - Personal Privacy
If needed: Adobe Connect URL: Ex. 6 - Personal Privacy

Please forward to anyone I missed

Note: start time delayed 15 minutes, Carmen will be leading call, agenda below

Roll Call:

Reminders:
- Brian: supporting East Chicago, will impact Flint
- Jon: if any data issues come up, bring up on this call so he can try to resolve

Transition
- GIS RST support
  - Paisly will complete Lead Sequential Round 5 map and residual chlorine updates
  - Ed will complete updates of last round of recurring chlorine samples (mid-January)
  - Jan will support Qlik through ???
  - Lucy will support StoryMap through FY17
  - Still need information on transfer of ownership/editing of GPO maps & data after GIS RST ends support in January
    - Need to make decision on who will take over (maintain and update) internal parcel viewer
  - More sequential rounds TBD at data summit January 10--who will provide GIS support?
- Brian thinking about support for data, suggested he send a message to Durno about what are Flint needs for 2017

Data
- New Cornwell request (Chlorine Residual Monitoring and Recurring Chlorine Monitoring sampling rounds)
- Other issues?

Mapping/GIS
- Round 5 sequential lead
  - Current data added to parcel viewer 12/6

    - Jonathan B shadowed
    - Need final data (public services) and language to create draft public maps
- Recurring chlorine map updates for past 4 weeks to be updated 12/9, pending availability of data and services
    - Jonathan B to shadow
    - Data collection will end at end of year, maps will be updated with last round of data (mid-January)
- Updates to residual screening public map will be completed after updated service with Round 4 & 5 data is available (Val sent language on 12/6)

Data visualization (Jan) http://qlikviz.epa.gov/

Story Maps (Lucy)

- Updates expected after Jeff Kelley returns next week

To: Crowley Engineering[crowley@eastchicago.com]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Carla Morgan[cmorgan@eastchicago.com]; Diana Schmoe[diana@crowleyengineering.com]
From: Korleski, Christopher
Sent: Wed 12/7/2016 7:19:20 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Hey Everybody – Through a miscommunication, the initial invite said the call would start at 3:30. Per Greg's request, the call will start at 3:15. There will be another invitation going out. The call-in info is unchanged.

EPA folks – meet in my office.

Sorry for the confusion. Thanks.

Chris

From: Crowley Engineering [mailto:crowley@eastchicago.com]
Sent: Wednesday, December 07, 2016 10:41 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Carla Morgan <cmorgan@eastchicago.com>; Diana Schmoe <diana@crowleyengineering.com>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Chris:

I can talk at 3:15 pm today instead. I will have to make a hard-stop at 4:00 pm though for another meeting obligation. Is there a conference line that you can provide for all of the participants?

Thanks,
Greg

From: Korleski, Christopher [korleski.christopher@epa.gov]
Sent: Wednesday, December 07, 2016 10:00 AM
To: Crowley Engineering
Cc: Poy, Thomas; Bair, Rita; Deltoral, Miguel; Rowan, Anne; Cassell, Peter; Bassler, Rachel; Kaplan, Robert; Carla Morgan
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Hey Greg:

Thanks for getting back to me.

The only meeting I have today that I can't move is from 2-3 (with folks who are traveling in from out of state). I can clear my schedule anytime after 3:00 for a call with you and will try to make sure other appropriate EPA team members (who can answer technical Qs better than I can) are available too. Do you have any flexibility?

Thanks for your consideration.

Chris

From: Crowley Engineering [mailto:crowley@eastchicago.com]
Sent: Wednesday, December 07, 2016 9:53 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Carla Morgan <cmorgan@eastchicago.com>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Chris:

I was on the road through late yesterday, so I didn't get a chance to see your e-mail until this morning. I would be interested in having a phone call this afternoon to discuss the draft documents. Are you available for a call at 2 pm today?

Thanks,

Greg

From: Korleski, Christopher [korleski.christopher@epa.gov]
Sent: Tuesday, December 06, 2016 3:50 PM
To: Crowley Engineering
Cc: Poy, Thomas; Bair, Rita; Deltoral, Miguel; Rowan, Anne; Cassell, Peter; Bassler, Rachel; Kaplan, Robert; Korleski, Christopher
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Greg:

I am attaching for the City's review:

1. The draft script for notifying East Chicago residents about the lead levels found in their drinking water samples; and

2. A draft Q&A relating to the lead levels found in the residents' drinking water samples.

The draft notification script (as well as the Q&A) is undergoing EPA HQ review, and may be subject to change. Nevertheless, we think this is pretty close to final and would like to know if the City concurs with the draft so, barring any major changes, we can proceed with notifying the residents.

We're also sharing these two draft documents with IDEM and asking them to concur as well. Our goal is to make sure that EPA, IDEM and the City are all on the same page with regard to what we will be telling the homeowners about the lead levels found in the drinking water samples collected from their homes.

Miguel Deltoral may have already reached out to you, but can you please tell me if you have any time tomorrow (Thursday) to talk with us about these documents so we can move forward?

Thanks for your assistance, and any Qs, please let me know. My direct is 312 353 8320.

Chris

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Crowley Engineering[crowley@eastchicago.com]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Carla Morgan[cmorgan@eastchicago.com]; Diana Schmoe[diana@crowleyengineering.com]
From: Korleski, Christopher
Sent: Wed 12/7/2016 5:26:43 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Thanks, Greg. Invite and call-in number will be forthcoming.

From: Crowley Engineering [mailto:crowley@eastchicago.com]
Sent: Wednesday, December 07, 2016 10:41 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Carla Morgan <cmorgan@eastchicago.com>; Diana Schmoe <diana@crowleyengineering.com>
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Sent: Tuesday, December 06, 2016 3:50 PM
To: Crowley Engineering
Cc: Poy, Thomas; Bair, Rita; Deltoral, Miguel; Rowan, Anne; Cassell, Peter; Bassler, Rachel; Kaplan, Robert; Korleski, Christopher
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Greg:

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2. A draft Q&A relating to the lead levels found in the residents' drinking water samples.

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Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Rowan, Anne[rowan.anne@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Grantham, Nancy[Grantham.Nancy@epa.gov]; Benenati, Frank[benenati.frank@epa.gov]; Loop, Travis[Loop.Travis@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Kaiser, Steven[kaiser.steven@epa.gov]; Garypie, Catherine[garypie.catherine@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Toney, Marcy[toney.marcy@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Grevatt, Peter[Grevatt.Peter@epa.gov]; Wadlington, Christina[Wadlington.Christina@epa.gov]
From: Dennis, Allison
Sent: Wed 12/7/2016 4:47:03 PM
Subject: RE: Update/Action Request from Bob K. on East Chicago

Thank you. Much appreciated!

From: Rowan, Anne
Sent: Wednesday, December 07, 2016 11:39 AM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Benenati, Frank <benenati.frank@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Kaiser, Steven <kaiser.steven@epa.gov>; Garypie, Catherine <garypie.catherine@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Toney, Marcy <toney.marcy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Grevatt, Peter <Grevatt.Peter@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Subject: RE: Update/Action Request from Bob K. on East Chicago

Thanks, Allison. We'll use <u>one consistent</u> paragraph to describe our pilot study in all documents. We're reviewing your comments.

Peter is correct that there are different audiences for each document:

•□□□□□□□ Tick-tock – internal "run of show" for EPA notifications

•□□□□□□□ Script is for residents in zones 2 and 3 who participated in the pilot – to provide first notice of preliminary results

•□□□□□□□ Press release – to explain to the press/genera; public what the "before excavation" lead levels found (in our pilot) mean and how EPA, IDEM and City are taking action/following up

•□□□□□□□ Q&A – internal / for responding to reporters and/or residents who have additional questions/concerns about lead in drinking water; and/or seeking advice

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Dennis, Allison
Sent: Wednesday, December 07, 2016 6:43 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Benenati, Frank <benenati.frank@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Kaiser, Steven <kaiser.steven@epa.gov>; Garypie, Catherine <garypie.catherine@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Toney, Marcy <toney.marcy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Grevatt, Peter <Grevatt.Peter@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Subject: Re: Update/Action Request from Bob K. on East Chicago

All- below are comments from Peter on the general messaging and FAQs for your consideration:

Overall comment: The messages differ slightly between the attached documents, and I recommend that they be made consistent. I think the following statement in the run of show document regarding the sampling is the most straightforward:

Ex. 5 - Deliberative Process

Suggested line edits:

Q, **I live in East Chicago but wasn't part of the pilot study. I'm concerned about lead in my drinking water – what should I do?.**

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Also, for this Q. **Why are there high lead levels if the city of East Chicago is in compliance with the Lead and Copper Rule?** recommend the following edits:

Ex. 5 - Deliberative Process

Sent from my iPhone

On Dec 6, 2016, at 2:41 PM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

(Anne and I were writing our e-mails at the same time – she's just a much better typist!)

Hey Everybody:

Bob just got off a phone call with the Mayor of EC. The Mayor was very energized on several issues, but his primary concern was that he thought it might be premature to notify the residents about the Pb results at this time. Bob explained why notification was important and timely, and after some discussion, the Mayor came around to agreeing that

notification was OK, but he was very concerned that EPA , IDEM, and EC "all be on the same page" with regard to the data, messaging, etc. That's the update.

As for the action request, as Anne said, we need to re do the tick-tock, and Bob would like staff discussions to occur between EPA, IDEM, and EC tomorrow (and if necessary, Thursday) to make sure all three parties are on the same page about the lead information that will shortly be going out to homeowners.

So, **Rita**, can you please check with Mary to see if IDEM can make some time available tomorrow? **Miguel**, can you please check in with Greg Crowley from the City and check on the same thing? Ideally, I'd like to have an individual call with IDEM, have an individual call with the City, and then have a quick call with all three Parties to button things up.

Finally, to my knowledge we're still waiting on a response from HQ to Bob's Qs about more general information and guidance we can provide to other EC residents, press, etc., after the initial notification to the homeowners.

Thanks.

Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Carla Morgan[cmorgan@eastchicago.com]
From: Crowley Engineering
Sent: Wed 12/7/2016 3:52:32 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Chris:

I was on the road through late yesterday, so I didn't get a chance to see your e-mail until this morning. I would be interested in having a phone call this afternoon to discuss the draft documents. Are you available for a call at 2 pm today?

Thanks,
Greg

From: Korleski, Christopher [korleski.christopher@epa.gov]
Sent: Tuesday, December 06, 2016 3:50 PM
To: Crowley Engineering
Cc: Poy, Thomas; Bair, Rita; Deltoral, Miguel; Rowan, Anne; Cassell, Peter; Bassler, Rachel; Kaplan, Robert; Korleski, Christopher
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Greg:

I am attaching for the City's review:

1. The draft script for notifying East Chicago residents about the lead levels found in their drinking water samples; and

2. A draft Q&A relating to the lead levels found in the residents' drinking water samples.

The draft notification script (as well as the Q&A) is undergoing EPA HQ review, and may be subject to change. Nevertheless, we think this is pretty close to final and would like to know if the City concurs with the draft so, barring any major changes, we can proceed with notifying the residents.

We're also sharing these two draft documents with IDEM and asking them to concur as well.

Our goal is to make sure that EPA, IDEM and the City are all on the same page with regard to what we will be telling the homeowners about the lead levels found in the drinking water samples collected from their homes.

Miguel Deltoral may have already reached out to you, but can you please tell me if you have any time tomorrow (Thursday) to talk with us about these documents so we can move forward?

Thanks for your assistance, and any Qs, please let me know. My direct is 312 353 8320.

Chris

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
Cc: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Alcamo, Thomas[alcamo.thomas@epa.gov]; Hassan, Jacob[hassan.jacob@epa.gov]
From: Deltoral, Miguel
Sent: Wed 12/7/2016 12:51:13 PM
Subject: Updated EC Slides with summaries & mgmt response requested
East Chicago Graphs ALL SITES with summaries updated 2016-12-07.pdf

Hi all,

Attached are the updated graphs with summary tables for zones two and three. As I mentioned previously, I am just using the numbers as reported at this point so please keep that in mind. I added 2099 this am, so zone 2 results are all in. We do not have post-excavation results for 16 sites in zone 3, 10 of which have yet to be scheduled for sampling. We should get this update to IDEM and EC ahead of discussions so they can review it.

Response requested from mgmt: We are going to need a decision asap as to whether we should use CRL for the remaining 10 sites so that we get the results quickly or let SF know to use their contractor.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Porter, Andrea
Sent: Tue 12/6/2016 10:29:41 PM
Subject: RE: Background References for EC Calls - DRAFT

Hi All,

Do we want to mention this IDEM website, too? It includes links to many US EPA publications.

Ex. 5 - Deliberative Process

Link → http://www.in.gov/idem/6968.htm

Excerpt:

IDEM > Featured Topics > Drinking Water and Lead

Drinking Water And Lead

The Indiana Department of Environmental Management takes seriously its role in protecting Hoosiers and the environment. The agency oversees Indiana's public water supply systems through on-site inspections, monitoring mandatory reports submitted by facilities, providing technical assistance and responding to complaints regarding water quality.

The agency partners with professional trade associations to ensure operators, local government officials and property owners have accurate and reliable information. Currently, Indiana's public drinking water systems have a high rate of compliance. The agency requires public water systems test for lead and, when necessary, take action to educate and protect consumers.

IDEM Resources

- Certified Drinking Water Chemistry Laboratories in Indiana [PDF]
- Drinking Water Watch
- How Lead Gets Into the Water [PDF]
- Lead and Copper Rule Fact Sheet [PDF]
- Lead and Drinking Water - Information for Consumers Fact Sheet [PDF]
- Water Quality in Indiana

Indiana State Department Of Health

- Lead and Healthy Homes
- Lead in Private Drinking Water Wells [PDF]
- Lead Topics

Centers For Disease Control And Prevention

- Commercially Bottled Water
- National Center for Environmental Health: Lead

U.S. EPA

- 3Ts for Reducing Lead in Drinking Water in Schools [PDF]
- Drinking Water Best Management Practices For Schools and Child Care Facilities Served by Municipal Water Systems [PDF]
- Drinking Water Best Management Practices For Schools and Child Care Facilities With Their Own Drinking Water Source [PDF]
- Lead and Copper Rule: A Quick Reference Guide
- Lead and Copper Rule: A Quick Reference Guide for Schools and Child Care Facilities that are Regulated Under the Safe Drinking Water Act [PDF]
- Lead and Copper Sample Collection Procedures [PDF]
- Water Health Series: Bottled Water Basics

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bosscher, Valerie
Sent: Tuesday, December 06, 2016 3:50 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: Background References for EC Calls - DRAFT

Rita,

The attached provides some background information that may be useful to callers for East Chicago "Pilot Study" data, including Superfund USS Lead Hotline (for questions not related to drinking water), details about Saturday's public meeting, and some information about BLL testing that may be available through the city.

It may be helpful to clarify (before making calls if possible):

- Are City BLL Testing Clinics free to all EC Residents, or only Zone 1 (West Calumet)?

- How Superfund would like us to direct any questions regarding soil/dust/remediation? Is the Hotline best?

- Can we identify specific points of contact at IDEM or the City, if requested, to refer any questions?

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

To: Bair, Rita[bair.rita@epa.gov]
From: Korleski, Christopher
Sent: Tue 12/6/2016 10:09:53 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Did she respond?

From: Bair, Rita
Sent: Tuesday, December 06, 2016 4:03 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

I've already asked Mary if she is free at 1pm her time tomorrow.

From: Korleski, Christopher
Sent: Tuesday, December 06, 2016 4:01 PM
To: mholling@idem.in.gov
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Oops! Tomorrow is Wednesday, not Thursday. Sorry.

From: Korleski, Christopher
Sent: Tuesday, December 06, 2016 3:46 PM
To: 'mholling@idem.in.gov' <mholling@idem.in.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Mary:

I am attaching for IDEM's review:

1. The draft script for notifying East Chicago residents about the lead levels found in their drinking water samples (which I think Tom Poy may have already provided to you); and

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Rita Bair may have already reached out to you, but can you please tell me if you have any time tomorrow (Thursday) to talk with us about these documents so we can move forward?

Thanks for your assistance, and any Qs, please let me know. My direct is 312 353 8320.

Chris

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Bair, Rita[bair.rita@epa.gov]
From: Korleski, Christopher
Sent: Tue 12/6/2016 10:03:53 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

OK. Hopefully, with both of us asking we'll get a response.

From: Bair, Rita
Sent: Tuesday, December 06, 2016 4:03 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

I've already asked Mary if she is free at 1pm her time tomorrow.

From: Korleski, Christopher
Sent: Tuesday, December 06, 2016 4:01 PM
To: mholling@idem.in.gov
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>
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Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
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Chris

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: crowley@eastchicago.com[crowley@eastchicago.com]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
From: Korleski, Christopher
Sent: Tue 12/6/2016 9:50:50 PM
Subject: Draft East Chicago Notification and Q&A Document: For Your Review
Tues scriptECwater final draft.docx
FAQs.ECwater.Tuesday_noon.docx

Hi Greg:

I am attaching for the City's review:

1. The draft script for notifying East Chicago residents about the lead levels found in their drinking water samples; and

2. A draft Q&A relating to the lead levels found in the residents' drinking water samples.

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Chris

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Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Cassell, Peter[cassell.peter@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]
From: Poy, Thomas
Sent: Tue 12/6/2016 9:42:35 PM
Subject: RE: Pre-excavation homes

I count 43 – 8 in Zone 2 and 35 in Zone 3. Dean's table has 44 – 8 in Zone 2 and 36 in Zone 3.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Cassell, Peter
Sent: Tuesday, December 06, 2016 3:26 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: Pre-excavation homes

Is the total number still 45?

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Poy, Thomas
Sent: Tuesday, December 06, 2016 3:13 PM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: Pre-excavation homes

The current number of homes with a pre-excavation sample above the action level is 18. This is from the latest master spreadsheet.

Q. What did the sampling results show?

Ex. 5 - Deliberative Process

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Rowan, Anne
Sent: Tuesday, December 06, 2016 12:29 PM
To: Grantham, Nancy <Grantham.Nancy@epa.gov>; Benenati, Frank <benenati.frank@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Kaiser, Steven <kaiser.steven@epa.gov>; Garypie, Catherine <garypie.catherine@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Toney, Marcy <toney.marcy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject:
Importance: High

Here is the complete roll-out package including the script for calls which has been pretty thoroughly vetted internally. Water Division needs to share the script with IDEM and the City BEFORE residents can be called -tentatively scheduled for this afternoon. Allison, please let us know when Joel has reviewed and approved the script.

Please note: The run-of-show details the tick-tock for sharing the rest of the documents.

The FAQs use vetted language from the script and EPA-approved information posted to the Flint webpage.

The draft media statement/advisory will probably need a closer look from Bob, Chris and Doug in Region 5 along with Nancy, Frank, and OW.

Please send any corrections to Peter, Rachel and me asap.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Cassell, Peter[cassell.peter@epa.gov]
Cc: Rowan, Anne[rowan.anne@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]
From: Poy, Thomas
Sent: Tue 12/6/2016 9:20:30 PM
Subject: RE: Pre-excavation homes

There are 8 homes with post-excavation levels above the action level. 7 of these homes also have pre-excavation samples above. 1 home only had the post-excavation above.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Cassell, Peter
Sent: Tuesday, December 06, 2016 3:15 PM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: Re: Pre-excavation homes

How many after? We have that number in the press statement.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

Sent from my mobile device - please pardon typos.

On Dec 6, 2016, at 3:13 PM, Poy, Thomas <poy.thomas@epa.gov> wrote:

The current number of homes with a pre-excavation sample above the action level is 18. This is from the latest master spreadsheet.

Q. What did the sampling results show?

Ex. 5 - Deliberative Process

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Rowan, Anne
Sent: Tuesday, December 06, 2016 12:29 PM
To: Grantham, Nancy <Grantham.Nancy@epa.gov>; Benenati, Frank <benenati.frank@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Loop, Travis

<Loop.Travis@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Kaiser, Steven <kaiser.steven@epa.gov>; Garypie, Catherine <garypie.catherine@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Toney, Marcy <toney.marcy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject:
Importance: High

Here is the complete roll-out package including the script for calls which has been pretty thoroughly vetted internally. Water Division needs to share the script with IDEM and the City BEFORE residents can be called -tentatively scheduled for this afternoon. Allison, please let us know when Joel has reviewed and approved the script.

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Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Rodriguez, Charles[rodriguez.charles@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]
From: Rowan, Anne
Sent: Tue 12/6/2016 6:58:58 PM
Subject: RE: I spoke to CICs Janet Pope and Charles Rodriguez about helping to make phone calls with dw sampling results: USS Lead

I think **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Donnelly, Peggy
Sent: Tuesday, December 06, 2016 11:59 AM
To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: Re: I spoke to CICs Janet Pope and Charles Rodriguez about helping to make phone calls with dw sampling results: USS Lead

Thanks, Phillippa, for reaching out to Janet and Charles.

I think Rita or Tom P are coordinating the callers, so I've included them on this.

My guess is Ex. 5 - Deliberative Process

Peg Donnelly

U.S. EPA, R5, Water Division

312-914-4794 cell

Sent from my iPhone

On Dec 6, 2016, at 11:54 AM, Cannon, Phillippa <Cannon.Phillippa@epa.gov> wrote:

> Peg – both Janet and Charles are working in the office (on 6th floor) today and can help make phone calls to residents with their results. Charles can make calls to the Spanish-speaking residents.
>
> Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

To: Rowan, Anne[rowan.anne@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Kaplan, Robert[kaplan.robert@epa.gov]
From: Korleski, Christopher
Sent: Mon 12/5/2016 10:25:38 PM
Subject: RE: Please see OW's comments on East Chicago script and suggest language
EC LEAD SEQUENTIAL RESULTS SCRIPT revised draft_12 05_16 4 00 pm ck.docx

I've taken a shot at addressing Peter's comments in the attached. Please review and advise. Copying Bob so he can see where we are.

From: Rowan, Anne
Sent: Monday, December 05, 2016 4:14 PM
To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: Please see OW's comments on East Chicago script and suggest language

Thanks, Chris is reviewing and working to revise as needed.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Bair, Rita
Sent: Monday, December 05, 2016 4:10 PM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>

Subject: RE: Please see OW's comments on East Chicago script and suggest language

Ex. 5 - Deliberative Process I think that is key to addressing Peter's first comment about the AL.

From: Rowan, Anne
Sent: Monday, December 05, 2016 3:27 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Please see OW's comments on East Chicago script and suggest language

These are comments from Peter G. **Ex. 5 - Deliberative Process**
Ex. 5 - Deliberative Process Chris, can you and your folks suggest language to address Peter's comments? Thank You.

From: Wadlington, Christina
Sent: Monday, December 05, 2016 3:18 PM
To: Rowan, Anne <rowan.anne@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>
Subject: RE: DRAFT Q&A and DRAFT Statement - EC drinking water

Provided are comments on the TPs from OGWDW.

To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Rowan, Anne
Sent: Mon 12/5/2016 9:53:09 PM
Subject: RE: Please see OW's comments on East Chicago script and suggest language

How about:

Ex. 5 - Deliberative Process

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Deltoral, Miguel
Sent: Monday, December 05, 2016 3:49 PM
To: Rowan, Anne <rowan.anne@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: Please see OW's comments on East Chicago script and suggest language

How's this:

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Dec 5, 2016, at 3:42 PM, Rowan, Anne <rowan.anne@epa.gov> wrote:

Ok, I'll delete it. Do you want to replace it with a statement along the lines of:

Ex. 5 - Deliberative Process

Or can you suggest more accurate language?

Thanks.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Deltoral, Miguel
Sent: Monday, December 05, 2016 3:38 PM
To: Rowan, Anne <rowan.anne@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: Please see OW's comments on East Chicago script and suggest language

Anne,

The sentence about Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Dec 5, 2016, at 3:26 PM, Rowan, Anne <rowan.anne@epa.gov> wrote:

These are comments from Peter G. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process Chris, can you and your folks suggest language to address Peter's comments?

Thank You.

From: Wadlington, Christina
Sent: Monday, December 05, 2016 3:18 PM
To: Rowan, Anne <rowan.anne@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>
Subject: RE: DRAFT Q&A and DRAFT Statement - EC drinking water

Provided are comments on the TPs from OGWDW.

<EC LEAD SEQUENTIAL RESULTS SCRIPT revised draft_12 05_16 230 pm.cw.docx>

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Mendez, Thomas
Sent: Mon 12/5/2016 8:36:19 PM
Subject: RE: East Chicago - Z3 water results received today

Yeah I noticed 4 as well over. Still no finals….

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

Confidential: This transmission may contain deliberative, attorney-client, attorney work product or otherwise privileged material. Do not release under FOIA without appropriate review. If this message has been received by you in error, you are instructed to delete this message, together with any attachments, from your computer and all storage media, whether electronic or hard copy.

From: Donnelly, Peggy
Sent: Monday, December 05, 2016 2:30 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Subject: East Chicago - Z3 water results received today

I gave a quick look at the water results that Tim Drexler sent us today from Zone 3.

Note all data received today is preliminary, 10 sets of results are from pre-excavation sampling, and 2 sets are from post-excavation.

Of the 12 data sets, there are 4 homes have lead above the action level in at least one sample (87 ppb was the highest result).

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Sent: Monday, December 05, 2016 3:08 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Cc: Alcamo, Thomas <alcamo.thomas@epa.gov>; Adler, Kevn <adler.kevin@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: FW: Ex. 6 - Personal Privacy Ivy St Water Results

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Monday, December 05, 2016 2:04 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>
Subject: Ex. 6 - Personal Privacy Ivy St Water Results

Tim/Tom:

Please find attached the preliminary results for pre-excavation water samples at Ex. 6 - Personal Privacy Ivy St.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

www.SRSllc.com

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Grantham, Nancy[Grantham.Nancy@epa.gov]; Loop, Travis[Loop.Travis@epa.gov]; Wadlington, Christina[Wadlington.Christina@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]
From: Dennis, Allison
Sent: Mon 12/5/2016 8:30:53 PM
Subject: RE: DRAFT EC script (DRAFT)

Nice solution!

From: Deltoral, Miguel
Sent: Monday, December 05, 2016 3:18 PM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: RE: DRAFT EC script (DRAFT)

Hi Allison,

It looks fine except for the sentence below which looks like it got two things jumbled up. There are no federal or state rules for the pilot project sampling we are doing.

Ex. 5 - Deliberative Process

Suggested language…something like this: **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Dennis, Allison
Sent: Monday, December 05, 2016 1:39 PM
To: Rowan, Anne <rowan.anne@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
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Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: DRAFT EC script (DRAFT)

All, here is a revised DRAFT script. I'm coping Region 5 water folks --since there was some

back-and-forth on their comments. I think we've mostly captured their comments in this version.

To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Bosscher, Valerie
Sent: Mon 12/5/2016 8:30:42 PM
Subject: RE: East Chicago - Z3 water results received today

Adding new data to Master now, FYI.

From: Donnelly, Peggy
Sent: Monday, December 05, 2016 2:30 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
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Cc: Alcamo, Thomas <alcamo.thomas@epa.gov>; Adler, Kevn <adler.kevin@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>

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Sent: Monday, December 05, 2016 2:04 PM
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Subject: Ex. 6 - Personal Privacy Ivy St Water Results

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Richard Baldino

Quality Assurance Manager/Project Manager

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SRS
An Oneida ESC Group Company

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Dennis, Allison[Dennis.Allison@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Loop, Travis[Loop.Travis@epa.gov]; Wadlington, Christina[Wadlington.Christina@epa.gov]
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From: Grantham, Nancy
Sent: Mon 12/5/2016 8:20:20 PM
Subject: RE: DRAFT EC script (DRAFT)

I think this is a good edit ..thanks ng

Nancy Grantham

Office of Public Affairs

US Environmental Protection Agency

202-564-6879 (desk)

202-253-7056 (mobile)

From: Deltoral, Miguel
Sent: Monday, December 05, 2016 3:18 PM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
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Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Dennis, Allison
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To: Rowan, Anne <rowan.anne@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Loop, Travis <Loop.Travis@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
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Dennis, Allison <Dennis.Allison@epa.gov>; Wadlington, Christina <Wadlington.Christina@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: DRAFT EC script (DRAFT)

All, here is a revised DRAFT script. I'm coping Region 5 water folks --since there was some back-and-forth on their comments. I think we've mostly captured their comments in this version.

To: Korleski, Christopher[korleski.christopher@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]
From: Donnelly, Peggy
Sent: Mon 12/5/2016 8:00:06 PM
Subject: RE: DRAFT Q&A - East Chicago drinking water

Can we add something to this question to clarify Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Q. EPA installed a filter after excavation, but how do I know the filter is working?

Ex. 5 - Deliberative Process

Peg Donnelly

U.S. EPA, Region 5

77 W Jackson Blvd

Chicago IL 60604

312.886.6109

donnelly.peggy@epa.gov

From: Korleski, Christopher
Sent: Monday, December 05, 2016 2:24 PM

To: Rowan, Anne <rowan.anne@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: RE: DRAFT Q&A - East Chicago drinking water

Minor suggestions for improved clarity….

From: Rowan, Anne
Sent: Monday, December 05, 2016 1:02 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: DRAFT Q&A - East Chicago drinking water
Importance: High

Most of the language here is directly lifted from HQ approved fact sheets on Flint. Please review asap. Thank you.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Rowan, Anne[rowan.anne@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]
From: Deltoral, Miguel
Sent: Mon 12/5/2016 7:29:55 PM
Subject: RE: DRAFT Q&A - East Chicago drinking water

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Rowan, Anne
Sent: Monday, December 05, 2016 1:02 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: DRAFT Q&A - East Chicago drinking water
Importance: High

Most of the language here is directly lifted from HQ approved fact sheets on Flint. Please review asap. Thank you.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Bair, Rita[bair.rita@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]
From: Deamer, Eileen
Sent: Mon 12/5/2016 7:16:20 PM
Subject: RE: East Chicago - Pilot Program

As they primarily have to do with the water program, I was expecting you all to help. Many of the already draft Q and As seem to be responsive, except I'm not sure what she exactly means with the funding question. I should forward to SF to for awareness though!

From: Bair, Rita
Sent: Monday, December 05, 2016 1:12 PM
To: Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago - Pilot Program

Is Superfund providing you answers or are you looking for WD to do that?

From: Deamer, Eileen
Sent: Monday, December 05, 2016 12:10 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: FW: East Chicago - Pilot Program

I sent this to Chris and other but don't think I cc'd you. Basically, IDEM informed Rep. Visclosky's office. We need to prepare something to answer her questions Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process Eileen

From: Johnson, Elizabeth [mailto:Elizabeth.Johnson@mail.house.gov]
Sent: Monday, December 05, 2016 11:23 AM
To: Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Beckmann, Ronna Erin <beckmann.ronna@epa.gov>
Subject: East Chicago - Pilot Program

Good morning,

We received an email from IDEM Friday, regarding some preliminary test results stemming from an EPA pilot program in the Superfund Zones 2 and 3 neighborhoods.

The pilot program as I understand focused upon lead and water testing in residents' homes. As such, there are indications from the sampling that there may be the potential where interior piping may be affecting water quality. Recognizing these results are preliminary and QA/QC still needs to be performed, I am hopeful you may be able to provide a little background on the program and answer a few questions:

1. Background on the program and areas targeted?

2. Approximate funding made available and through what account?

3. Approximately how many homes were tested?

4. Is there a potential to test all homes within the Superfund site?

5. Is there a potential where inflow/infiltration from groundwater is seeping into the drinking water infrastructure prior to reaching residents' homes?

6. When will residents within the program be provided results?

Thanks for the help – I'll need to provide a background memo on this, and the answers will be the basis for it.

Have a great day,

Liz

Elizabeth Johnson
Director of Projects and Planning
Congressman Peter J. Visclosky
7895 Broadway, Suite A
Merrillville, Indiana 46410
219-795-1844
www.visclosky.house.gov

For more information on our Constituent Services, please click here.

For more information on Strengthening the South Shore Rail Line, please click here.

To: Poy, Thomas[poy.thomas@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Rowan, Anne
Sent: Mon 12/5/2016 7:09:04 PM
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Folks the draft has been shared with headquarters. We'll see what they have to say. Thanks.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

From: Poy, Thomas
Sent: Monday, December 05, 2016 1:06 PM
To: Cassell, Peter <cassell.peter@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

The main point of the call is to inform the resident of their lead concentrations regardless of their plumbing materials. If the levels are high, they should take action like continuing to use the filters they've been provided. We can certainly provide the resident with information on their plumbing materials, if we have it. A concern would be whether the caller is prepared to answer questions about the relationship between plumbing materials and lead results – e.g., someone with a galvanized service line with

high lead concentrations. Keep in mind that this is not the only contact with these residents. We can explain things in more detail in the letter.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Cassell, Peter
Sent: Monday, December 05, 2016 12:31 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Peg, correct me if I am wrong, but the service lines we identified in the spreadsheet were directly from observation at the person's home. If we know information about their line we can and should tell them, if not we just leave it out of the conversation.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Korleski, Christopher
Sent: Monday, December 05, 2016 12:28 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Maybe the way out is:

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Monday, December 05, 2016 12:17 PM
To: Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process We (EPA/IDEM/EC) have an obligation here to make sure they are properly informed about the risks from LSLs so they can protect their families.

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Bair, Rita
Sent: Monday, December 05, 2016 10:31 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

I am running off to a 10:30 meeting and will get back to you again after. However, attached are my preliminary edits. My main concern is Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Rowan, Anne
Sent: Monday, December 05, 2016 10:13 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
Importance: High

Peter and I worked on this revised draft. Please review, comment and correct as needed as quickly as possible. We then need to send the Region's draft to HQ's for review NLT noon (central).

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Korleski, Christopher[korleski.christopher@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]
From: Rowan, Anne
Sent: Mon 12/5/2016 7:02:25 PM
Subject: DRAFT Q&A - East Chicago drinking water
EC LEAD SEQUENTIAL RESULTS FAQs draft_12 05_16.docx

Most of the language here is directly lifted from HQ approved fact sheets on Flint. Please review asap. Thank you.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Mon 12/5/2016 6:56:42 PM
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
EC LEAD SEQUENTIAL RESULTS FAQs draft_12 05_16-VB.docx

Rita,

See attached for my input. Including:

Ex. 5 - Deliberative Process

Thanks!

Val

From: Bair, Rita
Sent: Monday, December 05, 2016 11:27 AM
To: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Let me know if you have input on these draft Q&As. Thanks!

From: Cassell, Peter
Sent: Monday, December 05, 2016 11:12 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa

<Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Attached are draft FAQs – these are mostly taken from the Flint FAQ page, with some information lifted from the draft script and results summary table.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Rowan, Anne
Sent: Monday, December 05, 2016 10:13 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
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Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]
From: Deamer, Eileen
Sent: Mon 12/5/2016 6:10:09 PM
Subject: FW: East Chicago - Pilot Program

I sent this to Chris and other but don't think I cc'd you. Basically, IDEM informed Rep. Visclosky's office. We need to prepare something to answer her questions and correct the misinformation in her note. Eileen

From: Johnson, Elizabeth [mailto:Elizabeth.Johnson@mail.house.gov]
Sent: Monday, December 05, 2016 11:23 AM
To: Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Beckmann, Ronna Erin <beckmann.ronna@epa.gov>
Subject: East Chicago - Pilot Program

Good morning,

We received an email from IDEM Friday, regarding some preliminary test results stemming from an EPA pilot program in the Superfund Zones 2 and 3 neighborhoods.

The pilot program as I understand focused upon lead and water testing in residents' homes. As such, there are indications from the sampling that there may be the potential where interior piping may be affecting water quality. Recognizing these results are preliminary and QA/QC still needs to be performed, I am hopeful you may be able to provide a little background on the program and answer a few questions:

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3. Approximately how many homes were tested?

4. Is there a potential to test all homes within the Superfund site?

5. Is there a potential where inflow/infiltration from groundwater is seeping into the drinking water infrastructure prior to reaching residents' homes?

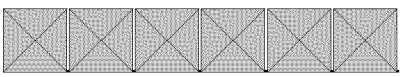
6. When will residents within the program be provided results?

Thanks for the help – I'll need to provide a background memo on this, and the answers will be the basis for it.

Have a great day,

Liz

Elizabeth Johnson
Director of Projects and Planning
Congressman Peter J. Visclosky
7895 Broadway, Suite A
Merrillville, Indiana 46410
219-795-1844
www.visclosky.house.gov



For more information on our Constituent Services, please click here.

For more information on Strengthening the South Shore Rail Line, please click here.

To: Bair, Rita[bair.rita@epa.gov]
From: Porter, Andrea
Sent: Mon 12/5/2016 5:22:10 PM
Subject: FW: Filter Test results call script --> draft for q&A: when unfiltered water pb conc >filter rating?

FYI → could be included in Q&A for East Chicago as well

From: Porter, Andrea
Sent: Thursday, February 18, 2016 1:07 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: Filter Test results call script --> draft for q&A: when unfiltered water pb conc >filter rating?

Hi Rita,

Here's a draft paragraph to consider as part of a Q&A for EPA callers to consult if resident asks follow-up questions on filter assessment results.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

Q: My unfiltered water result was above 150 ug/L (ppb). The filter is certified to work only up to 150 ug/L (ppb). Can I still trust the filter?

Ex. 5 - Deliberative Process

From: Bair, Rita
Sent: Thursday, February 18, 2016 11:47 AM
To: Hunter-Pirtle, Ann <Hunter-Pirtle.Ann@epa.gov>
Cc: Germann, Sandy <Germann.Sandy@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: Filter Test results call script

Attached is a draft script that I put together based on the press release and other material. Since the results and message is that the filters are working, we don't think we need to break out the script based on lead result levels like the sequential results. We should be able to use this for all the calls and if we get an anomaly we can deal with it separately or develop another script at that point. Let me know what you think of this draft or if you want to run it past some field folks that have made calls about the lead filter results already.

From: Hunter-Pirtle, Ann
Sent: Thursday, February 18, 2016 9:34 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Germann, Sandy <Germann.Sandy@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Re: Test results call script

Hi Rita, give me a call at your convenience about what you guys need for the filter grab results script. Thanks.

Ann

202-573-6193

From: Hunter-Pirtle, Ann
Sent: Thursday, February 18, 2016 10:00 AM
To: Bair, Rita
Cc: Germann, Sandy; Kelley, Jeff
Subject: Re: Test results call script

I don't currently, but I think it would be an easy modification of the sequential results script.

To make the tweaks, would need the "cases" you guys would like addressed (no lead, low lead, high lead, etc.), and for the folks making the calls, the lead levels that would denote each case. Thanks and glad to discuss.

Ann

202-573-6193

From: Bair, Rita
Sent: Thursday, February 18, 2016 9:55 AM
To: Hunter-Pirtle, Ann
Cc: Germann, Sandy; Kelley, Jeff
Subject: RE: Test results call script

I haven't had a chance to look at closely. I have a staff person with edits. I will get you something later this morning. Do you have anything for a draft script for the filter grab results?

From: Hunter-Pirtle, Ann
Sent: Thursday, February 18, 2016 8:53 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Germann, Sandy <Germann.Sandy@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Re: Test results call script

Hi Rita,

Do you have edits to the call script/does this format make sense for your team? Thanks.

Ann

202-573-6193

From: Hunter-Pirtle, Ann
Sent: Wednesday, February 17, 2016 1:45 PM
To: Bair, Rita
Cc: Germann, Sandy; Kelley, Jeff

Subject: Test results call script

Hi Rita,

The call script we discussed this morning is attached. Let us know if you have edits--thanks!

Ann

202-573-6193

To: Rowan, Anne[rowan.anne@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
Cc: Kaplan, Robert[kaplan.robert@epa.gov]
From: Cassell, Peter
Sent: Mon 12/5/2016 5:11:33 PM
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
EC LEAD SEQUENTIAL RESULTS FAQs draft_12 05_16.docx

Attached are draft FAQs – these are mostly taken from the Flint FAQ page, with some information lifted from the draft script and results summary table.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Rowan, Anne
Sent: Monday, December 05, 2016 10:13 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
Importance: High

Peter and I worked on this revised draft. Please review, comment and correct as needed as quickly as possible. We then need to send the Region's draft to HQ's for review NLT noon (central).

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Mon 12/5/2016 3:19:42 PM
Subject: RE: East Chicago Update

In case you want to share it with the wider group, here is a DRAFT answer to OW's question this morning regarding "first draw" samples:

- The first sample (S01) collected at each pilot study home is not comparable as a compliance sample for several reasons, including: (1) 125-mL volume, (2) pre-stagnation flushing. The pre-stagnation flushing was intentional for this diagnostic "sequential sampling", to allow clearer assessment of lead release within individual segments of the pipe.

- That said, here is a summary of the S01 samples:

o Zone 2: only one S01 sample (pre excavation) was above 15 ppb [out of 8 pre and 8 post reported]

o Zone 3: three pre excavation samples and one post-excavation sample were above 15 ppb [out of 26 pre and 16 post reported]. In addition, one pre-excavation S01 sample was equal to 15 ppb.

o Based on the available data (mostly prelim), the following percentages were above 15 ppb: 11.8% pre-excavation (4/34) and 4.2% post-excavation (1/24)

- Based on East Chicago's 2015 Annual Report (http://www.eastchicago.com/page10/page94/page57/page135/index.html), the 90th Percentile Compliance result for Lead is 9 ppb.

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Deltoral, Miguel
Sent: Friday, December 02, 2016 5:14 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Newton, Cheryl <Newton.Cheryl@epa.gov>
Subject: Re: East Chicago Update

Feel free to give the EC WTP folks my cell # Ex. 6 - Personal Privacy in case they have Q's on the data.

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Dec 2, 2016, at 5:06 PM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

Hello All:

There have been so many moving parts that I wanted to give everyone a quick update on issues pertaining to the drinking water samples collected from homes in the USS Lead SFD site.

Bottom line:

EPA and Indiana have discussed the data generated thus far, and (notwithstanding the City's compliance with the LCR) due to some samples showing elevated levels of Pb in some of the homes, EPA and the State have agreed that notification of residents is appropriate and should occur expeditiously. On Monday, there will be a call between OW and R5 to discuss, among other things, the appropriate messaging that should accompany the notification.

In addition, as a result of a call between Bob and the Mayor of East Chicago, I have provided the City Utilities Director with the drinking water data graphs for the individual residences.

Thanks.

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Korleski, Christopher[korleski.christopher@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]
Cc: Kaplan, Robert[kaplan.robert@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Cassell, Peter
Sent: Fri 12/2/2016 8:38:57 PM
Subject: RE: Draft PR
East Chicago Water Draft PTC 12_2.docx

I made all of your changes Chris. I think this sums up where we currently are whether this ends up being a release or a statement. Like you pointed out, we will know more on Monday.

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

From: Korleski, Christopher
Sent: Friday, December 02, 2016 2:18 PM
To: Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Draft PR

<< File: East Chicago Pb Draft Press Release ck 12 2 16.docx >>
Hey Peter:

Ex. 5 - Deliberative Process

Thanks.

From: Cassell, Peter
Sent: Friday, December 02, 2016 10:10 AM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Alcamo, Thomas

<alcamo.thomas@epa.gov>
Subject: RE: Pre-Meeting

Sorry, missing a word here - this version is good.

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

From: Cassell, Peter
Sent: Friday, December 02, 2016 9:57 AM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Christopher Korleski <Korleski.Christopher@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>
Subject: RE: Pre-Meeting

Hey all,

Ex. 5 - Deliberative Process

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

<< OLE Object: Picture (Device Independent Bitmap) >>

EPA, IDEM and East Chicago, Ind., Looking Into Elevated Lead Levels in Drinking Water at USS Lead Superfund Site

Contact Information: Peter Cassell, 312-886-6234, cassell.peter@epa.gov

For Immediate Release: No. 16-OPA

CHICAGO (Dec. XX, 2016) - U.S. Environmental Protection Agency, Indiana Department of Environmental Management, and the city of East Chicago are looking into elevated levels of lead in recent tap water samples found during EPA testing at homes in the USS Lead Superfund site. These results indicate potentially elevated lead levels throughout the East Chicago drinking water system. EPA has shared these results with IDEM and the city water department and are working together to evaluate what further steps might be necessary to protect public health.

RA or Administrator Quote?

IDEM Director Quote

Mayor of East Chicago Quote

EPA tested homes where lead contaminated soil was excavated during cleanup activities in a pilot study to determine if excavation work disturbed the protective coating on the inside of lead service lines. The contaminated soil at the site is not impacting the drinking water, which comes from Lake Michigan. EPA took sequential tap water samples before excavation work began, and again after it was complete. As a precaution, residents were provided bottled water to drink during the excavation and EPA installed NSF-certified filters on the residents' faucets after excavation.

The city of East Chicago is currently in compliance with the federal Lead and Copper Rule. Initial results are not complete enough to determine the effect on disturbances to the lead service lines. However, some of the pre-excavation drinking water testing detected lead levels above the action level of 15 parts per billion. Preliminary data is being shared with homeowners along with recommendations for next steps, including a recommendation that residents with high lead levels should continue to use NSF-certified lead filters.

If you are concerned about your water quality, please contact the East Chicago water utility. Out of an abundance of caution, residents with lead service lines should use a filter for drinking and cooking until further notice. In a recent study, EPA and Virginia Tech found that NSF-certified lead filters remove lead from the water. EPA will also post final, validated data to a public map on the response site with personally identifiable information removed when it becomes available.

For more information about the cleanup activities, the public map web viewer, and advice to residents about their drinking water, visit xxx.

To read the filter report, visit www.epa.gov/flint/filter-study.

###

To: Bair, Rita[bair.rita@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Mendez, Thomas
Sent: Fri 12/2/2016 7:14:30 PM
Subject: Re: CONFIDENTIAL: East Chicago Data

We had similar issues when DOJ was trying to sign on to other sites and this was the issue; they have to have a Microsoft ID to allow them to sign on.

Ex. 6 - Personal Privacy

A lot of state IDs have it built in...I had though IN was one of them.

From: Bair, Rita
Sent: Friday, December 2, 2016 12:57 PM
To: Mendez, Thomas
Cc: Bosscher, Valerie
Subject: FW: CONFIDENTIAL: East Chicago Data

Any ideas why Mary can't sign on?

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Friday, December 02, 2016 12:24 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: CONFIDENTIAL: East Chicago Data
Sensitivity: Confidential

Rita,

I cannot sign into the East Chicago site using my State email. I can't use my personal email because access was only granted to my State email.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Bair, Rita [mailto:bair.rita@epa.gov]
Sent: Friday, December 02, 2016 10:01 AM
To: Hollingsworth, Mary; JONES, STACY; Prater, Matthew
Cc: Poy, Thomas; Korleski, Christopher
Subject: FW: CONFIDENTIAL: East Chicago Data
Sensitivity: Confidential

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

We can definitely cover your questions during the call. Miguel prepared graphs of the data that we also wanted to share.

From: Deltoral, Miguel
Sent: Friday, December 02, 2016 8:54 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Re: CONFIDENTIAL: East Chicago Data
Sensitivity: Confidential

Hi Rita,

In case you want to send this to Mary, attached is an updated file with two more sites I added this morning (3097 & 3437). Each graph has the service line material and internal plumbing material in the heading separated by a slash, so (Pb/G) means the service line coming into the home is lead and the interior (premise) plumbing is galvanized iron. We have no information on what the public side of the service line (water main to property line) is made of for any home. If there are question marks on either side it is

because I do not have the information.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Friday, December 2, 2016 08:42 AM
To: Deltoral, Miguel
Subject: FW: CONFIDENTIAL: East Chicago Data

Not sure why you were left off.

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Friday, December 02, 2016 7:28 AM
To: Bair, Rita <bair.rita@epa.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; CLARK METTLER, MARTHA <MCLARK@idem.IN.gov>
Subject: RE: CONFIDENTIAL: East Chicago Data
Sensitivity: Confidential

Thank you for the information. It would be helpful if the headings were explained. Another item we noticed on the sampling spreadsheet, the plumbing material was not identified, could you please explain why no identification of this material was made? Also, which homes of the ones sampled have lead service lines? Some of these sample were collected before IDEM requested that East Chicago increase their orthophosphate. Our request was on 10/26. We are working with East Chicago and tracking

the increase of Orthophosphate residual in the distribution system. They are increasing Orthophosphate feed to 1 ppm leaving the plant. Their target residuals in distribution system is now 0.75 to 1 ppm.

Attached are the residuals from August thru October distribution samples for Orthophosphate. You will notice the levels are low; that's why we asked for the increase.

Please keep me as the main point of contact so I may brief the Commissioner instead of her hearing from outside our agency. We just received the info yesterday afternoon and we were going to discuss and let the Commissioner know but that was taken out of our hands.

Indiana takes this information very seriously and we will work with EPA and East Chicago to assure that all residents have drinking water that meets the Federal standards.

Much Appreciated

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Bair, Rita [mailto:bair.rita@epa.gov]
Sent: Thursday, December 01, 2016 1:55 PM
To: Hollingsworth, Mary; JONES, STACY; Prater, Matthew
Cc: Poy, Thomas; Porter, Andrea; Bosscher, Valerie; Henry, Timothy; Korleski, Christopher
Subject: CONFIDENTIAL: East Chicago Data
Sensitivity: Confidential

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Attached is a spreadsheet summarizing the data collected to date in East Chicago. My apologies for the delay. Tomorrow we can talk more about getting you actual lab reports or data in other formats.

In addition, Dean Maraldo summarized the data and I am sharing it below.

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: USS Lead Data Summary

All: here's a quick summary of results for USS Lead sequential sampling. Note that we still have no validated data for Zone 3 properties. New schedule from Superfund has first validated results for Zone 3 coming in on Dec. 9, with additional sets due Dec. 16 and Dec. 23.

So far, 54% of properties sampled, pre-excavation, have at least one sample with lead above action level [66% for Zone 3 and 25% for Zone 2].

We do have validated data for Zone 2 which confirmed the reliability of preliminary data. This applies to Zone 2 only as different labs were used for Zone 3.

USS Lead Sequential Sampling Result Summary

11/30/2016 Draft

	Zone 2		**Zone 3**		**Total**	
	Pre	Post	Pre	Post	Pre	Post
# of Properties in Sequential Sampling Program	8	8	37	37	45	45
# of Properties with Preliminary Results	8	5	18	16	26	21
# of Properties with at least one Pb result above action level (15 ppb)	2	1	12	8	14	9
# of Properties with Final - Validated Results	7	1	0	0	7	1

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Rebot, David[rebot.david@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Cooper, Brian
Sent: Fri 12/2/2016 5:58:14 PM
Subject: RE: USS Lead Water Data

Ex. 6 - Personal Privacy

From: Bosscher, Valerie
Sent: Friday, December 02, 2016 11:37 AM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rebot, David <rebot.david@epa.gov>
Cc: Cooper, Brian <cooper.brian@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Subject: RE: USS Lead Water Data

Is the Zone 3 data in a separate database? I just logged into the R05 USS Lead Scribe database and I did not see any samples (e.g. field data) in Zone 3.

From: Donnelly, Peggy
Sent: Monday, November 21, 2016 11:29 AM
To: Rebot, David <rebot.david@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Cooper, Brian <cooper.brian@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Subject: Re: USS Lead Water Data

Thanks Dave, for clarifying the process for East Chicago.

As you know, the processing of field data takes quite some time, especially sequential samples (and the new flow data). I'm currently learning this! We usually had a data person helping in Flint daily, but this time without someone available to help in Nov, I'm processing two weeks of field data. It's taking a few days, but I've almost got the 47 sites done. We'll have a last QA check of that data by Water Division folks, then it will be ready for Scribe.

Thanks again for all your help, and for sending me an example last week. Much appreciated.

Happy Thanksgiving!

Peg Donnelly

U.S. EPA, R5, Water Division

312-914-4794 cell

Sent from my iPhone

On Nov 21, 2016, at 11:17 AM, Rebot, David <rebot.david@epa.gov> wrote:

Hi Peg,

You are correct on the first part, SRS is handling the Zone 3 (Remedial) sampling,

and START is handling the Zone 2 (Removal) sampling.

As for uploading to Scribe.

--START has been handling their sample data (processing, QAQC, and uploading to scribe).

--For SRS:

1. I have been pulling the sample data and processing it, then sending it to Kevin Brown (Mannik Smith).

2. Kevin then forwards the data to Rich Baldino (SRS)

3. Rich QAQCs the data, then sends it back to Kevin.

4. Kevin uploads the data into Scribe.

Dave Rebot

GIS Research Associate (ORISE)

FIELDS Team | Superfund Division

U.S. EPA - Region 5

Phone: 312.353.7480

rebot.david@epa.gov

From: Donnelly, Peggy
Sent: Friday, November 18, 2016 12:49 PM
To: Bosscher, Valerie; Rebot, David; Cooper, Brian
Cc: Drexler, Timothy; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Mendez, Thomas; Maraldo, Dean
Subject: Re: USS Lead Water Data

I looked at all the iForm field data thru 10/29. My understanding is that the two different contracts for Zone 2 & 3 upload the forms to TetraTech site and then Dave Rebot (or Brian Cooper) will get them into Scribe.

Dave, are you putting all East Chicago field water (plus soil, air, and dust) data into Scribe?

Peg Donnelly

U.S. EPA, R5, Water Division

312-914-4794 cell

Sent from my iPhone

On Nov 18, 2016, at 12:40 PM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

Good afternoon, Tim,

To follow-up on my voicemail this morning, I had a few questions regarding the East Chicago water data.

Database status:

- EDDs in Scribe-compatible format are still needed (from all labs)

o The data spreadsheets provided so far are not in a usable format (e.g. flat table). Based on talking with Brian Cooper last Thursday, Brian said he sent an example EDD to you, and he was waiting for action by the RPMs/contractor.

o **Is the contractor / lab planning to send database-/flat-style EDDs for the data?**

- Field data in iForms is being entered by the contractor.

o **Is the contractor QA'ing this data? Who is loading the field data into the Scribe database?**

Both these pieces (EDDs and field data iForms) are needed so that data can be loaded into the database, to facilitate both resident communications (letters) and data analysis (it would be slow and resource intensive to manually pick all the numbers out of pdfs).

Another data question:

- There is a significant range in reported results for Chloride, these differences were especially noted between Pace- and CT-reported results by ion chromatograph EPA Method 300.0 (~15-19 mg/L) compared to STAT-reported results by colorimetric Method 325.2 (<1 to 5 mg/L). **Is there a need to evaluate STAT's Chloride results or method, potentially as part of the Level 4 Data Validation?**

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

To: Bair, Rita[bair.rita@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]
From: Kuefler, Janet
Sent: Fri 12/2/2016 4:39:22 PM
Subject: RE: Volunteer Again + question

HI Rita, I can help with calls, if needed. But if you think that I should just focus on the DV next steps, etc., that is ok too. I will be here the next two weeks, then out the following two weeks.

Ex. 5 - Deliberative Process

Thanks,

Janet

From: Bair, Rita
Sent: Thursday, December 1, 2016 4:12 PM
To: Schusler, Alex <schusler.alex@epa.gov>; Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>; Kuefler, Janet <kuefler.janet@epa.gov>; Weber, Nancy <Weber.Nancy@epa.gov>; Bell, Kristina <bell.kristina@epa.gov>; Rouhani, Sahba <rouhani.sahba@epa.gov>; Welch, Jennifer <welch.jennifer@epa.gov>; Johnson, Catherine (Kate) <Johnson.Catherine@epa.gov>; Bajor, John <bajor.john@epa.gov>; Phan, Lee <Phan.lee@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: Volunteer Again?

As callers related to the lead sample results in Flint, I am reaching out to you to see if you would be willing and available to make calls next week, and possibly the week later to a few homeowners with East Chicago lead sample results. There are a total of 45 homes. We don't have a final script yet, but can have a meeting to go over this as we did with the Flint calls. Please get your supervisor's permission if you are willing to volunteer? Thanks!

East Chicago Water Works
Water Laboratory
PWSID # 5245012

ate	Time	Sampling Location	Sampler	Ph	Phosphate mg/L
8-3-16	9:35 AM	Ex. 6 - Personal Privacy	WR	8.14	.25
8-3-16	9:50 AM		WR	8.15	.07
8-3-16	10:20 AM		WR	8.18	.23
8-4-16	1:15 PM		WR	8.21	.43
8-4-16	1:00 PM		WR	8.22	.18
8-9-16	10:15 AM		WR	8.08	.21
8-9-16	10:00 AM		WR	8.13	.28
8-10-16	10:15 AM		WR	8.16	.21
8-10-16	9:45 AM		WR	8.23	.06
8-11-16	9:45 AM		WR	8.15	.32
8-11-16	11:00 AM		WR	8.18	.31
8-16-16	1:30 PM		WR	8.10	.24
8-16-16	1:45 PM		WR	8.10	.35
8-17-17	10:10 AM		WR	8.23	.29
8-17-17	9:35 AM		WR	8.21	.35
8-18-16	10:10 AM		WR	8.30	.18
8-18-16	11:05 AM		WR	8.35	.23
8-22-16	10:00 AM		WR	8.14	.34
8-22-16	9:30 AM		WR	8.17	.14
8-24-16	10:30 AM		WR	8.13	.25
8-24-16	9:35 AM		WR	8.17	.21
8-24-16	9:30 AM		WR	8.17	.23
8-25-16	10:25 AM		WR	8.08	.38
8-25-16	11:15 AM		WR	8.27	.37
8-31-16	9:55 AM		WR	8.41	.16
8-31-16	10:35 AM		WR	8.53	.29
8-31-16	11:10 AM		WR	8.10	.14
8-31-16	10:45 AM		WR	8.20	.11
8-31-16	9:45 AM		WR	8.21	.14
8-31-16	10:25 AM		WR	8.25	.15

ents:

East Chicago Water Works
Water Laboratory
PWSID # 5245012

Date	Time	Sampling Location	Sampler	Ph	Phosphate mg/L
9-1-16	11:35 AM		WR	8.25	.22
9-1-16	10:20 AM		WR	8.28	.12
9-1-16	9:35 AM		WR	8.59	.30
9-1-16	9:50 AM		WR	8.30	.10
9-6-16	10:15 AM		WR	8.12	.16
9-6-16	10:30 AM		WR	8.14	.16
9-7-16	9:30 AM		WR	6.78	.24
9-7-16	9:30 AM		WR	6.62	.07
9-7-16	10:35 AM		WR	6.89	.19
9-8-16	9:35 AM		WR	8.14	.28
9-8-16	10:35 AM		WR	8.24	.26
9-12-16	11:30 AM		WR	8.16	.35
9-12-16	10:46 AM		WR	8.12	.36
9-12-16	9:45 AM		WR	8.09	.28
9-13-16	10:30 AM		WR	7.97	.32
9-14-16	10:35 AM		WR	8.12	.33
9-14-16	10:55 AM		WR	8.09	.37
9-14-16	10:36 AM		WR	8.13	.36
9-15-16	9:45 AM		WR	8.55	.43
9-15-16	10:30 AM		WR	8.15	.35
9-26-16	9:55 AM		WR	8.14	.66
9-26-16	9:15 AM		WR	8.15	.41
9-26-16	9:35 AM		WR	7.95	.20
9-27-16	9:55 AM		WR	8.04	.41
9-27-16	11:15 AM		WR	8.03	.37
9-27-16	9:35 AM		WR	8.00	.38
9-28-16	11:03 AM		WR	8.05	.21
9-28-16	10:50 AM		WR	8.08	.42
9-29-16	10:05 AM		WR	8.08	.39
9-29-16	9:45 AM		WR	8.40	.45

Ex. 6 - Personal Privacy

Comments:

East Chicago Water Works
Water Laboratory
PWSID # 5245012

ate	Time	Sampling Location	Sampler	Ph	Phosphate mg/L
10-3-16	11:28 AM		WR	8.15	.39
10-3-16	10:03 AM		WR	8.17	.38
10-5-16	10:53 AM		WR	7.97	.41
10-5-16	9:35 AM		WR	7.85	.32
10-6-16	9:55 AM		WR	7.89	.31
10-6-16	10:7 AM		WR	7.97	.35
10-10-16	9:33 AM		WR	8.04	.36
10-10-16	10:16 AM		WR	8.01	.32
10-11-16	11:05 AM		WR	8.04	.34
10-11-16	9:10 AM		WR	8.00	.32
10-12-16	10:8 AM		WR	7.99	.26
10-12-16	9:45 AM		WR	8.06	.36
10-13-16	9:3 AM		WR	7.97	.23
10-13-16	10:03 AM		WR	8.15	.34
10-17-16	9:33 AM		WR	8.00	.28
10-17-16	11:48 AM		WR	8.67	.42
10-17-16	10:48 AM		WR	8.18	.38
10-19-16	11:25 AM		WR	7.95	.35
10-19-16	12:13 PM		WR	7.95	.27
10-20-16	10:02 AM		WR	7.96	.35
10-20-16	10:35 AM		WR	8.02	.32
10-24-16	10:16 AM		WR	8.07	.31
10-24-16	9:50 AM		WR	8.12	.31
10-25-16	10:30 AM		WR	8.02	.27
10-25-16	9:50 AM		WR	8.10	.26
10-25-16	9:30 AM		WR	8.04	.25
10-26-16	11:20 AM		WR	8.02	.32
10-26-16	9:45 AM		WR	7.96	.41
10-26-16	10:46 AM		WR	7.99	.28
10-27-16	10:27 AM		WR	8.01	.33

Ex. 6 - Personal Privacy

Co ents:

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Bair, Rita[bair.rita@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Porter, Andrea
Sent: Thur 12/1/2016 7:41:49 PM
Subject: RE: For Review: Draft East Chicago Script
EAST CHICAGO LEAD SEQUENTIAL RESULTS SCRIPT revised draft 11 29 16_ap_edits.docx

Hi Miguel and Rita,

Please see revised draft script.

It has been edited to:

Ex. 5 - Deliberative Process

Let me know if you need more on this.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Deltoral, Miguel
Sent: Thursday, December 01, 2016 11:46 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: For Review: Draft East Chicago Script

Hi Andrea,

I am trying to get the EC graphs done ahead of tomorrow's call with IDEM and next Saturday's open house. I talked with Brian about getting the lab data into scribe so he was going to talk to the SF folks yesterday but I haven't heard back. In the meantime I am working on the graphs since I don't want to have to do that over the weekend and I suspect next week's going to be real busy getting ready for the open house. So...

Can you please take a shot at updating the script? Attached are graphs for 7 of the 9 sites in Zone 3 with lead lines coming into the homes. Based on Tim D's updated lab schedule, it looks like it will be mid-December before we get that data validated, but once we do...we are going to have to include recommendations for the residents with LSLs since the LSL sites are all high and this

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Wednesday, November 30, 2016 7:05:07 AM

To: Bair, Rita
Subject: Re: For Review: Draft East Chicago Script

Hi Rita,

I hate to do this, but I was talking to SF folks yesterday and all excavation and sampling for the year has been completed, so the script will need to be updated because it refers to activities as if they are yet to be completed. I am heading in shortly and will work on this first thing when I get into the office.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Tuesday, November 29, 2016 2:34:31 PM
To: Hollingsworth, Mary; Stacy Jones; Kelley, Jeff; Cassell, Peter
Cc: Poy, Thomas; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Henry, Timothy; Korleski, Christopher; Maraldo, Dean; Mendez, Thomas; Donnelly, Peggy
Subject: For Review: Draft East Chicago Script

We have gotten the draft script through the Regional Water Division management and would now like to solicit the R5 Office of Public Affairs and IDEM DW program review and input. We are ready to start making calls to residents in Zone 2 with lead results, so your input on this as soon as possible will allow us to start making calls. IDEM if you want to discuss on Friday's call, please let us know.

To: Bair, Rita[bair.rita@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]
From: Cassell, Peter
Sent: Thur 12/1/2016 6:53:53 PM
Subject: RE: FOR REVIEW: Desk Statement on East Chicago - for today's meeting later to be shared with HQs and Bob by COB

Anyone that had excavation done received bottled water and either the contractor, or EPA, installed the filter for them when it was done.

If you live in Zone 2 and 3 and did not have any excavation, you did not get bottled water or a filter.

I think your other comments should get discussed at our meeting this afternoon.

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

From: Bair, Rita
Sent: Thursday, December 01, 2016 12:08 PM
To: Cassell, Peter <cassell.peter@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: FOR REVIEW: Desk Statement on East Chicago - for today's meeting later to be shared with HQs and Bob by COB

My initial thoughts are below. Can we discuss either at the briefing today or tomorrow's pre-IDEM call?

From: Cassell, Peter
Sent: Thursday, December 01, 2016 11:55 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: FOR REVIEW: Desk Statement on East Chicago - for today's meeting later to be shared with HQs and Bob by COB
Importance: High

Drinking Water Desk Statement for East Chicago

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Pete Cassell
Press Officer
U.S. EPA Region 5
312-886-6234 (office)
312-859-9614 (cell)
cassell.peter@epa.gov

-----Original Appointment-----
From: Korleski, Christopher
Sent: Thursday, December 01, 2016 10:26 AM
To: Korleski, Christopher; Poy, Thomas; Bair, Rita
Cc: Cassell, Peter
Subject: FW: Quick Check-in on East Chicago Notification Process
When: Thursday, December 01, 2016 2:30 PM-2:45 PM (UTC-06:00) Central Time (US & Canada).
Where: CK Office

-----Original Appointment-----
From: Korleski, Christopher
Sent: Wednesday, November 30, 2016 2:13 PM
To: Korleski, Christopher; Poy, Thomas; Bair, Rita
Subject: Quick Check-in on East Chicago Notification Process
When: Thursday, December 01, 2016 2:30 PM-2:45 PM (UTC-06:00) Central Time (US & Canada).

Where: CK Office

To: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Thur 12/1/2016 6:40:16 PM
Subject: RE: East Chicago data

Rita,

The summary spreadsheet would probably be the quickest way and provide what is probably the most critical information (lead results). Maybe we can ask if they want to see the other metals and WQP (TP, Alk, Cl-, Fl- S04)?

All of the preliminary data (pdf and excel files) and the few final DVR reports are saved on the internal East Chicago sharepoint site.

Thanks,

Val

From: Bair, Rita
Sent: Thursday, December 01, 2016 12:32 PM
To: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: East Chicago data

Ex. 5 - Deliberative Process

From: Porter, Andrea
Sent: Thursday, December 01, 2016 12:25 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: East Chicago data

Hi Rita,

I haven't sent any East Chicago results to IDEM since the one initial data email on 10/26/2016.

According to my notes from the 11/21/2016 call with IDEM, they wanted to see any data (prelim or final) that we planned to share with the public (including through phone calls) beforehand. My notes also say that you would be the one sending the data to Mary Hollingsworth, Stacy Jones, and Matt (?).

Ex. 5 - Deliberative Process

Hope that helps,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bair, Rita
Sent: Thursday, December 01, 2016 12:09 PM
To: Porter, Andrea <porter.andrea@epa.gov>
Subject: East Chicago data

What is the status of sharing the East Chicago data with IDEM?

To: Bair, Rita[bair.rita@epa.gov]
From: Porter, Andrea
Sent: Thur 12/1/2016 6:38:56 PM
Subject: RE: East Chicago data

Hi Rita,

You can forward all of the emails and attachments, but it will be time-consuming for IDEM to search through the files for the lead levels. Maybe that's OK?

Val would be better to answer the SharePoint question. Val may also know how reliable the "master" spreadsheet on SharePoint is – I don't know who's been updating that sheet for East Chicago.

Eventually, the data is supposed to all go into SCRIBE. Miguel had a call with Brian Cooper yesterday to try to get an estimated timeline on that. As far as I understand, the labs have not yet been able to produce an EDD that can go into SCRIBE. Sharing via SCRIBE would be nice, but I'm not sure we can wait on that.

In the meantime, Miguel has been adding the lead data to graphs as it comes in. He's trying to get the graphs done before tomorrow's call with IDEM. Sharing those files (once Miguel finishes them) with IDEM would be another way. It would save them analysis time, but they may want the lab reports, too, for their records?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bair, Rita
Sent: Thursday, December 01, 2016 12:32 PM
To: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: East Chicago data

Ex. 5 - Deliberative Process

From: Porter, Andrea
Sent: Thursday, December 01, 2016 12:25 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: East Chicago data

Hi Rita,

I haven't sent any East Chicago results to IDEM since the one initial data email on 10/26/2016.

According to my notes from the 11/21/2016 call with IDEM, they wanted to see any data (prelim or final) that we planned to share with the public (including through phone calls) beforehand. My notes also say that you would be the one sending the data to Mary Hollingsworth, Stacy Jones, and Matt (?).

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Hope that helps,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bair, Rita
Sent: Thursday, December 01, 2016 12:09 PM
To: Porter, Andrea <porter.andrea@epa.gov>
Subject: East Chicago data

What is the status of sharing the East Chicago data with IDEM?

To: Bair, Rita[bair.rita@epa.gov]
From: Donnelly, Peggy
Sent: Thur 12/1/2016 6:36:52 PM
Subject: Re: USS Lead Data Summary

Thanks. I will be there.

Peg Donnelly
U.S. EPA, R5, Water Division
312-914-4794 cell

Sent from my iPhone

On Dec 1, 2016, at 12:26 PM, Bair, Rita <bair.rita@epa.gov> wrote:

We are meeting in Chris's office at 2:30. Scheduled for 15 minutes right now.

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 12:23 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead Data Summary

peg will be there.

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Bair, Rita
Sent: Thursday, December 1, 2016 12:11 PM

To: Maraldo, Dean
Subject: RE: USS Lead Data Summary

sure

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 12:11 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead Data Summary

Sorry, I'm not. Peg might be. Want me to find out?

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Bair, Rita
Sent: Thursday, December 1, 2016 11:51 AM
To: Maraldo, Dean
Subject: RE: USS Lead Data Summary

Are you free to talk at 2:30? Chris set up a very brief check-in meeting on East Chicago with Tom and I.

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 11:24 AM

To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: USS Lead Data Summary

All: I'm headed out of he country for several days so I wanted to get some ideas out there regarding communication before I leave. Sorry I can't make the call with IDEM tomorrow. It sounds like calls to residents will happen soon which is good news. Also heard that there's a Superfund public meeting on Dec. 10.

That leaves the issue of notifying the community that we are finding elevated levels of lead in some of the homes at the USS Lead site, prior to excavation. I

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

A few weeks back Miguel and I worked up a mock website (attached) providing info for residents at the USS Lead site and East Chicago in general. Its basically copied from the Chicago Study website that is currently live on R5 website. It needs updating (current status of IDEM/city efforts to treat) but its a start and provides good info for residents re filters, flushing, etc. I suggest we create something like this for USS Lead Site and East Chicago as there will be great interest and concern once data is released. Press release would be helpful to so we're not stuck responding to misinformation.

Thanks,

Dean

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: USS Lead Data Summary

All: here's a quick summary of results for USS Lead sequential sampling. Note that we still have no validated data for Zone 3 properties. New schedule from Superfund has first validated results for Zone 3 coming in on Dec. 9, with additional sets due Dec. 16 and Dec. 23.

So far, 54% of properties sampled, pre-excavation, have at least one sample with lead above action level [66% for Zone 3 and 25% for Zone 2].

We do have validated data for Zone 2 which confirmed the reliability of preliminary data. This applies to Zone 2 only as different labs were used for Zone 3.

USS Lead Sequential Sampling Result Summary **11/30/2016 Draft**	**Zone 2**	**Zone 3**	**Total**

	Pre	Post	Pre	Post	Pre	Post
# of Properties in Sequential Sampling Program	8	8	37	37	45	45
# of Properties with Preliminary Results	8	5	18	16	26	21
# of Properties with at least one Pb result above action level (15 ppb)	2	1	12	8	14	9
# of Properties with Final - Validated Results	7	1	0	0	7	1

To: Bair, Rita[bair.rita@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Thur 12/1/2016 6:26:11 PM
Subject: RE: East Chicago data?

Rita,

Here is the updated summary (data has been added to Sharepoint):

- Zone 2 (CT Labs)

o Pre-excavation:

▪ 8 sites reported (of which 7 datasets are final)

▪ Max lead is 44.9 ppb

o Post-excavation:

▪ 5 sites reported (of which 1 dataset is final)

▪ Max lead is 334 ppb

o Based on the Level 4 DV reports, no major issues were apparent for CT Labs data.

- Zone 3 (Pace or STAT)

o Pre-excavation:

▪ 25 sites reported

▪ Max lead is 130 ppb

o Post-excavation:

▪ 16 sites reported

▪ Max lead is 81.2 ppb

o Still no Level 4 DVRs ("Final data") for Pace or STAT data (recent information from the RPM indicates 12/9-12/23 for the final data delivery). One of the major issues (reporting under the wrong method with elevated DLs) has been corrected with revised prelim data. There are a few other issues that have been raised to the contractor/lab that I believe are still outstanding

(e.g., wrong COC attached to 1 STAT report, clarification of low-level reporting between the RL and MDL).

Let me know if you have any questions or need anything else.

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Thursday, December 01, 2016 11:09 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago data?

Val, since we got a bunch more data yesterday for East Chicago, could you proved an updated summary similar to what you did on Monday (below)? We have a brief management check-in meeting with Chris at 2:30 today. Also, do you know what we can say yet about the Zone 3 data

quality?

From: Bosscher, Valerie
Sent: Tuesday, November 29, 2016 11:02 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: East Chicago data?

Rita,

For the Zone 2 (CT Labs) data, the prelim data seems reliable enough to share/report on. The Level 4 DVRs that have been completed by the Superfund contractor should be sufficient QA from the lab data side.

Is there information in the field notes that would be important for messaging (such as proximity of the excavation to the service line, type of excavation, duration/location of flushing after completion)? I understand that the contractor is providing QA review of those field notes before they are loaded to the database. The Water Team had also looked at the early field notes (before ~10/29).

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Tuesday, November 29, 2016 10:24 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: East Chicago data?

Ex. 5 - Deliberative Process

From: Bosscher, Valerie
Sent: Monday, November 28, 2016 1:36 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: East Chicago data?

Hi Rita,

I did not see any new East Chicago data on Wednesday.

Here is a summary of data received, which also is on Sharepoint:

- Zone 2 (CT Labs)

- Pre-excavation:
  - 8 sites reported (of which 7 datasets are final)
  - Max lead is 44.9 ppb
- Post-excavation:

- 3 sites reported (of which 1 dataset is final)
- Max lead is 334 ppb

o Based on the Level 4 DV reports, no major issues were apparent for CT Labs data.

- Zone 3 (Pace or STAT)

o Pre-excavation:

- 14 sites reported
- Max lead is 81 ppb

o Post-excavation:

- 9 sites reported
- Max lead is 35 ppb

o I have not seen any Level 4 DVRs ("Final data") for Pace or STAT data.

Let me know if you have any questions or would like to discuss.

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Monday, November 28, 2016 12:02 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: East Chicago data?

Did we get the final data last Wednesday as promised?

To: Maraldo, Dean[Maraldo.Dean@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Deltoral, Miguel
Sent: Thur 12/1/2016 6:21:18 PM
Subject: Re: USS Lead Data Summary

Hi Dean,

Thanks for reminding me. I can't keep with all of the balls in the air. I have a slightly revised recommendation now. Rather than having separate sites for Chicago, East Chicago and Flint, we have enough information now in my opinion to remove the 'Chicago' label on our recommendations and just tell anyone with a LSL that they should use a filter. With the Chicago, Milwaukee, Flint and East Chicago LSL data I think it's time that we just make that the overarching recommendation.

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Maraldo, Dean
Sent: Thursday, December 1, 2016 11:23:34 AM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: Re: USS Lead Data Summary

All: I'm headed out of he country for several days so I wanted to get some ideas out there regarding communication before I leave. Sorry I can't make the call with IDEM tomorrow. It sounds like calls to residents will happen soon which is good news. Also heard that there's a Superfund public meeting on Dec. 10.

That leaves the issue of notifying the community that we are finding elevated levels of lead in some of the homes at the USS Lead site, prior to excavation. I recommended

Ex. 5 - Deliberative Process

A few weeks back Miguel and I worked up a mock website (attached) providing info for residents at the USS Lead site and East Chicago in general. Its basically copied from the Chicago Study website that is currently live on R5 website. It needs updating (current status of IDEM/city efforts to treat) but its a start and provides good info for residents re filters, flushing, etc. I suggest we create something like this for USS Lead Site and East Chicago as there will be great interest and concern once data is released. Press release would be helpful to so we're not stuck responding to misinformation.

Thanks,

Dean

==========

Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: USS Lead Data Summary

All: here's a quick summary of results for USS Lead sequential sampling. Note that we still have no validated data for Zone 3 properties. New schedule from Superfund has first validated results for Zone 3 coming in on Dec. 9, with additional sets due Dec. 16 and Dec. 23.

So far, 54% of properties sampled, pre-excavation, have at least one sample with lead above action level [66% for Zone 3 and 25% for Zone 2].

We do have validated data for Zone 2 which confirmed the reliability of preliminary data. This applies to Zone 2 only as different labs were used for Zone 3.

USS Lead Sequential Sampling Result Summary **11/30/2016 Draft**	**Zone 2**		**Zone 3**		**Total**	
	Pre	Post	Pre	Post	Pre	Post
# of Properties in Sequential Sampling Program	8	8	37	37	45	45
# of Properties with Preliminary Results	8	5	18	16	26	21
# of Properties with at least one Pb result above action level (15 ppb)	2	1	12	8	14	9
# of Properties with Final - Validated Results	7	1	0	0	7	1

To: Bair, Rita[bair.rita@epa.gov]
From: Maraldo, Dean
Sent: Thur 12/1/2016 6:10:56 PM
Subject: Re: USS Lead Data Summary

Sorry, I'm not. Peg might be. Want me to find out?

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Bair, Rita
Sent: Thursday, December 1, 2016 11:51 AM
To: Maraldo, Dean
Subject: RE: USS Lead Data Summary

Are you free to talk at 2:30? Chris set up a very brief check-in meeting on East Chicago with Tom and I.

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 11:24 AM
To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: USS Lead Data Summary

All: I'm headed out of he country for several days so I wanted to get some ideas out there regarding communication before I leave. Sorry I can't make the call with IDEM tomorrow. It sounds like calls to residents will happen soon which is good news. Also heard that there's a Superfund public meeting on Dec. 10.

That leaves the issue of notifying the community that we are finding elevated levels of lead in some of the homes at the USS Lead site, prior to excavation. I recommended

Ex. 5 - Deliberative Process

A few weeks back Miguel and I worked up a mock website (attached) providing info for residents at the USS Lead site and East Chicago in general. Its basically copied from the Chicago Study website that is currently live on R5 website. It needs updating (current status of IDEM/city efforts to treat) but its a start and provides good info for residents re filters, flushing, etc. I suggest we create something like this for USS Lead Site and East Chicago as there will be great interest and concern once data is released. Press release would be helpful to so we're not stuck responding to misinformation.

Thanks,

Dean

==========

Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: USS Lead Data Summary

All: here's a quick summary of results for USS Lead sequential sampling. Note that we still have no validated data for Zone 3 properties. New schedule from Superfund has first validated results for Zone 3 coming in on Dec. 9, with additional sets due Dec. 16 and Dec. 23.

So far, 54% of properties sampled, pre-excavation, have at least one sample with lead above action level [66% for Zone 3 and 25% for Zone 2].

We do have validated data for Zone 2 which confirmed the reliability of preliminary data. This applies to Zone 2 only as different labs were used for Zone 3.

USS Lead Sequential Sampling Result Summary **11/30/2016 Draft**	**Zone 2**		**Zone 3**		**Total**	
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# of Properties in Sequential Sampling Program	8	8	37	37	45	45
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# of Properties with at least one Pb result above action level (15 ppb)	2	1	12	8	14	9
# of Properties with Final - Validated Results	7	1	0	0	7	1

To: Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Thur 12/1/2016 6:01:16 PM
Subject: Re: For Review: Draft East Chicago Script

Sure. Can you patch me in? If so, best to use the EPA cell, my home phone/internet are acting up.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, December 1, 2016 11:51:57 AM
To: Deltoral, Miguel
Subject: RE: For Review: Draft East Chicago Script

Are you available at 2:30 today? Chris set up a very brief check-in meeting with Tom and I about East Chicago.

From: Deltoral, Miguel
Sent: Thursday, December 01, 2016 11:46 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: For Review: Draft East Chicago Script

Hi Andrea,

I am trying to get the EC graphs done ahead of tomorrow's call with IDEM and next Saturday's open house. I talked with Brian about getting the lab data into scribe so he was going to talk to the SF folks yesterday but I haven't heard back. In the meantime I am working on the graphs since I don't want to have to do that over the weekend and I suspect next week's going to be real busy getting ready for the open house. So...

Can you please take a shot at updating the script? Attached are graphs for 7 of the 9 sites in Zone 3 with lead lines coming into the homes. Based on Tim D's updated lab schedule, it looks like it will be mid-December before we get that data validated, but once we do...we are going to have to

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Wednesday, November 30, 2016 7:05:07 AM
To: Bair, Rita
Subject: Re: For Review: Draft East Chicago Script

Hi Rita,

I hate to do this, but I was talking to SF folks yesterday and all excavation and sampling for the year has been completed, so the script will need to be updated because it refers to activities as if they are yet to be completed. I am heading in shortly and will work on this first thing when I get into the office.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)

Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Tuesday, November 29, 2016 2:34:31 PM
To: Hollingsworth, Mary; Stacy Jones; Kelley, Jeff; Cassell, Peter
Cc: Poy, Thomas; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Henry, Timothy; Korleski, Christopher; Maraldo, Dean; Mendez, Thomas; Donnelly, Peggy
Subject: For Review: Draft East Chicago Script

We have gotten the draft script through the Regional Water Division management and would now like to solicit the R5 Office of Public Affairs and IDEM DW program review and input. We are ready to start making calls to residents in Zone 2 with lead results, so your input on this as soon as possible will allow us to start making calls. IDEM if you want to discuss on Friday's call, please let us know.

To: Bair, Rita[bair.rita@epa.gov]
From: Cassell, Peter
Sent: Wed 11/30/2016 5:03:53 PM
Subject: RE: Do you know when we plan to make calls to residents in EC with results?

What's the status of the data on all of this? Maybe it would be helpful to have a call with Jeff and I.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Bair, Rita
Sent: Wednesday, November 30, 2016 10:49 AM
To: Cassell, Peter <cassell.peter@epa.gov>
Subject: RE: Do you know when we plan to make calls to residents in EC with results?

Ex. 5 - Deliberative Process

From: Cassell, Peter
Sent: Wednesday, November 30, 2016 10:35 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Do you know when we plan to make calls to residents in EC with results?

THX

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

To: Bair, Rita[bair.rita@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
From: Korleski, Christopher
Sent: Tue 11/29/2016 3:51:07 PM
Subject: RE: Latest Draft of East Chicago script

Absolutely. I want the scripts to be as effective as possible.

From: Bair, Rita
Sent: Tuesday, November 29, 2016 9:49 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Latest Draft of East Chicago script

Can I share with OPA and IDEM for review and input?

From: Korleski, Christopher
Sent: Tuesday, November 29, 2016 9:40 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Latest Draft of East Chicago script

Hi Rita:

I made a few edits which I think may make it a bit easier to understand. However, I will defer to the team's technical experts on the final version. I didn't mark up the post-excavation script, but same comments would apply.

Also, is the tense of the script still accurate given how far the sampling work has proceeded (which I'm not sure of)?

Please share with the appropriate team members for review and comment and finalize the script

for use.

Thanks.

From: Bair, Rita
Sent: Tuesday, November 29, 2016 9:06 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: FW: Latest Draft of East Chicago script

From: Bair, Rita
Sent: Monday, November 14, 2016 2:58 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Del Toral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Latest Draft of East Chicago script

Chris, If you are ok with this script, should we share with IDEM and/or OPA before we finalize?

From: Bair, Rita
Sent: Tuesday, November 08, 2016 4:57 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Del Toral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Latest Draft of East Chicago script

As a follow-up to our meeting today, you asked me to confirm the status of the East Chicago script for calling residents with their results. Attached is a revised draft of the East Chicago Script that I double-checked against Miguel's comments and addressed some of the comments you noted. Please let me know what the next steps are and if we can send to OPA and the IDEM drinking water program to review the draft. What we actually tell the residents will depend on when we can contact them and what we know about their results at that time, so this may need additional revisions once we are ready to start making calls.

To: Poy, Thomas[poy.thomas@epa.gov]
Cc: Henry, Timothy[henry.timothy@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Sun 11/20/2016 2:00:07 PM
Subject: Re: USS Lead DW Analytical Reports & EDDs - Folders 123561 & 123637
Homes Sampled-Status Sheet updated on 2016-11-20.pdf

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Poy, Thomas
Sent: Friday, November 18, 2016 10:13:38 PM
To: Deltoral, Miguel

Ex. 5 - Deliberative Process

Begin forwarded message:

From: "Hassan, Jacob" <hassan.jacob@epa.gov>
To: "Deltoral, Miguel" <deltoral.miguel@epa.gov>, "Donnelly, Peggy" <Donnelly.Peggy@epa.gov>, "Maraldo, Dean" <Maraldo.Dean@epa.gov>, "Mendez, Thomas" <mendez.thomas@epa.gov>, "Bosscher, Valerie" <bosscher.valerie@epa.gov>, "Porter, Andrea" <porter.andrea@epa.gov>
Subject: Fwd: USS Lead DW Analytical Reports & EDDs - Folders 123561 & 123637

Hi All

Please see the attached Zone 2 tap water sampling data.

Thanks.

Jacob

Sent from my iPhone

Begin forwarded message:

From: "Kondreck, Robert" <robert.kondreck@tetratech.com>
To: "Donnelly, Peggy" <Donnelly.Peggy@epa.gov>, "Haag, Daniel" <Haag.Daniel@epa.gov>, "Hassan, Jacob" <hassan.jacob@epa.gov>
Cc: "Randy Dorian" <randy.dorian@tetratech.com>, "Ellis, Harry" <Harry.Ellis@tetratech.com>, "Dirgo, John" <John.Dirgo@tetratech.com>, "Jessica Vickers" <Jessica.Vickers@tetratech.com>
Subject: FW: USS Lead DW Analytical Reports & EDDs - Folders 123561 & 123637

Please find attached preliminary data for incremental water samples collected on 11/9/16 and 11/13/16.

From: Szymanski, Brett M [mailto:BSzymanski@ctlaboratories.com]
Sent: Friday, November 18, 2016 1:42 PM
To: Kondreck, Robert <robert.kondreck@tetratech.com>; Kleist, Andrew <Andrew.Kleist@tetratech.com>

Subject: USS Lead DW Analytical Reports & EDDs - Folders 123561 & 123637

Hello,

Attached are the analytical reports and the EDDs for the USS Lead drinking water samples that were logged under Folders 123561 and 123637.

Have a good afternoon,

Brett Szymanski

Project Manager

CT Laboratories, LLC

1230 Lange Court

Baraboo, WI 53913

Phone: 608-356-2760

Fax: 608-356-2766

www.ctlaboratories.com

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<123561-Analytical Report.pdf>

<123561-EDD.csv>

<123637-Analytical Report.pdf>

<123637-EDD.csv>

To: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Henry, Timothy
Sent: Fri 11/18/2016 5:31:52 PM
Subject: Fwd: USS Lead: Urgent request

In case Tom is not in, can you provide?

Tim Henry
Deputy Director, Water Division
US EPA Region V
312-886-6107 (office)
312-296-0690 (cell)

Sent from my iPhone

Begin forwarded message:

From: "Fiscus, Taylor" <Fiscus.Taylor@epa.gov>
Date: November 18, 2016 at 11:18:41 CST
To: "Henry, Timothy" <henry.timothy@epa.gov>
Cc: "Poy, Thomas" <poy.thomas@epa.gov>, "Korleski, Christopher" <korleski.christopher@epa.gov>
Subject: RE: USS Lead: Urgent request

Thanks Tim. Tom, would you be able to provide a quick update in the next hour or so?

Thanks,

Taylor

Taylor Fiscus | Special Advisor to the Regional Administrator
U.S. Environmental Protection Agency | 19119 | Region 5
312.353.6059 desk | 312.692.2936 fax | 312.735.9438 mobile

EPA's mission is to protect human health and the environment | Th!nk Before U Print

From: Henry, Timothy
Sent: Friday, November 18, 2016 9:51 AM
To: Fiscus, Taylor <Fiscus.Taylor@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>

Subject: RE: USS Lead: Urgent request

Lots of hands on this one, but I suspect that Tom (or he may identify one of his folks) would be the best POC for your questions.

Tim Henry
Deputy Director, Water Division
U.S. EPA (W-15J)
77 W. Jackson Blvd., Chicago, IL 60604-3590
Phone: 312.886.6107 Fax: 312.692.2578

From: Fiscus, Taylor
Sent: Friday, November 18, 2016 9:48 AM
To: Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: USS Lead: Urgent request

Tim,

Ex. 5 - Deliberative Process

USS Lead water sampling – East Chicago, IN

Region 5 has received preliminary results from 15 homes in East Chicago that are undergoing remediation. Of the 15 homes, 8 homes have levels of lead above the 15 ppb action level and up to 81 ppb. Superfund is providing bottled water and filters for all homes under remediation. The contract lab has had some issues that has affected turn-around time of analytical results. We are trying to get expedited final results from the lab (i.e., QA/QC'd data) in order to ensure that accurate information is provided to the homeowners. We notified the State of the issue of

lead in the water and they are working with the City of East Chicago to examine their orthophosphate feed rate. East Chicago is in the small/medium system category which is not required to do corrosion control as long as their 90th percentile is below the action level, which it is.

Thanks!

Taylor

Taylor Fiscus | Special Advisor to the Regional Administrator
U.S. Environmental Protection Agency | 19119 | Region 5
312.353.6059 desk | 312.692.2936 fax | 312.735.9438 mobile

EPA's mission is to protect human health and the environment | Th!nk Before U Print

From:
Sent: Friday, November 11, 2016 4:17 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject: Re: USS Lead: Urgent request

FYI - During a recent call with the EC Utilities Director Greg Crowley, he mentioned that they are in the process of working with the Office of Utility Consumer Counselor (agency representing ratepayer interests) on a rate increase which would include funds for removing lead service lines.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Korleski, Christopher
Sent: Thursday, November 10, 2016 02:26 PM
To: Fiscus, Taylor; Kaplan, Robert
Cc: Henry, Timothy; Poy, Thomas; Bair, Rita; Maraldo, Dean; Deltoral, Miguel; Shoven, Heather; Mendez, Thomas; Donnelly, Peggy; Drexler, Timothy
Subject: FW: USS Lead: Urgent request

Here is WD's update - copying Bob.

The Region has received preliminary results from 15 homes in East Chicago that are undergoing remediation. Of the 15 homes, 8 homes have levels of lead above the 15 ppb action level and up to 81 ppb. Superfund is providing bottled water and filters for all homes under remediation. The contract lab has had some issues that has affected turn-around time of analytical results. The Region is trying to get expedited final results from the lab (i.e., QA/QC'd data) in order to ensure that accurate information is provided to the homeowners. The Region has notified the State of the issue of lead in the water and they are working with the City of East Chicago to examine their orthophosphate feed rate. East Chicago is in the small/medium system category which is not required to do corrosion control as long as their 90th percentile is below the action level, which it is.

-----Original Message-----
From: Maraldo, Dean
Sent: Thursday, November 10, 2016 1:04 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Cc: Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject: USS Lead: Urgent request

All: I received a call from Taylor asking for a quick update on sampling at USS Lead. She needs to send the update to the Administrator's office by 2:30pm CT today!!

I'm sampling in Flint so I'll provide a start but Chicago will have to finalize and send to Taylor.

The Region has received preliminary results from 15 homes in East Chicago. Of the 15 homes, 8 homes have levels of lead above the 15 ppb action level and up to 81 ppb.

Superfund is providing bottled water and filters for all homes under remediation. The Region has notified the state who is working with the City of East Chicago to (someone else will have to finish this as I'm not involved).

Sent from my iPhone

To: Bosscher, Valerie[bosscher.valerie@epa.gov]
Cc: Mendez, Thomas[mendez.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Maraldo, Dean
Sent: Thur 11/17/2016 10:19:22 PM
Subject: Re: USS Lead: Post Excavation Water Results for Ex. 6 - Personal Privacy

Ex. 5 - Deliberative Process

Sent from my iPhone
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois. 60604
ph: (312) 353-2098
Cell: (312) 448-0393

On Nov 17, 2016, at 4:01 PM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

Dean/Tom,

Are you still coordinating WD comments on the East Chicago data?

Ex. 5 - Deliberative Process

Thanks,

Val

From: Drexler, Timothy
Sent: Wednesday, November 16, 2016 11:35 AM
To: Bair, Rita <bair.rita@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>;

Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Adler, Kevn <adler.kevin@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Fischer, Timothy <Fischer.Timothy@epa.gov>
Subject: FW: USS Lead: Post Excavation Water Results for Ex. 6 - Personal Privacy

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Wednesday, November 16, 2016 11:30 AM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>
Subject: Post Excavation Water Results for Ex. 6 - Personal Privacy

Tim/Tom:

Please find attached preliminary water results for the post excavation samples collected at Ex. 6 - Personal Privacy I have also attached a data summary table for you to pass along to water division. Please let me know if you have any questions or concerns.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

www.SRSllc.com

<image001.png>

<50158281 Results Summary.xlsx>

To: Bair, Rita[bair.rita@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Bosscher, Valerie
Sent: Mon 11/14/2016 8:27:53 PM
Subject: RE: USS Lead: Urgent request

Updated summary based on the 3 new data sets today Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Bosscher, Valerie
Sent: Thursday, November 10, 2016 1:37 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: USS Lead: Urgent request

Rita,

I believe Dean included all the data, including those reports that we have noted issues for lab follow-up.

Here is a summary of the available preliminary results (based on what has been forwarded to WD):

- Zone 2
  - Pre-excavation - 1 home reported (Max lead results is 5.7 ppb)
  - Post-excavation (after flushing) - No data available

Ex. 5 - Deliberative Process

- Zone 3
  - Pre-excavation - 12 homes reported (Max lead results is 81 ppb)
  - Post-excavation (after flushing) - 8 homes reported (Max lead results is 39 ppb)
  - Of the 5 homes with both pre-excavation and post-excavation/post-flushing, the post-excavation (post-flushing) results are either similar (within the 20% precision of the analytical method) or below the pre-excavation results.

Ex. 5 - Deliberative Process

Hope this helps. Let me know if you need anything else!
-Val

Valerie Bosscher, P.E.
Environmental Engineer
Ground Water & Drinking Water Branch
Ph 312-886-6731
U.S. EPA Region 5
77 W. Jackson Blvd. (WG-15J)
Chicago, IL 60604

-----Original Message-----
From: Bair, Rita
Sent: Thursday, November 10, 2016 1:16 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: USS Lead: Urgent request

Ex. 5 - Deliberative Process

-----Original Message-----
From: Maraldo, Dean
Sent: Thursday, November 10, 2016 1:04 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Cc: Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Subject: USS Lead: Urgent request

All: I received a call from Taylor asking for a quick update on sampling at USS Lead. She needs to send the update to the Administrator's office by 2:30pm CT today!!

I'm sampling in Flint so I'll provide a start but Chicago will have to finalize and send to Taylor.

The Region has received preliminary results from 15 homes in East Chicago. Of the 15 homes, 8 homes have levels of lead above the 15 ppb action level and up to 81 ppb.

Superfund is providing bottled water and filters for all homes under remediation. The Region has notified the state who is working with the City of East Chicago to (someone else will have to finish this as I'm not involved).

Sent from my iPhone

To: Bair, Rita[bair.rita@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]
From: Henry, Timothy
Sent: Mon 11/14/2016 7:00:19 PM
Subject: RE: Requests from East Chicago residents to have their drinking water tested

Ex. 5 - Deliberative Process

Tim Henry
Deputy Director, Water Division
U.S. EPA (W-15J)
77 W. Jackson Blvd., Chicago, IL 60604-3590
Phone: 312.886.6107 Fax: 312.692.2578

From: Bair, Rita
Sent: Monday, November 14, 2016 12:13 PM
To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Requests from East Chicago residents to have their drinking water tested

Ex. 5 - Deliberative Process

From: Cannon, Phillippa
Sent: Monday, November 14, 2016 12:00 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Requests from East Chicago residents to have their drinking water tested

Rita – Janet Pope, our lead community involvement coordinator at the USS Lead site in East Chicago, has been getting requests from residents to have their drinking water tested. The requests are coming from residents who are not having the yards of their homes excavated. She advised them to contact the City of East Chicago, but they told her the city told them to contact EPA. A few months ago, East Chicago Utilities Director Greg Crowley told me the city did not have enough staff to respond to requests to test drinking water and asked me not to include the water department phone number on a fact sheet. Any advice on how she should respond to these requests?

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

To: Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
From: Cannon, Phillippa
Sent: Mon 11/14/2016 6:14:38 PM
Subject: RE: Requests from East Chicago residents to have their drinking water tested

Thanks Rita.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Bair, Rita
Sent: Monday, November 14, 2016 12:13 PM
To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Requests from East Chicago residents to have their drinking water tested

Ex. 5 - Deliberative Process

From: Cannon, Phillippa
Sent: Monday, November 14, 2016 12:00 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne

<rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Requests from East Chicago residents to have their drinking water tested

Rita – Janet Pope, our lead community involvement coordinator at the USS Lead site in East Chicago, has been getting requests from residents to have their drinking water tested. The requests are coming from residents who are not having the yards of their homes excavated. She advised them to contact the City of East Chicago, but they told her the city told them to contact EPA. A few months ago, East Chicago Utilities Director Greg Crowley told me the city did not have enough staff to respond to requests to test drinking water and asked me not to include the water department phone number on a fact sheet. Any advice on how she should respond to these requests?

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

To: Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]
From: Bosscher, Valerie
Sent: Thur 11/10/2016 6:37:02 PM
Subject: RE: USS Lead Water Data - for WD Discussion

Sorry for the multiple emails, I noticed the following in the new data for the Zone 2 lab:

- 123252-Analytical Report

o The RL, DL, and (I think) J-qualifiers are missing for the Dissolved Lead data beginning on Page 14 of 18.

o See updated note on Chloride below. Is there a need to evaluate STAT's Chloride results or method?

- 123249-Analytical Report

o Were you able to open this file? The pdf appears to be damaged when I tried to open it.

From: Bosscher, Valerie
Sent: Thursday, November 10, 2016 11:50 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>
Subject: RE: USS Lead Water Data - for WD Discussion

Update, after talking with Brian Cooper yesterday:

- EDDs in Scribe format are needed (from all labs)

Ex. 5 - Deliberative Process

o Status: Brian sent an example to Tim Drexler, and is waiting for action by the RPMs/contractor.

- Field data in iForms is being entered by the contractor (I assume with EPA field team input during the start).

o Is the contractor QA'ing this data? Is the field team? Who is loading the field data into the

database?

Both these pieces are needed so that data can be loaded into the database, to facilitate both resident communications and data analysis (would be unnecessarily slow and resource intensive to pick all the numbers out of pdfs).

From: Bosscher, Valerie
Sent: Wednesday, November 09, 2016 11:29 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>
Subject: RE: USS Lead Water Data - for WD Discussion

Hi Dean and Tom,

After discussing with Tom today, I updated the East Chicago master spreadsheet (on Sharepoint) with the new results received today. I added flags in red text where I saw issues to be discussed with the lab(s)/contractor/SFD (see notes below).

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Please let me know if you have questions or would like to discuss. Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Donnelly, Peggy
Sent: Wednesday, November 09, 2016 10:38 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Drexler, Timothy <drexler.timothy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Subject: Re: USS Lead Ex. 6 - Personal Privacy

Val, water will be talking about all of this data before anything happens with it. Pace Lab's reporting limits are too high, as are the ones from Stat Lab.

Ex. 5 - Deliberative Process

Thanks.

Sent from my iPhone

On Nov 9, 2016, at 11:29 AM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

Hi Tim,

This report 16100237(SRS)Rev0_Preliminary has inconsistent Reporting Limits for lead, Ex. 5 - Deliberative Process Some samples in this job have RL of 4 ppb for lead (at DF=2), whereas all other samples in this job and other jobs have an RL of 2 ppb (also at DF=2). I would expect to see a consistent the RLs for all the metals, for a given dilution factor, throughout this job and between jobs. However, for those samples with the increased RL (4 ppb) for lead, the RLs for other metals in the same samples are not increased.

Let me know if you have any questions. Thanks,

-Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Drexler, Timothy
Sent: Wednesday, November 09, 2016 8:50 AM
To: Maraldo, Dean <Maraldo.Dean@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>

Cc: Alcamo, Thomas <alcamo.thomas@epa.gov>; Adler, Kevn <adler.kevin@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: FW: USS Lead 4835-37 Ex. 6 - Personal Privacy

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Wednesday, November 09, 2016 8:12 AM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: Ex. 6 - Personal Privacy

Tim:

Please find attached the preliminary pre-excavation water sample results for Ex. 6 - Personal Privacy Ex. 6 - Personal Privacy and Ex. 6 - Personal Privacy There are also a few air sample results at the end of this report that are non-detect for Lead and Arsenic.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312)220-7171 x2223 office

(312) 914-0325 cell

(312)220-7172 fax

www.SRSllc.com

<image001.png>

To: Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]
From: Maraldo, Dean
Sent: Wed 11/9/2016 9:35:25 PM
Subject: Re: USS Lead Tap Water Results

Superfund is offering bottled water and filters to homes that are being remediated. I know that there varying opinions on the use of draft vs final data. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

- Dean

Sent from my iPhone

On Nov 9, 2016, at 12:40 PM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

Ex. 5 - Deliberative Process

Thanks.

From: Maraldo, Dean
Sent: Wednesday, November 09, 2016 11:09 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita

<bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Re: USS Lead Tap Water Results

Chris: Tom and I just met with Tim and his contractor SRS regarding the lab issues. We confirmed that their subcontract lab, Pace, used an incorrect method for metals a analysis. SRS will have the lab re-run samples using proper method. However, they may not have enough sample to re-run the first two samples in the sequential sampling process as they are collected in 125ml bottles. Same for our filtered samples (60 ml samples). They should have plenty of sample left in the sequential samples collected in 1l bottles which is the majority of samples.

Regarding reporting results, we received a bunch of results today (although some will need to be re-run as per above) and more preliminary results are expected each day. However, we are still 2 weeks away from receiving our first set of final validated data as per our priority list. The lab is having software problems so they have to manually prepare final data packages which takes longer.

On a good note, first set of preliminary results for zone 2 should arrive tomorrow. Zone 2 involves an entirely different set of contractors and labs so we should not see lab issues carry over to zone 2.

Tom and I are on the road to Flint now. Please feel free to call with any questions.

Thanks,

Dean

Sent from my iPhone

On Nov 8, 2016, at 12:52 PM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

Hi Tim:

Per our call, the purpose of this e-mail is to ask **Tom Mendez** to work directly with you and whoever you may designate to schedule a call or meeting a soon as possible to discuss the status of the water sampling results from East Chicago. As I mentioned, my technical folks have raised two issues they'd like to discuss: 1) sample turnaround time; and 2) the number of "ND"s in the latest samples that came in.

As I said, some of my folks (Tom and Dean?) are going to be at the site tomorrow, so maybe the easiest thing is to just do it there. And, I agree with you that having the contractors and lab reps there would be very helpful.

I really appreciate your and your team's continued assistance on this.

Thanks.

Chris

From: Drexler, Timothy
Sent: Tuesday, November 08, 2016 11:59 AM
To: Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Adler, Kevn <adler.kevin@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>
Subject: FW: USS Lead Tap Water Results

FYI. Should be more today.

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Tuesday, November 08, 2016 11:35 AM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: Water Results

Tim:

Please find attached Pre-excavation water results for Ex. 6 - Personal Privacy These results are preliminary in the sense that I have not received the Level IV data package and have not validated the results. However, these results are complete and have been released by the lab.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312)220-7171 x2223 office

(312) 914-0325 cell

(312)220-7172 fax

www.SRSllc.com

<image001.png>

To: Bair, Rita[bair.rita@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Deltoral, Miguel
Sent: Wed 11/9/2016 10:19:34 AM
Subject: Re: Latest Draft of East Chicago script

Hi Rita,

Just one comment - Instead of referring folks to the hotline, shouldn't we be referring them to IDEM (primacy agency)? If so, we should spend some time with IDEM and EC WTP folks going over the pre/post sampling results to make sure they understand what the results are saying.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Tuesday, November 8, 2016 04:56 PM
To: Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Maraldo, Dean; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: RE: Latest Draft of East Chicago script

As a follow-up to our meeting today, you asked me to confirm the status of the East Chicago script for calling residents with their results. Attached is a revised draft of the East Chicago Script that I double-checked against Miguel's comments and addressed some of the comments you noted. Please let me know what the next steps are and if we can send to OPA and the IDEM drinking water program to review the draft. What we actually tell the residents will depend on when we can contact them and what we know about their results at that time, so this may need additional revisions once we are ready to start making calls.

To: Bair, Rita[bair.rita@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Donnelly, Peggy
Sent: Wed 11/9/2016 3:09:16 AM
Subject: RE: Latest Draft of East Chicago script

I recommend the following two changes to the script:

Ex. 5 - Deliberative Process

Peg Donnelly

U.S. EPA, Region 5

77 W Jackson Blvd

Chicago IL 60604

312.886.6109

donnelly.peggy@epa.gov

From: Bair, Rita
Sent: Tuesday, November 08, 2016 5:57 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: Latest Draft of East Chicago script

As a follow-up to our meeting today, you asked me to confirm the status of the East Chicago script for calling residents with their results. Attached is a revised draft of the East Chicago Script that I double-checked against Miguel's comments and addressed some of the comments you noted. Please let me know what the next steps are and if we can send to OPA and the IDEM drinking water program to review the draft. What we actually tell the residents will depend on when we can contact them and what we know about their results at that time, so this may need additional revisions once we are ready to start making calls.

To: Bair, Rita[bair.rita@epa.gov]
From: Porter, Andrea
Sent: Mon 11/7/2016 5:00:46 PM
Subject: east chicago script/calling status --> can you keep pete cassell in the loop?

Hi Rita,

Pete Cassell called me after seeing the results we have so far for East Chicago. He asked to be kept in the loop both on the East Chicago call script contents, and the schedule for when we start making the calls. He wants to be ready for press inquiries he might get once residents see their lead results. Any status updates we can share with him?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Porter, Andrea
Sent: Monday, November 07, 2016 10:14 AM
To: Cassell, Peter <cassell.peter@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Subject: RE: Can someone send me the updated sampling results for ec

Hi Pete,

A copy of the Master spreadsheet for East Chicago is attached.

I've also included the link to the East Chicago SharePoint site. If you can't access it by clicking the link, you can ask Tom Mendez to add you to the group.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: "Mendez, Thomas" <mendez.thomas@epa.gov>
Date: October 26, 2016 at 1:32:21 PM CDT
To: "Maraldo, Dean" <maraldo.dean@epa.gov>, "Donnelly, Peggy" <donnelly.peggy@epa.gov>
Subject: East Chicago Site

SharePoint Site.

Ex. 6 - Personal Privacy

Upload data/docs to the Documents portion (link on left side)

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

From: Cassell, Peter
Sent: Monday, November 07, 2016 10:09 AM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Subject: Re: Can someone send me the updated sampling results for ec

I don't have access to that. I can wait the hour :)

thanks!

From: Donnelly, Peggy
Sent: Monday, November 7, 2016 10:08 AM
To: Cassell, Peter
Cc: Bair, Rita; Porter, Andrea; Deltoral, Miguel; Mendez, Thomas
Subject: Re: Can someone send me the updated sampling results for ec

Results are on EC Sharepoint site, "master" spreadsheet. If you need access, you can ask Tom Mendez. Or, I can email you the spreadsheet in about an hour when I'm near a computer.

Sent from my iPhone

> On Nov 7, 2016, at 10:33 AM, Cassell, Peter <cassell.peter@epa.gov> wrote:
>
> I've heard that we have more than two homes back. I'd like to take a look at it.
>
> Thanks.
>
> Pete Cassell
> Press Officer
> U.S. EPA Region 5
> 312-886-6234 (office)
> 312-859-9614 (cell)
> cassell.peter@epa.gov
>
> Sent from my mobile device - please pardon typos.

To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Donnelly, Peggy
Sent: Tue 11/1/2016 12:48:41 PM
Subject: Re: Latest Draft of East Chicago script

Ex. 5 - Deliberative Process

On Nov 1, 2016, at 6:55 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

See suggested edits attached.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Monday, October 31, 2016 03:40 PM
To: Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Maraldo, Dean; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Cc: Shoven, Heather
Subject: Latest Draft of East Chicago script

Attached is the latest draft of the East Chicago Script. Please review and provide any comments and let me know when I can send to IDEM drinking water since I promised them a review of the draft.

<EAST CHICAGO LEAD SEQUENTIAL RESULTS SCRIPT clean draftl mdt.docx>

To: Mendez, Thomas[mendez.thomas@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
From: Drexler, Timothy
Sent: Mon 10/31/2016 9:52:59 PM
Subject: RE: East Chicago Lab priority

Thanks, Tom. I've forwarded this to the START contractor and asked for an update after they have contacted the lab.

-Tim

From: Mendez, Thomas
Sent: Monday, October 31, 2016 4:38 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: East Chicago Lab priority

Tim,

As discussed on the phone we would like the following prioritized. Note, these may sound switched from what was discussed on the phone. After the phone call we clarified here internally with Chris, Tom and Tim as to the order of this prioritization.

1. We would like to have final data from the data sets that we currently have preliminary data on. The list is as follows with Site ID and address. If other identifiers are needed let me know.

ID	Address
3224	Ex. 6 - Personal Privacy

3087

3206

3434

3332

3383

Ex. 6 - Personal Privacy

2. We would like to prioritize results from known Lead Service Lines (LSL). The list is as follows with Site ID and address. Again, if other identifiers are needed let me know.

ID	Address
3224	Ex. 6 - Personal Privacy
3066	
3121	
3135	
3075	
3443	
3071	
3016	
3097	

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

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To: Drexler, Timothy[drexler.timothy@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Mendez, Thomas
Sent: Mon 10/31/2016 9:38:20 PM
Subject: East Chicago Lab priority

Tim,

As discussed on the phone we would like the following prioritized. Note, these may sound switched from what was discussed on the phone. After the phone call we clarified here internally with Chris, Tom and Tim as to the order of this prioritization.

1. We would like to have final data from the data sets that we currently have preliminary data on. The list is as follows with Site ID and address. If other identifiers are needed let me know.

ID **Address**

Ex. 6 - Personal Privacy

2. We would like to prioritize results from known Lead Service Lines (LSL). The list is as follows with Site ID and address. Again, if other identifiers are needed let me know.

ID **Address**

Ex. 6 - Personal Privacy

Ex. 6 - Personal Privacy

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

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To: Bair, Rita[bair.rita@epa.gov]
From: Korleski, Christopher
Sent: Mon 10/31/2016 9:37:13 PM
Subject: RE: Latest Draft of East Chicago script

Hi Rita: Is this the same as the hard copies you left for me? Thanks.

From: Bair, Rita
Sent: Monday, October 31, 2016 3:41 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Shoven, Heather <shoven.heather@epa.gov>
Subject: Latest Draft of East Chicago script

Attached is the latest draft of the East Chicago Script. Please review and provide any comments and let me know when I can send to IDEM drinking water since I promised them a review of the draft.

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Donnelly, Peggy
Sent: Mon 10/31/2016 3:28:32 PM
Subject: Re: East Chicago Site

The STAT lab is having problems. Each of these things we see wrong in reports, we need to tell Tim Drexler, so he can talk to his contractor, who can talk to their subcontract lab to get the reports / data fixed. I've already told Tim about one of the reports that needs to be fixed. And, I'm ccing him now, so he can ask that this second report get fixed too.

Val, I would NOT enter this prelim data into our spreadsheet if it has these reporting errors, until the lab explains the discrepancies / issues revised reports.

Sent from my iPhone

On Oct 31, 2016, at 9:25 AM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

Actually, found another one that may be what you were referring to:

"16100799(SRS)Rev0_Preliminary" appears to be pre-excavation samples from site 3383 based on the sample date 10/17 (compared to the Sharepoint file). The COC does not have a postfix on the sample IDs. However, the lab used sample IDs with postfix of "-002" which should be used for post-excavation samples. Based on the Sharepoint 'master' file, I do not think post-excavation samples have been collected yet.

Are you all ok with entering these as pre-excavation data?

From: Bosscher, Valerie
Sent: Monday, October 31, 2016 9:17 AM
To: Donnelly, Peggy <donnelly.peggy@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago Site

I think I found it – The document "16100526(SRS)Rev0_Preliminary" has S2 results for site 3087 (sampled on 10/12), but the wrong COC is attached (Site 3121, sampled 10/11). The report itself should have been generated by the lab's computers, whereas the COC may

have been attached by hand. I entered the preliminary data as site 3087 per the sample IDs and sample date in the report.

There is not a place to say prelim or final, but I did update the date Prelim data was received. Do you want me to add a column for prelim versus final?

From: Bosscher, Valerie
Sent: Monday, October 31, 2016 9:10 AM
To: Donnelly, Peggy <donnelly.peggy@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago Site

Peg – do you know which site/report had issues? Was it only with the sample IDs?

From: Donnelly, Peggy
Sent: Monday, October 31, 2016 8:51 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: Re: East Chicago Site

Note one set of data does not match the COCs that are attached, so I've asked for that data to be fixed and resent by lab. I would not enter that data until we know if the COCs are correct, or if the data is correct. **Ex. 5 - Deliberative Process**

Also, PLEASE DO NOT REORDER THE SPREADSHEET NOR CHANGE ANY COLUMNS! We need it in the order it is currently in. If you want to reorder / sort it for your own use, save a copy to your own computer and then you do that on your own copy. Again, DO NOT REORDER, SORT, OR CHANGE COLUMNS OF THE FILE THAT IS ON SHAREPOINT.

Finally, if you enter this prelim data, be sure to note that it is prelim in spreadsheet and what date we received it. Thanks.

Sent from my iPhone

On Oct 31, 2016, at 8:27 AM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

Folks – Are you okay with me adding the new data to the Sharepoint site? I was taking a look at the pre and post, and thought it would be helpful for Miguel and others who are calling the WTP today.

From: Deltoral, Miguel
Sent: Thursday, October 27, 2016 5:32 AM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Fwd: East Chicago Site

FYI

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

Begin forwarded message:

From: "Mendez, Thomas" <mendez.thomas@epa.gov>
Date: October 26, 2016 at 3:22:36 PM EDT
To: "Deltoral, Miguel" <deltoral.miguel@epa.gov>
Subject: Fwd: East Chicago Site

FYI

Sent from my iPhone

Begin forwarded message:

From: "Mendez, Thomas" <mendez.thomas@epa.gov>
Date: October 26, 2016 at 1:32:21 PM CDT
To: "Maraldo, Dean" <maraldo.dean@epa.gov>, "Donnelly, Peggy" <donnelly.peggy@epa.gov>
Subject: East Chicago Site

SharePoint Site.

Ex. 6 - Personal Privacy

Upload data/docs to the Documents portion (link on left side)

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

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To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bosscher, Valerie
Sent: Mon 10/31/2016 2:56:25 PM
Subject: RE: East Chicago Site

FYI, summary of (preliminary) drinking water data updated on the East Chicago Sharepoint:

Ex. 6 - Personal Privacy

I qualified/noted the data quality issues below as a note in the "Prelim data received" column, and used red text for those 2 sets of results, so that we can revisit the results when reports are revised by the lab.

From: Bosscher, Valerie
Sent: Monday, October 31, 2016 9:25 AM
To: Donnelly, Peggy <donnelly.peggy@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago Site

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To: Donnelly, Peggy <donnelly.peggy@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago Site

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Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago Site

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From: Donnelly, Peggy
Sent: Monday, October 31, 2016 8:51 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: Re: East Chicago Site

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Finally, if you enter this prelim data, be sure to note that it is prelim in spreadsheet and what date we received it. Thanks.

Sent from my iPhone

On Oct 31, 2016, at 8:27 AM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

> Folks – Are you okay with me adding the new data to the Sharepoint site? I was taking a look at the pre and post, and thought it would be helpful for Miguel and others who are calling the WTP today.
>
> **From:** Deltoral, Miguel
> **Sent:** Thursday, October 27, 2016 5:32 AM
> **To:** Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
> **Subject:** Fwd: East Chicago Site
>
> FYI
>
> Miguel A. Del Toral
>
> Regulations Manager, GWDWB
>
> U.S. EPA Region 5 (WG-15J)
>
> 77 West Jackson Blvd
>
> Chicago, IL 60604
>
> W: (312) 886-5253
>
> Begin forwarded message:

From: "Mendez, Thomas" <mendez.thomas@epa.gov>
Date: October 26, 2016 at 3:22:36 PM EDT
To: "Deltoral, Miguel" <deltoral.miguel@epa.gov>
Subject: Fwd: East Chicago Site

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Mendez, Thomas" <mendez.thomas@epa.gov>
> **Date:** October 26, 2016 at 1:32:21 PM CDT
> **To:** "Maraldo, Dean" <maraldo.dean@epa.gov>, "Donnelly, Peggy" <donnelly.peggy@epa.gov>
> **Subject: East Chicago Site**
>
> SharePoint Site.
>
> **Ex. 6 - Personal Privacy**
>
> Upload data/docs to the Documents portion (link on left side)

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

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To: Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
Cc: Hollingsworth, Mary[MHolling@idem.IN.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Prater, Matthew[MPrater@idem.IN.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]
From: JONES, STACY
Sent: Fri 10/28/2016 6:24:51 PM
Subject: RE: East Chicago water sampling data - shared with IDEM

Please label all future correspondence as privileged and confidential.

From: Donnelly, Peggy [mailto:Donnelly.Peggy@epa.gov]
Sent: Wednesday, October 26, 2016 12:10 PM
To: Porter, Andrea
Cc: Hollingsworth, Mary; JONES, STACY; Deltoral, Miguel; Bosscher, Valerie; Prater, Matthew; Drexler, Timothy; Maraldo, Dean; Bair, Rita; Bassler, Rachel
Subject: Re: East Chicago water sampling data - shared with IDEM

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Ex. 5 - Deliberative Process

Sent from my iPhone

On Oct 26, 2016, at 11:52 AM, Donnelly, Peggy <Donnelly.Peggy@epa.gov> wrote:

> All the homes we have sampled are occupied. (One house is not being sampled in Zone 2, because it is not occupied and seems to have a converted garage apt in the back of the lot that is also not occupied.)
>
> Also, all of this data is preliminary. And, the residents and city have **NOT** seen the results yet, **Ex. 5 - Deliberative Process**
>
> Sent from my iPhone
>
> On Oct 26, 2016, at 11:08 AM, Porter, Andrea <porter.andrea@epa.gov> wrote:
>
> > Hi Mary,

To answer some of your questions, please see the attached sampling spreadsheet for East Chicago/USS Lead.

Both sets of data that we have for Zone 3 are included.

All sites from Zone 2 and Zone 3 that have been sampled are at the top, in order of when the S1 samples (pre-excavation) were collected. Towards the bottom are homes that are scheduled, are pending (out of town, attorney issues, etc) or refused sampling (3) / cannot be sampled (apt bldgs.).

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Tuesday, October 25, 2016 7:59 AM
To: JONES, STACY <SJONES@idem.IN.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Prater, Matthew <MPrater@idem.IN.gov>
Subject: RE: East Chicago PO4

Miguel,

I would like to know if the samples you mentioned below were collected from homes that were occupied, I know some of the homes in that area did not have people living in them and in addition if the samples were taken from Tier 1 homes.

Also, is it possible for IDEM to get copies of these sample results?

Thanks

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: JONES, STACY
Sent: Monday, October 24, 2016 9:26 AM
To: Deltoral, Miguel
Cc: Porter, Andrea; Bosscher, Valerie; Prater, Matthew; Hollingsworth, Mary
Subject: RE: East Chicago PO4

See attached emails for August and September MRO's.

From: Deltoral, Miguel [mailto:deltoral.miguel@epa.gov]
Sent: Monday, October 24, 2016 8:50 AM
To: JONES, STACY
Cc: Porter, Andrea; Bosscher, Valerie
Subject: RE: East Chicago PO4

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Sure. If they have OWQPs set, the EP/DS limits would be helpful to know as well.

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: JONES, STACY [mailto:SJONES@idem.IN.gov]
Sent: Monday, October 24, 2016 7:41 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: East Chicago PO4

Those would go to their field inspector. Can I ask East Chicago for them?

From: Deltoral, Miguel [mailto:deltoral.miguel@epa.gov]
Sent: Monday, October 24, 2016 7:41 AM
To: JONES, STACY
Cc: Porter, Andrea; Bosscher, Valerie
Subject: East Chicago PO4

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hi Stacy,

We are starting to get the water sampling results back from East Chicago and the first home had 0.05 mg/L as Total P and the second had ND as Total P. Do you have recent MORs you can send with East Chicago's ortho levels at the EPs and DS?

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

<East Chicago sequential - master.xlsx>

To: Bair, Rita[bair.rita@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Poy, Thomas
Sent: Fri 10/28/2016 3:54:41 PM
Subject: RE: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Additional edits.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Poy, Thomas
Sent: Friday, October 28, 2016 10:36 AM
To: Bair, Rita <bair.rita@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Miguel Deltoral - EPA <Deltoral.Miguel@epa.gov>
Subject: RE: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Jeff/Rachel: Please see the edits to the desk statement below.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Bair, Rita
Sent: Thursday, October 27, 2016 4:12 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

We'll get back to you tomorrow when Tom is back.

From: Kelley, Jeff
Sent: Wednesday, October 26, 2016 5:02 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: FW: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Tom and Rita, we need some input from your folks before we share this draft statement with HQ. In particular, could you look at the advice we're offering residents who may have concern.

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bassler, Rachel
Sent: Wednesday, October 26, 2016 11:25 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Hi Tom,

Below is a draft desk statement for our water sampling pilot in East Chicago. Tom Mendez and Dean Maraldo briefly reviewed. Can you review and let us know if you have any edits/changes?

Draft Desk Statement for EPA Pilot Water Sampling in Zones 2 and 3 of the USS Lead superfund Site

Ex. 5 - Deliberative Process

Thanks,
Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Deltoral, Miguel
Sent: Fri 10/28/2016 1:06:58 PM
Subject: Re: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Friday, October 28, 2016 7:53:47 AM
To: Bair, Rita; Porter, Andrea; Deltoral, Miguel
Cc: Poy, Thomas; Shoven, Heather
Subject: RE: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Two quick thoughts/questions:

Ex. 5 - Deliberative Process

From: Bair, Rita
Sent: Thursday, October 27, 2016 4:29 PM
To: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Subject: RE: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

This was shared with Tom and I for input and I'd like to know if you have any input on this. We

can discuss further during our meeting Friday morning. Thanks!

From: Kelley, Jeff
Sent: Wednesday, October 26, 2016 5:02 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: FW: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Tom and Rita, we need some input from your folks before we share this draft statement with HQ. In particular, could you look at the advice we're offering residents who may have concern.

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bassler, Rachel
Sent: Wednesday, October 26, 2016 11:25 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Hi Tom,

Below is a draft desk statement for our water sampling pilot in East Chicago. Tom Mendez and Dean Maraldo briefly reviewed. Can you review and let us know if you have any edits/changes?

Draft Desk Statement for EPA Pilot Water Sampling in Zones 2 and 3 of the USS Lead superfund Site

Ex. 5 - Deliberative Process

Thanks,
Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

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Cc: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Deltoral, Miguel
Sent: Thur 10/27/2016 10:09:21 PM
Subject: Re: Draft Desk Statement for Water Sampling Pilot in East Chicago - for your review

Ex. 5 - Deliberative Process

Miguel A. Del Toral
Regulations Manager, GWDWB
U.S. EPA Region 5 (WG-15J)
77 West Jackson Blvd
Chicago, IL 60604
W: (312) 886-5253

On Oct 27, 2016, at 5:59 PM, Poy, Thomas <poy.thomas@epa.gov> wrote:

Ex. 5 - Deliberative Process

Tom Poy
Chief, Ground and Drinking Water Branch
USEPA - Region 5
(312) 886-5991

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Draft Desk Statement for EPA Pilot Water Sampling in Zones 2 and 3 of the USS Lead superfund Site

Ex. 5 - Deliberative Process

EPA has received preliminary data (unvalidated data) for two homes (*as of now) that have levels above the action level for lead in water. EPA has reached out to the Indiana

Ex. 5 - Deliberative Process

Thanks,
Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

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From: Maraldo, Dean
Sent: Thur 10/27/2016 8:41:41 PM
Subject: Re: USS Lead: Sequential Sample results

Fyi, note that Superfund's USS Lead website includes the following recommendations regarding lead in drinking water....

Ex. 6 - Personal Privacy

Sent from my iPhone

On Oct 27, 2016, at 10:27 AM, Bair, Rita <bair.rita@epa.gov> wrote:

We need a planning meeting. I will set one up for tomorrow. Dean and I will also talk briefing this morning, but the East Chicago sampling effort is not a cookie cutter of Flint - different sampling approach and objectives. We have lots of questions. To name a few: Do

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Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager, GWDWB

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On Oct 27, 2016, at 9:49 AM, Bair, Rita <bair.rita@epa.gov> wrote:

Just talked to Tim, we discussed the approach of GWDWB sending letters to residents with final data. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

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Subject: Re: Action Needed: USS Lead: Sequential Sample results

[FLINT]

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Tim and Chris, Can you advise on whether Water Division is taking the lead to provide notification to East Chicago residents by phone calls and/or letters? The email from Chris below appears to only make the commitment of WD for helping with sampling in Phase 2. Ex. 5 - Deliberative Process

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Tom/Rita/Tim/Heather: Given the delays with Superfund's lab I would recommend WD call residents with preliminary data as soon as possible. I know the plan was to wait until final data was in hand but that could take a long time as Superfund's lab is experiencing delays with turning even preliminary results around. Have no idea how long it will take to get final data. Not sure who you have lined up to make calls in GWDWB but it would be good to get the process started asap. We only have preliminary results from two homes so far. I heard that a bunch more might come in Friday. We will keep you posted.

Thanks,

Dean

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Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Korleski, Christopher
Sent: Monday, October 24, 2016 4:31 PM
To: Ballotti, Doug <ballotti.douglas@epa.gov>
Cc: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Request for Water Team Support in East Chicago

Hey Doug:

We would like to support Superfund on this effort. I'm assuming we would be observing SFD's contractor to ensure sound sampling and analytical practices, as we are currently doing. Is that accurate? Thanks.

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zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
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Chris,

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If you have any questions, please let me know.

Thanks. Doug

Douglas Ballotti

Acting Director, Superfund Division

U.S. EPA, Chicago, IL

312-886-4752

To: Bair, Rita[bair.rita@epa.gov]
Cc: Shoven, Heather[shoven.heather@epa.gov]
From: Maraldo, Dean
Sent: Thur 10/27/2016 7:59:43 PM
Subject: Re: USS Lead: Sequential Sample results

Ok

Sent from my iPhone

On Oct 27, 2016, at 2:55 PM, Bair, Rita <bair.rita@epa.gov> wrote:

I just talked to Heather, please replace her name with mine. I wouldn't think that Tim or Tom would need to get results.

From: Maraldo, Dean
Sent: Thursday, October 27, 2016 2:49 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: Re: USS Lead: Sequential Sample results

I planned on including me, Peg, Tom Mendez, Andrea, Val, Heather and Miguel on results distribution list for Superfund. Tim, Tom P, Rita please let me know if you want to be included. Thanks.

Sent from my iPhone

On Oct 27, 2016, at 10:27 AM, Bair, Rita <bair.rita@epa.gov> wrote:

We need a planning meeting. I will set one up for tomorrow. Dean and I will also talk briefing this morning, but the East Chicago sampling effort is not a cookie cutter of Flint -different sampling approach and objectives. We have lots of questions. To name

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Miguel A. Del Toral

Regulations Manager, GWDWB

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77 West Jackson Blvd

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W: (312) 886-5253

On Oct 27, 2016, at 9:49 AM, Bair, Rita <bair.rita@epa.gov> wrote:

> Just talked to Tim, we discussed the approach of GWDWB sending letters to residents with final data. At this time, we would not call residents. Tim will be talking to Doug this morning. He mentioned putting the responsibility back on Superfund about the delay of getting final data. If residents are calling looking for results, Superfund should respond with when the data will be available. Tim asked that I run this past you all. This all may change again after Tim talks to Doug. Let me know your thoughts.

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[FLINT]

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> Tim and Chris, Can you advise on whether Water Division is taking the lead to provide notification to East Chicago residents by phone calls and/or letters? The email from Chris below appears to only make the commitment of WD for helping with sampling in Phase 2. Dean's message recommends that WD call residents with preliminary results ASAP. Heather and I thought that Superfund had the lead and that Miguel had coordinated with Tim Drexler on this.

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Ex. 5 - Deliberative Process

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I need to jump on another call then tied up until 11. How about then?

Sent from my iPhone

On Oct 27, 2016, at 8:59 AM, Bair, Rita <bair.rita@epa.gov> wrote:

Running to Flint call. Should we discuss on call or right after?

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From: Deltoral, Miguel
Sent: Thursday, October 27, 2016 2:41 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Re: Action Needed: USS Lead: Sequential Sample results

[FLINT]

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Oct 26, 2016, at 4:22 PM, Bair, Rita <bair.rita@epa.gov> wrote:

Tim and Chris, Can you advise on whether Water Division is taking the lead to provide notification to East Chicago residents by phone calls and/or letters? The email from Chris below appears to only make the commitment of WD for helping with sampling in Phase 2. Dean's message recommends that WD call residents with preliminary results ASAP. Heather and I thought that Superfund had the lead and that Miguel had coordinated with Tim Drexler on this.

From: Maraldo, Dean
Sent: Wednesday, October 26, 2016 12:22 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
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Tom/Rita/Tim/Heather: Given the delays with Superfund's lab I would recommend WD call residents with preliminary data as soon as possible. I know the plan was to wait until final data was in hand but that could take a long time as Superfund's lab is experiencing delays with turning even

preliminary results around. Have no idea how long it will take to get final data. Not sure who you have lined up to make calls in GWDWB but it would be good to get the process started asap. We only have preliminary results from two homes so far. I heard that a bunch more might come in Friday. We will keep you posted.

Thanks,

Dean

==========

Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Korleski, Christopher
Sent: Monday, October 24, 2016 4:31 PM
To: Ballotti, Doug <ballotti.douglas@epa.gov>
Cc: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Request for Water Team Support in East Chicago

Hey Doug:

We would like to support Superfund on this effort. I'm assuming we would be observing SFD's contractor to ensure sound sampling and analytical practices, as we are currently doing. Is that accurate? Thanks.

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Chris,

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If you have any questions, please let me know.

Thanks. Doug

Douglas Ballotti

Acting Director, Superfund Division

U.S. EPA, Chicago, IL

312-886-4752

To: Henry, Timothy[henry.timothy@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Donnelly, Peggy[Donnelly.Peggy@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]
From: Maraldo, Dean
Sent: Thur 10/27/2016 1:39:19 PM
Subject: Re: Action Needed: USS Lead: Sequential Sample results

Ex. 5 - Deliberative Process

We created a USS Lead Sharepoint site and uploaded a master spreadsheet, which we can populate with data as it comes in. We'll send link for access. Superfund is working on Scribe database for USS Lead, but not ready yet.

I'm not sure if there is a script yet for calls but I'm sure that would not take much time. Miguel may already have it worked out.

Ex. 5 - Deliberative Process

Thanks,
Dean

Sent from my iPhone

On Oct 27, 2016, at 7:41 AM, Henry, Timothy <henry.timothy@epa.gov> wrote:

> Water did commit to contacting residents with the results and explanation. How and when may still be under consideration. Please work with Dean, Peg and Miguel to develop aa plan ASAP
>
> Tim Henry
> Deputy Director, Water Division
> US EPA Region V
> 312-886-6107 (office)
> 312-296-0690 (cell)
>
> Sent from my iPhone
>
> On Oct 26, 2016, at 15:22, Bair, Rita <bair.rita@epa.gov> wrote:

Tim and Chris, Can you advise on whether Water Division is taking the lead to provide notification to East Chicago residents by phone calls and/or letters? The email from Chris below appears to only make the commitment of WD for helping with sampling in Phase 2. Dean's message recommends that WD call residents with preliminary results ASAP. Heather and I thought that Superfund had the lead and that Miguel had coordinated with Tim Drexler on this.

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If you have any questions, please let me know.

Thanks. Doug

Douglas Ballotti

Acting Director, Superfund Division

U.S. EPA, Chicago, IL

312-886-4752

To: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Fri 10/14/2016 12:53:51 PM
Subject: Fw: Sequential Sampling in East Chicago

FYI - WD scheduling for EC support (Dean, Peg, Tom & myself).

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Deltoral, Miguel
Sent: Friday, October 14, 2016 07:41 AM
To: Donnelly, Peggy; R5EOC
Cc: Maraldo, Dean; El-Zein, Jason; Mitchell, James; Drexler, Timothy; Mendez, Thomas
Subject: Re: Sequential Sampling in East Chicago

I will be in EC this Sat with Peg and anytime next week that folks need me there, just let me know.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Donnelly, Peggy
Sent: Thursday, October 13, 2016 5:58:51 PM
To: R5EOC
Cc: Maraldo, Dean; El-Zein, Jason; Mitchell, James; Drexler, Timothy; Deltoral, Miguel; Mendez, Thomas
Subject: Re: Sequential Sampling in East Chicago

I will be here tomorrow and Sat.

Next week:
Tom will be here Mon & Tues.

Either Tom or I will be here Wed.

I will be here Thurs & Fri.

So, we are all covered thru next week.

Sent from my iPhone

On Oct 13, 2016, at 5:25 PM, R5EOC <R5EOC@epa.gov> wrote:

Dean - The folks you're taking out for training can just sign-in at the site; they aren't billable to/part of the response so we don't need to include them in our cost estimates or track them as field assets. Please ensure they're H&S trained, sign the health and safety plan, and sign-in/out every day.

Peggy, Tom, and Miguel - Provide the dates you're going to be on site.

-Sam

From: Maraldo, Dean
Sent: Thursday, October 13, 2016 4:48 PM
To: R5EOC
Cc: El-Zein, Jason; Mitchell, James; Harrison, Thomas; Drexler, Timothy; Deltoral, Miguel
Subject: Re: Sequential Sampling

Peg Donnelly, Tom Mendez, and Miguel Deltoral will provide support next week. I'm on enforcement-related travel next week but may go out to East Chicago if trip ends early.

We are considering bringing other Water Team members to help cover East Chicago as we are planning for significant sampling workload in Flint in November. We'll let you know when we have names. We will find a way to meet needs of both important efforts.

Sent from my iPhone

On Oct 13, 2016, at 2:41 PM, R5EOC <R5EOC@epa.gov> wrote:

Tim Drexler also agreed to another week of Water Team support. Please provide the schedule for water team staff going out to USS Lead to the EOC.

Sam Chummar

Phone: 312-886-1434

Email: chummar.sam@epa.gov

From: El-Zein, Jason
Sent: Thursday, October 13, 2016 2:24 PM
To: Maraldo, Dean <Maraldo.Dean@epa.gov>; Chummar, Sam <chummar.sam@epa.gov>; Mitchell, James <mitchell.james@epa.gov>; Harrison, Thomas <harrison.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: RE: Sequential Sampling

Dean, it makes sense and thanks for offering to continue to provide assistance to the water sampling teams.

From: Maraldo, Dean
Sent: Thursday, October 13, 2016 1:22 PM
To: Chummar, Sam; Mitchell, James; Harrison, Thomas; Drexler, Timothy; El-Zein, Jason
Cc: Deltoral, Miguel
Subject: RE: Sequential Sampling

Sam: With our training they have improved in terms of ability to collect sequential samples. However, there are some things they struggle with that may take time to develop, such as identification of service line material, and troubleshooting home plumbing to determine appropriate sampling locations. Also, we have yet to see data from the lab so we'll want to make sure there are no issues with sample management and preservation. We recommend **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Thanks,

Dean

==========

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Subject: RE: Sequential Sampling

It sounds like the concerns were been addressed, and there isn't any need for further discussions.

Sam Chummar

Phone: 312-886-1434

Email: chummar.sam@epa.gov

From: Maraldo, Dean
Sent: Thursday, October 13, 2016 10:42 AM
To: Chummar, Sam <chummar.sam@epa.gov>; Mitchell, James <mitchell.james@epa.gov>; Harrison, Thomas <harrison.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>

Subject: RE: Sequential Sampling

Let me know if you guys want to discuss. I'm in the Chicago office today.

Thanks,

Dean

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e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Raghu Nagam [mailto:rnagam@srsllc.com]
Sent: Tuesday, October 11, 2016 6:07 PM
To: Chummar, Sam <chummar.sam@epa.gov>
Cc: Mitchell, James <mitchell.james@epa.gov>; Harrison, Thomas <harrison.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Subject: RE: Sequential Sampling

Good Evening Sam, Jim, Thomas

After hearing from you on some of the water sampling issues, I have visited EPA's field office and met with Jim, Tim, and Dean and noted all issues and concerns. At this meeting, I have indicated that I will personally work on resolving these issues and provide good training to the staff. The attached file contains EPA's noted issues and our solutions for them. We have purchased new Chlorine meter/calibration solutions and pH meter and calibration solutions. We have backup pH rental equipment coming

in in a day or two. With all these measures, we won't have any equipment related issues.

For the past 4 days, I and Rich Baldino, our PM, have guided and trained our staff and helped them get up to the speed on following EPA Sequential sampling protocols. Dean and Peggy from EPA's water division have helped our team a lot in getting this accomplished.

Please let me know if our initiatives and solutions are satisfactory or need any additional measures to meet and exceed your expectations.

If you have any questions, please let me know.

Thanks

Raghu Nagam

Senior Program Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe, Suite, 1119, Chicago, IL 60603

(312)220-7171 office

Direct No: 312-220-7005

(312) 217-7003 cell

(312)220-7172 fax

www.SRSllc.com

<image001.png>

From: Chummar, Sam [mailto:chummar.sam@epa.gov]
Sent: Thursday, October 06, 2016 3:42 PM
To: Raghu Nagam <rnagam@srsllc.com>
Cc: Mitchell, James <mitchell.james@epa.gov>; Harrison, Thomas <harrison.thomas@epa.gov>
Subject: FW: Sequential Sampling

Raghu,

We're calling about this shortly

Sam Chummar

Phone: 312-886-1434

Email: chummar.sam@epa.gov

From: Mitchell, James
Sent: Thursday, October 06, 2016 3:31 PM
To: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Chummar, Sam <chummar.sam@epa.gov>
Subject: Fwd: Sequential Sampling

See email below we need to discuss next actions.

Jim Mitchell - Sent from my iPhone

Begin forwarded message:

From: "Maraldo, Dean" <Maraldo.Dean@epa.gov>
Date: October 6, 2016 at 3:22:17 PM CDT
To: "Mitchell, James" <mitchell.james@epa.gov>
Cc: "Drexler, Timothy" <drexler.timothy@epa.gov>, "Hassan, Jacob" <hassan.jacob@epa.gov>, "Donnelly, Peggy" <Donnelly.Peggy@epa.gov>, "Mendez, Thomas" <mendez.thomas@epa.gov>, "Deltoral, Miguel"

<deltoral.miguel@epa.gov>
Subject: Sequential Sampling

Jim: last week you asked to be kept up to speed on the sequential sampling effort and the ability of the contractor to carry out the program.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process At least one of our Water Team members (Tom Mendez, Peg Donnelly, and myself) have observed each of the sequential sampling events so far and we continue to observe issues. Issues include erratic pH meters, lack of calibration of meters and chlorine test kits, lack of daily calibration logs, use of incorrect filters, and wrong bottle sizes to name a few. These are pretty basic things in terms of sampling. As a result of these issues **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

At this point we recommend **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

Feel free to give me a call to discuss further. I'll be on site tomorrow as well.

Thanks,
Dean

==========

Dean Maraldo
Water Enforcement & Compliance Assurance Branch
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From: Deltoral, Miguel
Sent: Fri 10/14/2016 12:51:09 PM
Subject: Fw: Sequential Sampling

FYI - On EC.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
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Phone: (312) 886-5253

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Senior Program Manager

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Email: chummar.sam@epa.gov

From: Mitchell, James
Sent: Thursday, October 06, 2016 3:31 PM
To: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Chummar, Sam <chummar.sam@epa.gov>
Subject: Fwd: Sequential Sampling

See email below we need to discuss next actions.

Jim Mitchell - Sent from my iPhone

Begin forwarded message:

From: "Maraldo, Dean" <Maraldo.Dean@epa.gov>
Date: October 6, 2016 at 3:22:17 PM CDT
To: "Mitchell, James" <mitchell.james@epa.gov>
Cc: "Drexler, Timothy" <drexler.timothy@epa.gov>, "Hassan, Jacob" <hassan.jacob@epa.gov>, "Donnelly, Peggy" <Donnelly.Peggy@epa.gov>, "Mendez, Thomas" <mendez.thomas@epa.gov>, "Deltoral, Miguel" <deltoral.miguel@epa.gov>
Subject: Sequential Sampling

Jim: last week you asked to be kept up to speed on the sequential sampling effort and the ability of the contractor to carry out the program. Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process At least one of our Water Team members (Tom Mendez, Peg Donnelly, and myself) have observed each of the sequential sampling events so far and we continue to observe issues. Issues include erratic pH meters, lack of calibration of meters and chlorine test kits, lack of daily calibration logs, use of incorrect filters, and wrong bottle sizes to name a few. These are pretty basic things in terms of sampling. As a result of these issues Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process

At this point we recommend Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Feel free to give me a call to discuss further. I'll be on site tomorrow as well.

Thanks,
Dean

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)

Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

Fourth Unregulated Contaminant Monitoring Rule	At this time, IDEM can only support inventory verification for UCMR.
Follow-up on all TC MCL and M/R violations and determine a proper course of action to ensure public health protection.	The follow-up to determine the adequacy of the system's action will depend on the type of system, the population served, and the availability of resources at IDEM.
Plan for the transition from TCR to the Revised Total Coliform Rule (RTCR) to ensure that adequate resources are dedicated such that the State can begin implementing RTCR by April 1, 2016.	We believe implementing RTCR at NCWSs will be a serious challenge for us.
Follow-up on, and return to GWR compliance: (a) corrective action consultation and reporting violations, (b) TT violations, (c) M/R violations, (d) public notification violations, and (e) Other discovered recordkeeping/reportin g violations.	Follow up on systems that failed to issue a PN will be prioritized based on available resources.
Follow-up on all nitrate / nitrite MCL and M/R violations and determine a proper course of action to ensure public health protection.	The follow-up to determine the adequacy of the system's action will depend on the type of system, the population served and the availability of resources at IDEM.
Follow-up on all Tier 2 and Tier 3 PN violations.	When a system fails to issue a PN under a Tier 2 or Tier 3 violation, it is reported as a violation in SDWIS. CWSs can report violations as part of their CCR. No additional follow-up will typically be made due to IDEM resource limitations.

To: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Deltoral, Miguel
Sent: Tue 9/27/2016 10:37:11 PM
Subject: Fwd: USS Lead Water Sampling SAP

Just FYI

Miguel A. Del Toral
Regulations Manager, GWDWB
U.S. EPA Region 5 (WG-15J)
77 West Jackson Blvd
Chicago, IL 60604
W: (312) 886-5253

Begin forwarded message:

From: "Deltoral, Miguel" <deltoral.miguel@epa.gov>
Date: September 27, 2016 at 5:22:18 PM CDT
To: "Donnelly, Peggy" <Donnelly.Peggy@epa.gov>
Cc: "Bosscher, Valerie" <bosscher.valerie@epa.gov>, "Drexler, Timothy" <drexler.timothy@epa.gov>, "Maraldo, Dean" <Maraldo.Dean@epa.gov>, "Mendez, Thomas" <mendez.thomas@epa.gov>, "Porter, Andrea" <porter.andrea@epa.gov>
Subject: Re: USS Lead Water Sampling SAP

Tim,

Appendix A looks fine. The sample filtering needs to be added (section A 5.0) as Dean mentioned. Also, unless it's specified in the QAPP, the filter and syringe specs should also be added.

Miguel A. Del Toral
Regulations Manager, GWDWB
U.S. EPA Region 5 (WG-15J)
77 West Jackson Blvd
Chicago, IL 60604
W: (312) 886-5253

On Sep 27, 2016, at 5:02 PM, Donnelly, Peggy <Donnelly.Peggy@epa.gov> wrote:

Ex. 5 - Deliberative Process

Sent from my iPhone

On Sep 27, 2016, at 4:45 PM, Bosscher, Valerie <bosscher.valerie@epa.gov> wrote:

Tim (and all) –

Here are a few thoughts for consideration:

- Introduction – Take a look at the first sentence (you are missing something in the START acronym).

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Drexler, Timothy
Sent: Tuesday, September 27, 2016 2:53 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>
Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: USS Lead Water Sampling SAP

Thanks, Miquel.

From: Deltoral, Miguel
Sent: Tuesday, September 27, 2016 1:52 PM
To: Maraldo, Dean <Maraldo.Dean@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: USS Lead Water Sampling SAP

I'm going over Appendix A now. Will see if Val or Andrea can review Appendix B (QAPP).

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Maraldo, Dean
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Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: Fwd: USS Lead Water Sampling SAP

Tim: I'm traveling now and jumping on a plane so can't review. Cc'ing Water colleagues in case they have time. I can go over it tomorrow and we can make changes as necessary. Will need to add filtering protocol once that's set. Thanks.

Sent from my iPhone

Begin forwarded message:

From: "Drexler, Timothy" <drexler.timothy@epa.gov>
Date: September 27, 2016 at 2:01:04 PM EDT
To: "Maraldo, Dean" <Maraldo.Dean@epa.gov>
Subject: FW: USS Lead Water Sampling SAP

Hi Dean: Could you look this over for tomorrow? Does anyone else with WD need to see it and reply today?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Tuesday, September 27, 2016 12:56 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>
Subject: USS Lead Water Sampling SAP

Tim/Tom:

Please find attached the FSP and QAPP for water sampling at USS Lead. I will try to get the soil sampling SAP done today as well.

Richard Baldino, M.S.

Project Manager

Sustainment and Restoration Services, LLC

79 West Monroe, Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

rbaldino@srsllc.com

www.SRSllc.com

East Chicago Lead in Soil Remediation/Potential Effects on Lead in Drinking Water

Background

Recent studies have found that direct physical disturbances to lead service lines have resulted in increased lead levels in drinking water for varying lengths of time [include PLSLR cites & provide copies of studies if needed]. In addition, recent information also indicates that in the immediate aftermath of direct and indirect physical disturbances, scale and sediment containing very high lead content can be dislodged from inside lead service lines and associated galvanized iron pipe and released directly into the water, creating a hazardous condition. While there is insufficient information available to determine the relative amounts of lead release associated with specific disturbance activities or the types of physical disturbances that can result in very high lead release, it is reasonable to assume that the amount of lead release may depend on the severity of the disturbances to lead service lines and associated galvanized iron pipe. Approximately 90 percent of the homes in East Chicago have lead service lines and in anticipation of the planned soil remediation at the USS site, it is highly recommended that the potential effects of the excavation on lead in drinking water levels be carefully monitored to prevent increased lead in water exposure at the affected residences.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process Below is a general overview of sequential sampling, based on sampling currently being conducted by U.S. EPA in Flint. This process below has been customized for use in East Chicago to account for differences between East Chicago and Flint.

DRAFT

Overall Process

1) Select a representative subset of affected homes for water sampling.
2) Estimate the volume of water in the pipes from the kitchen tap to the water main based on plumbing materials/diameters and distance to water mains.
3) Determine number of samples required based on total volume (variable, depending on internal plumbing, plumbing materials & distance to water main)
4) Collect a sequential sample set (see below) at each home before any heavy equipment is moved into the areas to be sampled that could cause physical disturbances to lead service lines. Collect field-filtered aliquots (0.22 micron filters) from a subset of the sequential samples to determine the relative amounts of dissolved and particulate lead in the water samples.
5) Move in heavy equipment & remediate soil.
6) Following soil remediation, collect/analyze any scale and sediment that is released from the pipes.
7) Conduct a second set of sequential sampling.
8) Homes that are designated for sampling should be provided bottled water for human consumption for the period of time that spans the collection of the first and second sequential sampling sets.
9) All homes on the block where potential disturbances can occur should be provided water

filters that are certified to remove particulate and dissolved lead prior to moving heavy equipment into the area (see water filter example below).

A set of sequential samples consists of the following:

- Two 125mL samples, followed by a variable number of 1,000mL samples to be analyzed for metals (all preserved in field with nitric acid)*.
- A subset of the initial 1,000mL samples are field-filtered to measure dissolved and particulate lead
- Three distribution system samples (collected after allowing water to run for 5 minutes after first series of samples are collected) for Total P, anions and metals*
- pH, chlorine, and temperature are measured following the collection of the three distribution system samples

*See Flint QAPP for specific list of analytes

Water Filter Cost Estimate

Water filters provided to residents should be NSF-certified to remove both dissolved and particulate lead. The example below is from water filters currently provided by the State to residents of Flint.

Water Filter Information

Ex. 5 - Deliberative Process

Sample Cost Information

[Need information on whether EPA Contractor will collect samples or whether EPA staff will collect samples]
[Need cost information for filtered/unfiltered samples]

Non-responsive image redactedd

Drinking Water Safety

Information for East Chicago residents

The residents of East Chicago receive their drinking water from Lake Michigan. The city uses a new water treatment plant built in 2009-2011 in conjunction with its older conventional treatment plant. Lead from the soil does not enter the drinking water system, but EPA is providing general recommendations to avoid potential exposure to lead in drinking water.

Like most older Midwestern cities, many East Chicago homes have lead service lines (the pipes connecting homes to the water mains). East Chicago water is treated to keep lead from leaded pipes from getting into the water. Because of this treatment, the city meets federal water quality standards for lead.

Residents concerned about lead in drinking water can contact the city water department to ask to have their water tested.

There are also several other steps that residents can take to reduce their exposure to lead in drinking water. These include:

- Run water before use if it has not been used for several hours.
- Use only cold water for drinking, cooking, and preparing baby formula.
- Purchase a water filter that is certified to remove "total lead."
- On a regular basis, clean and remove any debris from faucet aerators to clear out any particles of lead that may become trapped in the aerator.
- Be aware of any work that could disturb your lead service line, such as water main replacement, lead service line repair or replacement of part of the service line.
- Purchase lead-free faucets and plumbing components.

For more information, residents can call EPA's hotline: 219-801-2199

More information is also available on EPA's website:
https://www.epa.gov/ground-water-and-drinking-water

Non-responsive image redactedd

Drinking Water Safety
Information for East Chicago residents

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More information is also available on EPA's website:
https://www.epa.gov/ground-water-and-drinking-water

To: Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Shoven, Heather
Sent: Thur 8/18/2016 5:55:47 PM
Subject: RE: DRAFT flyer for East Chicago drinking water --> old emails on plant(s); did we confirm cct chemical(s)?

Hi Andrea,

I don't have any additional information. The Drinking Water Watch entry doesn't seem to have any helpful information either on treatment ☹

https://myweb.in.gov/IDEM/DWW/JSP/WaterSystemDetail.jsp?tinwsys_is_number=408294&tinwsys_st_code=

Best wishes,

Heather

Heather A. Shoven, Acting Chief

Section 1, Ground Water and Drinking Water Branch

U.S. Environmental Protection Agency, Region 5

(312) 886-0153

From: Porter, Andrea
Sent: Thursday, August 18, 2016 12:38 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Shoven, Heather <shoven.heather@epa.gov>
Subject: FW: DRAFT flyer for East Chicago drinking water --> old emails on plant(s); did we confirm cct chemical(s)?

Hi Rita and Heather,

As input on the DRAFT flyer for East Chicago, I see two potential issues:

•□□□□□□□ Per Mary Hollingsworth (see #1 below), it seems like East Chicago continues to use

Ex. 5 - Deliberative Process

•□□□□□□□ Did someone (Miguel left voicemail, but I haven't heard update) confirm with IDEM staff (i.e. Stacy Jones?) what East Chicago adds for CCT? Per Mike Schock (see #2 below), we need to make sure East Chicago is not only adding a polyphosphate, but also some kind of orthophosphate, for CCT.

Hope that helps,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

1) EMAIL CHAIN ON OLD PLANT STILL BEING USED:

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]

Sent: Tuesday, August 16, 2016 1:46 PM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Hyde, Tinka <hyde.tinka@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Spaulding, William <spaulding.william@epa.gov>; MELVIN, LIZ <LMELVIN@idem.IN.gov>; Guinn, Jeffery <JGuinn@idem.IN.gov>
Subject: RE: Draft Talking Points - East Chicago

This reads ok. The only item is East Chicago is not totally membrane filtration they still have tradition treatment at their old plant.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Poy, Thomas [mailto:poy.thomas@epa.gov]
Sent: Tuesday, August 16, 2016 2:37 PM
To: Hollingsworth, Mary
Cc: Hyde, Tinka; Bair, Rita; Shoven, Heather; Porter, Andrea; Deltoral, Miguel; Spaulding, William
Subject: Draft Talking Points - East Chicago

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary: I've drafted the attached talking points regarding East Chicago's drinking water and lead. Can you please take a look at it and let me know if you have any concerns. As I mentioned in the voicemail that I left for you, the talking points will be provided to our Superfund staff for a public meeting tonight.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

2) EMAIL CHAIN ON QUESTIONS ABOUT CCT ADDED:

From: Schock, Michael
Sent: Wednesday, August 17, 2016 7:20 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Hayes, Sam <Hayes.Sam@epa.gov>; Lytle, Darren <Lytle.Darren@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Subject: RE: URGENT-Fwd: Draft Talking Points - East Chicago

Ex. 5 - Deliberative Process You buy bags of this stuff, called sodium hex and dissolve it into day tanks, or buy it in liquid form and dose. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Wednesday, August 17, 2016 7:38 AM
To: Schock, Michael <Schock.Michael@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Hayes, Sam <Hayes.Sam@epa.gov>; Lytle, Darren <Lytle.Darren@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Subject: Re: URGENT-Fwd: Draft Talking Points - East Chicago

I wrote my Q in a rush. I know its a poly, what I really meant to ask is whether this can be used in a blended phosphate product. Lots of times they mischaracterize what is being used and I just wanted to check if this can be used in a blend since I don't have a chemistry background.

[FLINT]

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Schock, Michael
Sent: Wednesday, August 17, 2016 6:35:03 AM
To: Porter, Andrea; Deltoral, Miguel
Cc: Hayes, Sam; Lytle, Darren; Speth, Thomas
Subject: RE: URGENT-Fwd: Draft Talking Points - East Chicago

Sodium hex is a polyphosphate with mixed chain lengths. It's used primarily as a sequestering agent and antiscalant. Lime softening systems often use it to avoid CaCO3 fouling of media.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process It does not form lead phosphate minerals in the Ex. 5 - Deliberative Process scale. It can revert to some small percentage, Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process But it's not a good CCT chemical for lead and guarantees copper won't age.

From: Porter, Andrea

Sent: Tuesday, August 16, 2016 4:12 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Schock, Michael <Schock.Michael@epa.gov>
Subject: RE: URGENT-Fwd: Draft Talking Points - East Chicago

Link →
http://www.awwa.org/portals/0/files/legreg/documents/2005leadcoppermanagingchange.pdf

Polyphosphates and sodium hexametaphosphate are sequestering agents and may be effective for the control of iron and manganese, but are not recommended for the control of lead and copper (Schock, 1999; Edwards et al., 2002).

From: Deltoral, Miguel
Sent: Tuesday, August 16, 2016 2:35 PM
To: Schock, Michael <Schock.Michael@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: URGENT-Fwd: Draft Talking Points - East Chicago

Mike - see below. I think **Ex. 5 - Deliberative Process**

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

Begin forwarded message:

From: "Hollingsworth, Mary" <MHolling@idem.IN.gov>
Date: August 16, 2016 at 2:17:57 PM CDT
To: "Deltoral, Miguel" <deltoral.miguel@epa.gov>, "Poy, Thomas" <poy.thomas@epa.gov>
Cc: "Hyde, Tinka" <hyde.tinka@epa.gov>, "Bair, Rita" <bair.rita@epa.gov>, "Shoven, Heather" <shoven.heather@epa.gov>, "Porter, Andrea" <porter.andrea@epa.gov>, "Spaulding, William" <spaulding.william@epa.gov>
Subject: RE: Draft Talking Points - East Chicago

I just spoke with East Chicago and they use Sodium Hexametaphosphate.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Deltoral, Miguel [mailto:deltoral.miguel@epa.gov]
Sent: Tuesday, August 16, 2016 2:57 PM
To: Poy, Thomas
Cc: Hollingsworth, Mary; Hyde, Tinka; Bair, Rita; Shoven, Heather; Porter, Andrea; Spaulding, William
Subject: Re: Draft Talking Points - East Chicago

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary - can you confirm what they are using for corrosion control? I hope that they are not using only polyphosphates as this is not corrosion control. Polyphosphates only sequester dissolved iron/manganese, they do not control lead release and in high amounts they can actually increase lead release. The ortho/poly terminology is always confused so I'm assuming and hoping it is

actually orthophosphate or blended (ortho + poly) phosphates.

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Aug 16, 2016, at 1:37 PM, Poy, Thomas <poy.thomas@epa.gov> wrote:

Mary: I've drafted the attached talking points regarding East Chicago's drinking water and lead. Can you please take a look at it and let me know if you have any concerns. As I mentioned in the voicemail that I left for you, the talking points will be provided to our Superfund staff for a public meeting tonight.

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Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

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Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

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Subject: RE: URGENT-Fwd: Draft Talking Points - East Chicago

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Ex. 5 - Deliberative Process

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To: Schock, Michael <Schock.Michael@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Hayes, Sam <Hayes.Sam@epa.gov>; Lytle, Darren <Lytle.Darren@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Subject: Re: URGENT-Fwd: Draft Talking Points - East Chicago

I wrote my Q in a rush. I know its a poly, what I really meant to ask is whether this can be used in a blended phosphate product. Lots of times they mischaracterize what is being used and I just wanted to check if this can be used in a blend since I don't have a chemistry background.

[FLINT]

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Schock, Michael
Sent: Wednesday, August 17, 2016 6:35:03 AM
To: Porter, Andrea; Deltoral, Miguel
Cc: Hayes, Sam; Lytle, Darren; Speth, Thomas
Subject: RE: URGENT-Fwd: Draft Talking Points - East Chicago

Sodium hex is a polyphosphate with mixed chain lengths. It's used primarily as a sequestering agent and antiscalant. Lime softening systems often use it to avoid $CaCO_3$ fouling of media.

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process It does not form lead phosphate minerals in the Ex. 5 - Deliberative Process scale. It can revert to some small percentage, Ex. 5 - Deliberative Process Ex. 5 - Deliberative Process But it's not a good CCT chemical for lead and guarantees copper won't age.

From: Porter, Andrea
Sent: Tuesday, August 16, 2016 4:12 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Schock, Michael <Schock.Michael@epa.gov>
Subject: RE: URGENT-Fwd: Draft Talking Points - East Chicago

Link →
http://www.awwa.org/portals/0/files/legreg/documents/2005leadcoppermanagingchange.pdf

Polyphosphates and sodium hexametaphosphate are sequestering agents and may be effective for the control of iron and manganese, but are not recommended for the control of lead and copper (Schock, 1999; Edwards et al., 2002).

From: Deltoral, Miguel
Sent: Tuesday, August 16, 2016 2:35 PM
To: Schock, Michael <Schock.Michael@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>
Subject: URGENT-Fwd: Draft Talking Points - East Chicago

Mike - see below. I think this a blend of ortho & poly, no?

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

Begin forwarded message:

From: "Hollingsworth, Mary" <MHolling@idem.IN.gov>
Date: August 16, 2016 at 2:17:57 PM CDT
To: "Deltoral, Miguel" <deltoral.miguel@epa.gov>, "Poy, Thomas" <poy.thomas@epa.gov>
Cc: "Hyde, Tinka" <hyde.tinka@epa.gov>, "Bair, Rita" <bair.rita@epa.gov>, "Shoven, Heather" <shoven.heather@epa.gov>, "Porter, Andrea" <porter.andrea@epa.gov>, "Spaulding, William" <spaulding.william@epa.gov>
Subject: RE: Draft Talking Points - East Chicago

I just spoke with East Chicago and they use Sodium Hexametaphosphate.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Deltoral, Miguel [mailto:deltoral.miguel@epa.gov]
Sent: Tuesday, August 16, 2016 2:57 PM
To: Poy, Thomas
Cc: Hollingsworth, Mary; Hyde, Tinka; Bair, Rita; Shoven, Heather; Porter, Andrea; Spaulding, William
Subject: Re: Draft Talking Points - East Chicago

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary - can you confirm what they are using for corrosion control? I hope that they are not using only polyphosphates as this is not corrosion control. Polyphosphates only sequester dissolved iron/manganese, they do not control lead release and in high amounts they can actually increase lead release. The ortho/poly terminology is always confused so I'm assuming and hoping it is actually orthophosphate or blended (ortho + poly) phosphates.

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Aug 16, 2016, at 1:37 PM, Poy, Thomas <poy.thomas@epa.gov> wrote:

Mary: I've drafted the attached talking points regarding East Chicago's drinking water and lead. Can you please take a look at it and let me know if you have any concerns. As I mentioned in the voicemail that I left for you, the talking points will be provided to our Superfund staff for a public meeting tonight.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

To: Porter, Andrea[porter.andrea@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Poy, Thomas
Sent: Wed 8/17/2016 4:34:36 PM
Subject: RE: AS REQUESTED: East Chicago Drinking Water System

Ex. 5 - Deliberative Process We can certainly put in the request to upper management. I'll mention it to Tinka and to Bob.

There are no details yet as to how the demolition/excavation will be done. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Porter, Andrea
Sent: Wednesday, August 17, 2016 10:58 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: AS REQUESTED: East Chicago Drinking Water System

Hi Tom,

Ex. 5 - Deliberative Process

How would we move such a request forward?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Schock, Michael
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To: Porter, Andrea <porter.andrea@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Tully, Jennifer <Tully.Jennifer@epa.gov>
Subject: RE: AS REQUESTED: East Chicago Drinking Water System

Any chance of getting pipe? Not that we have time to analyze them with the big backlog, but this has some really unique possibilities. Common source water to other places, but different treatment chemicals.

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To: Schock, Michael <Schock.Michael@epa.gov>
Subject: FW: AS REQUESTED: East Chicago Drinking Water System

Hi Mike,

See email chain below for background on East Chicago concerns.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

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Sent: Tuesday, August 16, 2016 5:32 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Johnson, Mark <johnson.mark@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Mitchell, James <mitchell.james@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Hyde, Tinka <hyde.tinka@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>
Subject: RE: AS REQUESTED: East Chicago Drinking Water System

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about what is actually going on in East Chicago. The residents are being moved into hotels for a few days while their homes are being cleaned, so there is no issue about unoccupied homes where water has not been flowing through the LSLs to maintain the scale.

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Tom

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Like most older Midwestern cities, many East Chicago homes have lead service lines. East Chicago water is treated to keep lead from getting into the water. Because of this treatment, the city's 90th percentile value for lead has been below EPA's action level of 15 ppb for more than 20 years.

Residents concerned about lead in drinking water can contact the city water department to ask to have their water tested.

There are several other simple steps that residents can take to reduce their exposure to lead in drinking water. These include:

•□□□□□□□ Run water before use if it has not been used for several hours. The amount of time to run the water will depend on whether the home has a lead service line or not.

•□□□□□□□ Use only cold water for drinking, cooking, and preparing baby formula.

•□□□□□□□ Purchase a water filter that is certified to remove "total lead."

•□□□□□□□ On a regular basis, clean and remove any debris from faucet aerators to clear out any particles of lead that may become trapped in the aerator.

•□□□□□□□ Be aware of any work that could disturb your lead service line, such as water main replacement, lead service line repair or replacement of part of the service line.

•□□□□□□□ Purchase lead-free faucets and plumbing components.

•□□□□□□□ Remove the entire lead service line.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Deltoral, Miguel
Sent: Tuesday, August 16, 2016 6:07 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Johnson, Mark <johnson.mark@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Mitchell, James <mitchell.james@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Subject: Re: AS REQUESTED: East Chicago Drinking Water System

I assume someone will pull all that we have on violations & exceedances from SDWIS, so I focused on the other information Tinka requested as follows:

Lead in Drinking Water Q&A (EPA)

Use the information on this website. **Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process

https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

Lead service lines

Indiana Governor's response to EPA letter on LCR implementation

https://www.epa.gov/dwreginfo/state-responses-epas-letter-governors-and-state-environment-and-public-health

"IDEM requested an update from public water systems via email on January 7, 2016 and February 16, 2016 requesting the systems submit to IDEM responses regarding the locations of lead service lines. The lead service line inventory responses received thus far are currently being uploaded as public documents to the online virtual file cabinet."

The survey of systems with lead lines has been posted by IDEM (copy attached).

It does not appear that East Chicago responded to this survey, but I found this article which states that 90 percent of East Chicago's service lines are lead:

http://www.nwitimes.com/uncategorized/e-c-proposes-plan-to-curb-lead-contamination/article_6c40147d-f7e2-5bb3-bc6d-fd28d455085d.html

"Modrowski estimated that 90 percent of the city's service lines are lead."

It's an old article (Oct 1992), so using the 1992 population of 33,370 and the East Chicago average household size of 2.75 persons (2010 census), that would put the number of LSLs somewhere around 10,900 [(33,370/2.75)x0.9].

I can't find anything regarding whether they intend to replace the lead lines or not.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Rowan, Anne
Sent: Monday, August 15, 2016 06:11 PM
To: Brown, Jaime; Bassler, Rachel; Johnson, Mark; Kelley, Jeff; Cassell, Peter; Cannon, Phillippa; Mitchell, James; Deamer, Eileen
Cc: Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea
Subject: FW: AS REQUESTED: East Chicago Drinking Water System

Mark Johnson just called to let us know that he's learned from organizers (local faith leaders) of Tuesday night's community meeting that East Chicago residents have number of questions about lead levels in their drinking water. Tinka provide me the information below.

Peter, please follow up with our drinking water folks Tuesday to draft some basic talking points / Q&A that Jaime, Mark and Rachel can use tomorrow night if/when lead/drinking water issues come up. In addition to questions about violations, exceedances and health effects, we'll need to know if 1) How many / what percentage of East Chicago's service lines are made of lead, and whether the city has a plan/ schedule to replace lead service lines? Let's try be as prepared as possible to answer any questions that we can reasonably anticipate.

Depending on the level of concern and number of questions, we may need to include this topic at our upcoming (on a date TBD) multi- government agency sponsored community meeting.

Thank you!

From: Hyde, Tinka
Sent: Thursday, August 04, 2016 7:34 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Benning, Brad <benning.bradley@epa.gov>
Cc: Bassler, Rachel <Bassler.Rachel@epa.gov>; Johnson, Mark <johnson.mark@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: AS REQUESTED: East Chicago Drinking Water System

Sorry Anne – I didn't get your message until this morning. Below is the information on the status of the E. Chgo DW plant. Let us know if you have questions.

From: Bair, Rita
Sent: Monday, August 01, 2016 3:49 PM
To: Hyde, Tinka <hyde.tinka@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: East Chicago Drinking Water System

Here are some factoids about East Chicago's Water System that you asked for.

- The East Chicago Water Works (IN5245012) is a surface water system utilizing Lake Michigan water that serves 29,500 people.

- The last violation they had was a DBP M&R violation in the first quarter of CY2016.

- In 2015 they had a treatment technique violation for the month of June for an IESWTR filter violation. The violation was returned to compliance on 8/4/15. No other violations have occurred since 1994.

- The last lead and copper sampling was done for the 2012-2014 time period. There have been no ALEs. (NOTE: The LCR AL is .015 mg/l or 15 ppb) A copy of the lead results dating back to 1995 are below.

Let me know if you need anything else.

Monitoring Period Begin Date	Monitoring Period End Date	Number of Samples	Measure (mg/l)	Water System Facility State Asgn ID No.	Date Summary Received	Analyte
01-01-2012	12-31-2014	30	.0078	DS001	08-26-2014	Lead
01-01-2011	12-31-2013	30	.0036	DS001	08-02-2011	Lead
01-01-2008	12-31-2010	30	.0077	DS001		Lead
01-01-2005	12-31-2007	30	.005	DS001		Lead
01-01-2002	12-31-2004	30	.0037	DS001		Lead
01-01-1999	12-31-2001	30	.0005	DS001		Lead
01-01-1996	12-31-1996	30	.012	DS001		Lead
01-01-1995	12-31-1995	30	.012	DS001		Lead

To: Poy, Thomas[poy.thomas@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Porter, Andrea
Sent: Wed 8/17/2016 3:58:16 PM
Subject: FW: AS REQUESTED: East Chicago Drinking Water System

Hi Tom,

If homes will be demolished as part of the East Chicago response, does that give us an opportunity to extract some lead service line pipe segments for ORD (see Mike's email below)? How would we move such a request forward?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

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To: Porter, Andrea <porter.andrea@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Tully, Jennifer <Tully.Jennifer@epa.gov>
Subject: RE: AS REQUESTED: East Chicago Drinking Water System

Any chance of getting pipe? Not that we have time to analyze them with the big backlog, but this

has some really unique possibilities. Common source water to other places, but different treatment chemicals.

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To: Schock, Michael <Schock.Michael@epa.gov>
Subject: FW: AS REQUESTED: East Chicago Drinking Water System

Hi Mike,

See email chain below for background on East Chicago concerns.

Thanks,

Andrea Porter

Environmental Engineer

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USEPA - Region 5

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01-01-2005	12-31-2007	30	.005	DS001		Lead
01-01-2002	12-31-2004	30	.0037	DS001		Lead
01-01-1999	12-31-2001	30	.0005	DS001		Lead
01-01-1996	12-31-1996	30	.012	DS001		Lead
01-01-1995	12-31-1995	30	.012	DS001		Lead

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Mitchell, James[mitchell.james@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Hyde, Tinka[hyde.tinka@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]
From: Poy, Thomas
Sent: Tue 8/16/2016 10:32:27 PM
Subject: RE: AS REQUESTED: East Chicago Drinking Water System

Miguel: Since our conversation earlier today about your concern about residents potentially being moved into unoccupied homes and the use of filters in this scenario, I've got information about what is actually going on in East Chicago. The residents are being moved into hotels for a few days while their homes are being cleaned, so there is no issue about unoccupied homes where water has not been flowing through the LSLs to maintain the scale.

Also, below are the revised talking points for tonight's public meeting which includes using a water filter as a way to reduce exposure.

Tom

The residents of East Chicago receive their drinking water from Lake Michigan. The city built a new water treatment plan in 2009-2011.

Like most older Midwestern cities, many East Chicago homes have lead service lines. East Chicago water is treated to keep lead from getting into the water. Because of this treatment, the city's 90th percentile value for lead has been below EPA's action level of 15 ppb for more than 20 years.

Residents concerned about lead in drinking water can contact the city water department to ask to have their water tested.

There are several other simple steps that residents can take to reduce their exposure to lead in drinking water. These include:

•□□□□□□□ Run water before use if it has not been used for several hours. The amount of time to run the water will depend on whether the home has a lead service line or not.

•□□□□□□□ Use only cold water for drinking, cooking, and preparing baby formula.

•□□□□□□□ Purchase a water filter that is certified to remove "total lead."

•□□□□□□□ On a regular basis, clean and remove any debris from faucet aerators to clear out any particles of lead that may become trapped in the aerator.

•□□□□□□□ Be aware of any work that could disturb your lead service line, such as water main replacement, lead service line repair or replacement of part of the service line.

•□□□□□□□ Purchase lead-free faucets and plumbing components.

•□□□□□□□ Remove the entire lead service line.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Deltoral, Miguel
Sent: Tuesday, August 16, 2016 6:07 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Johnson, Mark <johnson.mark@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Mitchell, James <mitchell.james@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Subject: Re: AS REQUESTED: East Chicago Drinking Water System

I assume someone will pull all that we have on violations & exceedances from SDWIS, so I focused on the other information Tinka requested as follows:

Lead in Drinking Water Q&A (EPA)

Use the information on this website Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

Lead service lines

Indiana Governor's response to EPA letter on LCR implementation

https://www.epa.gov/dwreginfo/state-responses-epas-letter-governors-and-state-environment-and-public-health

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It's an old article (Oct 1992), so using the 1992 population of 33,370 and the East Chicago average household size of 2.75 persons (2010 census), that would put the number of LSLs somewhere around 10,900 [(33,370/2.75)x0.9].

I can't find anything regarding whether they intend to replace the lead lines or not.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Rowan, Anne
Sent: Monday, August 15, 2016 06:11 PM
To: Brown, Jaime; Bassler, Rachel; Johnson, Mark; Kelley, Jeff; Cassell, Peter; Cannon, Phillippa; Mitchell, James; Deamer, Eileen
Cc: Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea
Subject: FW: AS REQUESTED: East Chicago Drinking Water System

Mark Johnson just called to let us know that he's learned from organizers (local faith leaders) of Tuesday night's community meeting that East Chicago residents have number of questions about lead levels in their drinking water. Tinka provide me the information below.

Peter, please follow up with our drinking water folks Tuesday to draft some basic talking points / Q&A that Jaime, Mark and Rachel can use tomorrow night if/when lead/drinking water issues come up. In addition to questions about violations, exceedances and health effects, we'll need to know if 1) How many / what percentage of East Chicago's service lines are made of lead, and whether the city has a plan/ schedule to replace lead service lines? Let's try be as prepared as possible to answer any questions that we can reasonably anticipate.

Depending on the level of concern and number of questions, we may need to include this topic at our upcoming (on a date TBD) multi- government agency sponsored community meeting.

Thank you!

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Sent: Thursday, August 04, 2016 7:34 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Benning, Brad <benning.bradley@epa.gov>
Cc: Bassler, Rachel <Bassler.Rachel@epa.gov>; Johnson, Mark <johnson.mark@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: AS REQUESTED: East Chicago Drinking Water System

Sorry Anne – I didn't get your message until this morning. Below is the information on the status of the E. Chgo DW plant. Let us know if you have questions.

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Sent: Monday, August 01, 2016 3:49 PM
To: Hyde, Tinka <hyde.tinka@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: East Chicago Drinking Water System

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Let me know if you need anything else.

Monitoring Period Begin Date	Monitoring Period End Date	Number of Samples	Measure (mg/l)	Water System Facility State Asgn ID No.	Date Summary Received	Analyte
01-01-2012	12-31-2014	30	.0078	DS001	08-26-2014	Lead
01-01-2011	12-31-2013	30	.0036	DS001	08-02-2011	Lead
01-01-2008	12-31-2010	30	.0077	DS001		Lead
01-01-2005	12-31-2007	30	.005	DS001		Lead
01-01-2002	12-31-2004	30	.0037	DS001		Lead
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To: Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Brown, Jaime[brown.jaime@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Mitchell, James[mitchell.james@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Rowan, Anne
Sent: Tue 8/16/2016 12:14:42 PM
Subject: Re: AS REQUESTED: East Chicago Drinking Water System

Thanks very much, Miguel.

Sent from my iPhone

On Aug 16, 2016, at 6:07 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

I assume someone will pull all that we have on violations & exceedances from SDWIS, so I focused on the other information Tinka requested as follows:

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Lead service lines

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[redacted]						

[redacted]

<IDEM-LSL Survey-91-Largest-Systems-Responding.pdf>

To: Rowan, Anne[rowan.anne@epa.gov]; Brown, Jaime[brown.jaime@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Johnson, Mark[johnson.mark@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Mitchell, James[mitchell.james@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]
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From: Deltoral, Miguel
Sent: Tue 8/16/2016 11:06:59 AM
Subject: Re: AS REQUESTED: East Chicago Drinking Water System
IDEM-LSL Survey-91-Largest-Systems-Responding.pdf

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To: Drake, Wendy[drake.wendy@epa.gov]; Crooks, Jennifer[crooks.jennifer@epa.gov]; Janczy, Joseph[janczy.joseph@epa.gov]; Palmer, Michele[Palmer.Michele@epa.gov]; Spaulding, William[spaulding.william@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Kuefler, Janet
Sent: Thur 3/10/2016 4:00:49 PM
Subject: FW: LCR Implementation Info Needed
Wisconsin Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Minnesota Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Michigan Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Indiana Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Illinois Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Ohio Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx

FYI, These are the systems that HQ is tracking for ALE follow up. We did not send these out to the States prior to getting the questionnaire info and the states list of ALEs (except for OH). This is the pull that Kevin Roland did that extends into the 2010-2012 timeframe—you have an earlier email from me on this.

The CEOs will be using this list for the updates, beginning I believe after the next data freeze (April). The info. in the spreadsheets was requested by HQ on short notice, so Heather and I started doing data input based on the ALE info we had rec'd from States, but we were not able to enter all of the WI info.

Please let me know if you have questions on this. Please do not need to send to the State—I just wanted you to know about this, for the call at 1 pm today. (This list may differ a bit from what the State gave us, due to most recent data not being reflected and also this data set has older data that the State-supplied response may not.)

Thanks,

Janet Kuefler

Ground Water and Drinking Water Branch

State Programs Team Leader

United States Environmental Protection Agency, Region 5

77 West Jackson Blvd. (WG-15J)

Chicago, Illinois 60604

(312) 886-0123

kuefler.janet@epa.gov

From: Shoven, Heather
Sent: Thursday, March 03, 2016 1:14 PM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Kuefler, Janet <kuefler.janet@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: LCR Implementation Info Needed

Hi Tom,

Attached are state-specific spreadsheets with the HQ Lead Action Level Exceedance data. This contains all of the information that we submitted to OGWDW on 2/25/16. We already provided the Ohio spreadsheet to Beth Messer per her request.

Please let me know if you need anything else.

Best wishes,

Heather

Heather A. Shoven | Enforcement Team Leader | U.S. Environmental Protection Agency, Region 5

Ground Water and Drinking Water Branch | 77 W. Jackson Blvd (WG-15J) | Chicago, IL 60604 | 312-886-0153

From: Poy, Thomas
Sent: Thursday, February 25, 2016 3:44 PM
To: Dave McMillan <dave.mcmillan@illinois.gov>; Jill Jonas <Jill.Jonas@wisconsin.gov>; Mary Ann Dolehanty (dolehantym@michigan.gov) <dolehantym@michigan.gov>; Mary Hollingsworth <MHolling@idem.IN.gov>; mike.baker@epa.state.oh.us; Randy Ellingboe <Randy.Ellingboe@health.state.mn.us>
Cc: R5 WD GWDW <R5_WD_GWDW@epa.gov>
Subject: LCR Implementation Info Needed

Hi All: As we all know, lead is a hot issue for everyone. EPA has identified a number of areas within the implementation of the Lead and Copper Rule that needs to be collected from all States as part of oversight of LCR. These areas include: Source/Treatment Change, Sampling Plan, Invalidation of Samples, Monitoring Waivers for Small Systems, Public Outreach & Education. Attached are the specific questions within these areas that R5 needs you to answer with respect to your LCR implementation by March 8th. Your State Program Manager will be sending you information that we have about your LCR implementation that may help in answering the questions (some of the information may be dated).

At the end of the attached document, are questions that EPA needs responses to for specific systems with action level exceedances (ALEs). Some of you have been contacted by R5 staff about systems with ALEs already and I appreciate you help with the status of these systems. Like with arsenic systems a few years ago, status updates on systems with ALEs will be tracked across the country. We will develop a table to make status updates easier, similar to the ETT tables that you provide enforcement updates on. That way, only changes in status need to be noted.

I need to point out that one of the pieces of information requested for these ALE systems are the individual results for the homes that are above the action level of 15 ppb. Logistics of this need to be worked out.

Please give me a call if you have questions.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

To: Bergman, Ronald[Bergman.Ronald@epa.gov]; Lopez-Carbo, Maria[Lopez-Carbo.Maria@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]
From: Poy, Thomas
Sent: Wed 3/9/2016 2:59:32 PM
Subject: IDEM LCR Oversight Responses
Hot Issue Lead Sampling Study 3-28-14.docx
IDEM ALE.xlsx

Ron/Maria: Here is IDEM's LCR Oversight Responses.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

Indiana's Lead and Copper Oversight Framework

Source/Treatment Change:

- Please provide the state's change in source water or treatment process, including actions the public water system needs to take and documentation provided before, during and after.
    - Before any system changes its source water, IDEM would have a consultation with the system regarding the reasons for the change. IDEM would question if the change affects issues in the distribution system and if the direction of the flow from the new source is different. IDEM would inquire if the source change would trigger a need for capacity development, an operator with a different certification class, any new treatment requirements, any new sampling requirements, or a well head protection plan. IDEM would require a complete sample set of drinking water parameters in accordance with our rule IAC article 8. (list is provided below). We would require all of this information be given to IDEM in writing.
    - For compliance purposes, it depends whether the system is a Community, Nontransient or Transient Water System. The more susceptible the population, more stringent the sampling requirements. The requirements change greatly if the source change is from ground water to surface water. Also, if the system is a purchase water system and wants to start producing its own water supply, the system would be required to go through capacity development. (IAC 8-3.6)
    - For permits, any new well would require a construction permit. For ground water systems, before a permit will be accepted an approved well site survey must be completed. The well site survey requires information on the location of the well and the well's proximity to sources of contamination. Surface water systems adding a new intake location (whether in same source or different source water) would also require a construction permit as would any change of treatment.
    - For source water protection, if a new wellfield is proposed that proposal would trigger the requirements of Indiana's Wellhead Protection Rule (327 IAC 8.4-1).Through the well site survey, a schedule is required showing how and when the system would comply with the wellhead protection requirements. If changes are proposed in a surface water source, would adjust the system's source water assessment to reflect any changes in or additions of locations of intakes.
    - Any system proposing changes to its source water would have to supply enough information to adequately answer the applicable questions above prior to implementing any change. The applicable questions would vary depending on the system's proposal. The proposal may be treated by IDEM as though it is a new system or as additional flow to fulfill increased demand.
    - **Sampling requirements dealing with changes in source can be found in the following rule citations:**
        - 327 IAC 8-2-4.1 Collection of samples for inorganic chemical testing;
        - 327 IAC 8-2-5.1 Collection of samples for organic chemical testing other than volatile organic compounds and total Trihalomethanes ;
        - 327 IAC 8-2-5.5 Collection of samples for volatile organic compound testing other

than total trihalomethanes; community and nontransient noncommunity water systems;
    - 327 IAC 8-2-10.2 Monitoring frequency for radioactivity; community water systems;
    - 327 IAC 8-2-10.2 Monitoring frequency for radioactivity; community water systems;
    - 327 IAC 8-2-37 Monitoring requirements for lead and copper in tap water;
    - 327 IAC 8-2-40 Applicability of corrosion control treatment steps to small, medium size, and large water systems;
    - 327 IAC 8-2.6-16 Source toolbox components; requirements for microbial toolbox components; enhanced treatment for Cryptosporidium.
  - **Requirements for new sources can be found in the following citations:**
    - 327 IAC 3.4. Public Water System Wells;
    - 327 IAC 8-4.1-13 New well site submittal requirements;
    - 327 IAC 3.6. Demonstration of New Public Water Supply System Capacity;
    - 327 IAC 4. Approval of Public Water Supply Plans;
    - 327 IAC 8-12-2.5 Reclassification of water treatment plants and water distribution systems.
  - IDEM's Drinking Water information may be found at: http://in.gov/idem/cleanwater/2381.htm

- How does the response above change when implementing LCR requirements for consecutive distribution systems?
  - Describe the combined sampling plan. When the wholesaler exceeds ALE, is PE required for the wholesaler and all the consecutive systems?
    - IDEM does not allow systems to use combined sampling plans. Each system conducts their own lead and copper sampling and would do their own public education if there was a lead action level exceedance.
  - How is the primacy agency establishing WQP for the PWSs in a combined distribution system?
    - Each system is treated individually. IDEM does not use the combined distribution system definition for lead and copper.

Sampling Plan:

- What is the primacy agency protocol for sampling?
    - IDEM requires all Community and NTNC systems to collect samples. The specification is for sampling first draw samples at single family residences for community systems and cold water taps typically used for consumption at nontransient noncommunity systems. First draw means the water needs to be standing for at least 6 hours before sampling. The sample must be collected in a one-liter sample container.
  - Does the primacy agency have any regulation or policy that addresses pre-stagnation flushing?
    - IDEM does **NOT** recommend flushing before sampling or any pre-stagnation flushing. IDEM has told schools that are sampling during the summer (when there is no water usage) to make sure water is used in the building the day before they collect samples to ensure they are not sampling stagnant water. This has been done over the phone when schools ask about sampling when there is no water usage
  - Did the primacy agency approve initial plans and what process is used for systems to notify states and states to review any modifications to sampling plans?

    - IDEM reviews initial plans, but does not approve them. When systems ask about changing sample locations, we instruct them to select a new site that meets the same criteria as the location from which they are changing. We ask them to submit in writing the reasons why they are no longer using the previous sites and the sampling locations of the new sites. The correspondence/report is filed in the Agency's Virtual File Cabinet (VFC). The connection to the VFC may be found at http://in.gov/idem/cleanwater/2381.htm
- What protocol does the primacy agency use to review sampling locations and ensure the sites meet the highest Tier classification possible? What type of documentation did the State review, if any, to confirm Tier 1 sampling sites identified by the PWS?
    - The system was required to provide a sampling site plan reflecting all Tier 1 sites available. Systems without adequate Tier 1 sites are also required to provide Tier 2 sites. When we received the plans in 1992 field personnel reviewed the sample sites. The sampling protocol was also made as part of the programs compliance strategy.
    - IDEM recently sent a Service Line Questionnaire to all Community systems on January, 2016. The service line questionnaire provides information about the service line material and identify if there are any Lead Service lines. The questionnaire should help the system identify Tier 1 sites and ensure they are consistent with their sample site plan from 1992.
    - The initial plan submissions can be found in our Virtual File Cabinet. Note: because those plans were scanned and saved as one large document, they may be difficult to locate. Any new plan submissions will be scanned as smaller documents so they will be more readably accessible.

      IDEM also sent a Lead and Copper Sample Site Selection Criteria worksheet to Community systems on March 2, 2016. This was a follow up to the Service Line Questionnaire, so systems could identify and submit the appropriate Tier 1, Tier 2, and Tier 3 sample locations.
- Does the state require sampling plans to be submitted to the state? What do those plans contain (site locations, sampling schedule, sampling instructions, etc.)
    - IDEM asked that sampling plans be submitted prior to the initial rounds of sampling 20+ years ago.

      IDEM sent a Lead and Copper Sample Site Selection Criteria template to community systems (municipalities) and asking them to complete and submit a copy to IDEM. This template will be posted on IDEM's website.
- How often does the primacy agency review sampling plans?
    - As requested by public water system.
- Does the primacy agency require approval of sampling plan?
    - IDEM has not required agency approval of sampling plans in the past. IDEM will request submission of sampling plans from systems once we receive the majority of the materials surveys back from the community water systems.
- Does the state require that systems submit sampling instructions, especially if samples are being collected by customers?
    - No, IDEM does not require systems to submit their sampling instructions, although many systems did submit them 20+ years ago.
- What guidance does the primacy agency provide regarding sampling pools and retaining samples in the initial monitoring pool vs. new sites? What protocol does the primacy agency provide to PWS in regards to changing or "dropping" sites?

- When systems ask about changing sample locations, we instruct them to select a new site that meets same criteria as the location from which they are changing. We ask them to submit in writing the reasons why they are no longer using the previous sites and the sampling locations of the new sites. The updated sampling plan and correspondence is filed in the VFC.

- What actions do states take if a system removes a site from their sampling pool that had tested high in previous monitoring periods?
  - The system needs to submit an explanation of why they are no longer sampling from a location that tested high in previous monitoring period(s).

- Has the primacy agency approved systems on reduced monitoring to take their samples during different than the required months of June-September?
  - IDEM allows schools to monitor beginning in May as long as all samples are collected within a 4-month window. This allows schools to collect samples while it is warm, but also while school is in session.

Invalidation of Samples:

- What criteria does the state use to invalidate samples?
  - IDEM uses the criteria set forth in the Grumbles' memo dated November 23, 2004.
- What documentation is required of public water systems to make this decision?
  - Public water systems must submit an explanation in writing of why they are requesting sample invalidation. The most common approved cause for sample invalidation is that the samples were collected from locations that are not kitchen or bathroom cold water taps at community systems or cold water taps not typically used for consumption at nontransient noncommunity water systems (i.e., outside spigots, mop sinks). If the request is approved, IDEM sends the system a sample invalidation letter stating that they have 20 days to collect a replacement sample.
  - Other reasons why samples may be invalidated:
    - Sample bottle damaged during transit.
    - Laboratory error/improper sample analysis.

- Does the primacy agency keep a record of written justifications for invalidated samples?
  - Yes, any documentation regarding sample invalidation is filed in our VFC.

Monitoring Waivers for Small Systems

- Is the primacy agency approving waivers for lead sampling?
  - No
- If so, what is the protocol for such waivers to be approved?

Public Education & Outreach

- Describe, if anything, what the state requires over and above the Federal LCR requirements for public education, sampling instructions to homeowners or consumer notification to homeowners who sampled?
  - IDEM requires copper sample results be included in the consumer notice.

- What kind of resources does the state invest in the voluntary effort of taking any actions when an

individual home sample is higher than the action level and if so, what actions are taken?

- The system is required to distribute the Consumer Notice of Lead Result to each sample location. The Lead Consumer Notice provides information about lead health effects and how the homeowner can reduce exposure to lead in drinking water.

- What does the state do when a complaint is received with samples results they have taken and the number is higher than the AL number? What is the state protocol for addressing citizen complaints?
  - IDEM sends the homeowner information on how they can reduce their exposure to lead in drinking water. IDEM has an agency complaint coordinator who reviews all complaints and distributes and tracks them to ensure a timely response.

- Describe any mechanisms by which the primacy agency coordinates with children's health programs that track elevated blood lead levels?
  - All lead action level exceedances are reported to the appropriate local health department.

Others:

- What information on LCR is posted on the web or otherwise made available to the public, such as sampling protocols, sampling instructions, lead service line locations, or individual sample results?

  The Lead and Copper results are available to the public via IDEM's Drinking Water watch webpage:

  https://myweb.in.gov/IDEM/DWW/

  - More information concerning lead may be found at these locations:

    http://in.gov/idem/cleanwater/2386.htm

    http://www.in.gov/idem/6968.htm

    IDEM has the following items posted on our website:
    - Lead and Copper Rule Fact Sheet;
    - Consumer Notice of Lead Result in Drinking Water form;
    - Lead in Drinking Water Information for Consumers Fact Sheet;
    - How Lead Gets Into the Water;
    - Suggested Directions for Homeowners Tap Sample Collection Procedures;
    - Service Line Inventory;
    - Lead and Copper Sample Site Collection Criteria for Community Water Systems.

- What additional steps does the state or public water system take to inform the public, such as press release, press conference, etc?
  - Systems serving a population greater than 100,000 are required to post public education material on their website and submit a press release to newspapers and television and radio stations.

- Are there PWSs of concern in the state? What steps are being taken to provide assistance?
  - IDEM is closely monitoring systems that have an "active" lead exceedance. IDEM has assisted systems by expediting permits for phosphate treatment, reviewing corrosion control treatment plans, and offering compliance recommendations.

Questions related to systems with ALEs:

- What follow-up action(s) was taken by the public water system?
    - PWSs of concern monitored for water quality parameters and monitored for lead and copper at each entry point. A corrosion control treatment plan was submitted to IDEM. PWSs also submitted a copy of the public education materials distributed to the customers. The Consumer Notice of Lead Result was distributed to each sample location and the PWSs submitted at least one sample copy of the Lead Consumer Notice and Certification form to IDEM**. For systems specific information, see the attached Excel spreadsheet titled: LCR Oversight Framework Jan 18 2016.**

- If system had corrosion control, did state look at re-optimization? If not currently in place – was it now required?
    - If a PWS exceeds the AL, they are required to submit a corrosion control treatment plan. If a plan was previously in place, then they have to submit a modified plan.

- Does the state enter PE violations into SDWIS if a PWS fails to issue PE or fails to do it timely?
    - *If a PWS did not do PE within 60 days, it would be a violation and if that is entered into SDWIS by the state, we can get that information directly from SDWIS rather than asking the states to go back and do a file review to get the exact date, unless the state database has this information were the individual results from homes that exceeded the AL?*
        - In the past IDEM has entered a Public Education (PE) compliance activity schedule in SDWIS, but a PE Violation was not entered in SDWIS. After reviewing current operations, we have decided to start entering PE Violations in SDWIS.

- What were the individual results from homes that exceeded the AL? Did the public water system return to standard monitoring with appropriate number of samples?
        - **See the attached Excel spreadsheet titled: LCR Oversight Framework Jan 18 2016**.
    - *Need to make sure SDWIS can handle the results and need to decide how we pick a number of PWSs per state to look at.*
- Did the public water system certify that they notified homeowners with lead results?
    - Yes, the PWS submitted one sample copy of the Consumer Notice of Lead Result form and a copy of the Lead Consumer Notice and Certification form.
- Sample of instructions provided to homeowners.
    - Yes, sample instructions are given to the home owners by the PWS and are also on IDEM's website. This information was just recently updated with EPA's revised version dated February 2016.

PWSID	System Name	County	Population
IN2370006	WHEATFIELD ELEMENTARY SCHOOL	Jasper	457
IN2370881	ROBERT FASE SENIOR CENTER	Jasper	69
IN2431048	GRACE HEALTH CARE VILLAGE	Kosciusko	125
IN2640334	WESTSIDE PROPERTIES LLC	Porter	33
IN2710589	LYDICK METHODIST CHURCH	St. Joseph	237
IN2790923	EVONIK CORPORATION	Tippecano e	750
IN5209004	MAPLE LANE VILLAGE MOBILE HOME PARK	Cass	232
IN5215002	DILLSBORO WATER WORKS	Dearborn	1975
IN5223004	KINGMAN WATER WORKS	Fountain	510
IN5233011	NEW CASTLE UTILITIES	Henry	18000
IN5234006	GREENTOWN MUNICIPAL WATER	Howard	2415
IN5237005	RENSSELAER WATER DEPARTMENT	Jasper	5912
IN5237008	HERITAGE PARK APARTMENTS	Jasper	65
IN5243018	PIERCETON WATER WORKS	Kosciusko	1100
IN5244013	AUTUMN GROVE	LaGrange	55
IN5252016	PERU WATER DEPARTMENT	Miami	16000
IN5257008	KENDALLVILLE WATER DEPARTMENT	Noble	9616
IN5273003	MORRISTOWN WATER DEPARTMENT	Shelby	1218
IN5283014	NEWPORT CHEMICAL DEPOT	Vermillion	45

PWS Type	Sample Count	90th Percentile in mg/L (ppm)
NTNC	5	**0.0204**
NTNC	5	**0.0228**
NTNC	5	**0.0667**
NTNC	5	**0.017**
NTNC	5	**0.0265**
NTNC	20	**0.027**
C	5	**0.0194**
C	10	**0.0243**
C	10	**0.02**
C	30	**0.0251**
C	10	**0.11**
C	20	**0.0163**
C	5	**0.0298**
C	10	**0.0216**
C	5	**0.0197**
C	38	**0.018**
C	20	**0.05**
C	10	**0.0181**
C	5	**0.0296**

90th Percentile in ug/L (ppb)	Individual Results that Exceeded AL (ppb)
#REF!	35.0 at ESL Room
#REF!	44.9 at Kitchen Hand Sink
#REF!	114.0 - Art Room and 19.3 - Quite Room
#REF!	29.0 - Suite A
#REF!	41.0 - Kitchen South
#REF!	27.0 - W. Wall Hand Sink 35.0 - East Drinking Fountain 210.0 - Womens RR Sink
#REF!	26.7
#REF!	25.1, 24.3, and 150.0
#REF!	21.0 and 20.0
#REF!	26.4, 31.1, 25.6, and 25.1
#REF!	75.0, 170.0, and 110.0
#REF!	16.3, 39.0, and 17.8
#REF!	22.37 and 37.24
#REF!	21.6 and 36.6
#REF!	33.2
#REF!	18.3, 20.6, 17.9, 22.5, 25.0, and 17.0
#REF!	20.1, 27.6, 90.5, 50.0, and 26.5, and 69.8
#REF!	18.1 and 20.2
#REF!	31.7 and 27.6

Collection Date	trol Treatm	ediate Update
8/18/2011	the	
6/28/2011	Hand Sink,	
7/23/2015	level shall	
9/27/2013	that	
7/16/2014	replaced at the	
8/27/2015	lead or copper fittings	
8/24/2015	d to each	collect 10 follow up
9/17/2015	use for our	
7/21/2015	identify where the	1/25/16 - Warning
9/17/2014	from the	1/21/16 -
9/3/2015	to apply for the	e
7/1/2014	lead	they were not able
9/8/2015	noncompl	Treatmen t plan
9/26/2015	t plan. Spoke to	1/20/16 - PE was
9/20/2013	to collect Lead and	
7/18/2014	treatment plan,	1/26/16 - Email
7/6/2015	below the level once	
8/19/2015	that exceed	
8/25/2015	copper	

To: Bair, Rita[bair.rita@epa.gov]; Spaulding, William[spaulding.william@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Hyde, Tinka[hyde.tinka@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
From: Poy, Thomas
Sent: Wed 3/9/2016 2:21:56 PM
Subject: FW: LCR Implementation Info Needed
LCR Oversight Framework Jan 18 2016 reply wc.docx
LCR Oversight Framework for EPA.xlsx

IDEM's LCR responses.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Monday, March 07, 2016 2:00 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Dave McMillan <dave.mcmillan@illinois.gov>; Jill Jonas <Jill.Jonas@wisconsin.gov>; Mary Ann Dolehanty (dolehantym@michigan.gov) <dolehantym@michigan.gov>; mike.baker@epa.state.oh.us; Randy Ellingboe <Randy.Ellingboe@health.state.mn.us>
Cc: R5 WD GWDW <R5_WD_GWDW@epa.gov>
Subject: RE: LCR Implementation Info Needed

Attached is Indiana's response. Let me know if you need anything else from our Great State.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

From: Poy, Thomas [mailto:poy.thomas@epa.gov]
Sent: Thursday, February 25, 2016 4:44 PM
To: Dave McMillan; Jill Jonas; Mary Ann Dolehanty (dolehantym@michigan.gov); Hollingsworth, Mary; mike.baker@epa.state.oh.us; Randy Ellingboe
Cc: R5 WD GWDW
Subject: LCR Implementation Info Needed

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hi All: As we all know, lead is a hot issue for everyone. EPA has identified a number of areas within the implementation of the Lead and Copper Rule that needs to be collected from all States as part of oversight of LCR. These areas include: Source/Treatment Change, Sampling Plan, Invalidation of Samples, Monitoring Waivers for Small Systems, Public Outreach & Education. Attached are the specific questions within these areas that R5 needs you to answer with respect to your LCR implementation by March 8th. Your State Program Manager will be sending you information that we have about your LCR implementation that may help in answering the questions (some of the information may be dated).

At the end of the attached document, are questions that EPA needs responses to for specific systems with action level exceedances (ALEs). Some of you have been contacted by R5 staff about systems with ALEs already and I appreciate you help with the status of these systems. Like with arsenic systems a few years ago, status updates on systems with ALEs will be tracked across the country. We will develop a table to make status updates easier, similar to the ETT tables that you provide enforcement updates on. That way, only changes in status need to be noted.

I need to point out that one of the pieces of information requested for these ALE systems are the individual results for the homes that are above the action level of 15 ppb. Logistics of this need to be worked out.

Please give me a call if you have questions.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

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19.4	26.7
24.3	25.1, 24.3, and 150.0
20	21.0 and 20.0
25.1	26.4, 31.1, 25.6, and 25.1
110	75.0, 170.0, and 110.0
16.3	16.3, 39.0, and 17.8
29.8	22.37 and 37.24
21.6	21.6 and 36.6
19.7	33.2
18	18.3, 20.6, 17.9, 22.5, 25.0, and 17.0
50	20.1, 27.6, 90.5, 50.0, and 26.5, and 69.8
18.1	18.1 and 20.2
29.6	31.7 and 27.6

Collection Date	trol Treatm	ediate Update
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9/26/2015	t plan. Spoke to	1/20/16 - PE was
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7/6/2015	below the level once	
8/19/2015	that exceed	
8/25/2015	copper	

Indiana's Lead and Copper Oversight Framework

Source/Treatment Change:

- Please provide the state's change in source water or treatment process, including actions the public water system needs to take and documentation provided before, during and after.
    - Before any system changes its source water, IDEM would have a consultation with the system regarding the reasons for the change. IDEM would question if the change affects issues in the distribution system and if the direction of the flow from the new source is different. IDEM would inquire if the source change would trigger a need for capacity development, an operator with a different certification class, any new treatment requirements, any new sampling requirements, or a well head protection plan. IDEM would require a complete sample set of drinking water parameters in accordance with our rule IAC article 8. (list is provided below). We would require all of this information be given to IDEM in writing.
    - For compliance purposes, it depends whether the system is a Community, Nontransient or Transient Water System. The more susceptible the population, more stringent the sampling requirements. The requirements change greatly if the source change is from ground water to surface water. Also, if the system is a purchase water system and wants to start producing its own water supply, the system would be required to go through capacity development. (IAC 8-3.6)
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- How does the response above change when implementing LCR requirements for consecutive distribution systems?
  - Describe the combined sampling plan. When the wholesaler exceeds ALE, is PE required for the wholesaler and all the consecutive systems?
    - IDEM does not allow systems to use combined sampling plans. Each system conducts their own lead and copper sampling and would do their own public education if there was a lead action level exceedance.
  - How is the primacy agency establishing WQP for the PWSs in a combined distribution system?
    - Each system is treated individually. IDEM does not use the combined distribution system definition for lead and copper.

Sampling Plan:

- What is the primacy agency protocol for sampling?
    - IDEM requires all Community and NTNC systems to collect samples. The specification is for sampling first draw samples at single family residences for community systems and cold water taps typically used for consumption at nontransient noncommunity systems. First draw means the water needs to be standing for at least 6 hours before sampling. The sample must be collected in a one-liter sample container.
  - Does the primacy agency have any regulation or policy that addresses pre-stagnation flushing?
    - IDEM does **NOT** recommend flushing before sampling or any pre-stagnation flushing. IDEM has told schools that are sampling during the summer (when there is no water usage) to make sure water is used in the building the day before they collect samples to ensure they are not sampling stagnant water. This has been done over the phone when schools ask about sampling when there is no water usage
  - Did the primacy agency approve initial plans and what process is used for systems to notify states and states to review any modifications to sampling plans?

- IDEM reviews initial plans, but does not approve them. When systems ask about changing sample locations, we instruct them to select a new site that meets the same criteria as the location from which they are changing. We ask them to submit in writing the reasons why they are no longer using the previous sites and the sampling locations of the new sites. The correspondence/report is filed in the Agency's Virtual File Cabinet (VFC). The connection to the VFC may be found at http://in.gov/idem/cleanwater/2381.htm

- What protocol does the primacy agency use to review sampling locations and ensure the sites meet the highest Tier classification possible? What type of documentation did the State review, if any, to confirm Tier 1 sampling sites identified by the PWS?
    - The system was required to provide a sampling site plan reflecting all Tier 1 sites available. Systems without adequate Tier 1 sites are also required to provide Tier 2 sites. When we received the plans in 1992 field personnel reviewed the sample sites. The sampling protocol was also made as part of the programs compliance strategy.
    - IDEM recently sent a Service Line Questionnaire to all Community systems on January, 2016. The service line questionnaire provides information about the service line material and identify if there are any Lead Service lines. The questionnaire should help the system identify Tier 1 sites and ensure they are consistent with their sample site plan from 1992.
    - The initial plan submissions can be found in our Virtual File Cabinet. Note: because those plans were scanned and saved as one large document, they may be difficult to locate. Any new plan submissions will be scanned as smaller documents so they will be more readably accessible.

      IDEM also sent a Lead and Copper Sample Site Selection Criteria worksheet to Community systems on March 2, 2016. This was a follow up to the Service Line Questionnaire, so systems could identify and submit the appropriate Tier 1, Tier 2, and Tier 3 sample locations.

- Does the state require sampling plans to be submitted to the state? What do those plans contain (site locations, sampling schedule, sampling instructions, etc.)
    - IDEM asked that sampling plans be submitted prior to the initial rounds of sampling 20+ years ago.

      IDEM sent a Lead and Copper Sample Site Selection Criteria template to community systems (municipalities) and asking them to complete and submit a copy to IDEM. This template will be posted on IDEM's website.

- How often does the primacy agency review sampling plans?
    - As requested by public water system.

- Does the primacy agency require approval of sampling plan?
    - IDEM has not required agency approval of sampling plans in the past. IDEM will request submission of sampling plans from systems once we receive the majority of the materials surveys back from the community water systems.

- Does the state require that systems submit sampling instructions, especially if samples are being collected by customers?
    - No, IDEM does not require systems to submit their sampling instructions, although many systems did submit them 20+ years ago.

- What guidance does the primacy agency provide regarding sampling pools and retaining samples in the initial monitoring pool vs. new sites? What protocol does the primacy agency provide to PWS in regards to changing or "dropping" sites?

- When systems ask about changing sample locations, we instruct them to select a new site that meets same criteria as the location from which they are changing. We ask them to submit in writing the reasons why they are no longer using the previous sites and the sampling locations of the new sites. The updated sampling plan and correspondence is filed in the VFC.

- What actions do states take if a system removes a site from their sampling pool that had tested high in previous monitoring periods?
  - The system needs to submit an explanation of why they are no longer sampling from a location that tested high in previous monitoring period(s).

- Has the primacy agency approved systems on reduced monitoring to take their samples during different than the required months of June-September?
  - IDEM allows schools to monitor beginning in May as long as all samples are collected within a 4-month window. This allows schools to collect samples while it is warm, but also while school is in session.

Invalidation of Samples:

- What criteria does the state use to invalidate samples?
  - IDEM uses the criteria set forth in the Grumbles' memo dated November 23, 2004.
- What documentation is required of public water systems to make this decision?
  - Public water systems must submit an explanation in writing of why they are requesting sample invalidation. The most common approved cause for sample invalidation is that the samples were collected from locations that are not kitchen or bathroom cold water taps at community systems or cold water taps not typically used for consumption at nontransient noncommunity water systems (i.e., outside spigots, mop sinks). If the request is approved, IDEM sends the system a sample invalidation letter stating that they have 20 days to collect a replacement sample.
  - Other reasons why samples may be invalidated:
    - Sample bottle damaged during transit.
    - Laboratory error/improper sample analysis.

- Does the primacy agency keep a record of written justifications for invalidated samples?
  - Yes, any documentation regarding sample invalidation is filed in our VFC.

Monitoring Waivers for Small Systems

- Is the primacy agency approving waivers for lead sampling?
  - No
- If so, what is the protocol for such waivers to be approved?

Public Education & Outreach

- Describe, if anything, what the state requires over and above the Federal LCR requirements for public education, sampling instructions to homeowners or consumer notification to homeowners who sampled?
  - IDEM requires copper sample results be included in the consumer notice.

- What kind of resources does the state invest in the voluntary effort of taking any actions when an

individual home sample is higher than the action level and if so, what actions are taken?

- The system is required to distribute the Consumer Notice of Lead Result to each sample location. The Lead Consumer Notice provides information about lead health effects and how the homeowner can reduce exposure to lead in drinking water.

- What does the state do when a complaint is received with samples results they have taken and the number is higher than the AL number? What is the state protocol for addressing citizen complaints?
  - IDEM sends the homeowner information on how they can reduce their exposure to lead in drinking water. IDEM has an agency complaint coordinator who reviews all complaints and distributes and tracks them to ensure a timely response.

- Describe any mechanisms by which the primacy agency coordinates with children's health programs that track elevated blood lead levels?
  - All lead action level exceedances are reported to the appropriate local health department.

Others:

- What information on LCR is posted on the web or otherwise made available to the public, such as sampling protocols, sampling instructions, lead service line locations, or individual sample results?

  The Lead and Copper results are available to the public via IDEM's Drinking Water watch webpage:

  https://myweb.in.gov/IDEM/DWW/

  - More information concerning lead may be found at these locations:

    http://in.gov/idem/cleanwater/2386.htm

    http://www.in.gov/idem/6968.htm

    IDEM has the following items posted on our website:
    - Lead and Copper Rule Fact Sheet;
    - Consumer Notice of Lead Result in Drinking Water form;
    - Lead in Drinking Water Information for Consumers Fact Sheet;
    - How Lead Gets Into the Water;
    - Suggested Directions for Homeowners Tap Sample Collection Procedures;
    - Service Line Inventory;
    - Lead and Copper Sample Site Collection Criteria for Community Water Systems.

- What additional steps does the state or public water system take to inform the public, such as press release, press conference, etc?
  - Systems serving a population greater than 100,000 are required to post public education material on their website and submit a press release to newspapers and television and radio stations.

- Are there PWSs of concern in the state? What steps are being taken to provide assistance?
  - IDEM is closely monitoring systems that have an "active" lead exceedance. IDEM has assisted systems by expediting permits for phosphate treatment, reviewing corrosion control treatment plans, and offering compliance recommendations.

Questions related to systems with ALEs:

- What follow-up action(s) was taken by the public water system?
    - PWSs of concern monitored for water quality parameters and monitored for lead and copper at each entry point. A corrosion control treatment plan was submitted to IDEM. PWSs also submitted a copy of the public education materials distributed to the customers. The Consumer Notice of Lead Result was distributed to each sample location and the PWSs submitted at least one sample copy of the Lead Consumer Notice and Certification form to IDEM**. For systems specific information, see the attached Excel spreadsheet titled: LCR Oversight Framework Jan 18 2016.**

- If system had corrosion control, did state look at re-optimization? If not currently in place – was it now required?
    - If a PWS exceeds the AL, they are required to submit a corrosion control treatment plan. If a plan was previously in place, then they have to submit a modified plan.

- Does the state enter PE violations into SDWIS if a PWS fails to issue PE or fails to do it timely?
    - *If a PWS did not do PE within 60 days, it would be a violation and if that is entered into SDWIS by the state, we can get that information directly from SDWIS rather than asking the states to go back and do a file review to get the exact date, unless the state database has this information were the individual results from homes that exceeded the AL?*
        - In the past IDEM has entered a Public Education (PE) compliance activity schedule in SDWIS, but a PE Violation was not entered in SDWIS. After reviewing current operations, we have decided to start entering PE Violations in SDWIS.

- What were the individual results from homes that exceeded the AL? Did the public water system return to standard monitoring with appropriate number of samples?
        - **See the attached Excel spreadsheet titled: LCR Oversight Framework Jan 18 2016**.
    - *Need to make sure SDWIS can handle the results and need to decide how we pick a number of PWSs per state to look at.*
- Did the public water system certify that they notified homeowners with lead results?
    - Yes, the PWS submitted one sample copy of the Consumer Notice of Lead Result form and a copy of the Lead Consumer Notice and Certification form.
- Sample of instructions provided to homeowners.
    - Yes, sample instructions are given to the home owners by the PWS and are also on IDEM's website. This information was just recently updated with EPA's revised version dated February 2016.

To: Bair, Rita[bair.rita@epa.gov]; Palmer, Michele[Palmer.Michele@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]
Cc: Henry, Timothy[henry.timothy@epa.gov]; Hyde, Tinka[hyde.tinka@epa.gov]
From: Poy, Thomas
Sent: Wed 3/9/2016 2:17:27 PM
Subject: FW: LCR Implementation Info Needed
DPH_LCR Oversight Framework_03 08 2016 .docx

IDPH's Response.

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

From: Portz, Eric [mailto:Eric.Portz@Illinois.gov]
Sent: Tuesday, March 08, 2016 4:11 PM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: McCann, Ken <Ken.McCann@Illinois.gov>; McMillan, Dave <DAVE.MCMILLAN@Illinois.gov>; Tosetti, Jamie <Jamie.Tosetti@Illinois.gov>; Palmer, Michele <Palmer.Michele@epa.gov>
Subject: FW: LCR Implementation Info Needed

Tom,

Here is the IDPH responses for NTNCPWS and LCR Implementation.

Regards,

Eric Portz, P.E., Manager

Non-Community Public Water Systems Program

Illinois Department of Public Health

525 W. Jefferson St.

Springfield, IL 62761

Phone: 217-785-2062

Cell: 217-685-9980

Fax: 217-557-1188

E-mail: eric.portz@illinois.gov

From: Poy, Thomas
Sent: Thursday, February 25, 2016 3:44 PM
To: Dave McMillan <dave.mcmillan@illinois.gov>; Jill Jonas <Jill.Jonas@wisconsin.gov>; Mary Ann Dolehanty (dolehantym@michigan.gov) <dolehantym@michigan.gov>; Mary Hollingsworth <MHolling@idem.IN.gov>; mike.baker@epa.state.oh.us; Randy Ellingboe <Randy.Ellingboe@health.state.mn.us>
Cc: R5 WD GWDW <R5_WD_GWDW@epa.gov>
Subject: LCR Implementation Info Needed

Hi All: As we all know, lead is a hot issue for everyone. EPA has identified a number of areas within the implementation of the Lead and Copper Rule that needs to be collected from all States as part of oversight of LCR. These areas include: Source/Treatment Change, Sampling Plan, Invalidation of Samples, Monitoring Waivers for Small Systems, Public Outreach & Education. Attached are the specific questions within these areas that R5 needs you to answer with respect to your LCR implementation by March 8th. Your State Program Manager will be sending you information that we have about your LCR implementation that may help in answering the questions (some of the information may be dated).

At the end of the attached document, are questions that EPA needs responses to for specific systems with action level exceedances (ALEs). Some of you have been contacted by R5 staff about systems with ALEs already and I appreciate you help with the status of these systems. Like with arsenic systems a few years ago, status updates on systems with ALEs will be tracked across the country. We will develop a table to make status updates easier, similar to the ETT tables that you provide enforcement updates on. That way, only changes in status need to be noted.

I need to point out that one of the pieces of information requested for these ALE systems are the individual results for the homes that are above the action level of 15 ppb. Logistics of this need to be worked out.

Please give me a call if you have questions.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

To: Poy, Thomas[poy.thomas@epa.gov]
Cc: Kuefler, Janet[kuefler.janet@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Shoven, Heather
Sent: Thur 3/3/2016 7:13:49 PM
Subject: RE: LCR Implementation Info Needed
Wisconsin Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Minnesota Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Michigan Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Indiana Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Illinois Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx
Ohio Pb AleSysTracker Feb 2 2016 version 2xlsx v2-25-2016.xlsx

Hi Tom,

Attached are state-specific spreadsheets with the HQ Lead Action Level Exceedance data. This contains all of the information that we submitted to OGWDW on 2/25/16. We already provided the Ohio spreadsheet to Beth Messer per her request.

Please let me know if you need anything else.

Best wishes,

Heather

Heather A. Shoven | Enforcement Team Leader | U.S. Environmental Protection Agency, Region 5

Ground Water and Drinking Water Branch | 77 W. Jackson Blvd (WG-15J) | Chicago, IL 60604 | 312-886-0153

From: Poy, Thomas
Sent: Thursday, February 25, 2016 3:44 PM
To: Dave McMillan <dave.mcmillan@illinois.gov>; Jill Jonas <Jill.Jonas@wisconsin.gov>; Mary Ann Dolehanty (dolehantym@michigan.gov) <dolehantym@michigan.gov>; Mary Hollingsworth <MHolling@idem.IN.gov>; mike.baker@epa.state.oh.us; Randy Ellingboe <Randy.Ellingboe@health.state.mn.us>
Cc: R5 WD GWDW <R5_WD_GWDW@epa.gov>
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I need to point out that one of the pieces of information requested for these ALE systems are the individual results for the homes that are above the action level of 15 ppb. Logistics of this need to be worked out.

Please give me a call if you have questions.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

To: Hollingsworth, Mary[MHolling@idem.IN.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]; Bair, Rita[bair.rita@epa.gov]
From: Spaulding, William
Sent: Fri 2/26/2016 12:43:08 AM
Subject: FW: Follow up to Tom's LCR Implementation Info Request
LCR Oversight Framework Jan 18 2016.docx
IN LCR Lead Compliance QA (00000002).doc

Mary,

As a follow up to Tom Poy's email message to you (copy attached), would it be possible to set up a call for mid-next week to discuss the LCR Oversight Framework? Please let me know a day/time that works for you or your staff.

I've also attached a 2004 response from IDEM provided to some similar questions which I think is the last time we did this exercise and might be useful and provide some context.

Thanks in advance for your time and attention to this matter.

Bill

(312) 886-9262

From: Poy, Thomas
Sent: Thursday, February 25, 2016 3:44 PM
To: Dave McMillan <dave.mcmillan@illinois.gov>; Jill Jonas <Jill.Jonas@wisconsin.gov>; Mary Ann Dolehanty (dolehantym@michigan.gov) <dolehantym@michigan.gov>; Mary Hollingsworth <MHolling@idem.IN.gov>; mike.baker@epa.state.oh.us; Randy Ellingboe <Randy.Ellingboe@health.state.mn.us>
Cc: R5 WD GWDW <R5_WD_GWDW@epa.gov>
Subject: LCR Implementation Info Needed

Hi All: As we all know, lead is a hot issue for everyone. EPA has identified a number of areas within the implementation of the Lead and Copper Rule that needs to be collected from all States as part of oversight of LCR. These areas include: Source/Treatment Change, Sampling Plan, Invalidation of Samples, Monitoring Waivers for Small Systems, Public Outreach & Education. Attached are the specific questions within these areas that R5 needs you to answer with respect to your LCR implementation by March 8th. Your State Program Manager will be sending you information that we have about your LCR implementation that may help in answering the questions (some of the information may be dated).

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Please give me a call if you have questions.

Tom

Tom Poy

Chief, Ground Water and Drinking Water Branch

USEPA - Region 5

(312) 886-5991

QUESTIONS ON STATE IMPLEMENTATION OF THE LEAD AND COPPER RULE
6/10/04

A. *Lead Sampling*

1. What is the state=s standard operating procedures to review documentation provided by the systems for tap water monitoring site selection criteria (e.g, tiering, locations). How does the state ensure that site locations and were correctly followed during system sampling rounds?

   IDEM Response: *The system is instructed to choose tier 1 sites first, tier 2 sites, etc., with a description of what these sites would be. The system is expected to make a good faith effort in collecting their samples from these locations but the state does not further verify the validity of the chosen sites.*

2. Describe the process the state undertakes to determine if reduced monitoring is appropriate. Approximately what percentage of systems have been placed on reduced monitoring? What role does the state play in selecting the sites used for reduced monitoring?

   IDEM Response: *If a system has completed two 6-month rounds of consecutive sampling below both the lead and copper action levels, a letter is sent reducing the system=s frequency to annual for a minimum of three years. At the end of the third year if the system has continued to meet the action levels another letter is sent reducing the systems to once every three years. A system is not reduced beyond once every three years as specified by the rule. Approximately 87% of active systems are currently on reduced monitoring. The State currently does not play an active role in selecting the reduced sampling sites, systems are expected to choose sites representative of all the water throughout the distribution system.*

3. Are systems that sample annually or less frequently conducting lead tap sampling during the months of June, July, August, or September? If the state has designated alternate sampling times, please explain the basis for that designation?

   IDEM Response: *Systems on annual or triennial frequencies are required to sample between June-Sept. of that year. However, IDEM does allow schools on annual or triennial frequencies to monitor in May in order to meet the intent of the rule, which is for samples to be collected during the warmest weather months of operation. Sampling in May allows schools to sample during periods of normal water usage rather than during the summer when there is little to no water usage.*

4. Describe what procedures the state has in place to ensure that homeowners are adequately trained to collect samples.

IDEM Response: *IDEM sends instructions on how the samples should be collected via letter.*

5. Although not required by Federal regulation, do systems provide homeowners with lead sampling results derived from any volunteer sampling program? Does the state make any recommendations to public water systems in this area?

   IDEM Response: *IDEM is not aware of any volunteer sampling programs. We have not made recommendations in that area.*

6. Describe the process the state goes through when it identifies that a system has exceeded the action level.

   IDEM Response: *An action level exceedance letter is sent via certified mail to the system which outlines what steps need to be taken and by when (WQP, SW, OCCTR, PE if necessary, follow-up sampling). Follow-up telephone calls/letters are made to systems that have not submitted the required information by the due dates specified. Systems that fail to submit the information are referred to enforcement.*

2. *Calculation of 90th Percentile Lead Level*

1. Describe the protocol used by the state to invalidate samples.

   IDEM Response: *The system must send a written request to the state, once received the state reviews the request and denies/grants it based on the merit of the reason why the system has asked for a sample to be invalidated.*

2. If the state allows for the replacement of samples for reasons other than invalidation, please provide the conditions under which such replacement is allowed.

   IDEM Response: *Invalidation of samples, due to improper sampling technique or location, are currently the only conditions in which the state allows the system to resample.*

3. When calculating the 90th percentile does the state require and/or use the results from all samples collected or the required number of samples? How does the state calculate the 90th percentile if the number of samples is less than the required minimum?

   IDEM Response: *The 90th percentile is based on the total number of samples submitted. If the system does not submit the required number of samples a telephone call/letter is sent requesting the missing samples and the 90th percentile is calculated once the sample(s) is received. The State has accepted samples taken outside of the official monitoring periods.*

4. If a system re-samples at a location to verify a sample with a high lead concentration, does the state use the second sample or both samples in calculating the 90th percentile?

IDEM Response: *The state will use the second sample.*

3. <u>*Treatment Issues*</u>

1. Have all systems met the required deadlines to install optimal corrosion control treatment [40 CFR 141.81(d)(4); 40 CFR 141(e)(5)]? If not, describe how the state is working to address systems that have not met the requirements.

IDEM Response: *Systems who demonstrate that they can meet the action levels by submitting two consecutive 6-month rounds of sampling before the time specified by the rule are not required to install treatment. Systems who have not met these requirements and are not actively working with the state to address the exceedance are referred to enforcement.*

2. How do systems notify the state of treatment changes? Does the state require that systems provide information about potential effects of treatment changes on corrosion control?

IDEM Response: *Systems are require to notify the state by letter of any treatment changes if it could potentially effect the corrosion control treatment already in place to treat their lead/copper problem.*

3. Has the state ever adjusted corrosion control treatment decisions because of concerns with simultaneous compliance with other national primary drinking water regulations, or because of changes in lead levels?

IDEM Response: *The PWS is required to submit a revised OCCTR each time they continue to exceed the action level during a monitoring period.*

4. Has the state ever required a system to conduct more frequent monitoring to evaluate the potential effects of treatment changes?

IDEM Response: *Systems implementing corrosion control or making significant changes to their already existing corrosion control are required to conduct initial sampling (6-month rounds) to evaluate the effectiveness of the treatment.*

4. <u>Lead Service Line Replacement Program</u>

1. Does the state have any systems that have been required to initiate lead service line replacement?

IDEM Response: *No.*

2. What trigger does the state use to require that a system begin replacing lead service lines?

IDEM Response: *N/A*

3. Have any systems in the state conducted monitoring to avoid the need to replace lead service lines that test below the action level?

IDEM Response: *No.*

4. Describe the process the state uses to:
   - $ verify that systems have notified homeowners to offer replacement of the owners= portion of the line;
   - $ ensure that systems provide timely and appropriate notice to residents explaining that a temporary increase in lead levels may occur; and
   - $ ensure that follow-up monitoring is conducted and the homeowners notified of results in a timely manner.

   IDEM Response: *N/A*

5. Has the state required a system to accelerate lead service line replacement (e.g., greater than 7% per year)?

IDEM Response: *No.*

5. <u>*Public Education*</u>

1. Describe the process the state uses to:
   - $ ensure that LCR-related public notices and education materials are provided in a timely manner using methods required by the rule;
   - $ verify that public education materials include required language; and
   - $ ensure that the public education materials are repeated according to the required schedule.

IDEM Response: *A copy of the public education notice is sent to all systems who exceed the lead action level with instructions on how the notice must be distributed/posted and the duration the notice must be distributed/posted. A copy of the notice, with the required information completed by the system, must be sent back to the state within the time specified. The system is instructed by letter that they must distribute/post the notice until they have a minimum of one six-month round below the action level. Follow-up telephone calls are made to systems who do not submit a copy of the notice by the time specified.*

6. <u>*Enforcement*</u>

1. Does the state assign monitoring and reporting violations if systems have not conducted routine monitoring according to the required frequency and numbers of samples?

   IDEM Response: *Yes.*

2. Has the state taken any enforcement actions against systems for failing to meet LCR requirements, including public education and/or lead service line replacement requirements, since 2000?

   IDEM Response: *Yes. Approximately 17 systems are pending/actively in enforcement for failing to meet the LCR requirements.*

3. Has the state addressed significant noncompliers before they become exceptions?

   IDEM Response: *Yes. The state sends multiple letters, makes multiple phone calls to systems who are not submitting the required information in a timely fashion and are not being cooperative before taking the next step of referring them to enforcement.*

4. The 2003 Drinking Water Data Reliability Analysis and Action Plan provides examples of implementation issues identified during the most recent data verifications. Describe how the state has addressed Lead and Copper Rule implementation deficiencies, if any, identified in the most recent data verification.

   IDEM Response: *There weren't any deficiencies identified in last data verification done by EPA R5 in 2002.*

To: Spaulding, William[spaulding.william@epa.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Faulhaber, Kristen[faulhaber.kristen@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]
From: Hollingsworth, Mary
Sent: Tue 2/9/2016 11:49:21 PM
Subject: Re: FY 2015 Final End of Year Report for Indiana

Thank you Bill I will pass this on to our AC, DAC and the branch.

Mary Hollingsworth
IDEM | Drinking Water Branch
317-232-8741

On Feb 9, 2016, at 6:42 PM, Spaulding, William <spaulding.william@epa.gov> wrote:

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Mary:

The Final 2015 End of Year Report is attached. It contains a review of State commitments, EPA Activities, and an evaluation of both for the period covered up to the end of the FY 14-15 (July 1, 2013 – June 30, 2015) Indiana / R5 EPA Environmental Performance Partnership Agreement budget period.

During the course of that timeframe, IDEM met or exceeded its commitments under the Safe Drinking Water Act. The Agency maintained and improved its data system and provided EPA with timely and accurate data reports. Violations received timely follow up and the State completely met and exceeded its enforcement commitments.

IDEM has aggressively pursued preparations for implementing new rules with water systems to make sure that they are aware and will comply with them as they become and will become effective. Particularly noteworthy is the state's leadership and innovation in the development of electronic sampling entry (eSE) system which allows certified laboratories to submit single or batched data, which provides for a more resource-efficient means of doing laboratory data entry.

R5 also commends IDEM for working to maintain a consistently high number of trained

certified operators at water systems throughout the State. We look forward to the development of the new exam and certification process, which will include coverage of new topics such as sustainable and water efficient practices, and congratulate the State for its efforts to promote good asset management.

R5 recognizes the advances that IDEM is making to promote source water protection through its regulatory program, particularly concerning the development of above ground storage tank emergency response plans. We continue to encourage the Drinking Water Branch to work with regulatory and voluntary entities as it works to extend protection efforts to surface water systems. Also of note is IDEMs commitment to providing drinking water state revolving loan fund assistance to environmental justice communities.

We appreciate all that the IDEM Drinking Water Branch has and is continuing to accomplish, especially in the development of new rules and through developing implementable programs that achieve results. We appreciate your continued support and a continued strong partnership which maintains and protects public health.

Bill Spaulding

Indiana State Program Manager

<IN FY 14-15 EOY EPA Final.doc>

To: Hollingsworth, Mary[MHolling@idem.IN.gov]
Cc: Bair, Rita[bair.rita@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Faulhaber, Kristen[faulhaber.kristen@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]
From: Spaulding, William
Sent: Tue 2/9/2016 11:41:23 PM
Subject: FY 2015 Final End of Year Report for Indiana
IN FY 14-15 EOY EPA Final.doc

Mary:

The Final 2015 End of Year Report is attached. It contains a review of State commitments, EPA Activities, and an evaluation of both for the period covered up to the end of the FY 14-15 (July 1, 2013 – June 30, 2015) Indiana / R5 EPA Environmental Performance Partnership Agreement budget period.

During the course of that timeframe, IDEM met or exceeded its commitments under the Safe Drinking Water Act. The Agency maintained and improved its data system and provided EPA with timely and accurate data reports. Violations received timely follow up and the State completely met and exceeded its enforcement commitments.

IDEM has aggressively pursued preparations for implementing new rules with water systems to make sure that they are aware and will comply with them as they become and will become effective. Particularly noteworthy is the state's leadership and innovation in the development of electronic sampling entry (eSE) system which allows certified laboratories to submit single or batched data, which provides for a more resource-efficient means of doing laboratory data entry.

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Bill Spaulding

Indiana State Program Manager

To: CLARK METTLER, MARTHA[MCLARK@idem.IN.gov]; Mary Hollingsworth[mholling@idem.in.gov]
Cc: alao@idem.in.gov[alao@idem.in.gov]; Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Spaulding, William[spaulding.william@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Grevatt, Peter[Grevatt.Peter@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]
From: Hyde, Tinka
Sent: Sun 2/7/2016 6:43:56 PM
Subject: ACTION: Indiana Lead Action Level Exceedances
Indiana ALE.pdf

Martha and Mary – As you are aware, there is a strong national awareness focusing on the presence of lead in drinking water. It is important that we all understand the need to work together to address elevated levels of lead in drinking water, in addition to responding quickly to lead Action Level Exceedances (ALE).

The lead problems in Sebring, Ohio and Flint, Michigan have resulted in the need for additional protection of public health that go beyond focusing on compliance with the requirements of the Lead and Copper Rule. Additional actions can include directing the public water supply to pay for additional water testing for their customers; providing bottled water/NSF certified point-of-use lead filters for those homes that exceed the Action Level, and the need to work with the County and State Health Departments to provide health screenings.

I have attached our most recent list of all lead 90th percentile values that exceeded the Action Level in Indiana that were reported to SDWIS-Fed. These ALEs occurred between July 2013 and June 2015. You or your staff have already been contacted by my staff regarding Indiana's current list of systems with lead ALEs. Please note that the attached list of systems with ALEs may not reflect Indiana's most recent list of systems with ALEs, since there could be new ALEs that have not been reported. Please note that small systems are only required to report the 90th percentile value for an ALE. Only large and medium-sized systems are required to report all lead 90th percentile values, but those data have not been pulled in the attached file. The attached file only includes the systems with ALEs. We will be following up with you to discuss action you have taken or action that need to be taken for these systems with ALEs.

I also understand that you and your staff are currently reviewing the status of public water systems in Indiana that have exceeded the Action Level to ensure that they have completed the necessary follow-up actions. As you conduct your evaluation, I want to emphasize the need for additional actions to ensure public health is protected. We will be following up on this issue and plan to discuss these issues further on our R5 Drinking Water manager's call scheduled later this week, on February 10.

Thank you.

Tinka G. Hyde

Water Division Director

USEPA W-15J

77 W. Jackson Blvd

Chicago, IL 60604

Office: 312-886-9296

Cell: 312-735-9428

Indiana: 90th Percentile Action Level Exceedances Occurring Between July 2013 - June 2015

PWS ID	PWS Name	PWS Type Code	Source Code	Contaminant Name	Results	Unit Of Measure Description	Begin Date
IN5202012	HONEYSUCKLE (FORT WAYNE UTILITIES)	CWS	GW	LEAD SUMMARY	0.0453	Milligrams per Liter (LCR)	7/1/2014
IN2860009	FLEX-N-GATE COVINGTON	NTNCWS	GW	LEAD SUMMARY	0.0271	Milligrams per Liter (LCR)	1/1/2014
IN2830805	DUKE ENERGY INC., CAYUGA STATION	NTNCWS	GW	LEAD SUMMARY	0.0229	Milligrams per Liter (LCR)	1/1/2015
IN2830805	DUKE ENERGY INC., CAYUGA STATION	NTNCWS	GW	LEAD SUMMARY	0.0255	Milligrams per Liter (LCR)	1/1/2014
IN2800819	PIONEER HI-BRED INTERNATIONAL INC-OFFICE	NTNCWS	GW	LEAD SUMMARY	0.129	Milligrams per Liter (LCR)	1/1/2014
IN2430239	PAULS WELDING, INC.	NTNCWS	GW	LEAD SUMMARY	0.017	Milligrams per Liter (LCR)	1/1/2014
IN2200035	BAUGO COMM. ED. SERVICE CTR-MAINTENANCE	NTNCWS	GW	LEAD SUMMARY	0.028	Milligrams per Liter (LCR)	1/1/2015
IN2020858	COUNTY LINE CH OF GOD-AUDITORIUM/SCHOOL	NTNCWS	GW	LEAD SUMMARY	0.08	Milligrams per Liter (LCR)	7/1/2014
IN5226001	FORT BRANCH WATER DEPARTMENT	CWS	GW	LEAD SUMMARY	0.0161	Milligrams per Liter (LCR)	1/1/2014

To: CLARK METTLER, MARTHA[MCLARK@idem.IN.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Spaulding, William[spaulding.william@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]
From: Hyde, Tinka
Sent: Thur 2/4/2016 11:17:39 PM
Subject: LCR Compliance and information your requested
20160204152951239.pdf

Martha – In follow-up to our regular monthly call today where we discussed among other things LCR compliance in Indiana, I wanted to share with you a copy of the OEPA Letter to Sebring (attached) that you requested. This letter requires several actions from the PWS that not only focus on compliance under the LCR but also directs the PWS to pay for additional water testing for their customers; provide bottled water/NSF certified point of use lead filters for those homes that exceed the AL, and the need to work with the County and State Health Departments to provide health screenings. This is one of several letters OEPA has sent to Sebring regarding this issue – if you or your staff would like to see more details regarding OEPA correspondence with this PWS, those documents can be found via the link below:

Here's the Ohio e-Doc site -- http://edocpub.epa.ohio.gov/publicportal/edochome.aspx

I also understand that you and your staff are currently reviewing the status of communities in your state that have exceeded the AL to ensure that they have completed needed follow-up actions. As you conduct your evaluation, additional actions to ensure public health is protected may be needed. We will be following up on this issue and plan to discuss these issues further on our R5 DW manager's call set for next week. Thanks

Tinka G. Hyde

Water Division Director

USEPA W-15J

77 W. Jackson Blvd

Chicago, IL 60604

Office: 312-886-9296

Cell: 312-735-9428

To: mholling@idem.in.gov[mholling@idem.in.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]; Kuefler, Janet[kuefler.janet@epa.gov]
From: Spaulding, William
Sent: Tue 1/12/2016 3:28:28 PM
Subject: Trying to match up the Indiana numbers

Mary:

Most of what you submitted to us on the Indiana EOY report has been reviewed and we will be responding positively. There's just a couple of items that still need resolution, primarily with respect to numbers reported. There seems to be a wide variation between what you reported for the year ending June 30 and the October 2015 data freeze, which is what we query in SDWIS to verify the information. Could your staff re look the information below sometime between now and our call on January 28? In an ideal world, it would be great if the numbers matched. Realistically, I'd like to be able to explain why there is a difference.

Bill

1.5 – Conduct and report sanitary surveys at surface water (40 C.F.R. Part 141 Subpart H) systems. A completed sanitary survey means the date a sanitary survey visit was conducted in which all eight sanitary survey components have been addressed per 142.16(b)(3)(i). If a sanitary survey takes multiple days or visits to complete, only the latest date or last visit is expected to be reported for the final	Sanitary surveys will be conducted as required and SDWIS entry done as part of an ongoing program.	Provide training, as requested.	A total of 56 surveys were completed at SW and SWP systems. Of those 56, 2 were late and they were completed within 15 days of their anniversary date.
		R5 will measure completeness of sanitary surveys within evaluation time period (three or five	According to R5 data for the period from 7/1/14 to 6/30/15 (October 2015 Data Freeze), IDEM completed 32 active SW CWS sanitary surveys. It appears that the number of sanitary surveys entered for surface water systems in SDWIS is significantly below the number IDEM reported having completed in the EOY report.

visit date that completes the eight components of a sanitary survey. Consider using sanitary surveys to evaluate and document status and progress of Source Water Protection (SWP) and Sustainable Water Infrastructure (SWI) activities (see section 4.0 of the "other activities" table and section 1.0 of the "national and regional EPA priorities" table below, respectively).	years). This national measure will be measured again in July 2013 for the period of 2010 to 2012 and in July 2014 for the period of 2011 to 2013.	Assuming that the number of systems surveyed was 32 per year, the pace is not enough to ensure that all 115 surface water CWSs will be surveyed in the required 3 year period.
2.4 – Ensure sanitary surveys are conducted periodically that, at a minimum, meet frequency requirements specified by rule. Consider using sanitary surveys to evaluate and document status and progress of SWP and SWI activities (see section 4.0 of the "other activities" table and section 1.0 of the "national and regional EPA priorities" table below, respectively).	Sanitary surveys will be conducted at required frequency as an ongoing program*. Inspection information is being entered and tracked	A total of 2204 sanitary surveys were completed. Of those, 43 were late. Some of these were due to lack of access, and letters were sent to the owners requiring entry. The majority of the systems were less than 30 days past the anniversary date of the last survey. R5 EPAs query of information in SDWIS for the period from July 1,

in SDWIS. *IDEM continues to experience turnover in the staff that perform sanitary surveys. We face challenges in training new staff and getting them up to speed to perform surveys in competent manner. We will be challenged to perform all sanitary surveys at a frequency specified in	2013 through June 30, 2015 (October 2015 data freeze) revealed that IDEM completed 3,510 sanitary surveys. 327 were not completed. This is a significant difference.

	rules.	
3.4 – Conduct and report sanitary surveys that meet requirements by 12/31/12 at CWSs and then every 3 years thereafter, and by 12/31/14 at NCWSs served by a groundwater source and then every 5 years thereafter. A completed sanitary survey means the date a sanitary survey visit was conducted in which all eight sanitary survey components have been addressed per 142.16(b)(3)(i). If a sanitary survey takes multiple days or visits to complete, only the latest date or last visit is expected to be reported for the final visit date that completes the eight components of a sanitary survey.	Sanitary surveys will be conducted at required frequency as an ongoing program.*	R5 will measure completed ground water sanitary surveys within an time period (three or five years). A total of 2204 sanitary surveys were completed. Of those, 43 were late. Some of these were due to lack of access, and letters were sent to the owners requiring entry. The majority of the systems were less than 30 days past the anniversary date of the last survey.
Consider using sanitary surveys to evaluate and document status and progress of SWP and SWI activities (see section 4.0 of the "other activities" table and section 1.0 of the "national and regional EPA priorities" table below, respectively).	Sanitary Surveys will be reported to SDWIS regularly.	R5 EPAs query of information in SDWIS for the period from July 1, 2013 through June 30, 2015 (October 2015 data freeze) found that IDEM completed 576 GW CWS sanitary surveys and did not complete 95 GW CWS sanitary surveys.
	*IDEM continues to experience turnover in the staff that perform sanitary surveys.	The same query found that IDEM had completed 2837 GW Sanitary Surveys and had not completed 214 surveys at noncommunity water systems during the same period.
	We face challenges in training new staff and getting them	This information is significantly different from the State numbers.

up to
speed
to
perform
surveys
in
competent
manner.
We
will
be
challenged
to
perform
all
sanitary
surveys
at a
frequency
specified
in
rules.

To: Bair, Rita[bair.rita@epa.gov]
From: Spaulding, William
Sent: Mon 1/11/2016 5:20:21 PM
Subject: Indiana Lab Cert EOY

Rita:

As requested this morning.

Bill

Table 1. Primacy Activities

Activity Components	State Commitment	Region 5 Activities	State/U.S. EPA Evaluation
15.0 – Laboratory Certification			
15.1 – All laboratories that produce results for compliance with SDWA in Indiana are certified by Indiana at a frequency of at least once every three years and meet all requirements of 40 C.F.R. parts 141 and 142. Certifications will be conducted according to the EPA Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition. Third parties may be used to conduct the on-site inspections of the laboratories, but the certifications	IDEM is under a Memorandum of Agreement with the Indiana State Department of Health (ISDH) to issue the Laboratory certification Program for all laboratories performing analyses for compliance with SDWA. ISDH is performing the procedures established in accordance with the Lab Certification guidance manual.	Region 5 EPA last audited the Indiana laboratory certification program in May 2013. EPA will monitor progress toward addressing comments and findings from the lab certification audit.	Ongoing activity, meeting commitment. R5 EPA has no concerns with the Indiana Laboratory Certification program at this time.

must be issued by an appropriate State official.		
It is recommended that Indiana have a process for ensuring capacity to analyze at the Principal State Laboratory or commercial labs all NPDWR parameters that are required to be sampled in the State		
Click here to go back to the table of contents (by pressing and holding the "Ctrl" key while clicking the left mouse button).		
15.2 – Maintain primacy by complying with 40 CFR 142.10, which includes:	The Lab Certification process established by ISDH ensures all NPDWR parameters can be analyzed by the State Lab (ISDH) and/or commercial labs.	Meeting commitment performed by ISDH.
142.10(b)(3)(i) – maintenance of a program to certify laboratories, managed by a State-designated laboratory officer or officers.		R5 EPA confirms that Indiana is maintaining a laboratory certification program that meets Agency criteria.
142.10(b)(4) – assure availability of State-certified		

laboratory facilities
to perform analysis
of regulated drinking
water contaminants.

2013 - 2015

EnPPA

Environmental Performance Partnership Agreement

Indiana Department of Environmental Management
U.S. Environmental Protection Agency, Region 5

www.idem.IN.gov

OCS-1001-OT • 02-13

August 21, 2015

Authorizing Signatures

The Indiana Department of Environmental Management and the U.S. Environmental Protection Agency, Region 5 2013-2015 Environmental Performance Partnership Agreement is approved on the date of the last signature received.

For the State of Indiana:

for _____ CHIEF OF STAFF _____ 6/27/13
Thomas W. Easterly, Commissioner — Date
Indiana Department of Environmental Management

For the U.S. Environmental Protection Agency, Region 5:

_____ _____ 6-27-13
Susan Hedman, Regional Administrator — Date
U.S. Environmental Protection Agency, Region 5

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Environmental Performance Partnership Agreement
between
Indiana Department of Environmental Management
and
U.S. Environmental Protection Agency, Region 5
July 1, 2013 – June 30, 2015

Purpose of the EnPPA

The Indiana Department of Environmental Management (IDEM) and the U.S. Environmental Protection Agency, Region 5 (U.S. EPA R5) have entered into their ninth (9th) Environmental Performance Partnership Agreement (EnPPA). This biennial agreement identifies program specific priorities and program specific joint priorities and objectives between the two agencies. The purpose of this agreement includes:

1. Identifying joint priorities and specific program goals.
2. Outlining key strategies for each priority and goal.
3. Describing each agency's roles and responsibilities.
4. Setting the term of this agreement from July 1, 2013, to June 30, 2015.

The EnPPA is a product of the National Environmental Performance Partnership System (NEPPS), a joint initiative of U.S. EPA Headquarters (HQ) and the Environmental Council of States (ECOS). The objective of the NEPPS initiative is to strengthen protection of public health and the environment by directing limited resources toward a state's most pressing environmental issues. The EnPPA, formed under NEPPS, is designed to provide states and U.S. EPA HQ with flexibility in achieving environmental results and to enhance accountability in realizing environmental progress. The Performance Partnership Grant (PPG) is the federal grant used to fund many of the EnPPA activities.

Scope of the EnPPA

The EnPPA primarily focuses on activities that are funded by PPG dollars. The scope of the EnPPA does not encompass the entire work load of each agency, but identifies priorities shared with U.S. EPA R5. The EnPPA is intended to complement IDEM's strategies and U.S. EPA R5's regional work plan. It is designed to be a concise, strategic document used to focus limited resources on specific outcomes. In addition to the activities described within the EnPPA, IDEM has more detailed work plans to address and complete the elements committed to within this agreement.

Grants Covered Under the EnPPA

IDEM utilizes the EnPPA to serve as the work plan for activities to be funded through the PPG. IDEM also chooses to include non-PPG federal and state grant activities in the EnPPA. The PPG structure has successfully provided IDEM more flexibility in the use of federal financial resources to address environmental issues using a multifaceted approach, and has reduced the administrative burden of having numerous specific categorical grants tied to work plans. The PPG allows for the continuance of key resource investments that have already been determined to be priority activities. All personnel costs for the 2013-2015 PPG will be provided in detail by individual program function in the budget narrative portion of the 2013-2015 PPG grant application.

The following PPG federal grants fund activities are included in the EnPPA:

1. Air Section 105
2. Public Water Supervision
3. Surface Water Section 106
4. Ground Water Section 106
5. Resource Conservation Recovery Act
6. Polychlorinated Biphenyls

The following non-PPG activities, funded by non-PPG federal grants are included in the EnPPA:

1. Solid Waste Disposal Act of 1976
2. Counter Terrorism Safe Drinking Water Act
3. Biowatch – Homeland Security Act of 2002
4. Diesel Emissions Reduction Act

The following activities funded by state monies are included in the EnPPA:

1. Title V Operating Permits
2. Dedicated Asbestos Trust Fund
3. Water Quality Permits
4. Compliance Monitoring Strategy Funds
5. Permitting and Enforcement Grant
6. Outreach Operator Training
7. Total Maximum Daily Loads Fees

Fiscal Responsibility

With the receipt of federal funds comes the responsibility to successfully track the achievements of the program and demonstrate results. To achieve the goals of transparent grants management, IDEM has incorporated standard operating procedures (SOPs), a grants management policy, and a grants data tracking system to direct the application, receipt, use and closeout of all grants the agency receives. This approach provides for easy information sharing and interaction between the awarding agencies and IDEM.

Development and Elements of the EnPPA

The development process includes the following:

a) **Draft Objectives and Activities**: An initial list of EnPPA activities is drafted by IDEM staff discussing and listing the past, present and future goals of each program area.
b) **Draft Joint Priority List:** The draft joint priority list is developed from the initial draft of objectives and activities, focusing on those priorities that are funded primarily by U.S. EPA R5 grants.
c) **Draft EnPPA**: The draft joint priorities are confirmed by IDEM senior staff and compiled into a draft EnPPA that is then shared with U.S. EPA R5 and the rest of the agency.
d) **Kickoff Meeting**: The draft EnPPA is presented to U.S. EPA R5 during a kickoff meeting held at the IDEM Northwest Regional Office, with special time dedicated to the discussion of joint priorities.

e) **Program Work Group Discussion**: Program work groups from both agencies will meet jointly to discuss work plans, goals and EnPPA priorities.
f) **Final EnPPA**: The final EnPPA is a result of shared discussions and mutual agreement between the agencies.

The elements include the following:

1. **Accountability**: The EnPPA provides a framework for accountability by clearly identifying IDEM and U.S. EPA R5 actions, roles and program area contacts.
2. **Joint Assessment**: The EnPPA requires a joint assessment of the activity work plans. The joint assessment is comprised of two activities between IDEM and U.S. EPA R5: the Joint Assessment Process Meeting and the Joint Assessment Process Conditions (JAPC) Report. The meeting and report occur at the end of the first year of an EnPPA cycle and highlight successful program achievements, identify areas that need improvement and/or additional resources, and provide a mechanism for discussions and adjustments in specific program directions or approaches.
3. **Final Report**: The reporting elements of the EnPPA will be incorporated into a formal closure report, referred to in this agreement as the Final Environmental Conditions (FEC) Report.
4. **Flexibility**: The EnPPA is viewed as a "living document" that is flexible and can be modified, upon agreement, to reflect changes in IDEM and U.S. EPA R5 needs.

Roles of IDEM and U.S. EPA R5

This agreement defines the roles that both IDEM and U.S. EPA R5 will undertake to meet the program commitments. IDEM and U.S. EPA R5 recognize the primary role of IDEM is administering federal environmental programs delegated to the state under federal law and carrying out state programs prescribed under state law. U.S. EPA R5's role in assisting IDEM includes: addressing multi-state or national issues directly, implementing programs not delegated to IDEM, and working on targeted sectors, watersheds or airsheds in conjunction with IDEM. Several activities are common to both IDEM and U.S. EPA R5, such as permitting, compliance, enforcement, monitoring and outreach.

Enforcement and Compliance Assurance

Program specific compliance and enforcement activities accomplished during the term of this EnPPA are included in the detailed branch level priorities and the state program specific plans. The following tenets serve as the foundation for IDEM and U.S. EPA R5 relationships with respect to compliance and enforcement activities:

- Utilization of the most effective application of compliance tools to encourage regulated facilities to maintain and, where possible, exceed compliance with environmental laws (e.g., compliance assistance, compliance assurance, administrative/civil enforcement and criminal prosecution).
- Utilization of joint preplanning to coordinate priorities, maximize agency resources, avoid duplication of efforts, eliminate "surprises" and institutionalize communication.
- Management for internal and/or external environmental results.

In addition to providing guidance to IDEM, U.S. EPA R5 has a continuing role in environmental protection in the State of Indiana. U.S. EPA R5 carries out its responsibilities in a variety of ways, including:

- Acting as an environmental steward, ensuring that national standards for the protection of human health and the environment are implemented, monitored and enforced consistently in all states.
- Assisting in conducting inspections and enforcement actions.
- Providing compliance and technical assistance to the state and its regulated entities.
- Providing science-based information to the state and its regulated entities.

Under this agreement, IDEM and U.S. EPA R5 retain their authorities and responsibilities to conduct enforcement and compliance assistance. Enforcement will be accomplished in the spirit of cooperation and trust. Specific federal enforcement and compliance assistance responsibilities include, but are not limited to, the following:

- Working on national priorities and regional priorities.
- Ensuring a level playing field and national consistency across state boundaries.
- Addressing interstate and international pollution (e.g., watersheds and ambient air).
- Addressing criminal violations.
- Conducting enforcement to assure compliance with federal consent decrees, consent agreements, federal interagency agreements, judgments and orders.
- Conducting state reviews in accordance with the National State Review Framework, ensuring that follow-up actions that resulted from this review are carried out in a timely and effective manner.

Quality Management Plans

IDEM's Quality Management Plan (QMP) documents IDEM's current quality system for environmental data operations. IDEM's QMP, dated September 27, 2012, was approved by U.S. EPA R5 effective February 28, 2013 and will be valid for up to five years through February 27, 2018. A revised and updated QMP must be submitted for U.S. EPA R5 review and approval not later than six months prior to expiration of the current approved QMP, or earlier if significant changes to IDEM's structure, operations, or quality system occur.

Under the approved QMP, IDEM will continue to self-approve all Quality Assurance Project Plans (QAPPs) and any other quality system documentation required by non-competitive assistance agreements and delegated programs. All QAPPs and associated quality system documentation required under competitive assistance agreements, by U.S. EPA R5 programs, and/or by federal statute to be approved by U.S. EPA R5 will be submitted as required for review and approval.

To allow U.S. EPA R5 to assess implementation of IDEM's approved QMP as well as quality activities related to assistance agreements, IDEM will submit the following information to the U.S. EPA R5 Quality Manager:

1. Electronic copies of all signed, self-approved QAPPs on a quarterly basis.
2. An annual report submitted by January 31 of each year, as required by the QMP, accompanied by a letter that confirms that the quality system documented in the approved QMP is still in effect, identifies any minor revisions incorporated in the QMP during the preceding year as well as any

that are anticipated, and lists all QAPPs that were self-approved during the preceding year.

EPA's Update: EPA concurs that IDEM is complying with their PPA commitments with respect to their QMP and quality program. Based on the relatively small number of QAPPs which they are self-approving, we have agreed that they can submit their QAPPs electronically when they submit their annual QA report versus quarterly. They submitted their most recent annual QA report in January 2015. We will also be able to offer IDEM to upload their self-approved QAPPs in the near future directly to GLNPO QA Track – this will allow them to upload QAPPs as they become available following approval.

In addition, IDEM QA staff confers with the Office of the Regional Administrator ***(ORA)*** Planning and QA Group (PQAG) on a quarterly basis to discuss and, where necessary, resolve quality- related issues. IDEM QA staff also participates with PQAG and the GLNPO QA Manager on the Great Lakes Restoration Initiative (GLRI) Quality Management monthly calls. The IDEM QA Manager has continuously demonstrated IDEM's commitment toward implementing their quality program.

Reporting

IDEM will continue to report to U.S. EPA R5 the necessary information, as required and agreed upon, including required timelines. It is recognized that reporting requirements beyond those specifically mentioned in this agreement do exist. Those requirements often relate to populating national databases or to tracking performance against priority activities identified in the internal IDEM work plans. These requirements may be embodied in a variety of existing agreements and are not reiterated in this agreement. IDEM will reference its website and other existing reports as supporting documentation for the EnPPA and the PPG. Both IDEM and U.S. EPA R5 will report through the JAPC and FEC Reports.

Reporting through the JAPC Report and the FEC Report is completed using the following status tools and a justification of that status for each performance measure:

1. **Complete**. The performance measure elements are complete.
2. **In progress**. The performance measure is progressing towards a specific goal, objective or deadline.
3. **Ongoing.** The performance measure is progressing and will be a continuing measure in the next EnPPA cycle.
4. **Incomplete**. The performance measure has not been adequately addressed.
5. **Project withdrawn**. The performance measure has been withdrawn due to stated reasons or fiscal constraints.

Along with contacts for both IDEM and U.S. EPA R5, at least one goal and objective from the FY 2011-2015 U.S. EPA HQ's Strategic Plan is assigned to each activity to demonstrate IDEM's efforts to contribute to U.S. EPA HQ's overall goals.

Additionally, the funding sources for each activity are indicated by one of the following:

1. **PPG**. Funds come from the PPG, including the state and federal match portions.

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2. **State**. Funds come from the State of Indiana and no federal funds are received to support this measure.
3. **Federal**. Funds come from a federal grant other than the PPG, and, when possible, the specific grant is listed.

If IDEM is presented with a funding shortfall for any performance measure funded by federal dollars agreed upon or negotiated in the EnPPA, both parties reserve the right to renegotiate and discuss removal of performance measures from the EnPPA.

Joint Priorities

Joint priorities represent a subset of environmental program responsibilities that IDEM and U.S. EPA R5 agree represent investment priorities.

Examples of joint priorities are as follows:

1. The program area is an important, newly developed initiative that requires the attention of both IDEM and U.S. EPA R5 to adequately develop and implement.
2. The program area is at risk of functioning inadequately, creating a significant vulnerability to the integrity of environmental protection.
3. The program area represents a long-term strategic investment opportunity.
4. The program area offers the opportunity to demonstrate innovations to promote environmental improvements or enable efficiency enhancements.

IDEM and U.S. EPA R5 have identified the following Joint Priorities:

Air Quality Joint Priorities

- Indiana Lakeshore Air Toxics Study Risk Communication - IDEM and U.S. EPA R5 will collectively work on an air toxics assessment, considering the results of the Indiana Lakeshore Air Toxics Study.

  JAPC Status: U.S. EPA R5 Update on Indiana Lakeshore Air Toxics Study: IDEM has provided to U.S. EPA R5 detailed information and draft reports for this study, and EPA has participated with IDEM in two public meetings. U.S. EPA R5 concurs with IDEM that the Air Joint Priority in the current PPA regarding the Northwest Indiana Lakeshore Air Toxics Study Risk Communication effort was completed. We commend IDEM for its continued efforts in addressing air toxics and risk reduction in Indiana.

  IDEM Response: IDEM agrees.

  FEC Status:

- Complete an American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) evaluation study.
  - *If significant overprediction is found, IDEM will work with U.S. EPA R5 to look for refinements to make to the AERMOD to improve model performance.*

  JAPC Status: EPA's Update on AERMOD Evaluation: Indiana has coordinated with EPA (primarily OAQPS) on an evaluation of AERMOD using emissions and

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monitoring data near two power plants located in southwest Indiana. A paper detailing the results of the analysis was published by IDEM in the February 2014 Journal of the Air and Waste Management Association. The results of the evaluation showed, generally, good model performance when using standard evaluation metrics consistent with the manner in which AERMOD is used for regulatory purposes. IDEM has focused on the model's poorer performance using stringent evaluation metrics that compare model results to observations paired in time and space. EPA very much appreciates IDEM's efforts in conducting the evaluation study as it provides useful information. For example, the original evaluation results for the Gibson plant showed significant over prediction (by a factor of 3) using on-site meteorological data from a 60m tower, however; the location of the meteorological tower next to a large cooling pond negatively affected the representativeness of the data. Model performance was significantly improved by limiting the meteorological inputs to the 60m level, which is least affected by the cooling pond, and model performance improved further based on using data from the nearest airport (Evansville, Indiana) located about 40 km from the plant. While there are always AERMOD model improvement activities underway, there is nothing specific being discussed regarding AERMOD's performance based on IDEM's study.

IDEM Response: In regards to the AERMOD modeling evaluation, the study looked at only one power plant, not two. We have not completed our study so it is premature for U.S. EPA R5 to comment on what the final results will show or whether the model overpredicts and by how much. We hope to have this study completed by mid-2015 and at that time we will request that U.S. EPA R5 provide feedback and comments on the full report.

FEC Status: IDEM has completed the report and submitted it to both U.S. EPA R5 and OAQPS. The report does show that AERMOD significantly over-predicts SO2 levels near the Gibson plant, especially when predicted concentrations are near the national ambient air quality standard. In the report, U.S. EPA R5 was provided with some recommendations to improve model performance and we hope they will follow-up on IDEM suggestions.

Land Quality Joint Priorities

- U.S. EPA R5 and IDEM will focus their efforts at Resource Conservation Recovery Act (RCRA) Corrective Action sites that could recontaminate remediated sections of the Grand Calumet River. Coordinate with the U.S. Army Corps of Engineers (USACE) for a timely application and decision regarding the disposal of PCBs under the Toxic Substance Control Act (TSCA) at the confined disposal facility.

  JAPC Status: EPA's Update: EPA made progress on cleanup at the following sites with potential to impact the Grand Calumet River—Ralston Street Lagoon; DuPont, US Steel. Coordination with USACE on use of the Confined Disposal Facility continues, as required.

  IDEM Response: IDEM agrees.

FEC Status: IDEM has worked with the Gary Airport in developing a storm water management plan that will protect the Grand Calumet from oil discharges from a ditch on airport property. A draft of the PCB disposal approval for the confined disposal facility has been issued and is undergoing public comment. RCRA staff have also worked with USS Lead to address erosion concerns with the closure cap.

Water Quality Joint Priorities

- Implement the schedule to convert general permits-by-rule to administratively-issued general permits.
    - IDEM will coordinate the issuance of the general permits with the General Permit rulemaking to ensure all current permittees retain coverage.
    - U.S. EPA R5 will work expeditiously to review the draft general permit language and once U.S. EPA R5 agrees, U.S. EPA R5 will issue a non-objection letter so IDEM can proceed with the public notice of the draft permit and subsequently the issuance of the final permit.

JAPC Status: EPA's Update: U.S. EPA review of draft general permits - Region 5 reviewed and provided non-objection letters on five pre-public notice general permits. The Region has received no additional general permits. IDEM failed to meet the original schedule, and the subsequent revised schedules, for completion of this effort which was intended to address significant program deficiencies identified by EPA in response to a petition to withdraw the Indiana NPDES program. IDEM has not established any new deadline for completion of this effort or interim deadlines for completion of individual tasks or milestones. IDEM continues utilizing the existing permits by rule to authorize new discharges.

IDEM Response: IDEM has kept U.S. EPA R5 informed of our progress and challenges in completion of this priority. As we have shared before, we have made significant headway in regards to general permits. The initial 5 general permits have been public noticed and 3 major stormwater general permits are drafted and undergoing internal review. There is a glitch in the rulemaking progress, which is being resolved by our legal counsel. There is also an outstanding court case that is impacting how we proceed on another permit.

FEC Status: IDEM has kept U.S. EPA R5 informed of our progress and challenges in completion of this priority. As IDEM has shared before, IDEM has made significant headway in regards to general permits. The initial 5 general permits have been public noticed and 3 major stormwater general permits are drafted and undergoing internal review. Additionally, the Environmental Rules Board recently passed changes to 327 IAC 15 that extract the provisions of the five general permits that have been public noticed. Once the rule is through the state approval process, IDEM will begin issuing those five permits administratively. There is also an outstanding court case that is impacting how IDEM proceeds on another permit.

- Finalize NPDES permit templates - IDEM and U.S. EPA R5 will work together to evaluate the Indiana NPDES permit template and revise, if necessary.

  JAPC Status: EPA's Update: Finalize NPDES permit templates. Region 5 received IDEMs responses to the Region's original comments. Initial review finds that most of the issues appear to have been addressed. The Region expects to complete its review of the IDEM responses by December 20, 2014.

  IDEM Response: *IDEM agrees.*

  FEC Status:

- Promote asset management implementation in NPDES program - IDEM and U.S. EPA R5 will work to develop and implement a strategy for the inclusion of asset management elements into Indiana's NPDES program.

  JAPC Status: EPA's Update: Promote asset management implementation. IDEM currently has been unwilling to incorporate asset management provisions into permits. Currently, only capacity, management, operations and maintenance (CMOM) requirements, which is an aspect of asset management, is included in any IDEM issued NPDES permits. Since IDEM is not amenable to inclusion of significant asset management requirements into permits, it is recommended that the item be discontinued as a joint priority.

  IDEM Response: IDEM is still considering whether, how, and what language we might add and under what circumstances we might include asset management. We concur that it be discontinued as a joint priority.

  FEC Status:

Joint Planning and Evaluation Process

IDEM and U.S. EPA R5 both agree that it is important to clearly articulate how all the components of the performance partnership agreement are evaluated. In order to evaluate this agreement and complete the previous one, both agencies will participate in a joint planning and evaluation process. The process timeline is as follows:

Actions/Deadlines

2013-2015 EnPPA begins	July 1, 2013
Final Environmental Conditions (FEC) Report *(2011-2013 EnPPA)*	September 30, 2013
U.S. EPA R5 sends comments on FEC Report *(2011-2013 EnPPA)*	December 2013
Joint Assessment Process Meeting *(if needed) (2013-2015 EnPPA)*	June 2014
Joint Assessment Process Conditions Report (JAPC) Report *(2013-2015 EnPPA)*	September 30, 2014
U.S. EPA R5 sends comments on JAPC Report *(2013-2015 EnPPA)*	December 2014
IDEM Senior Management Planning Meeting *(2015-2017 EnPPA)*	February 2015
IDEM and U.S. EPA R5 Kickoff Meeting *(2015-2017 EnPPA)*	March/April 2015
Draft EnPPA negotiated and finalized *(2015-2017 EnPPA)*	March-May 2015

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2015-2017 EnPPA begins	July 1, 2015
FEC Report *(2013-2015 EnPPA)*	September 30, 2015

The JAPC Report will:

- Provide general discussion, measurements of outcomes and analysis of the environmental and programmatic results of each element.
- Identify emerging issues, environmental trends and strategies for improvement.
- Provide flexibility in both form and substance, as warranted by program performance.
- Seek to eliminate duplicative or unnecessary efforts and reporting.
- Respond with appropriate solutions, including redirecting goals and resources.
- Encourage IDEM to find innovative program implementation alternatives, as long as the desired result is able to be measured and achieved.

The success of each outcome of this agreement relies on clear, constructive communication and the commitment of IDEM and U.S. EPA R5 to work together to implement IDEM's **Plan-Do-Check-Act** model to solve problems and improve the programs. If any differences exist on specific issues or problems, IDEM and U.S. EPA R5 should move quickly to resolve them at the staff level or elevate the issue through the dispute resolution process.

The signing of the Authorizing Signatures page for the final EnPPA will be the U.S. EPA R5 Regional Administrator and the IDEM Commissioner. The U.S. EPA R5 Deputy Regional Administrator and the IDEM Commissioner will sign a similar Authorizing Signatures page to note the finalization of the JAPC and FEC Reports. Hard copies of the documents shall be addressed to the U.S. EPA R5 Regional Administrator and mailed to the U.S. EPA R5 project officer.

Mutual Accountability

The approach from direct oversight to mutual accountability and joint assessment is a shift from the traditional approach. IDEM and U.S. EPA R5 will jointly assess each program element and determine the appropriate course change as needed. U.S. EPA R5 will review and act on new regulations in program areas that impact Indiana's authorization or where federal statute or regulation requires U.S. EPA R5 review and approval of state actions (e.g., water quality standards).

Dispute Resolution Process

IDEM and U.S. EPA R5 will use the following agreed-upon dispute resolution process to handle the conflicts that may arise during the execution of this agreement. The resolution process will be treated as an opportunity to improve joint efforts and not as an indication of failure. For the purpose of this agreement, the following definitions will apply:

- **Dispute**: Any disagreement over an issue that prevents a matter from going forward.
- **Resolution Process**: A process whereby the parties move from disagreement to agreement over an issue.

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Informal Dispute Resolution Guiding Principles

- Recognize conflict as a normal part of the state/federal relationship.
- Approach disagreement as a mutual problem requiring efforts from both agencies to resolve.
- Approach the conflict as an opportunity to improve joint efforts.
- Aim for resolution at the staff level, while keeping management informed.
- Disclose underlying assumptions, frames of reference and other driving forces.
- Clearly differentiate positions and check understanding of content and process with all appropriate or affected parties.
- Document discussions to minimize future misunderstandings.
- Pay attention to time frames and/or deadlines and escalate quickly when necessary.

Formal Conflict Resolution

There are several formalized programmatic conflict resolution procedures that may need to be invoked if the informal route has failed to resolve all issues. Examples include:

- 40 CFR 31.70 (outlines the formal grant dispute procedures).
- National Pollutant Discharge Elimination System (NPDES) conflict resolution procedure.
- Superfund program dispute resolution contract that provides neutral third parties to facilitate conflict resolution for projects accepted into the program.

For matters involving this agreement, the following procedures will be utilized:

1. **Principle**: Disputes should be resolved at the front line or staff level, when feasible.
2. **Time frame**: Disputes should be resolved as quickly as possible and within two (2) weeks of the issue arising at the staff level. If unresolved at the end of two (2) weeks, the issue should be raised to the next staff level of each agency.
3. **Escalation**: When there is no resolution of the issue and the two (2) weeks have passed, there should be comparable escalation in each agency, accompanied by a statement of the issue and a one-page issue paper. A conference call between the parties should be held as soon as possible. Disputes that need to be raised to a higher level should again be raised in comparable fashion in each agency, until resolution is obtained.

Environmental Conditions in Indiana

While objective environmental quality measurements show that Hoosiers and the environment are safer today than at any time since data has been collected, a number of environmental challenges still need to be addressed. IDEM's history shows that IDEM can continue to build on its improvements in order to protect Hoosier health and our environment. Below are steps IDEM has taken to provide a cleaner, healthier Indiana for all Hoosiers.

Air

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Indiana's air quality has improved significantly during the last 30 years. Regulatory programs aimed at emission reductions for vehicles and industry have reduced smog and dust levels throughout the state. Voluntary programs, such as ozone education and awareness, diesel retrofits and anti-idling policies, have played an important role in improving Indiana's air quality. In 2009, for the first time since air quality standards were developed in the 1970s, all Hoosiers were breathing air that met current health based standards. In 2010, U.S. EPA HQ set a new standard to further reduce exposure to lead in the air we breathe; consequently, approximately 700 out of 6.5 million Hoosiers currently may be exposed to lead concentrations considered unacceptable under the new health standard. IDEM is working to ensure that these Hoosiers again have air that meets all health based standards.

Levels of air toxic chemicals are also of concern in Indiana. IDEM has been operating an air toxics monitoring network to measure and track hazardous air pollutants since 1999. IDEM has adopted into state law the national emission standards for hazardous air pollutants, which provide industry-specific control technology requirements, so that the state can enforce these federal standards, reducing Hoosiers' exposure to harmful air toxics. IDEM works to provide compliance assistance to industries that are subject to these new standards. Risk assessment capabilities have also been developed to investigate air toxics and better understand risks at the community and state level.

IDEM's air permitting program has made tremendous progress in reducing the agency's permit backlog and issuing permits in a timely fashion. In 2009, all original backlogged permits were completed, and IDEM continued to lower the average number of days for permit completion from 141 to 127 days. U.S. EPA R5 was instrumental in accomplishing these improvements. Further efficiency improvements are planned for the air permitting program.

IDEM will continue to work to reduce pollutant levels so every Hoosier has healthy air to breathe. IDEM's Office of Air Quality (OAQ) challenges include working with U.S. EPA R5 to achieve anticipated outcomes as a result of completing the priorities listed in the OAQ section of this agreement.

Non-PPG State Activities

- Open Burning Approvals
- Asbestos Accreditation
- Rule Revisions
- Community Outreach Efforts
- Area Source National Emissions Standards Hazardous Air Pollutants (NESHAPs)
- Government Efficiency
- Air $PM_{2.5}$ Section 103-activities under CFDA 66.034
- Title V Air Permit Program
- Diesel Emission Reduction Act (DERA)
- Asbestos Hazard Emergency Response Act (AHERA) Asbestos in Schools

Land

Considerable progress has been made by IDEM's Office of Land Quality (OLQ). Regulations, compliance and enforcement programs aimed at addressing entities that treat, store, generate or dispose of contaminants have had significant impact on the

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quality of land in Indiana. IDEM encourages responsible management of regulated facilities—one example is the Indiana Clean Yard Program, which educates and encourages auto salvage facilities to go above and beyond the requirements of the law. Currently, 12 facilities have been recognized, with another 47 applications under review.

In addition to other programs, IDEM has, and will continue to, focus on corrective actions at hazardous waste facilities and leaking underground storage tank sites. Considerable resources have been focused on obtaining and addressing the environmental indicators established through the Government Performance and Results Act. In addition to corrective actions, IDEM is working to establish preemptive processes. New rules have been implemented to help strengthen the protection of underground storage tanks, and a free training program for owners and operators is currently in place.

There are currently 1,927 animal operations permitted in Indiana and inspected on a routine basis. These include 587 concentrated animal feeding operations (CAFOs) and 1,340 smaller feeding operations called confined feeding operations (CFOs). Indiana's standards for CAFOs are stricter than federal regulations. While the federal regulations for CAFOs do not contain standards for the construction of manure storage facilities, Indiana has had construction standards and requirements in place since the mid-1970s. Additionally, though not required by U.S. EPA R5, IDEM also regulates CFOs under a state rule. IDEM's CFO program includes operational requirements for the land application of manure.

Indiana uses six (6) main programs to ensure the cleanup of contamination. The Emergency Response program which continues to receive 2,000 to 3,000 calls annually, addresses contamination from spills that are often completely cleaned up during the initial response. If the contamination cannot be cleaned up through emergency response action, the responsibility is transferred to one of IDEM's other cleanup programs. IDEM works through the federal Superfund Program, and its state counterpart, the State Cleanup Program. Hazardous waste cleanup falls under the state's Resource Conservation and Recovery Act Program, which is regulated under federal law. The Underground Storage Tank Program also deals with contamination from petroleum. Indiana also has a Voluntary Remediation Program that allows responsible parties to clean up contaminated properties under IDEM supervision. In the last several years, hundreds of contaminated sites have been addressed through the diligent work of IDEM staff.

A major priority for IDEM has been work on the Grand Calumet River and Indiana Harbor Shipping Canal. IDEM provides technical assistance and permit review for the USACE Federal navigational dredging project in the Indiana Harbor Shipping Canal. Dredging commenced in September 2012, and will continue for the next thirty (30) years. IDEM will continue to assist the USACE with all applicable permitting and technical issues throughout the project. IDEM will also continue to fulfill its role as beneficiary to settlement trust funds from the 1990 bankruptcy of the former East Chicago, Indiana (ECI) Facility in East Chicago. These funds are administered by the East Chicago Waterway Management District for the cleanup of the ECI properties and long term monitoring and maintenance of the on-site CDF. IDEM reviews and approves the use of the funds.

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Implementation of Great Lakes Legacy Act projects in the West Branch of the Grand Calumet River have resulted in the removal of approximately 289,000 cubic yards of contaminated sediment from 2.4 miles of river and 32 acres of riverine wetlands. Following dredging, a reactive cap was added, sealing off remaining contaminants. These projects, completed in 2011 and 2012, are the first of several in the Area of Concern. Construction of a project in the East Branch of the Grand Calumet River, started in February 2013, will restore 1.9 miles of river bottom and 60 acres of adjacent wetlands through dredging and capping. A third project near the Indiana/Illinois state line is currently in design, and construction is anticipated to begin in early 2014. This project will result in dredging of approximately 12,000 cubic yards of sediments and capping of about 1,500 feet of the West Branch of the Grand Calumet River. IDEM is also working with the Great Lakes National Program Office to identify local sponsors and potential costs for dredging and capping additional areas of the Grand Calumet River and Indiana Harbor Shipping Canal.

Along with educating and providing technical assistance to businesses and communities, IDEM's work to issue permits, conduct inspections, respond to accidental spills and oversee cleanups continues to foster marked improvement in the state's land quality each year.

Additionally, significant resources will be focused to implement the Energy Policy Act of 2005. The OLQ staff is committed to continuous improvement through adaptation and development of rules and policies, including the reorganization of roles within the department to further refine protection and as a response to new technologies. Through OLQ's compliance assistance efforts, the expected outcomes include providing the regulated communities with a comprehensive understanding of rules, regulations and expectations, thus improving their ability to comply with applicable requirements.

Non-PPG State Activities

- Solid waste processing facilities
- Solid waste disposal sites
- Waste tire processing and storage sites
- Waste tire transporters
- Vegetative compost sites
- Septage haulers and land application sites
- Confined feeding operations (CFOs) that are smaller than CAFOs
- Auto salvage sites
- Industrial waste generators
- Open dump complaints
- Voluntary Remediation Program and State Cleanup
- Underground Storage Tank Excess Liability Trust Fund Program
- Methamphetamine Cleanup
- Twenty-four/Seven Emergency Response Program

Water

Indiana surface waters today are decidedly cleaner than they were decades ago.

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Indiana's probabilistic surface water monitoring strategy has allowed a comprehensive, basin-scale assessment of all Indiana rivers and streams. IDEM has assessed approximately 28,790 stream miles to date based on the 2012 Integrated Report and using single category reporting in which each waterbody is placed in a single category regardless of the number of designated uses for which it has been assessed. These miles represent more than 63 percent of the streams in Indiana. IDEM has site-specifically assessed approximately 49.2 percent of Indiana's stream miles for recreational uses and has found that 23 percent (4,776 miles) of those assessed are fully supporting of full body contact recreational uses. Approximately 57.3 percent of Indiana's stream miles have been assessed for aquatic life use support, and 72.1 percent of these (17,461 miles) were found to be fully supporting of healthy aquatic communities (macroinvertebrates and/or fish).

IDEM continues to identify general causes and sources of surface water impairments within the state. Many of the specific outputs listed within the water work plan section of this agreement are intended to focus on and address water impairments. The proposed 2012 303(d) List of Impaired Waters, currently under review with U.S. EPA R5, identifies waterbodies not meeting Indiana's water quality standards. IDEM continues to develop total maximum daily load (TMDL) calculations, as required by Section 303(d) of the federal Clean Water Act, to identify sources contributing to the impairment of Indiana's surface water. IDEM continues to target impaired waterbodies for water quality improvement projects and provides support for those projects that will reduce nonpoint source pollution through utilization of the 319 grant fund.

Watershed management has become the heart of successful water quality restoration and protection. Coordinated efforts between IDEM and local communities and targeted use of 319 grant funds have helped launch projects estimated to prevent over 95,200,000 pounds of sediment, 94,000 pounds of phosphorus and 142,000 pounds of nitrogen from entering rivers and streams annually. Assessments of segments of Bull Run, Stott's Creek, Mill Creek and Metcalf Ditch show quality has improved significantly, and previously polluted portions of these streams now meet water quality standards. Additionally, the creation of the comprehensive website, at www.watersheds.IN.gov, continues to provide resources for Hoosiers to learn how they can improve water quality in the state.

IDEM recognizes the need to timely issue National Pollutant Discharge Elimination System (NPDES) permits and maintain adequate compliance and enforcement of those permits to reduce water impairments resulting from point sources. IDEM has essentially eliminated its permit backlog. Additionally, IDEM has made significant progress on the initiative to have long term control plans (LTCPs) in place to reduce the incidence of combined sewer overflows (CSOs), which also contribute to the impairment of Indiana's waters. Currently, 106 Indiana CSO communities have approved plans to develop or implement a LTCP, and are under timelines detailed in enforceable documents.

Reduction of impairments is critical for the protection of Indiana's public water supply systems (PWSSs). IDEM has assessed most of Indiana's PWSSs to inventory potential contaminants and determine water system susceptibility to contamination. IDEM works with PWSSs to help them understand the assessment information and develop and implement plans to protect drinking water sources. Additionally, IDEM utilizes regulatory, compliance and enforcement tools to ensure the safety of Indiana's public

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drinking water supplies. Currently, more than 99 percent of the population served by community systems receives drinking water that meets all state and federal requirements.

IDEM's Office of Water Quality (OWQ) is committed to meeting its obligations outlined within this agreement. OWQ is working to identify additional resources necessary to meet those commitments, including trade-offs that may result in discussions during the execution of this agreement.

Non-PPG State Activities

- Overall program leadership, operational and administrative support
- State construction permits for wastewater
- Data support, QA/QC and GIS
- Operator assistance at wastewater treatment plants
- Wastewater operator certification
- Ground water programs
- State construction permits for water, capacity development for drinking water systems and drinking water operator certification
- 319 Nonpoint Source (NPS) Reduction Grant Program and 205(j) Water Quality Planning Grant Program
- State Revolving Fund Loan Program

Outlook

Indiana, in partnership with U.S. EPA R5 and other stakeholders, can be proud of its environmental record, but must be ready for continuing challenges. This agreement, addressing near-term focus points and program specific elements and corresponding work plans, is designed to outline those commitments. The outcomes are intended to improve environmental conditions in the State of Indiana and provide a mechanism to track the improvement.

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Work Plans for Joint Priorities and Program Goals and Objectives

Office of Air Quality (OAQ)

While U.S. EPA R5 has established goals for each objective, the tasks covered do not always encompass all phases of the goal. For example, many objectives are listed under the goal "Taking action on climate change and improving air quality." In many cases the actual tasks do not cover any activities related to climate change.

Title V Operating Permits (TVOPs) and Prevention of Deterioration (PSD)/Nonattainment New Source	**A-1**
IDEM Contact(s): Matt Stuckey	U.S. EPA R5 Contact(s): Genevieve Damico Due Date: Ongoing
U.S. EPA R5 Role: Provide program assistance.	
Goal 1:	Taking action on climate change and improving air quality.
Objective 1.1:	Address climate change.
Objective 1.2:	Improve air quality.
Funding:	State fees for Title V; and U.S. EPA R5 with state match for PSD/NA NSR programs.

Issue all TVOPs in a timely manner consistent with federal and state requirements:

a) Track progress of all TVOP applications received by IDEM.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

FEC Status: Ongoing

b) Timely issuance of all TVOPs – IDEM will ensure progress is made on all pending initial TVOP applications.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

FEC Status: Ongoing

c) Timely issuance of all TVOP renewals – IDEM will ensure progress is made on all pending TVOP renewal applications so that these renewals are issued prior to the expiration of their current TVOP, or so that late applications are issued within nine (9) months of receipt of the application.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

FEC Status: Ongoing

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d) Provide quarterly updates to the Reasonably Available Control Technology/Best Available Control Technology/Lowest Achievable Emission Rate (RACT/BACT/LAER) Clearinghouse for each PSD/NA NSR permit issued.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

FEC Status: Ongoing

e) Provide semi-annual updates to the Title V Operating Permits System (TOPS) database.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

FEC Status: Ongoing

f) IDEM will identify issues and U.S. EPA R5 will provide program assistance for TVOPs, PSD/NA NSR permits, and synthetic minor permits as necessary.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

FEC Status: Ongoing

Compliance Monitoring Strategy (CMS) for Title V and Federally Enforceable State Operating Permit (FESOP)		**A-2**
IDEM Contact(s): Phil Perry	U.S. EPA R5 Contact(s): Nathan Frank, Debra Flowers, and Rochelle Marceillars	Due Date: September 30, 2015
U.S. EPA R5 Role: Review Clean Air Act Stationary Source Compliance Monitoring Strategy (CMS) Policy and work closely with OAQ staff to ensure any issues are satisfactorily addressed.		
Goal 5:	Enforcing environmental laws.	
Objective 5.1:	Enforce environmental laws.	
Funding:	Dedicated Title V Fund	

Develop and implement the Compliance Monitoring Strategy (CMS) plan for Title V and Federally Enforceable State Operating Permit (FESOP) source inspections and FESOP source and compliance evaluations consistent with the September 2010 Clean Air Act (CAA) Stationary Source Compliance Monitoring Strategy.

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a) Submit CMS plan for review and negotiation with U.S. EPA R5 by August 31, 2013 for FY14, and August 31, 2014 for FY15. Implementation of the final CMS plan for FY 14 will begin on October 1, 2013, and for FY15 on October 1, 2014. The CMS plan will meet the 2010 CAA Stationary Source CMS policy. The CMS source category and frequency flags in the Air Facility System (AFS) will be completed by IDEM for the Title V major and synthetic minor with the potential to emit at or above 80% major source threshold (SM80) source universe by November 30, 2013, for FY14 and November 30, 2014, for FY15.

JAPC Status: In progress

The FY14 CMS Plan was submitted to U.S. EPA R5 on August 30, 2013. The FY15 CMS Plan is not due until October 1, 2014.

FEC Status: Complete

The FY14 CMS Plan was submitted to U.S. EPA R5 on August 30, 2013 to meet the 2010 CAA Stationary Source CMS policy. The FY15 CMS Plan was submitted to U.S. EPA R5 on August 29, 2014 to meet the 2014 CAA Stationary Source CMS policy. The CMS source category and frequency flags in the Air Facility System (AFS) were completed by IDEM for the Title V major and synthetic minor with the potential to emit at or above 80% major source threshold (SM80) source universe by November 30, 2013 for FY14 and November 30, 2014 for FY15.

b) U.S. EPA R5 shall submit a written response to IDEM concerning the CMS plan by December 31, 2013, for FY14 and December 31, 2014, for FY15.

JAPC Status: In progress

U.S. EPA R5 accepted the FY14 CMS Plan on November 19, 2013. The FY15 CMS Plan is not due until October 1, 2014.

FEC Status: Complete

U.S. EPA R5 accepted the FY14 CMS Plan on November 19, 2013 and the FY15 CMS Plan on February 10, 2015.

c) Implement the CMS plan for full compliance evaluations:

- Conduct full compliance evaluations of Part 70 sources once every two (2) years, except mega-sites, gas compressor stations and gas turbines facilities.
- Mega-sites will be identified in the CMS plan and a full compliance evaluation of those sites will be conducted once every three (3) years.
- Gas compressor stations and gas turbines facilities will be identified in the CMS plan and full compliance evaluations of those sites will be conducted once every five (5) years.

- Conduct full compliance evaluations of all FESOP sources once every five (5) years, except as noted in the CMS.
- In those years where full compliance evaluations are not conducted, partial compliance evaluations will be completed, including review of annual compliance certifications, review of quarterly deviation reports, review of emergency reports and review of the various emissions reports.

JAPC Status: In Progress

The Air Compliance and Enforcement Branch conducted 156 full compliance evaluations at Part 70 sources and 70 full compliance evaluations at FESOP sources in FY14 (October 1, 2013 - March 30, 2014). The Air Compliance and Enforcement Branch continues to conduct full compliance evaluations on Part 70 and FESOP sources beyond the CMS. These full compliance evaluations are reported in the AFS database on a monthly basis. Mega sites and gas compressor station full compliance evaluations are conducted as part of Part 70 and FESOP sources noted above.

The Air Compliance and Enforcement Branch and Regional Offices have reviewed 157 of the 296 Part 70 annual compliance certifications (ACCs) received in FY14 (October 1, 2013 - March 30, 2014) and reviewed 164 of the 288 FESOP ACCs for the same period. It should be noted that ACCs are submitted and reviewed on a calendar year basis so there will always be a lag reporting completed ACC reviews for the EnPPA. The branch continues to review 2013 Part 70 and FESOP ACCs received in calendar year 2014.

The branch continues to conduct partial compliance evaluations including review of stack tests, continuous opacity and emissions data, quarterly deviation reports, review of emergency reports, and review of the various emissions reports.

FEC Status: In progress

The Air Compliance and Enforcement Branch completed the Part 70 source and FESOP source full compliance evaluations as required by the FY14 CMS. The Air Compliance and Enforcement Branch continue to conduct full compliance evaluations on Part 70 and FESOP source full compliance evaluations for the FY15 CMS. The branch is on target to complete the full compliance evaluations for the FY15 CMS. The Air Compliance and Enforcement Branch continue to conduct full compliance evaluations for sources beyond the CMS. These full compliance evaluations are reported in the ICIS-Air database on a monthly basis. Mega sites, gas compressor stations, and gas turbine full compliance evaluations are conducted as part of Part 70 and FESOP sources full and partial compliance evaluations.

The Air Compliance and Enforcement Branch have completed review of the Part 70 ACCs received in FY14. The Air Compliance and Enforcement Branch and Regional Offices continue to review the Part 70 ACCs received in FY15. It should be noted

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that ACCs are submitted and reviewed on a calendar year basis so there will be a difference in reporting completed ACC reviews for the fiscal year under the EnPPA.

The branch continues to conduct partial compliance evaluations including review of stack tests, continuous opacity and emissions data, quarterly deviation reports, review of emergency reports, and review of the various emissions reports. These stack tests are reported in the ICIS-Air database on a monthly basis.

d) Submit compliance and enforcement information to meet U.S. EPA HQ's Minimum Data Requirements (MDRs) within the 60-day standard required for reporting by the 2012 AFS Information Collection Request (ICR), 1998 Timely and Appropriate Enforcement Response to High Priority Violations (HPVs) policy, and the 1986 Guidance on Federal Reportable Violations (FRVs) for stationary sources. Ensure data is complete, accurate, and timely and that data is consistent with U.S. EPA HQ's policies and guidances.

JAPC Status: Ongoing

The Air Compliance and Enforcement Branch continues to upload data from ACES to AFS on a monthly basis exceeding the 60 day standard. The branch also directly inputs HPVs (and non-HPV cases of regulated facilities) into AFS as HPVs/enforcement are identified or updated. The Air Compliance and Enforcement Branch continues to work with U.S. EPA R5 to ensure the data is complete, accurate, and timely. Issues are discussed during the monthly U.S. EPA R5/IDEM Compliance and Enforcement and Data Management conference calls and through HPV e-mails and calls. The Air Compliance and Enforcement Branch's Enforcement Data Steward reviews all current and recently closed enforcement cases on a monthly basis. Updates are made to IDEM's enforcement database (METS). AFS is manually updated monthly with all required MDR entries based on data from METS.

FEC Status: Ongoing

The Air Compliance and Enforcement Branch continue to upload data from ACES to ICIS-Air on a monthly basis exceeding the 60 day standard. The branch also directly inputs HPVs (and non-HPV cases of regulated facilities) into ICIS-Air as HPVs/enforcement are identified or updated. The Air Compliance and Enforcement Branch continue to work with U.S. EPA R5 to ensure the data is complete, accurate, and timely. Issues are discussed during the monthly U.S. EPA R5/IDEM Compliance and Enforcement and Data Management conference calls and through HPV e-mails and calls. The Air Compliance and Enforcement Branch's Enforcement Data Steward reviews all current and recently closed enforcement cases on a monthly basis. Updates are made to IDEM's enforcement database (METS). ICIS-Air is manually updated monthly with all required MDR entries based on data from METS.

e) Respond to complaints, including those referred from U.S. EPA R5. Inspections are conducted where necessary.

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JAPC Status: Ongoing

The Air Compliance and Enforcement Branch responded to 214 complaints in FY14 (October 1, 2013 - March 30, 2014). The branch and Regional Offices continue to respond to all complaints including those referred from U.S. EPA R5.

FEC Status: Ongoing

The Air Compliance and Enforcement Branch responded to 621 complaints in FY14 and responded to 440 complaints so far in FY15 (October 1, 2013 – July 31, 2015). The branch and Regional Offices continue to respond to all complaints including those referred from U.S. EPA R5.

f) U.S. EPA R5 will provide compliance and enforcement support and guidance and make training available to IDEM staff, as needed.

JAPC Status: Ongoing

The Air Compliance and Enforcement Branch and U.S. EPA R5 hold monthly Compliance, Enforcement, and Data Management conference calls. During the conference calls compliance issues, enforcement issues, support, and guidance are all topics that are part of the discussions.

FEC Status: Ongoing

The Air Compliance and Enforcement Branch and U.S. EPA R5 hold monthly Compliance, Enforcement, and Data Management conference calls. Compliance issues, enforcement issues, support, and guidance are all topics that are part of the discussions during the monthly conference calls.

g) Prepare enforcement cases according to IDEM's Compliance and Enforcement Response Nonrule Policy (CERP) and guidance, and U.S. EPA HQ's Timely and Appropriate Enforcement Response to HPV Policy. IDEM will review findings and prepare enforcement cases according to the HPV Policy, IDEM CERP and guidance, and the IDEM Civil Penalty Nonrule Policy for noncompliance with statutes, rules or permits.

JAPC Status: Ongoing

The Air Compliance and Enforcement Branch continue to review and follow IDEM's guidance and U.S. EPA R5's Timely and Appropriate Enforcement Response to High Priority Violations (HPV) Policy to prepare enforcement cases and follow-up, as appropriate. Violations are referred for enforcement consistent with the CERP and HPV Policy. A total of 54 Notice of Violations were signed during FY14 (October 1, 2013 - March 30, 2014) and a total of 51 Agreed Orders were adopted during the same period. The branch continues to review findings and prepare enforcement cases according to the HPV Policy and the Civil Penalty Policy. IDEM has provided input to U.S. EPA R5 on the revised HPV Policy.

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FEC Status: Ongoing

The Air Compliance and Enforcement Branch continue to review and follow IDEM's guidance and U.S. EPA's August 25, 2014 Timely and Appropriate Enforcement Response to High Priority Violations (HPV) Policy to prepare enforcement cases and follow-up, as appropriate. Violations are referred for enforcement consistent with the CERP and HPV Policy. The branch continues to review findings and prepare enforcement cases according to the HPV Policy and the Civil Penalty Policy.

h) Participate in enforcement/settlement negotiation conferences and follow-up on the requirements of IDEM's Agreed and/or Commissioner's Order.

JAPC Status: Ongoing

Compliance and enforcement managers in the branch continue to conduct pre-Notice of Violation meetings, settlement conferences, and follow-up on Agreed Orders. A total of 17 pre-Notice of Violation meetings have been held and a total of 6 settlement conferences have been held for FY14 (October 1, 2013 - March 30, 2014).

FEC Status: Ongoing

Compliance and enforcement managers in the branch continue to conduct pre-Notice of Violation meetings, settlement conferences, and follow-up on Agreed Orders. A total of 27 pre-Notice of Violation meetings and a total of 23 settlement conferences were held in FY14. A total of 31 pre-Notice of Violation meetings and a total of 26 settlement conferences have been held so far in FY15 (October 1, 2014 – July 31, 2015).

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i) U.S. EPA R5 and IDEM will conduct monthly conference calls to discuss planning, program progress, compliance and enforcement issues, HPVs, data management and reporting, and efforts to resolve violations. For state lead HPV cases unaddressed over the 270 day time frame, U.S. EPA R5 and IDEM will determine which agency is best suited to take or maintain the lead for the case and what will be the best method of returning the source back into compliance. Any data issues, including resolutions, will also be discussed on these monthly conference calls.

JAPC Status: Ongoing

The Air Compliance and Enforcement Branch and U.S. EPA R5 hold monthly Compliance, Enforcement, and Data Management conference calls. Priorities, compliance and enforcement issues, complaints, HPV cases, data management and reporting issues are discussed. Both IDEM and U.S. EPA R5 participated in the March 18, 2014 and April 29, 2014 joint planning calls/webinar.

FEC Status: Ongoing

The Air Compliance and Enforcement Branch and U.S. EPA R5 hold monthly Compliance, Enforcement, and Data Management conference calls. Priorities, compliance and enforcement issues, complaints, HPV cases, data management and reporting issues are discussed. IDEM and U.S. EPA R5 continue to monitor cases that are not addressed within 180 days consistent with the August 25, 2014 Timely and Appropriate Enforcement Response to High Priority Violations (HPV) Policy. Both IDEM and U.S. EPA R5 participated in the March 18, 2014, April 29, 2014, and June 17, 2015 joint planning calls/video conferences.

j) IDEM will track and update U.S. EPA R5 quarterly on the recommendations made from the Round 3 State Review Framework until completion.

JAPC Status: Ongoing

IDEM and U.S. EPA R5 continue to discuss and track progress of the findings and recommendations during the monthly calls.

FEC Status: Ongoing

IDEM and U.S. EPA R5 continue to discuss and track progress of the findings and recommendations during the monthly calls.

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k) IDEM will provide U.S. EPA R5 with quarterly updates of the status code and explanation for state lead HPV sources listed on U.S. EPA HQ's Watch List. The Watch List ensures timely and appropriate response to significant noncompliers or longstanding violators through better data analysis and routine discussions between U.S. EPA HQ's (OECA), U.S. EPA R5, and/or IDEM.

JAPC Status: Ongoing

U.S. EPA R5 HQ's Watch List was suspended in September 2013. Prior to the suspension of the Watch List, the U.S. EPA R5 Data Steward was sending a copy of the quarterly Watch List when issued. The Compliance and Enforcement Branch reviewed the state lead cases and submitted status codes and descriptions to the U.S. EPA R5 Data Steward within 14 days. IDEM and U.S. EPA R5 continue to monitor cases on U.S. EPA R5's IN HPVs Unaddressed 270 Days or More report. The Air Compliance and Enforcement Branch and U.S. EPA R5 discuss unaddressed HPVs that are greater than 270 days during each monthly U.S. EPA R5/IDEM Compliance, Enforcement, and Data Management conference call.

FEC Status: Project withdrawn

U.S. EPA R5 HQ's Watch List was suspended in September 2013. IDEM and U.S. EPA R5 continue to monitor cases that are not addressed within 180 days consistent with the August 25, 2014 Timely and Appropriate Enforcement Response to High Priority Violations (HPV) Policy. The Air Compliance and Enforcement Branch and U.S. EPA R5 discuss unaddressed HPVs at each monthly U.S. EPA R5/IDEM Compliance, Enforcement, and Data Management conference call.

l) U.S. EPA R5 will review CAA Stationary Source CMS Policy and work closely with OAQ staff to ensure any issues are satisfactorily addressed.

JAPC Status: Ongoing

U.S. EPA R5 has provided copies of the CMS, HPV, and FRV revised policies to IDEM for review and comment. IDEM has provided comments on all three policies.

FEC Status: Ongoing

U.S. EPA R5 provided final copies of the CMS, HPV, and FRV revised policies to IDEM. The Air Compliance and Enforcement Branch and U.S. EPA R5 continue to discuss implementation of these policies at each monthly U.S. EPA R5/IDEM Compliance, Enforcement, and Data Management conference call. _

Compliance Monitoring Strategy (CMS) for Asbestos		**A-3**
IDEM Contact(s): Phil Perry & Dan Stamatkin	U.S. EPA R5 Contact(s): Nathan Frank, Debra Flowers, and Rochelle Marceillars	Due Date: September 30, 2015
U.S. EPA R5 Role: Provide program assistance as requested.		
Goal 5:	Enforcing environmental laws.	
Objective 5.1:	Enforce environmental laws.	

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Funding:	Dedicated – Asbestos Trust

Implement a compliance and enforcement program for asbestos inspections and compliance evaluation of asbestos notifications, licensed asbestos contractors, and stationary asbestos sources.

a) Submit an annual report to U.S. EPA R5 on asbestos demolition/renovation notifications submitted by the owner/operator, compliance evaluations conducted, and enforcement actions initiated by IDEM. The report will be submitted by October 31, 2013, for FY13 and by October 31, 2014, for FY14. The report will be submitted alphabetically by owner/operator and include the number of asbestos demolition/renovation notifications received, warning letters, Notice of Violations (NOVs), Referrals, Agreed Orders, State Court Orders/Decrees, and penalties assessed.

JAPC Status: In progress

IDEM's OAQ Compliance and Enforcement Branch and the Operations Branch continue to implement the asbestos compliance and enforcement program and the asbestos licensing program. The Compliance and Enforcement Branch continues to review asbestos demolition/renovation notifications, conduct inspections, respond to asbestos related complaints, and take appropriate enforcement actions to address noncompliance. The Operations Branch continues to review training course providers, asbestos training, and asbestos license applications. The Operations Branch in coordination with the Indiana Professional Licensing Agency created the Indiana Online Licensing system so that individuals and contractors can obtain their licenses online. The Asbestos Annual Report FY13 report was submitted to U.S. EPA R5 on October 25, 2013. The FY14 report is not due until October 31, 2014.

FEC Status: Complete

The Asbestos Annual Report for FY13 report was submitted to U.S. EPA R5 on October 25, 2013. The Asbestos Annual Report for FY14 was submitted to U.S. EPA R5 on October 31, 2014.

Conduct Ambient Air Quality Monitoring Throughout Indiana		**A-4**
IDEM Contact(s): Richard Zeiler & Steve Lengerich	U.S. EPA R5 Contact(s): Michael Compher	Due Date: Ongoing.
U.S. EPA R5 Role: Regulatory advice, funding and review.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

a) Operate monitors for National Ambient Air Quality Standards (NAAQS) pollutants and Photochemical Assessment Monitoring Stations (PAMS) according to 40 CFR 58, approved monitoring plans, and the quality management plan/quality assurance project plans (QMP/QAPPS).

JAPC Status: Ongoing

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The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: This is an ongoing commitment. IDEM performs this function well achieving high completeness rates and good QA results.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

b) Submit annual network plan required by 40 CFR 58.10 by July 1 of the prior year, unless another schedule has been approved by U.S. EPA R5.

JAPC Status: Complete

The completed activities are sufficiently described above.

EPA Comment: IDEM's annual network plan was received by July, 2014. It was reviewed and approved by U.S. EPA R5 in October 2014.

FEC Status: Complete

The completed activities are sufficiently described above.

c) Improve certification lab operation by the continued use of the most current lab standards, and continued use of state-of-the-art techniques to produce the most accurate certifications possible.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: IDEM generally does well in this area. IDEM could improve work in traceability. EPA, ARD will follow up with IDEM's Office of Air Quality directly to provide detailed comments and to explain our reporting expectations. EPA accepts this report. However, we expect more explanation and specific details to be included in the final report regarding this commitment.

FEC Status: Ongoing

The ongoing activities are being conducted and new sources of instrument certifications are being explored. The Roots meter and the Hg barometer will be certified by the Indiana Standards Lab while the MolBloc flow rate standard will be returned to the manufacturer for recertification. A new certified standard has been secured for the primary temperature standard. NIST traceable standards are used for all gaseous pollutants except ozone which is certified by U.S. EPA R5.

d) Investigate new analytical methods of testing through new equipment.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: EPA, ARD will follow up with IDEM's Office of Air Quality directly to provide detailed comments and to explain our reporting expectations. EPA accepts this report however; we expect more explanation and specific details to be included in the final report regarding this commitment.

FEC Status: Ongoing

The ongoing activities are being conducted as well as new instrument evaluations on API 602, Grimm, and Dust Track continuous particulate instruments and 2B Tech ozone analyzers.

e) Ensure adequate, independent QA audits of NAAQS monitors.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: IDEM participates in the National Performance Audit Program for criteria pollutants.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

f) Conduct speciation monitoring for $PM_{2.5}$ and submit data to U.S. EPA HQ's Air Quality System (AQS) database.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: In 2014, IDEM operated 6 speciation sites and 1 speciation monitor at their NCore site. Due to a national assessment of the CSN, IDEM is operating 1 less speciation monitor in in 2015.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

g) Conduct Aethalometer™ monitoring.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: IDEM collects black carbon and UV carbon at 4 sites. They meet the 75% completeness criteria at 3 sites. One site does not have Q4 data submitted but this is not due until April 1, 2015.

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FEC Status: Ongoing

The ongoing activities are being conducted. All black carbon sites are meeting the 75% completeness criteria.

h) Operate, evaluate and improve monitoring procedures and data reporting of the Photochemical Analytical Monitoring Strategy (PAMS) monitoring in Northwest Indiana.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: IDEM operates and reports PAMS data along with their NAAQS network. EPA needs more information to evaluate whether IDEM is evaluating and improving monitoring procedures. EPA, ARD will follow up with IDEM's Office of Air Quality directly to provide detailed comments and to explain our reporting expectations. EPA accepts this report however; we expect more explanation and specific details to be included in the final report regarding this commitment.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above. The PAMS site GC was rebuilt completely during this grant period and the cryogenic pre-concentrator will be replaced during the next grant period.

i) Continue to use the Interagency Monitoring of Protected Visual Environments (IMPROVE)-style carbon samplers at $PM_{2.5}$ speciation trends and supplemental sites.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: EPA, ARD will follow up with IDEM's Office of Air Quality directly to provide detailed comments and to explain our reporting expectations. EPA accepts this report however; we expect more explanation and specific details to be included in the final report regarding this commitment.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above. All sites are meeting the 75% completeness criteria.

j) Continue to operate the source and population-oriented monitors for the revised Lead (Pb) standard.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: IDEM continues to do this along with the other NAAQS monitoring.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

k) Continue to operate NCore site in Indianapolis.

JAPC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: IDEM continues to do this along with the other NAAQS monitoring with good results.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

l) Assist industry with the siting of any new NAAQS stations, as required for SO_2 source-oriented monitoring.

JAPC Status: In progress

The in progress activities are being conducted as outlined in the goal above.

EPA Comment: IDEM requires industry to collect SO2 data using the same requirements as their own NAAQS network. The data is submitted with IDEM's data and certified accurate each year. The completeness and QA results are good. Some approval dates for industry QAPPs for SO2 collections are not being submitted. If industries operate under their own QAPPs, IDEM should ensure they review those under similar schedules to IDEM and ensure the approval dates are properly reported to AQS.

FEC Status: In progress

The industrial SO2 monitoring networks have updated and approved QAPP's in place or have adapted the IDEM QA manual as an approvable QAPP. All instruments used for calibrations and audits for industrial and/or consulting firms are certified by the IDEM QA Certification Lab.

m) Site new NAAQS stations, as required, for near-roadway NO_2 and CO monitoring. Stations to be operational by January 1, 2014.

JAPC Status: Complete

The completed activities are sufficiently described above.

EPA Comment: IDEM's Phase I site began operation on February 7, 2014.

FEC Status: Complete

The completed activities are sufficiently described above.

n) U.S. EPA R5 will provide regulatory advice, funding and review.

JAPC Status: Ongoing

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The ongoing activities are being conducted as outlined in the goal above.

EPA Comment: EPA provides this information to IDEM through regularly scheduled calls, and as questions or issues arise.

FEC Status: Ongoing

The ongoing activities are being conducted as outlined in the goal above.

Air Toxics Monitoring, Risk Analysis and Reduction		**A-5**
IDEM Contact(s): Richard Zeiler & Steve Lengerich	U.S. EPA R5 Contact(s): Loretta Lehrman, Motria Caudill & Carl Nash	Due Date: Ongoing.
U.S. EPA R5 Role: Risk assessment and data analysis advice, special grant funding and review. Collaborate with IDEM as appropriate to evaluate and mitigate localized air toxics.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

Conduct effective non-criteria pollutant monitoring.

a) Maintain Indiana Air Toxic Monitoring Program.

JAPC Status: Ongoing

IDEM continues to operate nine air toxic monitors that are scattered throughout the State of Indiana and these toxic monitor's purpose is to collect air toxic data.

EPA Comment: IDEM voluntarily collects toxics data at multiple sites. There are no completeness requirements for this. They also voluntarily participate in the NATTS performance tests and regional round-robin with passing results.

FEC Status: Ongoing

IDEM continues to operate nine air toxic monitors that are scattered throughout the State of Indiana and these toxic monitor's purpose is to collect air toxic data.

b) U.S. EPA R5 will provide risk assessment and data analysis advice, offer special grant funding and review, and collaborate with IDEM, as appropriate, to evaluate and mitigate localized air toxics.

JAPC Status: Ongoing

U.S. EPA R5 provides quarterly conference calls to answer questions and present information to IDEM staff on the latest air toxic and risk assessment issues.

EPA Comment: EPA provides this information to IDEM through regularly scheduled calls, and as questions or issues arise.

FEC Status: Ongoing

U.S. EPA R5 provides quarterly conference calls to answer questions and present information to IDEM staff on the latest air toxic and risk assessment issues.

Make Air Monitoring Information Publicly Available **A-6**

IDEM Contact(s): Richard Zeiler & Steve Lengerich	U.S. EPA R5 Contact(s): Loretta Lehrman & Pat Schraufnagel	Due Date: Ongoing.
U.S. EPA R5 Role: Timely advice and reviews.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

Assess and modify Indiana's air monitoring program and make monitoring information available to the public.

a) Perform a quality assurance (QA) network evaluation.

JAPC Status: Ongoing

The Quality Assurance Section reviews the siting criteria of the monitoring network annually.

EPA Comment: EPA, ARD will follow up with IDEM's Office of Air Quality directly to provide detailed comments and to explain our reporting expectations. EPA accepts this report; however, we expect more explanation and specific details to be included in the final report regarding this commitment.

FEC Status: Ongoing

The Quality Assurance Section reviews the siting criteria of the monitoring network annually.

b) Conduct data analysis to determine improvement and degradation of air quality.

JAPC Status: Ongoing

Air quality data and data trend reports are available at http://www.in.gov/idem/airquality/2346.htm.

EPA Comment: This site has trends reports for each area of Indiana.

FEC Status: Ongoing

Air quality data and data trend reports are available at http://www.in.gov/idem/airquality/2346.htm.

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c) Perform annual industry evaluations (systems audit).

JAPC Status: In progress

The industrial evaluations are conducted annually as per the schedule established by the Quality Assurance Section.

EPA Comment: EPA, ARD will follow up with IDEM's Office of Air Quality directly to provide detailed comments and to explain our reporting expectations. EPA accepts this report; however, we expect more explanation and specific details to be included in the final report regarding this commitment.

FEC Status: In progress

The industrial evaluations are conducted annually as per the schedule established by the Quality Assurance Section.

d) Annually review and update the OAQ Quality Assurance Manual.

JAPC Status: In progress

The Quality Assurance Section performs a complete review of the Quality Assurance Manual every five years. The individual portions are updated annually as new programs, regulations, or guidance are promulgated.

FEC Status: In progress

The Quality Assurance Section performs a complete review of the Quality Assurance Manual every five years. The individual portions are updated annually as new programs, regulations, or guidance are promulgated.

e) Submit NAAQS pollutant data, PAMS and QA data to AQS, according to schedule in 40 CFR 58.

JAPC Status: Ongoing

All NAAQS pollutant data, PAMS data, and QA data are entered into AQS within 90 days of the quarter in which it was collected.

EPA Comment: IDEM is timely and complete in submitting data.

FEC Status: Ongoing

All NAAQS pollutant data, PAMS data, and QA data are entered into AQS within 90 days of the quarter in which it was collected.

f) Produce daily and hourly ozone and $PM_{2.5}$ data and maps to be posted on the Internet, as per U.S. EPA HQ Ozone and $PM_{2.5}$ Mapping Projects.

JAPC Status: Ongoing

The data collected is automatically uploaded every hour.

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EPA Comment: IDEM has an advanced data collection system that automatically collects hourly data. The maps are available on their web site.

FEC Status: Ongoing

The data collected is automatically uploaded every hour.

g) Maintain air quality index (AQI) reporting in designated cities.

JAPC Status: Ongoing

AQI values for all areas of the state are available on IDEM's website at http://idem.tx.sutron.com/cgi-bin/aqi_rpt.pl.

EPA Comment: IDEM automatically reports AQI information to the listed website.

FEC Status: Ongoing

AQI values for all areas of the state are available on IDEM's website at http://idem.tx.sutron.com/cgi-bin/aqi_rpt.pl.

h) Certify NAAQS pollutant data in AQS and provide supporting documentation by the schedule in 40 CFR 58.

JAPC Status: Complete

The 2013 data was certified prior to May 1, 2014.

EPA Comment: IDEM certified their data before this date with a complete certification package.

FEC Status: Complete

The 2014 data was certified prior to May 1, 2015.

i) Submit ozone, $PM_{2.5}$ and meteorological data to AIRNow.

JAPC Status: Ongoing

The data that is collected is submitted on an hourly basis to AIRNow.

EPA Comment: IDEM's data collection system automatically submits this data to AIRNow.

FEC Status: Ongoing

The data that is collected is submitted on an hourly basis to AIRNow.

j) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

U.S. EPA R5 staff has been available to answer questions and do so in a timely manner.

EPA Comment: EPA provides this information to IDEM through regularly scheduled calls, and as questions or issues arise.

FEC Status: Ongoing

U.S. EPA R5 staff has been available to answer questions and do so in a timely manner.

Leading Environmental Analysis and Display System (LEADS ®)		**A-7**
IDEM Contact(s): Richard Zeiler & Steve Lengerich	U.S. EPA R5 Contact(s): Loretta Lehrman & Pat Schraufnagel	Due Date: Ongoing.
U.S. EPA R5 Role: Timely advice and reviews.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

Collect real time air quality information using LEADS ®.

a) Maintain automatic calibration equipment at all continuous monitoring sites.

JAPC Status: Ongoing

The calibration equipment is maintained by using operating manuals and SOPs. The calibrators are certified and audited based on the Quality Assurance Section's approved schedule.

FEC Status: Ongoing

The calibration equipment is maintained by using operating manuals and SOPs. The calibrators are certified and audited based on the Quality Assurance Section's approved schedule.

b) Deploy LEADS® at all newly established continuous monitoring site locations.

JAPC Status: Complete

LEADS was deployed at 4 locations. These 4 locations were: Indianapolis IN, Kokomo IN, Helmsburg IN, and Columbus IN in the year 2014.

FEC Status: Complete

There were no new LEADS sites established during 2015.

c) Provide current data from all active continuous monitoring sites to the public via the agency website.

JAPC Status: Ongoing

There is current data from all active continuous monitoring sites that has been made available to the public at http://idem.tx.sutron.com/.

FEC Status: Ongoing

There is current data from all active continuous monitoring sites that has been made available to the public at http://idem.tx.sutron.com/.

d) Provide past data from active continuous monitoring sites and past data from recently discontinued sites.

JAPC Status: Complete

There is past data from all active continuous monitoring sites that has been made available to the public at http://idem.tx.sutron.com/.

FEC Status: Complete

There is past data from all active continuous monitoring sites that has been made available to the public at http://idem.tx.sutron.com/.

e) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

U.S. EPA R5 staff has been available to answer questions and do so in a timely manner.

FEC Status: Ongoing

U.S. EPA R5 staff has been available to answer questions and do so in a timely manner.

Persistent Bioaccumulative Toxics Great Lakes Air Deposition			**A-8**
IDEM Contact(s): Scott Deloney	U.S. EPA R5 Contact(s): Erin Newman	Due Date: Ongoing.	
U.S. EPA R5 Role: Timely advice, adequate funding, and timely reviews.			
Goal 1:	Taking action on climate change and improving air quality.		
Objective 1.2:	Improve air quality.		
Funding:	PPG		

IDEM will undertake several activities to evaluate persistent bioaccumulative toxics (PBTs).

a) IDEM will support emissions inventory work regarding PBTs.

JAPC Status: In progress

IDEM participates in mercury air monitoring projects throughout the State of Indiana and Midwest. Currently, there are three mercury monitors proposed for Indiana. One monitor is located in Northwest Indiana, one is located in Southwest Indiana along the Illinois border, and the third is in Southeast Indiana near the Ohio River. Additionally, under this funding for persistent and bioaccumulative toxics, IDEM is in the process of evaluating historical and currently reported heavy metal emissions as well as historical metals monitoring data. As part of this evaluation, IDEM is developing a web-based application tool that will allow the public to obtain information about emissions and ambient concentrations in their neighborhood.

FEC Status: In progress

IDEM participates in mercury air monitoring projects throughout the State of Indiana and Midwest. Currently, there are three mercury monitors operating in Indiana. One monitor is located in Northwest Indiana, one is located in Southwest Indiana along the Illinois border, and the third is in Southeast Indiana near the Ohio River. Additionally, under this funding for persistent and bioaccumulative toxics, IDEM has evaluated historical and currently reported heavy metal emissions as well as

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historical metals monitoring data. As part of this evaluation, IDEM is developing a web-based application tool that will allow the public to obtain information about emissions and ambient concentrations in their neighborhood.

b) IDEM will use staff time to identify and quantify source types and emissions that contribute PBTs to lakes through atmospheric deposition to better address PBTs. For FY2013, IDEM will conduct a health and environmental impact screening analysis of ambient metals from sources located in Northwest Indiana adjacent to Lake Michigan. For FY2014 and 2015, IDEM will conduct analyses for PBTs as agreed with U.S. EPA R5.

JAPC Status: In progress

IDEM developed a web based application to identify and quantify sources and amounts of emissions of PBTs to the state. The tool is currently being refined but U.S. EPA R5 staff have had the opportunity to preview the tool.

FEC Status: In progress

IDEM developed a web based application to identify and quantify sources and amounts of emissions of PBTs to the state. The tool is currently being refined and U.S. EPA R5 staff have had the opportunity to preview the tool.

c) IDEM will analyze and interpret historic PBT monitoring information in Indiana. IDEM will prepare and submit a GLAD update of findings and recommendations to U.S. EPA R5 annually.

JAPC Status: In progress

IDEM is in the process of evaluating historic and current heavy metal emissions as well as historic monitoring data. As part of this evaluation, IDEM is developing a web based application tool that will allow the public to obtain information about emissions and ambient concentrations in their neighborhood.

FEC Status: In progress

IDEM completed an evaluation of historic and current heavy metal emissions as well as historic monitoring data. As part of this evaluation, IDEM is developing a web based application tool that will allow the public to obtain information about emissions and ambient concentrations in their neighborhood.

d) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

U.S. EPA R5 has provided feedback and guidance when needed.

FEC Status: Ongoing

U.S. EPA R5 has provided feedback and guidance when needed.

Implementation of 2008 Ozone National Ambient Air Quality Standards (NAAQS)		**A-9**
IDEM Contact(s): Scott Deloney	U.S. EPA R5 Contact(s): Doug Aburano	Due Date: Ongoing

U.S. EPA R5 Role: Timely advice and reviews.	
Goal 1:	Taking action on climate change and improving air quality.
Objective 1.2:	Improve air quality.
Funding:	PPG

Successfully implement the 2008 Ozone National Ambient Air Quality Standards (NAAQS).

a) Monitor attainment status for areas designated nonattainment.

JAPC Status: Ongoing

FEC Status: Ongoing

Cincinnati area is now eligible for redesignation. IDEM is working on a redesignation petition and maintenance plan. This document will go on notice in August 2015.

b) Develop and submit attainment State Implementation Plans (SIPs), if necessary.

JAPC Status: Ongoing

No SIPs are currently due for Indiana at this time.

FEC Status: Ongoing

No SIPs are currently due for Indiana at this time. IDEM is working on a redesignation SIP based on eligibility for Indiana's portion of Cincinnati.

c) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

FEC Status: Ongoing

2012 Annual $PM_{2.5}$ National Ambient Air Quality Standards (NAAQS)		**A-10**
IDEM Contact(s): Scott Deloney	U.S. EPA R5 Contact(s):Doug Aburano	Due Date: Ongoing
U.S. EPA R5 Role: Timely advice and reviews.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

a) Prepare and submit designation recommendations and maintain ongoing dialogue with U.S. EPA R5 throughout designation process.

JAPC Status: Ongoing

Indiana provided designation recommendations in December 2013 and supplemented those recommendations with 2013 data in May 2014.

FEC Status: Ongoing

Indiana provided designation recommendations in December 2013 and supplemented those recommendations with 2013 data in May 2014.

b) Prepare and submit SIPs.

JAPC Status: Ongoing

No SIPs are currently due for Indiana at this time.

FEC Status: Ongoing

No SIPs are currently due for Indiana at this time.

c) Monitor attainment status for areas designated nonattainment.

JAPC Status: Ongoing

FEC Status: Ongoing

d) Develop and submit attainment SIPs, as necessary.

JAPC Status: Ongoing

No SIPs are currently due for Indiana at this time.

FEC Status: Ongoing

No SIPS are currently due for Indiana at this time.

e) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

FEC Status: Ongoing

SO_2 National Ambient Air Quality Standards (NAAQS)			**A-11**
IDEM Contact(s): Scott Deloney	U.S. EPA R5 Contact(s):Doug Aburano	Due Date: Ongoing	
U.S. EPA R5 Role: Timely advice and reviews.			
Goal 1:	Taking action on climate change and improving air quality.		
Objective 1.2:	Improve air quality.		
Funding:	PPG		

a) Consult with U.S. EPA R5 on designation recommendations provided and maintain ongoing dialogue with U.S. EPA R5 throughout the designation process.

JAPC Status: Complete

FEC Status: Complete

b) Prepare and submit SIPs.

JAPC Status: In progress

U.S. EPA R5 provided SIP guidance in April 2014. SIPs are due April 2015. IDEM is on schedule to complete this task on time. Infrastructure SIP was submitted well in advance of the deadline.

FEC Status: In progress

U.S. EPA R5 provided SIP guidance in April 2014. SIPs are due April 2015. IDEM has completed this SIP and it will be submitted in early fall after the public process concludes. Infrastructure SIP was submitted well in advance of the deadline.

c) Monitor attainment status for areas designated nonattainment.

JAPC Status: Ongoing

FEC Status: Ongoing

d) Develop and submit attainment SIPs as necessary.

JAPC Status: In progress

U.S. EPA R5 provided SIP guidance in April 2014. SIPs are due April 2015. IDEM is on schedule to complete this task on time.

FEC Status: In progress

U.S. EPA R5 provided SIP guidance in April 2014. SIPs are due April 2015. IDEM has completed this SIP and it will be submitted in early fall after the public process concludes.

e) Implement steps necessary to comply with federal guidelines yet to be established for unclassifiable areas.

JAPC Status: Ongoing

Federal rulemaking is currently pending for all areas other than those designated nonattainment.

FEC Status: Ongoing

Federal rulemaking is currently pending for all areas other than those designated nonattainment.

f) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

FEC Status: Ongoing

Redesignation Petitions and Maintenance Plans		**A-12**
IDEM Contact(s): Scott Deloney	U.S. EPA R5 Contact(s): Doug Aburano and Pam Blakley	Due Date: Ongoing
U.S. EPA R5 Role: Timely advice and reviews.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

a) Prepare and submit redesignation petitions and maintenance plans within six (6) months of monitoring data being quality assured for each new area that attains an NAAQS.

JAPC Status: Ongoing

There are no new areas eligible as of close of 2013. The redesignation petition and maintenance plan element was checked as ongoing because there were no areas eligible during the period, meaning no activity. However, ongoing implies that work could be initiated following the certification of new data prior to the end of the period.

FEC Status: Ongoing

There are no new areas eligible as of close of 2014. The redesignation petition and maintenance plan element was checked as ongoing because there were no areas eligible during the period, meaning no activity. However, ongoing implies that work could be initiated following the certification of new data prior to the end of the period.

b) Develop and submit attainment SIPs as necessary.

JAPC Status: Ongoing

SO2 attainment SIPs are due April 15, 2015. SIP development is underway and on schedule.

FEC Status: Ongoing

c) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

FEC Status: Ongoing

Regional Haze		**A-13**
IDEM Contact(s): Scott Deloney	U.S. EPA R5 Contact(s): Doug Aburano	Due Date: January 2016
U.S. EPA R5 Role: Timely advice and reviews.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	PPG	

a) Coordinate through the Lake Michigan Air Directors Consortium to prepare and submit a five (5) year progress report on the Regional Haze SIP.

JAPC Status: In progress

A report is currently being created and is on schedule for submission in advance of January 2016.

FEC Status: In progress

A report is currently being created and is on schedule for submission in advance of January 2016.

b) U.S. EPA R5 will provide timely advice and reviews.

JAPC Status: Ongoing

FEC Status: Ongoing

Office of Land Quality (OLQ)

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Resource Conservation Recovery Act (RCRA) Corrective Action (CA)			L-1
IDEM Contact(s): Vic Windle & Mike Sickels	U.S. EPA R5 Contact(s): Paul Little & Tammy Moore	Due Date: See below	
U.S. EPA R5 Role: Contractor support for sampling and risk review at selected sites.			
Goal 3:	Cleaning up communities and advancing sustainable development.		
Objective 3.2:	Preserve land.		
Funding:	PPG		

IDEM supports U.S. EPA R5's Integrated Cleanup Initiative to improve the accountability, transparency, and effectiveness of all of our cleanup programs. IDEM will coordinate the activities of its RCRA CA, Leaking Underground Storage Tanks, Brownfields, Toxic Substances Control Act, and Superfund programs to reduce risks to human health and the environment, by assessing and cleaning up contaminated sites to appropriate land use based levels, and put them back into productive use.

In support of our coordinated efforts, IDEM will meet the requirements of the Resource Conservation and Recovery Act (RCRA) Government Performance and Results Act (GPRA).

a) For the 2020 Universe facilities, IDEM will achieve the following GPRA corrective action goals:

- By September 30, 2013: 78% of the CA725, 71% for the CA750, and 52% for CA550.

JAPC Status: Complete

FEC Status: Complete

CA550 = 72.9%, CA725 = 87.3%, CA750 = 80.0%, based on a total of 70 IDEM lead baseline facilities. IDEM met all of the Goals for 2013.

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- By September 30, 2014: 89% of the CA725, 80% for the CA750, and 60% for CA550.

JAPC Status: In progress

FEC Status: Complete

CA550 = 72.9%, CA725 = 87.1%, CA750 = 81.4%, based on a total of 70 IDEM lead baseline facilities. IDEM met all the goals, except for 89% for CA725, for which IDEM attained 87.1%.

- By September 30, 2015: 92% of the CA725, 86% for the CA750, and 67% for CA550.

JAPC Status: In progress

FEC Status: In progress

Presently CA550 = 65%, CA725 = 86.3%, CA750 = 80%, based on a total of 80 IDEM lead baseline facilities.

b) IDEM will support U.S. EPA R5's efforts to return facilities to productive use by reporting all facilities that meet the Site Wide Ready for Anticipated Use (SWRAU) criteria for each federal fiscal year.

JAPC Status: In progress

FEC Status: In progress

c) IDEM will issue permits, orders and voluntary agreements that will help achieve U.S. EPA R5's 2020 Government Performance and Results Act (GPRA) goals.

JAPC Status: In progress

FEC Status: In progress

d) U.S. EPA R5 will provide contractor support for sampling and risk review at selected sites.

JAPC Status: In progress

FEC Status: In progress

Hazardous Waste Permitting and Post-Closure		**L-2**
IDEM Contact(s): Vic Windle	U.S. EPA R5 Contact(s): Jae Lee	Due Date: September 30, 2013 & September 30, 2014
U.S. EPA R5 Role: Provide program assistance.		
Goal 3:	Cleaning up communities and advancing sustainable development.	
Objective 3.2:	Preserve land.	
Funding:	PPG	

Permit priority will be given to application submittals that are subject to Indiana's permit accountability statute. U.S. EPA R5 is in the process of developing 2013-2015 permit and renewal baselines. The baselines will be completed by the end of June 2013.

a) Issue permit renewals to 100% of the 2013-2015 baseline facilities within six (6) months of expiration.

JAPC Status: In progress

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FEC Status: Incomplete

This goal has been met for all permits other than Vertellus. IDEM continues to await the completion of review of a risk assessment by U.S. EPA R5 before issuing the draft permit.

b) Upon request, U.S. EPA R5 will provide timely boiler and industrial furnaces (BIF) and risk assessment assistance to complete hazardous waste facility permitting actions in accordance with U.S. EPA Government Performance and Results Act (GPRA) goals.

JAPC Status: In progress

FEC Status: Incomplete

See explanation above.

Resource Conservation and Recovery Act (RCRA) Hazardous Waste Inspections of Generators		**L-3**
IDEM Contact(s): Susan Lowry	U.S. EPA R5 Contact(s): Gary Victorine	Due Date: July 1, 2013-June 30, 2015
U.S. EPA R5 Role: Conduct inspections of at least six large quantity generators (LQGs). Inspect other facilities handling hazardous waste as necessary. Criteria for U.S. EPA's selection of installations may include: (a) requests from IDEM, (b) installations subject to open federal enforcement judicial and/or administrative decrees/orders, (c) installations that have not been inspected in the past, and (d) installations under Regional and National priority sectors and/or initiatives.		
Goal 3:	Cleaning up communities and advancing sustainable development.	
Objective 3.2:	Preserve land.	
Funding:	PPG	

a) Each state fiscal year, IDEM will, by June 30 of that respective year, conduct Compliance Evaluation Inspections (CEIs) at a minimum of 20% of the large quantity generator (LQG) universe that exists in the RCRAInfo database. The universe will be determined using data that exists in the RCRAInfo database as of June 1 of that respective year.

JAPC Status: Complete

The LQG commitment was 106 LQGs (20% of 527). Since July 1, 2013 we have inspected approximately 130 LQGs.

FEC Report: Complete

The LQG commitment for July 1, 2014 through June 30, 2015 was 110. As agreed to with U.S. EPA R5, this number was based on the LQG universe in IRATS rather than RCRAInfo. The LQG universe in IRATS was 549, compared to 816 in RCRAInfo. We inspected 173 LQGs in FY15.

b) U.S. EPA R5 will conduct inspections of at least six (6) large quantity generators (LQGs). U.S. EPA will inspect other facilities handling hazardous waste as necessary. Criteria for U.S. EPA R5's selection of installations may include: (a) requests from IDEM, (b) installations subject to open federal enforcement judicial and/or administrative decrees/orders, (c) installations that have not been inspected in the past, and (d) installations under regional and national priority sectors and/or initiatives.

JAPC Status: In progress

FEC Status:

Resource Conservation and Recovery Act (RCRA) Hazardous Waste Inspections of Treatment, Storage and Disposal Facilities (TSDs)		**L-4**
IDEM Contact(s): Susan Lowry	U.S. EPA R5 Contact(s): Gary Victorine	Due Date: July 1, 2013-June 30, 2015
U.S. EPA R5 Role: U.S. EPA R5 will independently inspect the boiler and industrial furnace units at all four TSDs every other year, and inspect at least two additional operating TSDs for all permit requirements for each year. U.S. EPA R5 will perform annual inspections at all operating TSDs owned or operated by state and local governments.		
Goal 3:	Cleaning up communities and advancing sustainable development.	
Objective 3.2:	Preserve land.	
Funding:	PPG	

a) Each fiscal year, IDEM will inspect 50% of all Treatment, Storage and Disposal facilities (TSDs) with a current operating permit for active permitted units.

JAPC Status: Complete

Since July 1, 2013 we have inspected 14 of 16 permitted TSDs with active units.

FEC Status: Complete

From July 1, 2014 to June 30, 2015, IDEM inspected 16 active TSDs.

b) IDEM will perform inspections each state fiscal year at operating TSDs owned or operated by the federal government.

JAPC Status: Complete

U.S. Naval Support Activity Crane Division was inspected in December 2013.

FEC Status: Complete

The U.S. Naval Support Activity Crane Division was inspected on November 7, 2014 and May 14, 2015.

c) U.S. EPA R5 will independently inspect the boiler and industrial furnace units at all four (4) TSDs every other year, and inspect at least two (2) additional operating TSDs for all permit requirements for each year. Since IDEM received authorization for BIFs as of June 6, 2013, U.S. EPA R5 and IDEM will revisit the issue, and collectively agree upon which agency will conduct those inspections for the remainder of the term. U.S. EPA R5 will perform annual inspections at all operating TSDs owned or operated by state and local governments.

JAPC Status: Ongoing

Regarding the BIF agreement, U.S. EPA R5 included the BIF inspection as part of a multi-media inspection conducted by NEIC at two BIFs (cement kilns). The remaining two BIFs will be inspected between July 1, 2014 and September 30, 2014.

FEC Status: Ongoing

U.S. EPA R5 and IDEM agreed that U.S. EPA R5 would take the lead on the BIF inspections and allow IDEM staff to accompany them for training. Additional BIF inspections are scheduled before the end of U.S. EPA R5's fiscal year.

Resource Conservation and Recovery Act (RCRA) Hazardous Waste Enforcement	**L-5**

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IDEM Contact(s): Nancy Johnston	U.S. EPA R5 Contact(s): Todd Brown	Due Date: July 1, 2013-June 30, 2015
U.S. EPA R5 Role: Issue enforcement responses to RCRA violations detected by U.S. EPA R5, or referred to U.S. EPA R5 by IDEM, in accordance with U.S. EPA's 2003 Hazardous Waste Civil Enforcement Response Policy, U.S. EPA's RCRA Civil Penalty Policy and relevant U.S. EPA enforcement strategies.		
Goal 3:	Cleaning up communities and advancing sustainable development.	
Objective 3.2:	Preserve land.	
Funding:	PPG	

a) Issue enforcement responses to RCRA violations in accordance with IDEM's enforcement response strategy and U.S. EPA HQ's 2003 Hazardous Waste Civil Enforcement Response Policy.

JAPC Status: Ongoing

IDEM enforcement staff continue to issue enforcement responses to RCRA violations in accordance with the appropriate strategies and policies. From July 1, 2013 through May 7, 2014, IDEM issued 25 Agreed Orders (310 Final Enforcement Orders) for RCRA violations. During the same time period, 14 new significant non-compliers (SNC) determinations were made. Enforcement staff also continue to issue enforcement responses for industrial waste, auto salvage, solid waste, UST, and LUST violations. Additional actions will be completed by June 30, 2014, but those numbers will not be available until after June 30, 2014.

FEC Status: Ongoing

IDEM enforcement staff continue to issue enforcement responses to RCRA violations in accordance with the appropriate strategies and policies. From July 1, 2013 through June 30, 2015, IDEM enforcement staff issued 62 Agreed Orders (310 Final Enforcement Orders) for RCRA violations. During the same time period, 47 new significant non-compliers (SNC) determinations were made. Enforcement staff also continue to issue enforcement responses to industrial waste, auto salvage, solid waste, UST, and LUST violations. From July 1, 2013 through June 30, 2105, IDEM enforcement staff issued 78 Agreed Orders, in addition to the 62 Agreed Orders above, for industrial waste, auto salvage, UST and LUST violations.

b) U.S. EPA R5 will issue enforcement responses to RCRA violations detected by U.S. EPA R5 or referred to U.S. EPA R5 by IDEM, in accordance with enforcement strategies.

JAPC Status: Ongoing

FEC Status:

Polychlorinated Biphenyl (PCB) Inspections		**L-6**
IDEM Contact(s): Theresa Bordenkecher	U.S. EPA R5 Contact(s): Kendall Moore	Due Date: July 1, 2013-June 30, 2015
U.S. EPA R5 Role: Review IDEM's PCB inspection reports and, if necessary, issue the appropriate enforcement response. Provide technical assistance and guidance on federal PCB regulations. Conduct mid-year and year end reviews. Provide continuing refresher training to experienced inspectors and basic field investigation training to new inspectors. Provide enforcement training to allow IDEM to prepare penalty calculations.		
Goal 4:	Ensuring the safety of chemicals and preventing pollution.	
Objective 4.1:	Ensure chemical safety.	
Funding:	PPG	

a) Conduct 24 Toxic Substance Control Act (TSCA) PCB inspections for FY14 and 24 PCB inspections for FY15.

JAPC Status: In progress

IDEM anticipates completing all required inspections.

FEC Status: Complete

28 inspections were conducted in FY14 and 24 in FY15.

b) IDEM will continue to participate in U.S. EPA R5's current electronic inspection pilot program. IDEM will complete the Digital Inspector (DI) template for PCB inspections by September 2013, and then begin template testing. IDEM will research an additional electronic field data collection system on a pilot basis, and pursue equipment purchase based on funding availability from IDEM and/or U.S. EPA R5. IDEM will provide feedback on issues and/or improvements that can be made to hardware and software for this e-field activity.

JAPC Status: Ongoing

Funding has not yet been made available for equipment purchase.

FEC Status: Ongoing

Funding has not yet been made available for equipment purchase.

c) Work with U.S. EPA R5 on oversight of PCB cleanups and provide technical assistance to the regulated community. Provide a yearly summary report detailing the status of oversight activities for each fiscal year.

JAPC Status: Ongoing

FEC Status: Ongoing

d) Work with the U.S. EPA R5 Pesticides and Toxics Compliance Section (PTCS) in the annual targeting of facilities for TSCA PCB inspections, including critical points within natural gas pipeline transmission and distribution systems.

JAPC Status: Ongoing

Four (4) facilities were selected and inspected.

FEC Status: Complete

Four facilities were inspected each fiscal year.

e) IDEM will provide a quarterly inspection summary.

JAPC Status: Ongoing

FEC Status: Ongoing

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f) U.S. EPA R5 will review IDEM's PCB inspection reports and, if necessary, issue the appropriate enforcement response, provide technical assistance and guidance on federal PCB regulations, conduct mid-year and year end reviews, provide continuing refresher training to experienced inspectors and basic field investigation training to new inspectors, and provide enforcement training to allow IDEM to prepare penalty calculations.

JAPC Status: Ongoing

FEC Status:

Resource Conservation Recovery Act (RCRA) RCRAInfo			**L-7**
IDEM Contact(s): Greg Overtoom	U.S. EPA R5 Contact(s): Allen Melcer and Darnell Wilson	Due Date: Monthly.	
U.S. EPA R5 Role: Provide program assistance.			
Goal 4:	Ensuring the safety of chemicals and preventing pollution.		
Objective 4.1:	Ensure chemical safety.		
Funding:	PPG		

Resource Conservation and Recovery Act (RCRA) information will be input into the RCRAInfo database on a monthly basis.

a) IDEM will migrate the Indiana RCRA Activities Tracking System (IRATS) into the agency's Environmental Information System (EIS), IDEM's agency-wide database. IRATS migration into the EIS is tentatively scheduled to be completed by the end of the second quarter of 2014. Once fully integrated, the EIS will be used to track all RCRA related regulatory activities and IRATS will be decommissioned. The handler data flow from IRATS to RCRAInfo via IDEM's National Environmental Information Exchange Network (NEIEN) node developed in 2005-2007 will be modified to use the EIS data rather than IRATS.

JAPC Status: In progress

Due to staff resource and contractor staff resource issues, this project is now expected to be completed during the third quarter of 2015. The estimated cost for all enhancements exceeded the amount IDEM had available, and the scope of the project had to be narrowed to stay within funding limits.

FEC Status: In progress

IDEM is currently working on migrating data from IRATS to the EIS.

b) IDEM will continue improving field-based electronic forms for collecting RCRA compliance inspection information and synchronizing that information to IRATS and, eventually, to the EIS integration, once the IRATS project is completed. IDEM is currently refining outputs such as reports and letters and investigating the use of tablet and smart phone platforms.

JAPC Status: In progress

FEC Status: In progress

IDEM's EIS vendor is planning to release the first version of a tablet-based inspection application in the first quarter of 2016. In the meantime, earlier IDEM-produced digital inspector tools are in use by IDEM staff.

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c) Develop biennial report online reporting application and migrate to EIS for the 2014 reporting year.

JAPC Status: In progress

The cost to develop a fully online reporting system exceeded available funding, so IDEM has started work on a new solution that will allow direct upload of files generated by a third party vendor to our Environmental Information System. The new system will not significantly increase IDEM resources needed to support it or reduce functionality for users submitting biennial reports.

FEC Status: Complete

IDEM has completed work on an import function and will enable it when migration of data from IRATS to the EIS is complete.

d) IDEM will develop Exchange Network data flows for all RCRAInfo schemas by April 2014.

JAPC Status: In progress

Due to IDEM staff resource limitations and delays in getting database modifications from our contractor, this project will not be completed until the third quarter of 2015. IDEM requested an extension for the 2011 NEIEN grant that is funding this work.

FEC Status: In progress

The RCRAInfo GIS dataflow is complete and will be going into production before the end of August 2015. Handler and Corrective action data has been successfully transferred from IDEM's test EIS system to RCRAInfo Pre-production. IDEM will not be able to put all of the data flows into production until data has been successfully migrated from IRATS to the EIS. Therefore, IDEM will be requesting a 1-year, no-cost extension to the 2011 grant.

e) U.S. EPA R5 will provide program assistance.

JAPC Status: In progress

FEC Status:

Rule Development			**L-8**
IDEM Contact(s): Chris Pedersen	U.S. EPA R5 Contact(s):Mary Setnicar	Due Date: June 30, 2015	
U.S. EPA R5 Role: Many rule updates are promulgated by U.S. EPA R5 and IDEM in mutually agreed upon time frames. Regarding the Research, Development and Demonstration (RDD) rule, U.S. EPA R5 will provide assistance where applicable.			
Goal 5:	Enforcing environmental law.		
Objective 5.1:	Enforce environmental law.		
Funding:	PPG		

Develop equivalent legislation, regulations and program revision applications for RCRA and hazardous and solid waste amendments (HSWA) / non-HSWA provisions for which the state is prepared to seek authorization. Submit current and future authorization packages within a mutually agreed upon time frame.

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a) IDEM will promulgate and pursue authorization for all RCRA Subtitle C annually and Subtitle I rules, as needed.

JAPC Status: Ongoing

FEC Status: Ongoing

IDEM has completed a rulemaking that incorporates federal hazardous waste rules from January 8, 2010 through January 3, 2014. The state rule became effective on July 3, 2015. A new rulemaking is being initiated to address more recent federal hazardous waste rules. IDEM staff are coordinating with U.S. EPA R5 staff on the submittal of authorization packages.

b) U.S. EPA R5 will provide assistance where applicable regarding the Research, Development and Demonstration (RDD) rule.

JAPC Status: Ongoing

FEC Status:

Confined Animal Feeding Operations (CAFO) NPDES Permits & Enforcement		**L-9**
IDEM Contact(s): Charles Grady & Joseph Williams	U.S. EPA R5 Contact(s):-Ryan Bahr & Julianne Socha	Due Date: June 30, 2014 and June 30, 2015
U.S. EPA R5 Role (Water Division): Provide training on conducting CAFO inspections to IDEM staff, as requested. U.S. EPA R5 will be leading on enforcement where there is non-compliance with existing federal orders or where non-compliance is documented through a federal lead inspection.		
Goal 3:	Cleaning up communities and advancing sustainable development.	
Objective 3.2:	Preserve land.	
Funding:	PPG	

a) Conduct compliance inspections at 20% of all CAFOs each fiscal year.

JAPC Status: Complete

IDEM inspected 20% of its CAFOs in FY 2014. Inspections were conducted from a universe of 667 CAFOs. The CMS commitment for CAFO inspections includes two permitted and 209 unpermitted CAFOs. This is a total of 211 CAFO size farm inspections, which represents 31% of the universe.

FEC Status: Complete

IDEM inspected 20% of its CAFOs in FY 2015. Inspections were conducted from a universe of 707 CAFOs. The CMS commitment for CAFO inspections includes 1 permitted and 184 unpermitted CAFOs. This is a total of 185 CAFO size farm inspections, which represents 26% of the universe.

b) Issue NPDES permits to 100% of the CAFO Individual NPDES permit holders by September 30, 2013, whose expiration dates are on or before September 30, 2013.

JAPC Status: Ongoing

IDEM will continue to issue NPDES permits to all CAFOs who discharge manure or pollutant-bearing water to waters of the state within Indiana's statutory time frames. We do not anticipate any problems with our EnPPA duties in this cycle.

FEC Status: Ongoing

There are two active NPDES Individual Permits with one having an application in process. Three NPDES Individual Permits are in expired status, but still have compliance review until manure is removed from site.

c) U.S. EPA R5 will provide training on conducting CAFO inspections to IDEM staff, as requested. U.S. EPA R5 will be the lead on enforcement where there is non-compliance with existing federal orders or where non-compliance is documented through a federal lead inspection.

JAPC Status: Ongoing

IDEM has participated in discussions and inspections on three CAFOs in the state for which U.S. EPA R5 conducted inspections.

FEC Status: Complete

Office of Water Quality (OWQ)

Impaired Waters List and Water Quality Report		**W-1**
IDEM Contact(s): a) Marylou Renshaw & Jody Arthur b) Marylou Renshaw & Cyndi Wagner	U.S. EPA R5 Contact(s): Mathew Gluckman and Vilma Rivera-Carrero	Due Date: a) April 1, 2014 b) December 31, 2013 & December 31, 2014
U.S. EPA R5 Role: Timely review and comment on materials submitted. Provide guidance on report/list development. Provide continued support and guidance on the use of the Assessment Database.		
Goal 2	Protecting America's waters.	
Objective 2.2:	Protect and restore watersheds and aquatic eco-systems.	
Funding:	PPG	

a) Use the Assessment Database (ADB) to submit the Integrated Report (IR), including 303(d) List of Impaired Waterways by established deadlines. Complete quality assurance of information in ADB to ensure consistency with 303(d) list and other IR categories. Provide additional IR information (e.g., assessment methodology, GIS files) in other appropriate formats, as required by the IR Guidance (U.S. EPA WQ-7).

JAPC Status: In progress

The IR, including the 303(d) List of Impaired Waters was submitted to U.S. EPA R5 on April 1, 2014. QA/QC of the ADB is in progress.

EPA's Comment: The IR, including the public-noticed draft 303(d) List of Impaired Waters was submitted to U.S. EPA R5 on April 1, 2014. EPA provided comments on the draft list on Sept. 11, 2014. QA/QC of the ADB is in progress.

FEC Status: In progress

IDEM is expanding the QA/QC of the ADB to do the additional work necessary to facilitate the migration of its assessment data to U.S. EPA R5's new ATTAINS SYSTEM. This work is expected to be completed by the end of 2016.

IDEM sent responses and comments to U.S. EPA R5 on 5/14/2015.

b) Monitor waters, utilizing the probabilistic monitoring design to provide sufficient data to adequately assess the status of Indiana's surface water quality following the schedule identified in the IDEM Monitoring Strategy. During the current sampling season (summer 2013), IDEM will sample a minimum of 38 sites in the East Fork White River basin. Next sampling season (summer 2014), IDEM will sample a minimum of 38 sites in the Great Miami River basin (U.S. EPA PAM WQ-5).

JAPC Status: In progress

The 2013 probabilistic monitoring of the East Fork White River was completed. The 2014 probabilistic sampling of the Great Miami River basin is currently underway.

FEC Status: Complete

The 2014 probabilistic sampling of the Great Miami River basin was completed.

c) U.S. EPA R5 will provide timely review and comments on materials submitted, guidance on report/list development, and support and guidance on the use of the ADB.

JAPC Status: In progress

U.S. EPA R5 sent comments on the 2012 303(d) List of Impaired Waters submittal on May 19, 2014.

FEC Status: Complete

IDEM sent responses and comments to U.S. EPA R5 on May 14, 2015.

Total Maximum Daily Loads (TMDLs)		**W-2**
IDEM Contact(s): a) & c) Marylou Renshaw & Bonny Elifritz b) Marylou Renshaw & Cyndi Wagner	U.S. EPA R5 Contact(s): a) Peter Swenson b) David Werbach	Due Date: a) September 30, 2013 & 2014 b) December 31, 2013 & 2014
U.S. EPA R5 Role: Timely review and comment, and contractor assistance, and provide guidance/other information on identifying causes/sources of impairment.		

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Goal 2	Protecting America's waters.
Objective 2.2:	Protect and restore watersheds and aquatic eco-systems.
Funding:	State

a) Total maximum daily loads (TMDLs) on water body segments – TMDLs will be developed in accordance with the measures established by U.S. EPA R5. IDEM has committed to 76 TMDLs in FY13 and will submit 76 TMDLs in FY14. However, IDEM is transitioning to the U.S. EPA HQ's TMDL Vision process for prioritizing and implementing the TMDL program.

JAPC Status: In progress

U.S. EPA R5 approved the Big Raccoon Creek TMDL for E. coli (55 segments) and IBC (two segments) on September 20, 2013 and the Otter Creek TMDL for E. coli (23 segments) on September 20, 2013 for a total of 78 TMDLs. IDEM is currently working on the Lower Big Blue River and the Deep River-Portage Burns TMDLs.

FEC Status: Complete

U.S. EPA R5 approved the Lower Big Blue River TMDL for E. coli (25 segments) on July 14, 2014 and the Deep River-Portage Burns TMDL for E. coli, total phosphorous (TP) and total suspended solids (TSS) (66 segments) on September 26, 2014 for a total of 91 TMDLs.

b) Targeted Monitoring Studies - Monitor waters to provide information on sources and causes of impairments for use in the development of TMDLs and/or watershed plans. Depending on resources and following the plans outlined in the IDEM Monitoring Strategy, IDEM will do one (1) to 10 studies per sampling season.

JAPC Status: In progress

Targeted monitoring started and was completed in 2013. This targeted monitoring included Performance Measures monitoring in the Blue River and tributaries to the Upper Tippecanoe River; toxic algae monitoring at 14 beaches in 12 state owned parks or managed recreational areas; and BUI delisting sampling in the Grand Calumet-Indiana Harbor. Watershed characterization monitoring for TMDLs and baseline watershed planning purposes commenced in Deep River and ended in March 2014; commenced in Southern Whitewater basin and will end in October 2014. Watershed characterization monitoring for TMDLs and baseline watershed planning purposes commenced in April 2014 for the Mississinewa River and will commence in November 2014 for the South Fork Blue River. Performance measures monitoring will commence in 2014 for Tanners Creek and Hogan Creek. Monitoring for the National Water Quality Initiative (NWQI) commenced in April 2014.

FEC Status: In progress

Targeted monitoring projects included watershed characterization monitoring for TMDLs, performance measures monitoring, dissolved metals sampling, cyanobacteria monitoring at 14 beaches in 12 state owned parks or managed recreational areas, and monitoring for the National Water Quality Initiative.

Watershed characterization monitoring for TMDLs and baseline watershed planning is as follows.

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Projects completed:

- Deep River, March 2014
- Southern Whitewater, October 2014
- Mississinewa River, March 2015

Projects in progress:

- South Fork Blue River, November 2014 through October 2015

Performance measures monitoring

Projects completed:

- Tanners Creek, 2014
- Hogan Creek, 2014

Projects in progress:

- Flowers Creek Watershed, April through October 2015
- Long Run Watershed, April through October 2015
- Silver Creek Watershed, April through October 2015

Dissolved metals project for a reassessment of selected sites from the Indiana 2010 303(d) List of Impaired Waters commenced in February 2015 and ended in May 2015 on the following waterbodies: Turkey Creek, Fall Creek, Cicero Creek, Eel River, Big Walnut Creek, Sulphur Creek, Muscatatuck River, East Fork White River, West Fork White River, Big Walnut Creek, and Mill Creek.

Cyanobacteria monitoring commenced in 2010 and is ongoing.

National Water Quality Initiative (NWQI) monitoring commenced in April 2014 and is ongoing.

c) U.S. EPA R5 will provide timely review, comments and contractor assistance and will provide guidance or other information on identifying causes/sources of impairment.

JAPC Status: In progress

Complete for 2013 but has not started for 2014.

FEC Status: Complete

Wetland and Stream Impacts and Storm Water Permits		**W-3**
IDEM Contact(s): Randy Braun	U.S. EPA R5 Contact(s): a) Peter Swenson b)Brian Bell	Due Date: Ongoing.
U.S. EPA R5 Role: Provide program assistance.		
Goal 2	Protecting America's waters.	
Objective 2.2:	Protect and restore watersheds and aquatic eco-systems.	
Funding:	Federal/State (Wetlands Mapping Impacts Grant)	

a) Review applications and issue appropriate permits for wetland and stream impacts.

JAPC Status: In progress

IDEM continues to review and issue all required permits within the required time frames.

FEC Status: Complete

b) Storm water permits – Review applications and issue appropriate permits for construction, municipal and industrial discharges of storm water.

JAPC Status: In progress

IDEM continues to review and issue all required permits within the required time frames.

FEC Status: Complete

c) U.S. EPA R5 will provide program assistance.

JAPC Status: In progress

IDEM continues to work with U.S. EPA R5 on matters of assistance in this program area.

FEC Status: Complete

Office of Water Quality (OWQ) Permits		**W-4**
IDEM Contact(s): a) Paul Higginbotham & Jerry Dittmer b) Paul Higginbotham & Stan Rigney	U.S. EPA R5 Contact(s): a) Kevin Pierard b) Kevin Pierard	Due Date: See below.
U.S. EPA R5 Role: Provide timely review, technical assistance and comment and identify issues at an early stage in the process.		
Goal 2	Protecting America's waters.	
Objective 2.1:	Protect human health.	
Funding:	State	

a) Municipal National Pollutant Discharge Elimination System (NPDES) Permits – Issue 95% of all identified priority NPDES permits, issue new permits within statutory time frames.

- Issue municipal priority permits within requested time frames.

JAPC Status: In progress

IDEM continues to review and issue all required permits within the statutory time frames.

FEC Status: Complete

IDEM has and/or exceeded the 95% requirement and all new permits have been issued within statutory timeframes.

- Maintain the backlog of municipal permits at 10% or less.

JAPC Status: Complete

IDEM currently has a zero backlog of municipal permits (utilizing U.S. EPA's definition of backlog as being six months past expiration).

FEC Status: Complete

- Issue new municipal NPDES permits within statutory time frames.

JAPC Status: In progress

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IDEM continues to review and issue all required permits within the required time frames.

FEC Status: Complete

IDEM has reviewed and issued all required permits within the required time frames.

- U.S. EPA R5 will review NPDES discharge permits greater than 5 million gallons per day (MGD) in the Lake Michigan basin and all direct dischargers to Lake Michigan.

JAPC Status: In progress

IDEM submits the required permits to U.S. EPA R5 prior to public notice and U.S. EPA R5 reviews and submits comments back to IDEM prior to public notice.

FEC Status: Complete

IDEM has submitted the required permits to U.S. EPA R5 prior to public notice and U.S. EPA R5 reviewed and submitted comments back to IDEM prior to public notice.

b) Industrial NPDES permits – Issue 95% of all identified priority NPDES permits and issue new permits within statutory time frames.

- Issue industrial priority permits within requested time frames.

JAPC Status: In progress

IDEM continues to review and issue all required permits within the statutory time frames.

FEC Status: Complete

IDEM has met and/or exceeded the 95% requirement and has issued all new permits within statutory timeframes.

- Maintain the backlog of industrial permits at 10% or less.

JAPC Status: Complete

IDEM currently has a zero backlog of industrial permits (utilizing U.S. EPA's definition of backlog as six months past expiration).

FEC Status: Complete

- Issue new industrial NPDES permits within statutory time frames.

JAPC Status: In progress

IDEM continues to issue any new permits within statutory time frames.

FEC Status: Complete

IDEM has issued all new permits within statutory time frames.

- U.S. EPA R5 will review permits previously identified for review, all general permits and individual permits for major dischargers listed below. U.S. EPA R5 will timely provide a non-objection letter once any objectionable issues U.S. EPA

R5 raised have been resolved. IDEM and U.S. EPA R5 will evaluate the list annually (e.g. FY15 midterm adjustment) to identify additional permits for U.S. EPA R5 review based on national and regional priorities and/or permits to remove from the list.

Permittee	Permit#	MGD
AQUA INDIANA, INC., SOUTH HAVEN SEWER WORKS INC	IN0030651	2.0
HOBART WASTEWATER TREATMENT PLANT	IN0061344	4.8
CHESTERTON WWTP, TOWN OF	IN0022578	4.6
ANGOLA WWTP	IN0021296	1.7
MICHIGAN CITY - J.B. GIFFORD WWTP	IN0023752	15.0
NAPPANEE WWTP, CITY OF	IN0021466	1.9
PRAXAIR, INC., LAKESIDE PLANT	IN0000035	98.0
U.S. STEEL CORP - GARY WORKS	IN0000281	558.1
CROWN POINT WWTP, CITY OF	IN0025763	4.1
NIPSCO, D H MITCHELL GENERATING STATION	IN0000124	290.8
PORTAGE UTILITY SERVICE FACILITY WWTP	IN0024368	5.0
Lafayette WWTP	IN0032468	
Muncie WWTP	IN0025631	
Indianapolis MS-4	INS040001	
BP	IN0000108	

JAPC Status: In progress

U.S. EPA R5 has reviewed and provided non-objection letters on five general permits to date. IDEM plans to do some outreach on the GPs to affected parties prior to final issuance. South Haven and Hobart permits are currently on public notice as they were delayed due to discussions between IDEM and U.S. EPA R5 over possible objection issues. Lafayette, Muncie and Indianapolis MS-4 are complete. IDEM will work with U.S. EPA R5 on the remaining permits.

FEC Status: In progress

U.S. EPA R5 has reviewed and provided non-objection letters on five general permits to date. IDEM performed outreach on the GPs with the affected parties, public noticed the Draft GPs for 30 days, received final approval from the Environmental Rules Board on the GP Rule and is set to final issue the 5 GPs once the rule is effective (approximately October 2015). IDEM has issued all the above noted individual permits, with the exception of Portage Utility Service Facility WWTP and U.S. Steel – Gary Works which have been public noticed.

c) U.S. EPA R5 will provide timely review, technical assistance and comment and identify issues at an early stage in the process.

JAPC Status: In progress

U.S. EPA R5 has provided timely review of permits and provided comments early in the review process, but IDEM and U.S. EPA R5 have been at odds on some issues raised during U.S. EPA R5's review, which has caused delays in the permitting process.

FEC Status: Complete

Compliance Monitoring Strategy (CMS) for Wet Weather Programs, Combined Sewer Overflow (CSO) Long Term Control Plans (LTCP), Sanitary Sewer Overflow (SSO) and Storm Water **W-5**

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IDEM Contact(s): a) & b) Paul Higginbotham & Jerry Dittmer c) Mark Stanifer, d), e), f) & g) & Randy Braun	U.S. EPA R5 Contact(s):Kevin Pierard, Jack Bajor & Patrick Kuefler	Due Date: See below.
U.S. EPA R5 Role: U.S. EPA R5 will be the lead on certain environmentally significant CSO communities, working in partnership with IDEM to reach agreement on approvable long-term control plans and implementation schedules. U.S. EPA R5 will provide timely review and comment on technical non-rule policy and other documents submitted by IDEM.		
Goal 5:	Enforcing environmental laws.	
Objective 5.1:	Enforce environmental laws.	
Funding:	State	

Implement the state-specific CMS for National Wet Weather Priorities. CAFO inspections will be conducted by the Office of Land Quality (see L-9).

a) IDEM will participate in the review and approval of the long term control plans (LTCPs) and Consent Decree issues in CSO cases under federal lead, including Evansville, Gary, Hammond, and Mishawaka (U.S. EPA PAM [SS-1]).

JAPC Status: In progress

IDEM continues to work with U.S. EPA R5 on the federal CSO lead cases involving Evansville, Gary, Hammond and Mishawaka.

FEC Status: In progress

Mishawaka LTCP has been approved.

b) IDEM will continue LTCP compliance implementation by (U.S. EPA PAM [SS-1]):

- Monitoring milestone dates in the LTCP through site visits and review of documentation.
- Monitoring compliance with limits (as applicable) through review of submitted monitoring reports.
- Reviewing periodically the approved LTCPs.
- Setting meetings (as needed) with communities and their consultants on the status of the implementation of the LTCPs.

  The CSO program is in transition, shifting focus from LTCP development to implementation and IDEM has a strategy to build long-term successes. This strategy requires investment of limited resources into developing the necessary infrastructure to establish a long-term milestone tracking system for compliance. Once that system is established, IDEM will use the information from the system to more efficiently target compliance evaluations and/or inspections of the right facilities. In the interim, IDEM will complete five inspections (CEIs) annually between October 1 and September 30.

JAPC Status: Ongoing

IDEM continues to conduct site visits of CSO communities as well as reviewing monitoring reports for compliance with limits and approved LTCPs. In addition, IDEM utilizes the TEMPO database for all aspects of tracking compliance with approved LTCPs. As of May 12, 2014, IDEM has conducted eight (8) inspections (CEIs) at CSO communities.

FEC Status: Ongoing

By September 30, 2015 IDEM will have completed 6 CEI inspections at CSO communities since October 2014.

c) There is no set inspection frequency or goal for SSO inspections. Inspections will be scheduled as needed, based on information about overflow occurrences.

JAPC Status: Ongoing

SSO inspections and reviews are conducted as part of CEI inspections.

FEC Status: Ongoing

CEI inspections are being conducted as scheduled, and the number of reported SSO events is evaluated and addressed in the inspection report.

- IDEM will administer storm water programs by performing compliance inspections in the following areas: construction/land disturbance and industrial and municipal separate storm sewer systems (MS4s). Construction/Land Disturbance (327 IAC 15-5): Inspect permitted construction sites and review storm water pollution prevention plans, giving highest importance to those projects for which the agency has received complaints. IDEM will complete 200 compliance inspections annually between October 1 and September 30.

  JAPC Status: In progress

  The storm water staff inspected 200 Construction sites.

  FEC Status: In progress

  The storm water staff is on track to inspect another 200 Construction sites by September 30, 2015.

- Municipal Separate Storm Sewer System (MS4s) (327 IAC 15-13): Inspections of Phase I MS4s should be conducted on an as needed basis, and by October 2014. Also conduct an appropriate combination of audits and inspections to determine compliance of Phase II MS4s by October 2014. IDEM will complete 20 inspections annually between October 1 and September 30.

  JAPC Status: In progress

  The storm water staff conducted 17 IDDE Audits; which includes a total of 20 MS4 due to co-permit statuses. The storm water staff conducted one inspection on a MS4 Facility and conducted five MS4 Compliance meetings.

  FEC Status: In progress

  IDEM is on track to complete another 20 or more audits by September 30, 2015. The audits for this cycle are specifically directed to the Good Housekeeping Minimum Control Measure.

- Industrial Storm Water (327 IAC 15-6): Inspections will include operational facilities, as well as facilities that have claimed an exemption, and/or facilities that have been the subject of complaints. IDEM will complete 60 inspections annually between October 1 and September 30.

  JAPC Status: In progress

The storm water staff inspected 20 Industrial facilities. The agency employs five storm water field staff responsible for inspecting construction sites, industrial sites, and MS4 activities related to construction and post-construction. Given resource constraints, IDEM makes timely follow-ups on complaints its top inspection priority. The bulk of complaints involve active construction sites. A second IDEM priority in addition to complaints is further assessment of MS4 administration of local construction programs. IDEM, therefore, inspected active construction sites in MS4 areas, which is not commonly part of the daily workload for IDEM staff. Based on these priorities, IDEM inspected 468 construction sites, which was above the CMS goal, but fell short of the industrial inspection goal.

FEC Status: In progress

The storm water staff has inspected 55 industrial sites between October 1, 2014 and June 30, 2015. A small portion of these inspections were conducted by the Office of Land Quality. The Office of Land Quality reports any storm water compliance issues to the storm water program for follow-up. Staff is on target to exceed the 60 inspections as required by the CMS goal.

d) Evaluate storm water violations and take timely action in accordance with the state's NPDES enforcement management system.

JAPC Status: In progress

Storm Water Section staff continue to address violations as they are identified. IDEM continues to implement its EMS with formal enforcement action being initiated when referred from the Storm Water Section to the Enforcement Section.

FEC Status: In progress

Storm Water Section staff continue to address violations as they are identified. IDEM continues to implement its EMS with formal enforcement action being initiated when referred from the Storm Water Section to the Enforcement Section.

e) Track storm water compliance monitoring and compliance assurance actions in accordance with established data requirements and reporting time frames.

JAPC Status: In progress

Storm water inspections are not currently being entered into ICIS-NPDES due to resource constraints. Storm water inspections will eventually be entered into TEMPO, a comprehensive IDEM database. TEMPO is currently in the developmental stage. The storm water programs are some of the first programs to be incorporated into TEMPO for permitting and tracking purposes. Work is also underway to develop the capability for storm water data in TEMPO to be uploaded into ICIS-NPDES.

FEC Status: In progress

Storm water inspections are not currently being entered into ICIS-NPDES due to resource constraints. Storm water inspections will eventually be entered into TEMPO, a comprehensive IDEM database. TEMPO is currently in the developmental stage. The storm water programs are some of the first programs to be incorporated into TEMPO for permitting and tracking purposes. Work is also

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underway to develop the capability for storm water data in TEMPO to be uploaded into ICIS-NPDES.

f) Report storm water CMS inspection numbers at mid-year and at the end of the federal fiscal year. Review plans and commitments prior to the beginning of the federal fiscal year and at mid-year. Variations from the inspection frequencies and proposed revisions to numerical end-of-year commitments will be justified (i.e., issues related to staffing, funding, etc.).

JAPC Status: In progress

IDEM reports inspection numbers as agreed to in the CMS by entering them into ICIS.

FEC Status: In progress

IDEM reports inspection numbers as agreed to in the CMS.

g) U.S. EPA R5 will be the lead on certain environmentally significant CSO communities, working in partnership with IDEM to reach agreement on approvable LTCPs and implementation schedules. U.S. EPA R5 will provide timely review and comment on technical nonrule policy and other documents submitted by IDEM (U.S. EPA PAM [SS-1]).

JAPC Status: Ongoing

U.S. EPA R5 provides program assistance as needed.

FEC Status: Ongoing

Joint State/U.S. EPA R5 Clean Water Act (CWA) Enforcement and Permitting Work Plan		**W-6**
IDEM Contact(s): Paul Higginbotham, Mark Stanifer & Mary Hoover	U.S. EPA R5 Contact(s): James Coleman, Jack Bajor & Ryan Bahr	Due Date: Annual Basis.
U.S. EPA R5 Role: Lead, assist or work share as specified in the annual work plan. U.S. EPA R5 will submit a summary report to Headquarters on behalf of the state by December 31 annually thereafter. Take action to improve performance if IDEM is not meeting performance expectations. Ensure compliance with all federal consent decrees and administrative orders.		
Goal 5:	Enforcing environmental laws.	
Objective 5.1:	Enforce environmental laws.	
Funding:	Federal/State (Permitting and Enforcement Grant)	

U.S. EPA R5 and IDEM, working together, will conduct a CWA annual planning process to identify and discuss national, regional and state priorities versus available resources at both the state and federal levels consistent with CWA Action Plan guidance, to be concluded no later than September 30 of each year. The resulting collaborative annual work plans will use all available mechanisms to get work done, such as federal and state work sharing and innovative approaches to monitoring facilities or addressing violations.

a) Cooperate in developing and implementing the annual Joint State/U.S. EPA R5 CWA Enforcement and Permitting Work Plan.

- Participate in annual planning meetings to develop collaborative annual work plans, which may be conducted during the initiation and/or midterm EnPPA evaluations.

JAPC Status: In progress

IDEM enforcement staff will continue to work with U.S. EPA R5 to develop and implement the annual Joint State/U.S. EPA R5 CWA Enforcement and Permitting Work Plan. IDEM has been and will continue to participate in annual planning meetings.

FEC Status: In progress

IDEM enforcement staff will continue to work with U.S. EPA R5 to develop and implement the annual Joint State/U.S. EPA R5 CWA Enforcement and Permitting Work Plan. IDEM has been and will continue to participate in annual planning meetings.

- Participate in routine and regular meetings to discuss progress toward meeting annual permitting and enforcement commitments, and how the state has been performing overall in the NPDES program.

JAPC Status: In progress

IDEM enforcement staff participates in regular meetings. SNC meetings are held routinely.

FEC Status: In progress

Compliance staff continues to identify NPDES facilities in SNC status and to coordinate routine meetings to review SNC facilities and determine the appropriate response.

b) Track priorities established and selected for each federal fiscal year.

JAPC Status: In progress

Established priorities are tracked.

FEC Status: In progress

Established priorities are tracked.

c) U.S. EPA R5 will lead, assist or work share, as specified, in the annual work plan. U.S. EPA R5 will submit a summary report to Headquarters on behalf of the state annually, by December 31. U.S. EPA R5 will take action to improve performance if IDEM is not meeting performance expectations, and will ensure compliance with all federal Consent Decrees and Administrative Orders.

JAPC Status: Ongoing

U.S. EPA R5 provides program assistance as needed.

FEC Status: Ongoing

Compliance Monitoring Strategy (CMS) for Core National Pollution Discharge Elimination System (NPDES) Programs		**W-7**
IDEM Contact(s): a) Mark Stanifer & Bridget Murphy, b) Mark Stanifer c) – g) Mark Stanifer & Gary Starks	U.S. EPA R5 Contact(s): James Coleman, Jack Bajor & Patrick Kuefler	Due Date: a, b, c, d, g, h) Annual Basis; e, f, i) Ongoing.
U.S. EPA R5 Role: Provide program assistance.		
Goal 5:	Enforcing environmental laws.	

Objective 5.1:	Enforce environmental laws.
Funding:	State

U.S. EPA HQ's national CMS began October 1, 2011, and ends September 30, 2015, with implementation over five (5) annual inspection cycles. Indiana's continuing state-specific CMS, for purposes of this EnPPA agreement, runs from October 1, 2013, through September 30, 2015. The goal is to maintain an adequate enforcement and compliance assistance program to help ensure that NPDES violations are prevented and, when violations occur, they are adequately addressed.

a) NPDES Compliance Inspections from October 1, 2013, through September 30, 2015:

- Majors: conduct compliance evaluation inspections (CEI) or compliance sampling inspections (CSI) at 50% of major NPDES facilities annually. The goal is that 100% of the universe will receive a CEI or CSI inspection every two (2) years, in accordance with the national CMS.

  JAPC Status: In progress

  Inspections of NPDES facilities continue as scheduled. Between October 1, 2013 and March 31, 2014, a total of 85 major facilities were inspected.

  FEC Status: In progress

  Inspections are being conducted as planned and the commitment for major discharger inspections will be completed by September 30, 2015.

- Minors - municipal and industrial "IN0" facilities: Traditional minor NPDES facilities, for purposes of the EnPPA, include individual non-major municipal and industrial facilities with permit numbers beginning with "IN0." Conduct inspections at 50% of "traditional" minor NPDES facilities annually. Half of those inspections are to be CEIs or CSIs. The goal is that 100% of the universe will receive some type of inspection every two (2) years and 100% of the universe will receive a CEI or CSI inspection every four (4) years.

  JAPC Status: In progress

  Between October 1, 2013 and March 31, 2014, a total of 342 minor industrial and municipal NPDES permit holders with "IN0" permits were inspected.

  FEC Status: In progress

  Inspections are being conducted as planned and the commitment for minor discharger inspections will be completed by September 30, 2015.

- Minors - industrial pretreatment "INP" facilities: Conduct CEIs at 100% of the universe every two (2) years.

  JAPC Status: In progress

  Between October 1, 2013 and March 31, 2014, a total of 82 NPDES permit holders with "INP" permits were inspected.

  FEC Status: In progress

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Inspections are being conducted as planned and the commitment for "INP" inspections will be completed by September 30, 2015.

- Minors - state and federal "IN0" facilities: Conduct CEIs at 100% of the universe every two (2) years.

  JAPC Status: In progress

  Between October 1, 2013 and March 31, 2014, a total of 11 minor state and federal NPDES permit holders with "IN0" permits were inspected.

  FEC Status: In progress

  Inspections are being conducted as planned and the commitment for state and federal discharger inspections will be completed by September 30, 2015.

- Major and minor mixed ownership or semi-public facilities: Conduct CEIs or CSIs at 50% of mixed ownership NPDES facilities annually. The goal is 100% of the universe will receive a CEI or CSI inspection every two (2) years.

  JAPC Status: In progress

  Between October 1, 2013 and March 31, 2014, a total of 149 semi-public NPDES permit holders with "IN0" permits were inspected, which includes four major facilities.

  FEC Status: In progress

  Inspections are being conducted as planned and the commitment for mixed ownership (semi-public) discharger inspections will be completed by September 30, 2015.

- General permits "ING" facilities: Conduct CEIs, CSIs, or reconnaissance inspections at 25% of the universe each year. This excludes facilities with general permit coverage such as MS4s, industrial storm water sites, construction storm water sites, and under the vessel general permit.

  JAPC Status: In progress

  Between October 1, 2013 and March 31, 2014, a total of 60 general NPDES permit holders with "ING" permits were inspected.

  FEC Status: In progress

  Inspections are being conducted as planned and the commitment for ING permit inspections will be completed by September 30, 2015.

- Respond to 100% of complaints.

  JAPC Status: In progress

  OWQ continues to respond to 100% of complaints.

  FEC Status: Ongoing

  Office of Water Quality continues to respond to 100% of complaints.

b) Conduct nine (9) industrial pretreatment audits annually (20% of approved local pretreatment programs) assuring that all SIUs for those programs have control mechanisms (U.S. EPA PAM [WQ-14a]).

JAPC Status: In progress

Between October 1, 2013 and March 31, 2014, a total of four pretreatment audits were conducted.

FEC Status: In progress

All planned industrial pretreatment audits will be completed by September 30, 2015.

c) Conduct QA/QC reviews of submitted self-monitoring data to evaluate reliability.

JAPC Status: In progress

The Compliance Data Section continues to dedicate several full time staff to conduct QA/QC reviews of discharge monitoring reports.

FEC Status: Ongoing

The Compliance Data Section continues to dedicate several full time staff to conduct QA/QC reviews of discharge monitoring reports. The specific details of this task continue to change with more permittees participating in electronic reporting.

d) Significant non-compliers (SNC):

- Goals are to maintain the SNC rate for majors below 10%, as measured on a quarterly basis. SNC rate shall be below 17% on an annual basis.

JAPC Status: In progress

The routine teleconferences with U.S. EPA R5 to discuss SNC will continue to take place. The SNC rate commitment continues to be met. IDEM OWQ staff continue to meet regularly to discuss all majors identified in SNC. U.S. EPA R5 is included in these conversations and the decisions concerning next steps that come from them. During the FFY 2014, the following information relates to the 191 Indiana major dischargers:

- 42 facilities were listed as SNC at some point during the year, which is 22% of all majors. These include 10 industries, 30 municipalities and 2 semi-publics (BPPs).
- The average duration of SNC listing for these facilities is two quarters.
- In the first quarter, there were 19 facilities listed, or 10% of the total. These included 7 for late/missing DMRs, 2 for schedule violations, 6 for effluent violations, and 4 for other non-SNC violations accompanying some SNC violation.
- In the second quarter, there were 24 facilities listed, or 12.6% of the total. These included 3 for late/missing DMRs, 3 for schedule violations, 11 for effluent violations, and 7 for other non-SNC violations accompanying some SNC violation.
- In the third quarter, there were 26 facilities listed, or 13.6% of the total. These included 1 for late/missing DMRs, 9 for schedule violations, 12 for effluent

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violations, and 4 for other non-SNC violations accompanying some SNC violation.

- In the fourth quarter, there were 17 facilities listed, or 8.9% of the total. These included 4 for late/missing DMRs, 1 for schedule violations, 9 for effluent violations, and 3 for other non-SNC violations accompanying some SNC violation.
- The most common effluent violations are for chlorine, ammonia nitrogen, and copper. Chlorine and copper violations are often attributed to the very low limits that are set, usually near the detection level. Many ammonia violations this year were attributed to the very cold winter that we experienced.
- While every instance of SNC is reviewed for the appropriate response, only certain ones are selected for formal enforcement. The following were the enforcement responses for the 42 listed facilities:
    - One is under an existing federal Consent Decree.
    - 6 already had existing state Agreed Orders for substantially similar violations.
    - 5 had state AOs completed during the review period.
    - 26 had informal enforcement during the review period (with 7 overlapping other categories).
    - 2 have had state AOs completed after the review period.
    - 6 have been referred to enforcement and formal enforcement is pending.

FEC Status: Ongoing

The routine teleconferences with U.S. EPA R5 to discuss SNC continue to take place. The SNC rate commitment continues to be met. IDEM Office of Water Quality staff continue to routinely evaluate all majors identified in SNC. For the 3rd quarter (April – June) of 2015: Of the 192 Indiana major NPDES permit holders there are fourteen appearing on the list, or 7.3%. Nine with effluent violations, three with missing DMR violations and two with compliance schedule violations. The circumstances for the violations are being reviewed, and IDEM is developing appropriate compliance or enforcement measures (violation letters or enforcement referrals) to address and return the facilities to compliance.

- IDEM and U.S. EPA R5 will monitor facilities on the watch list and take action, as appropriate.

JAPC Status: In progress

IDEM continues to monitor facilities on the Watch List and takes appropriate action when necessary.

FEC Status: Complete

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Because IDEM understands that U.S. EPA R5 is no longer actively using the watch list, facilities with chronic violations are being managed through the SNC review process discussed above.

e) Evaluate all violations and take timely action (informal and formal), in accordance with the state's NPDES enforcement management system (EMS).

JAPC Status: In progress

The Compliance Branch continues to track violations identified through inspections, as well as self-reported violations, in accordance with the EMS.

FEC Status: Ongoing

This task continues as planned. While many violations are addressed through informal enforcement actions (violation letters), others are escalated to referrals for formal enforcement action.

f) Enter wastewater compliance monitoring and compliance assurance actions into Integrated Compliance Information System – National Pollution Discharge Elimination System (ICIS-NPDES), in accordance with established data requirements and reporting time frames.

JAPC Status: In progress

The Compliance Data Section continues to enter DMRs, inspections, formal, and informal actions into ICIS.

FEC Status: Ongoing

This activity continues as planned, including the recording of SEVs identified through inspections for major dischargers in ICIS.

g) Report wastewater CMS inspection numbers as of March 31 and September 30. Review plans and commitments prior to the beginning of the federal fiscal year and at mid-year. Variations from the inspection frequencies and proposed revisions to numerical end-of-year commitments will be justified (i.e., issues related to staffing, funding, new priorities).

JAPC Status: Complete

The CMS inspection numbers have been reported to U.S. EPA R5.

FEC Status: In progress

Other than as agreed in the new CMS, there have been no variances from the planned inspection frequencies. The biggest challenges facing IDEM at this point involve CSO communities and stormwater facilities.

h) Cooperate in the triennial State Review Framework (SRF) Indiana review by providing data, in-person management and staff interviews as needed, for U.S. EPA R5 to assess IDEM's performance of compliance monitoring and enforcement activities in accordance with negotiated commitments. Develop a plan to address concerns identified during SRF reviews and implement that plan.

JAPC Status: Complete

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The SRF was completed in 2013. U.S. EPA R5 completed the Round 2 State Review Framework for Indiana in early 2013. U.S. EPA R5 sent the final report to Commissioner Easterly in a document dated May 17, 2013. The following discussion summarizes the findings of this report and how OWQ Compliance has responded to the findings of that report, to date:

Element 1: Data Completeness

U.S. EPA R5 found that there was a permit type discrepancy between its expectation and how IDEM had entered the 329 facilities with non-stormwater general NPDES permits into ICIS. This caused erroneous 1A4 Data Metric results. This finding was accurate but the process was also intentional on IDEM's part because IDEM has always treated these general permits the same as individual permits. Once the new general permits currently on public notice are finalized and permit coverage for these facilities are transferred over to these new general permits, this issue will be resolved in ICIS.

U.S. EPA R5's findings state that all facilities with general permit coverage under Rules 5, 6, and 13 need to be entered into ICIS. This has not been done, with the plan for this to be done through TEMPO when it is ready.

U.S. EPA R5 found that Indiana's DMR entry rate (into ICIS) of 92.4% for major facilities met the SRF goal of 90% but not the national data system goal of 95%. As explained previously, this is almost entirely attributable to the federal consent decree with Indianapolis, which allows CSO DMRs to be submitted semiannually, even though ICIS is expecting them monthly, and therefore ICIS generates reporting violations for the ten months each year when Indianapolis does not submit these reports. For FFY 2014 the ECHO SRF results show Indiana with a 99.7% data entry rate.

U.S. EPA R5 also found that NOVs were not being entered into ICIS. NOVs for facilities with NPDES and IWP permits are now being entered into ICIS as informal enforcement actions.

Element 2: Data Accuracy

For this element U.S. EPA R5 reviewed a select set of files for data accuracy. Several files were found to have some type of data entry deficiency. In addition, U.S. EPA R5 found that IDEM was not entering enforcement violation type codes into ICIS. Subsequent to EPA's report, staff have been directed to enter enforcement violation type codes into ICIS, and continuing effort is being made to include all required data into ICIS.

Element 3: Timeliness of Data Entry

As with Element 2, U.S. EPA R5 reviewed the same set of files for data timeliness. It found that 76.9% had all mandatory data entered in a timely basis. These files represented several areas including individual permits, stormwater permits and CAFOs. Subsequent to U.S. EPA R5's findings, OWQ worked with OLQ to enter all required elements for CAFOs holding NPDES permits. This task may still need to be done for auto salvage facilities overseen by OLQ. Continuing effort is being made by Compliance staff to enter all required data in a timely manner.

Element 4: Completion of Inspection Commitments

U.S. EPA R5 found that IDEM met almost all of its commitments during the review period. These include inspections conducted by Compliance Branch and SWOE Branch. There was some confusion over how Single Event Violations (SEVs) are entered into ICIS and generally how the rules of SNC apply. Of the minor issues that were identified, the most common was timeliness of inspection reports. With the full implementation of digital inspector after the SRF review, the timeliness issue has been resolved.

Elements 7 and 8: Identification of Alleged Violations; Identification of SNC

Some of the issues identified by U.S. EPA R5 under Elements 7 and 8 are linked to issues raised earlier under Elements 2, 3, and 4. The report requires IDEM to review the national SEV guidance and develop a plan for resolution of schedule violations and documentation of SEVs in ICIS. IDEM believes the schedule violation issue was largely resolved prior to the final SRF report, and IDEM has subsequently reviewed the SEV policy and begun entering SEVs identified in inspection reports into ICIS. SEVs identified during inspections of major dischargers are being entered into ICIS. SEVs are also entered and linked for all formal enforcement actions. SEVs are still not being manually flagged as SNC.

U.S. EPA R5 and IDEM staff are planning an event in early 2015 for U.S. EPA R5 staff to train IDEM on SNC. IDEM is looking forward to this event to better understand this process and address the issue above.

Element 10: Timely and Appropriate Action

U.S. EPA R5 found that IDEM enforcement actions are generally appropriate but not timely, and required IDEM to review national guidance and develop a plan for timely identifying, addressing, and reporting SNC violations in ICIS. Compliance staff believes that violations are identified and reported timely, but that when formal enforcement is the chosen route for resolution, our process generally does not allow a “final formal” action to be completed within EPA’s timeliness expectation.

As with Elements 7 and 8 discussed previously, IDEM plans to meet with U.S. EPA R5 and go through its presentation and training on SNC. While the Indiana statutes and rules prescribing IDEM’s enforcement process may not change, and IDEM’s overall policy of compliance-first may not change, this training will help IDEM staff in having a better understanding of how SNC works and what is expected.

FEC Status: In progress

The above issues have not changed significantly since the Joint Assessment Process Conditions report. The new general permits are not yet final, but once this is completed changes to the way general permits are recorded in ICIS will be made. IDEM’s Office of Water Quality is working on a major project with the Office of Information Services to develop applications to flow the stormwater permit information from TEMPO to ICIS, and also prepare for the implementation of the eReporting Rule, particularly Phase 2.

i) U.S. EPA R5 will provide program assistance.

JAPC Status: Ongoing

U.S. EPA R5 provides program assistance as needed.

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FEC Status: Ongoing

Safe Drinking Water Act (SDWA)		**W-8**
IDEM Contact(s): a) Stacey Jones, b, c, d, e) & Al Lao f) & Liz Melvin	U.S. EPA R5 Contact(s): Tom Poy	Due Date: a, b, c, d) Ongoing; e) Annually f) Ongoing.
U.S. EPA R5 Role: a) Review and approve rules, b) Maintain and update the Safe Drinking Water Information System (SDWIS) database including the state version, SDWIS-state, c) Provide compliance assistance, e) Take necessary enforcement action to help reduce the level of non-compliance among small water systems, and f) Provide support for continued development and improvement of the electronic sanitary survey form.		
Goal 2:	Protect America's waters.	
Objective 2.1:	Protect human health.	
Funding:	PPG	

a) Implement new federal safe drinking water rules, including re-codifying state rules as outlined in the Annual Resource Deployment Plan (ARDP).

JAPC Status: In progress

The latest re-codified safe drinking water rule was the LT2ESWTR primacy application and was submitted to U.S. EPA R5 in May 2011 for primacy approval. IDEM is currently working on re-codifying the Revised Total Coliform Rule (RTCR).

FEC Status: In progress

IDEM continues to work on re-codifying the Revised Total Coliform Rule (RTCR).

b) Submit all required federal reporting as referenced in the Annual Resource Deployment Plan (ARDP), which tracks Strategic Targets SDW-211, SP1.N11, SP2, SP4a, and SP4b, as well as Program Activity Measures SDW-01a, 04, 05, and SDWA02.

JAPC Status: Ongoing

The final FY2013 ARDP was submitted to U.S. EPA R5 in December 2013. The activities necessary to meet the ARDP commitments are progressing in a satisfactory manner. IDEM has submitted the comments for the FY2014 ARDP.

FEC Status: Ongoing

IDEM is meeting its ARDP commitments.

c) Maintain the Public Water Supply Supervision Program by maintaining a database management system SDWIS that accurately tracks the inventory (including routine updates of system information), violations and enforcement, sampling information and compliance determination for all safe drinking water contaminants.

JAPC Status: Ongoing

The Drinking Water Branch Compliance Section has been maintaining the SDWIS database for inventory, sampling, violations, enforcement, and compliance determination on a daily basis. IDEM's SDWIS/State utilizes the most current version of 3.2.1.

FEC Status: Ongoing

The Drinking Water Branch Compliance Section maintains the SDWIS database for inventory, sampling, violations, enforcement, and compliance determination on a daily basis. IDEM's SDWIS/State utilizes the most current version.

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d) Monitoring and reporting violations - All public water systems (PWSs) with violations will first receive a violation letter. For systems that do not correct the violation after receiving the violation letter, IDEM will initiate formal enforcement actions, as appropriate, consistent with agency policies and procedures.

JAPC Status: Ongoing

The monitoring and reporting (M/R) violation letter is issued monthly for noncompliant community water systems (CWS) and non-community water systems (NCWS) with populations greater than 1,000 for the total coliform rule (TCR); while quarterly the M/R violation letter is issued for NCWS with populations less than 1,000. These letters are issued within 30 days after the end of the monitoring period. Likewise, for chemical contaminants, the M/R letter is issued within 30 days after the end of each monitoring period as well. If a public water system exceeds U.S. EPA's Enforcement Response Policy (ERP) Enforcement Targeting Tool (ETT) threshold of 10, IDEM will initiate appropriate formal enforcement actions if the violation cannot be resolved within 30 days.

FEC Status: Ongoing

The monitoring and reporting (M/R) violation letter is issued monthly for noncompliant community water systems (CWS) and non-community water systems (NCWS) with populations greater than 1,000 for the total coliform rule (TCR); while quarterly the M/R violation letter is issued for NCWS with populations less than 1,000. These letters are issued within 30 days after the end of the monitoring period. Likewise, for chemical contaminants, the M/R letter is issued within 30 days after the end of each monitoring period as well. If a public water system exceeds U.S. EPA's Enforcement Response Policy (ERP) Enforcement Targeting Tool (ETT) threshold of 10, IDEM will initiate appropriate formal enforcement actions if the violation cannot be resolved within 30 days.

Maximum Contaminant Level (MCL) Violations - 92% of population served by community water systems will receive drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection (SDW-211).

e) Maximum Contaminant Level (MCL) Violations - 92% of population served by community water systems will receive drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection (SDW-211).

JAPC Status: Ongoing

For MCL violations, IDEM's compliance rate for all PWSs has exceeded 95% of the population served by CWSs.

FEC Status: Ongoing

For MCL violations, IDEM's compliance rate for all PWSs has exceeded 95% of the population served by CWSs – for the timeframe 2nd quarter 2014 through 1st quarter 2015; the compliance rate was 96.77%.

f) Sanitary surveys at public water supply systems (PWSs) - Complete sanitary surveys at PWSs consistent with SDWA and as outlined in the ARDP.

JAPC Status: Ongoing

Sanitary surveys are being completed as outlined in IDEM's ARDP.

FEC Status: Ongoing

Sanitary surveys are being completed as outlined in IDEM's ARDP.

g) U.S. EPA R5 will:

- Review and approve rules.
- Maintain and update the SDWIS database including the state version, SDWIS-state.
- Provide compliance assistance.
- Take necessary enforcement action to help reduce the level of non-compliance among small water supply systems.
- Provide support for continued development and improvement of the electronic sanitary survey form.

JAPC Status: Ongoing

U.S. EPA R5 provides program assistance as needed.

FEC Status: Ongoing

Surface Water Quality Monitoring Strategy		**W-9**
IDEM Contact(s):a), b) & d) Marylou Renshaw, Cyndi Wagner, & Stacey Sobat c) Chuck Bell	U.S. EPA R5 Contact(s): Linda Holst, Mari Nord & Ed Hammer	Due Date: Annually.
U.S. EPA R5 Role: Provide assistance in revising monitoring strategy. Review and provide comments on draft and final products. Work with IDEM to implement the strategy and identify resources to address identified gaps. Work with IDEM to identify resources to address issues identified in the strategy and provide technical assistance/guidance as requested. Provide meeting support and travel support as available.		
Goal 2:	Protect America's waters.	
Objective 2.2:	Protect and restore watersheds and aquatic ecosystems.	
Funding:	PPG	

a) Implement the 2011-2019 Water Monitoring Strategy in the 2013 and 2014 monitoring seasons (U.S. EPA PAM WQ-5). IDEM will use the EnPPA update reporting procedures to provide information on progress, with the elements and level of details agreed upon by IDEM and U.S. EPA R5.

JAPC Status: In progress

IDEM has implemented and made adjustments to the 2011-2019 WQMS. IDEM had a bioassessment review completed by a U.S. EPA contractor in January 2014, and is in the process of further revising and refining the WQMS for submission to U.S. EPA R5 by December 31, 2014.

FEC Status: Complete

See W-1 (b) and W-2 (b).

b) Participate in regional monitoring newsletter, webinars and activities, as resources allow.

JAPC Status: Ongoing

OWQ managers and staff have participated in webinars on NWQI, HABS, climate change stream monitoring etc., as well as a number of the Indiana Watershed Leadership Academy webinars and U.S. EPA State Nutrient Reduction webinars, as time allows.

FEC Status: Ongoing

OWQ managers and staff have participated in webinars on NWQI, HABS, climate change stream monitoring etc., as well as a number of the Indiana Watershed Leadership Academy webinars and U.S. EPA R5 State Nutrient Reduction webinars, as time allows.

c) IDEM will continue to implement a regular schedule to upload water quality data to U.S. EPA HQ's national Storage and Retrieval (STORET) system through an updated Assessment Information Management System (AIMS) database.

JAPC Status: Ongoing

All surface water chemistry and bacteriological data are uploaded from the AIMS database to STORET through the IDEM WQX Node as soon as WAPB Quality Assurance processes are completed on the data. WAPB surface water chemistry and bacteriological data generated from 1993 through 2013 are available in the STORET file INSTOR_WQX. Biological data uploaded from fish and macroinvertebrate community sampling efforts are projected to be completed by the end of this year after conflicts between AIMS and STORET naming conventions are rectified.

FEC Status: Ongoing

The nomenclature issues for biological samples between AIMS and STORET have been resolved; thus, uploading of biological data is ongoing.

d) Provide separate, timely reports, as required by the grant agreements, on all activities funded by the monitoring initiative funds (specific activities are identified in separate amended grant work plans, including implementation of the national surveys and monitoring strategy activities).

JAPC Status: Ongoing

The U.S. EPA Biological Assessment Program (BAP) review took place January 28-30, 2014. In April 2014, a work plan to modernize the IBI for fish and macroinvertebrate communities, as recommended by the BAP review, was submitted to U.S. EPA R5 for FY Section 106 Monitoring Initiative funds. IDEM will not be sampling for the National Coastal Condition Assessment or the National Rivers and Streams Assessment; however, IDEM continues to implement a statistical survey design to assess all waters of the state on a nine-year, rotating basin schedule.

FEC Status: Ongoing

IDEM provides separate, timely reports, as required by the grant agreements, on all activities funded by the monitoring initiative funds.

e) U.S. EPA R5 will:

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- Provide assistance in revising monitoring strategy.
- Review and provide comments on draft and final products.
- Work with IDEM to implement the strategy and identify resources to address identified gaps.
- Work with IDEM to identify resources to address issues identified in the strategy and provide technical assistance/guidance as requested.

JAPC Status: Ongoing

U.S. EPA R5 has reviewed draft IDEM work products and provided timely comments.

FEC Status: Ongoing

Water Quality Standards		**W-10**
IDEM Contact(s): a) and b) Martha Clark Mettler and Shivi Selvaratnam	U.S. EPA R5 Contact(s): Linda Holst, David Pfeifer, Holly Wirick (UAAs) & Brian Thompson (nutrients)	Due Date: Ongoing.
U.S. EPA R5 Role: Participate in rulemaking workgroups or meetings, as requested by IDEM. Review draft IDEM work products and provide timely comments. To the extent that resources are available, assist IDEM with travel support for regional meetings, such as the Regional Technical Assistance Group (RTAG) and Water Quality Standards (WQS) meetings.		
Goal 2:	Protect America's waters.	
Objective 2.2:	Protect and restore watersheds and aquatic ecosystems.	
Funding:	Federal Water Quality Grants	

IDEM will work to complete timely water quality standards (WQS) revisions.

a) IDEM will work with external stakeholders to update metals criteria to reflect current science. IDEM's goal is to have the revised metals criteria language second noticed by December 30, 2013. IDEM will continue to evaluate how and when to incorporate other criteria revisions when U.S. EPA R5 publishes new 304(a) recommendations.

JAPC Status: In progress

IDEM first noticed in the Indiana Register the proposed revised metals criteria on March 5, 2014 with a 30 day comment period which ended April 4, 2014.

FEC Status: Ongoing

IDEM Office of Water (OWQ) Quality and Office of Legal Counsel are close to finalizing the second notice for comment on metals criteria updates. OWQ has monthly, internal discussions to understand implementation issues and prioritize 304(a) recommendations for rule revisions.

b) Implement nutrient criteria development plan (U.S. EPA PAMs WQ-1a and WQ-3a), participate in regional activities (Regional Technical Assistance Group (RTAG) meetings and conference calls), and provide U.S. EPA R5 with revisions to the nutrient criteria development plan by August 1 of each fiscal year and interim work products for U.S. EPA R5 input (U.S. EPA PAM WQ-26). IDEM's goal is to have rule language for a WQS for phosphorus in lakes adopted by December 31, 2014.

JAPC Status: In progress

IDEM continues to work to implement its nutrient criteria development plan and holds regular internal meetings to discuss challenges encountered in developing and implementing numeric nutrient criteria. This goal should be revised to align with the submitted schedule: proposing phosphorus WQS for lakes as December 2015 with a target to adopt the criteria by December 2016.

FEC Status: Ongoing

IDEM is reevaluating its NNC development plan to understand data gaps and reprioritize next steps.

c) U.S. EPA R5 will:

- Participate in rulemaking workgroups or meetings, as requested by IDEM.
- Review draft IDEM work products and provide timely comments.
- Assist IDEM with travel support for regional meetings (RTAG, WQS) as resources are available.
- IDEM is open to discussing the possibility of adjustments to IDEM's approach to managing mercury in NPDES discharges when the work with Battelle on an update to the 1997 report regarding the technical underpinnings for part of Indiana's mercury multiple-discharger variance is complete.

JAPC Status: In progress

U.S. EPA R5 has reviewed draft IDEM work products and provided timely comments.

FEC Status: Ongoing

Homeland Security

Homeland Security			H-1
IDEM Contact(s): Max Michael & Laura Steadham	U.S. EPA R5 Contact(s): Roger Kanerva	Due Date: To be established.	
U.S. EPA R5 Role: Provide guidance and federal coordination.			
Goal 1:	Taking action on climate change and improving air quality.		
Objective 1.2:	Improve air quality.		
Funding:	Federal		
Goal 2:	Protect America's waters.		
Objective 2.1	Protect human health.		
Funding:	Federal		

Assist in the coordination for preventing, protecting against, responding to and recovering from natural or man-made threats and events to people, property and the economy.

a) Provide agency representation for the Indiana Emergency Response Commission (IERC). The IERC is required by the Superfund Amendment and Reauthorization ACT (SARA) Title III and the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 to maintain Title III records in Indiana with the local emergency planning committees.

   JAPC Status: Ongoing

   IDEM has two representatives for the IERC and these representatives attend all Commission meetings.

   FEC Status: Ongoing

   The IERC meets every month.

b) Support the coordination of counter terrorism activities performed by the Counter Terrorism and Security Council (CTASC) for terrorist activities targeted at drinking water utilities and assist in improving the state's ability to respond to a terrorism incident at a drinking water facility.

   JAPC Status: Ongoing

   FEC Status: Ongoing

c) Annually review and provide comments on the Indiana Strategy for Homeland Security.

   JAPC Status: Ongoing

   FEC Status: Ongoing

d) Participate in Homeland Security tabletop exercises.

   JAPC Status: Ongoing

   FEC Status: Ongoing

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e) Continue to review and improve the state's incident debris plan and process as needed. In the event of a significant natural or man-made disaster, work with appropriate agencies to ensure the proper management and disposition of incident debris (including biological or infectious debris and decontamination of related waste) in a manner that is protective of human health and the environment.

JAPC Status: Ongoing

FEC Status: Ongoing

- Incorporate new tools such as the Disaster Debris Recovery Network mapping tool, and work with U.S. EPA R5 to ensure the information for Indiana facilities is regularly updated.

JAPC Status: Ongoing

FEC Status: Ongoing

f) U.S. EPA R5 will provide guidance and federal coordination.

JAPC Status: Ongoing

FEC Status: Ongoing

Indiana Water/Wastewater Agency Response Network (INWARN)		**H-2**
IDEM Contact(s): Bruno Pigott & Adam Watts	U.S. EPA R5 Contact(s): Roger Kanerva	Due Date: To be established.
U.S. EPA R5 Role: Guidance and federal coordination.		
Goal 2:	Protect America's waters.	
Objective 2.1:	Protect human health.	
Funding:	Federal	

The INWARN is a formalized system of members of the water/wastewater regulated community that have come together to address mutual aid during natural and man-made disasters.

a) Support and assist drinking water and wastewater utilities in developing, establishing and utilizing INWARN to facilitate utilities' accessibility to aid during natural and man-made disasters.

JAPC Status: Ongoing

Membership has increased to 105 members, an increase of 4.76% since last correspondence on November 13, 2013. Progress is being made in getting smaller systems to join. One challenge is that small and medium systems continue to be reluctant to join.

FEC Status: Ongoing

Membership has increased to 131 members, an increase of roughly 25% since 2013. Some progress is being made in getting more systems to join. However, the challenge to get small and medium systems to join continues. The organization is proving successful in providing assistance to members when needed. The website has improved dramatically and members are able to send system wide alerts for assistance as needed. IDEM holds a seat in the organization which enables the

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coordination between InWARN, IDEM, and the Emergency Operations Center during periods of activation.

b) Support INWARN efforts, as requested, to market the INWARN mutual aid system to Indiana drinking water and wastewater utilities in order to maximize participation in, and effectiveness of, INWARN.

JAPC Status: Ongoing

Marketing is taking place on a regular basis at professional association meetings, workshops, written media, and inspections. IDEM has joined with professional associations to help with the marketing and to show a united stand. Inspectors discuss emergency response plans during surveys and let systems know about INWARN and advantages to joining. One challenge is that one-on-one discussion seems to be the most effective way to get small systems to join. This task is time consuming. Inspectors, during surveys, take advantage of the opportunity, but with survey schedules, this is not the most efficient way to reach small systems.

FEC Status: Ongoing

Marketing is taking place on a regular basis at professional association meetings, workshops, written media, and inspections. InWARN exhibits at all the major trade shows, including IRWA, Indiana Section AWWA, and Alliance of Indiana Rural Water. IDEM has joined with these and other professional associations to help with the marketing and to show support. Each year IDEM assists in the exhibit booth at the spring and fall conferences. Annually we are at a minimum of 7 conferences. In addition, updates specifically related to InWARN are presented at another 10 district spring and fall Indiana Section AWWA meetings. Inspectors routinely discuss emergency response plans during surveys and let systems know about InWARN and the advantages to joining. IDEM takes advantage of the opportunity, but with survey frequency schedules, this is not the most efficient way to reach small systems. IDEM continues to find that one-on-one discussion seems to be the most effective way to reach and get small systems to join. To that end IDEM met with town boards and council over the past two years with a good success rate. IDEM will continue with these tasks and also will try to find more ways to engage small and medium systems.

c) U.S. EPA R5 will provide guidance and federal coordination.

JAPC Status: Ongoing

FEC Status: Ongoing

BioWatch		**H-3**
IDEM Contact(s): Dick Zeiler & Steve Lengerich	U.S. EPA R5 Contact(s): Shelly Lam & Leonard Zintask	Due Date: To be established.
U.S. EPA R5 Role: Guidance and federal coordination.		
Goal 1:	Taking action on climate change and improving air quality.	
Objective 1.2:	Improve air quality.	
Funding:	State	

a) Conduct BioWatch monitoring in Indianapolis at eight (8) locations.

JAPC Status: Ongoing

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FEC Status: Ongoing

All deviations to routine activities are reported to the Department of Homeland Security via the 48-Hour Reports and posted to the BioWatch Portal.

b) U.S. EPA R5 will provide guidance and federal coordination.

JAPC Status: Ongoing

FEC Status: Ongoing

EPA-R5-2017-006353 Final Prod ED_001281_00051760-00082

Office of Compliance Support (OCS)

Provide Compliance Assistance to Regulated Entities			P-1
IDEM Contact(s): Niles Parker	U.S. EPA R5 Contact(s): Marilou Martin	Due Date: See below.	
U.S. EPA R5 Role: Provide support and guidance.			
Goal 5:	Enforcing environmental laws.		
Objective 5.1:	Enforce environmental laws.		
Funding:	State		

a) Work with businesses, municipalities, and trade associations to educate regulated entities on their compliance requirements. Provide guidance and technical assistance for compliance with air, waste and water regulations. Develop guidance, perform site visits, and answer calls about state and federal regulations.

JAPC Status: Ongoing

FEC Status: Ongoing

b) U.S. EPA R5 will provide support and guidance.

JAPC Status: Ongoing

FEC Status: Ongoing

Unwanted Medicines Disposal Guidance in Indiana			P-2
IDEM Contact(s): Niles Parker	U.S. EPA R5 Contact(s): Jerri-Anne Garl	Due Date: See below.	
U.S. EPA R5 Role: Provide advice and guidance.			
Goal 4:	Ensuring the safety of chemicals and preventing pollution.		
Objective 4.2:	Promote pollution prevention.		
Funding:	State		

a) Provide guidance and technical assistance for proper disposal of unwanted medicines. Develop guidelines for collections conducted by law enforcement, solid waste management districts, pharmacies, and municipalities, as well as local drug task forces.

JAPC Status: In progress

IDEM is a member of the Prescription Drug Abuse Task Force in collaboration with the Indiana Office of the Attorney General (OAG). IDEM's involvement has secured language that aligns with IDEM's goals of creating clean water bodies. Specifically, IDEM collaborated on developing the "Safe Disposal" language for the OAG's "First No Harm: Toolkit" as part of the Bitter Pill initiative. The Bitter Pill initiative educates the general public, practitioners, and pharmacists about safe drugs disposal in general, as well as for environmental reasons. IDEM's goal in participating in this initiative is to mitigate the amount of unused/expired/unwanted medicine being disposed into our water bodies. IDEM also participated in a letter of support for the new-to-Indiana program called the Yellow Jug Old Drugs program, which is sponsored by the Great Lakes Clean Water Organization and the OAG. This program will first target pharmacies in central Indiana and will eventually reach all

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pharmacies state-wide. IDEM maintains an Unwanted Medicine website (http://www.in.gov/idem/recycle/2343.htm) explaining how to properly dispose of medicines as well as a listing of safe disposal locations throughout the state. IDEM also communicates proper disposal methods with the Solid Waste Management Districts, who can then reach their local population for education on the topic.

FEC Status: In progress

IDEM is a member of the Prescription Drug Abuse Task Force in collaboration with the Indiana Office of the Attorney General (OAG). IDEM's involvement has secured language that aligns with IDEM's goals of creating clean water bodies. Specifically, IDEM collaborated on developing the "Safe Disposal" language for the OAG's "First No Harm: Toolkit" as part of the Bitter Pill initiative. The Bitter Pill initiative educates the general public, practitioners, and pharmacists about safe drugs disposal in general, as well as for environmental reasons. IDEM's goal in participating in this initiative is to mitigate the amount of unused/expired/unwanted medicine being disposed into our water bodies. IDEM also participated in a letter of support for the new-to-Indiana program called the Yellow Jug Old Drugs program, which is sponsored by the Great Lakes Clean Water Organization and the OAG. This program will first target pharmacies in central Indiana and will eventually reach all pharmacies state-wide. IDEM maintains an Unwanted Medicine website (http://www.in.gov/idem/recycle/2343.htm) explaining how to properly dispose of medicines as well as a listing of safe disposal locations throughout the state. IDEM also communicates proper disposal methods with the Solid Waste Management Districts, who can then reach their local population for education on the topic.

b) U.S. EPA R5 will provide advice and guidance.

JAPC Status: In progress

FEC Status: In progress

Measurement of Solid Waste Diversion and Recycling			P-3
IDEM Contact(s): Niles Parker	U.S. EPA R5 Contact(s): Jerri-Anne Garl	Due Date: See below.	
U.S. EPA R5 Role: Provide technical assistance and lend support accomplish this goal.			
Goal 4:	Ensuring the safety of chemicals and preventing pollution.		
Objective 4.2:	Promote pollution prevention.		
Funding:	State		

a) Continue to work with the waste hauler industry to measure solid waste diverted from disposal or recycled. Research best measurement options that will enable IDEM to calculate these figures with high levels of accuracy.

JAPC Status: In progress

- House Enrolled Act (HEA) 1183, as signed by Governor Pence on March 25, 2014, establishes a new 50% recycling goal and implements new recycling data reporting requirements. The statute requires IDEM to provide a recycling activity report form on the agency website and an annual report to Legislative Services summarizing the information in a uniform manner by December 31, 2015 and each succeeding calendar year thereafter.

- A web-based reporting system using Re-TRAC Connect was proposed to improve IDEM's ability for collecting, analyzing, and managing solid waste disposal and recycling data involving multiple state forms. Program analytics and report generation requirements are being developed.
- The first report on the implementation of the Indiana E-Waste Law and summary results from the first three years of the Indiana e-waste program are now available on IDEM's recycling website at www.recycle.in.gov.

FEC Status: In progress

- Technical assistance and outreach were conducted to inform reporting entities about Indiana's new reporting for recycling activities. A Recycling Activity Report form and a fact sheet were completed in cooperation and support from solid waste management districts and waste haulers.
- A state contract for a web-based reporting system using Re-TRAC Connect was approved on May 28, 2015. The reporting includes solid waste and recycling data. On-line reporting of recycling data is to begin on October 1, 2015.
- The second report on the implementation of the Indiana E-Waste Law and summary results from the first four years of the Indiana E-cycle program are now available on IDEM's recycling website at www.recycle.in.gov.

b) U.S. EPA R5 will provide advice and guidance.

JAPC Status: In progress

- U.S. EPA R5 is facilitating the State Data Measurement Sharing Program to create a national template that addresses the reporting of recycling and solid waste disposal data by states. In the initial roll out, Indiana participated with 19 other states in submitting data through Re-TRAC Connect for the 2012 Data Measurement Template. Follow-up webinars were conducted to discuss suggestions for improvements, clarifications, definitions, and enhancements of data collection to be considered in the 2013 Measurement Template for next year.
- U.S. EPA R5 hosted webinars and conference calls with MACRO (Mid America Council of Recycling Officials) to discuss recycling and measurement issues. U.S. EPA R5 Fact Sheets also were prepared with assistance from U.S. EPA R5 states that addressed (1) state funding mechanisms for solid waste disposal and recycling; and (2) defining and measuring solid waste recycling and disposal.

FEC Status: In progress

- U.S. EPA completed updates to the 2014 template for the State Data Measurement Sharing Program. Also, the reporting includes a State Resource Module & Feedback forms.

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- Webinar training events were held to discuss the template as well as to get comments, suggestions and recommendations for national reporting of solid waste and recycling data.

Environmental Justice (EJ)			P-4
IDEM Contact(s): Niles Parker	U.S. EPA R5 Contact(s): Lara Lasky	Due Date: See below.	
U.S. EPA R5 Role: Provide advice and guidance.			
Goal 3:	Cleaning up communities and advancing sustainable development.		
Objective 3.3:	Promote sustainable and livable communities.		
Funding:	State		

a) Frame EJ with sound science (fact-based decision making), sound policy; compliance with the law (the Constitution's equal protection clause and federal and state environmental laws and regulations), and provide all communities with the information necessary to participate in the process of making informed decisions about their environment, health and well-being. IDEM is in a position to provide leadership in EJ policy development based on IDEM's principle that "All Hoosiers deserve clean air, water and land."

JAPC Status: In progress

IDEM continues to use sound science and fact based decision making to aid communities in the clean-up of contaminated areas. IDEM continues to provide information and resources to communities to aid them in making informed decisions about their environment, health, and well-being. As part of this effort, IDEM has formed an Environmental Justice committee. The committee is in the process of reviewing current IDEM and U.S. EPA Environmental Justice policies in order to refine and improve IDEM's Environmental Justice policy. This newly formed group will meet monthly until the policy is refined and then quarterly thereafter.

FEC Status: Ongoing

IDEM continues to use sound science and fact-based decision making to aid communities in the clean-up of contaminated areas. IDEM continues to provide information and resources to communities to aid them in making informed decisions about their environment, health, and well-being. IDEM is in the process of reviewing current IDEM and U.S. EPA R5 Environmental Justice policies in order to refine and improve IDEM's Environmental Justice policy.

b) Develop a summary document of IDEM's commitment to protecting Indiana communities in relationship to U.S. EPA HQ's "Plan EJ 2014" for advancing environmental justice across the agency—comparing and integrating federal with state initiatives when feasible.

JAPC Status: In progress

IDEM has developed a draft document outlining IDEM's commitment to protecting Indiana communities and is outlining a plan for developing and/or enhancing relationships with communities throughout the state.

FEC Status: Incomplete

Draft document not finalized.

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c) Review grant and cooperative agreement opportunities to better focus IDEM's EJ outreach initiatives to local communities on targeted issues.

JAPC Status: Ongoing

IDEM continually searches for possible grant opportunities to assist in developing outreach tools and programs to help the agency be more involved with communities and environmental groups.

FEC Status: Ongoing

IDEM continually searches for possible grant opportunities to assist in developing outreach tools and programs to help the agency be more involved with communities and environmental groups.

d) Update IDEM's website section on EJ.

JAPC Status: In progress

IDEM is currently in the process of refining the web page for Environmental Justice. The newly formed Environmental Justice committee has been tasked with addressing the web page updates.

FEC Status: In progress

IDEM is currently in the process of refining the web page for Environmental Justice.

e) U.S. EPA R5 will provide advice and guidance.

JAPC Status: Ongoing

U.S. EPA R5 hosts monthly Environmental Justice calls to discuss the latest issues and policies concerning Environmental Justice. The meetings are informative and helpful and allow IDEM staff an opportunity to ask U.S. EPA R5 staff questions.

FEC Status: Ongoing

U.S. EPA R5 hosts monthly Environmental Justice calls to discuss the latest issues and policies concerning Environmental Justice. The meetings are informative and helpful and allow IDEM staff an opportunity to ask U.S. EPA R5 staff questions.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

August 21, 2015

Susan Hedman, U.S. EPA R5 Regional Administrator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3507

Dear Ms. Hedman:

Re: Final Environmental Conditions Report

Please find enclosed the Final Environmental Conditions Report for the Indiana Department of Environmental Management 2013 - 2015 Environmental Performance Partnership Agreement (EnPPA). This is the final report that includes status updates for all activities for the EnPPA cycle from July 1, 2013, through June 30, 2015.

Please contact Niles Parker at (317) 233-1210 or Jacob Schmicker at (317) 234-8710 with any questions or if additional information is needed.

Sincerely,

Thomas W. Easterly
Commissioner

Enclosure
Cc: Carol Comer, IDEM
Samantha Dewester, IDEM
Allen Melcer, U.S. EPA R5
Martha Robinson, U.S. EPA R5

To: Rowan, Anne[rowan.anne@epa.gov]
Cc: 'Porter, Andrea'[porter.andrea@epa.gov]; 'Poy, Thomas'[poy.thomas@epa.gov]; 'Del Toral, Miguel'[deltoral.miguel@epa.gov]; Sulej, Erik[Sulej.Erik@epa.gov]
From: Bair, Rita
Sent: Wed 5/3/2017 1:51:08 PM
Subject: FW: [Leadnet] Resources for Families - Lead Service Line Replacement

This is an FYI about a response to what we thought was a citizen, but turns out to be a law professor who commented in an InsideEPA article. Is there anything you think we need to do?

-----Original Message-----
From: Porter, Andrea
Sent: Wednesday, May 03, 2017 8:35 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Sulej, Erik <Sulej.Erik@epa.gov>
Subject: FW: [Leadnet] Resources for Families - Lead Service Line Replacement

Hi Rita,

I sent the email below in response to a question posted to the Leadnet list serve.

I thought I was responding to a citizen, but it looks like Emily Benfer is a "a law professor with expertise on lead issues" who commented on East Chicago in this InsideEPA article --> https://insideepa.com/daily-news/despite-pledges-lead-cleanup-site-citizen-advocates-fear-rule-rollbacks

I hope my email to her is not controversial since it includes only excerpts from EPA websites. But, do you think we need to let Public Affairs know?

Let me know what else I should do on this.

Thanks,
Andrea Porter

Environmental Engineer
Ground Water & Drinking Water Branch
U.S. EPA, Region 5 (WG-15J)
77 W. Jackson Blvd.
Chicago, IL 60604
Phone: 312-886-4427
Fax: 312-697-2656

-----Original Message-----
From: Porter, Andrea
Sent: Wednesday, May 03, 2017 8:01 AM
To: **Ex. 6 - Personal Privacy**
Subject: RE: [Leadnet] Resources for Families - Lead Service Line Replacement

Hi Emily,

Here's some advice from EPA websites.

1) Flush the lines after the work is done. Link --> https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water

Excerpt: "Instructions for flushing out the particles and sediment following a disturbance to your lead

service line.

If you have a lead service line and your lead service is disturbed, lead in your drinking water can increase to dangerous levels and particles containing high levels of lead can become trapped in your home plumbing.

Avoid bringing the lead-containing particles and sediment into your home or to the tap you drink from by following these instructions whenever your lead service is disturbed.

Find the closest available tap to where the water comes into the home that is not used for drinking water (such as an outside hose bib, laundry sink or bathtub) to flush the lead-containing particles out of the plumbing. Fully open the cold water tap and let the water run for at least five minutes to flush the lead-containing particles out of the plumbing so that the particles and sediment do not enter the rest of your household plumbing. The key is to pick the closest faucet not used for drinking that would result in the least amount of particles and sediment coming into the home plumbing."

2) Data from field studies in Flint, MI showed that certified filters can effectively reduce risk from even high levels of lead in drinking water. Link --> https://www.epa.gov/sites/production/files/2016-06/documents/filter_challenge_assesment_field_report_-_epa_v5.pdf

Excerpt: "On June 22, 2016, ATSDR provided a summary of their review of EPA's data (attached). Their conclusion is that the Brita and Pur filters distributed in Flint are effective in consistently reducing the lead in tap water, in most cases to undetectable levels, and in all cases to levels that would not result in a significant increase in overall lead exposure. ATSDR also reported that the filter test data supports the conclusion that the use of filtered water would protect all populations, including pregnant women and children, from exposure to lead-contaminated water."

Feel free to contact me if you have more questions.

Thanks,
Andrea Porter

Environmental Engineer
Ground Water & Drinking Water Branch
U.S. EPA, Region 5 (WG-15J)
77 W. Jackson Blvd.
Chicago, IL 60604
Phone: 312-886-4427
Fax: 312-697-2656

-----Original Message-----
From: leadnet@mail-list.com [mailto:leadnet@mail-list.com] On Behalf Of Emily Benfer
Sent: Tuesday, May 02, 2017 12:02 PM
To: leadnet@mail-list.com
Subject: [Leadnet] Resources for Families - Lead Service Line Replacement

Hello,

Could you please recommend any resources for families who will be exposed to lead in their water after a city lead service line replacement? Any information related to protecting the occupants from lead poisoning would be helpful. For example, do best practices include frequent water testing after the replacement, filters (on all faucets?), showers v baths for children? Thank you for your thoughts on this.

Best regards,
Emily

--

Emily A. Benfer

Ex. 6 - Personal Privacy

Leadnet is a free service brought to you by the National Center for Healthy Housing.
For more information on NCHH and its programs, visit www.nchh.org.

A blank message to these addresses performs the following -
Leadnet-on@mail-list.com subscribes you to the list.
Leadnet-off@mail-list.com unsubscribes you from the list.
Leadnet-switch@mail-list.com toggles you to/from the fancy digest version.
Leadnet-vacation@mail-list.com toggles you to/from the vacation list.

Post your message to the list by sending it to Leadnet@mail-list.com.

To contact the list owner, send your message to
Leadnet-list-owner@mail-list.com.

mail-list.com 1302 Waugh Dr. #438 Houston, Texas 77019 USA

To unsubscribe, switch to/from digest, get on/off vacation, or change your email address, click here.
<http://cgi.mail-list.com/u?ln=leadnet&nm=porter.andrea%40epa.gov>

To: Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Wed 4/19/2017 4:18:37 PM
Subject: RE: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

I did not take the call.

From: Porter, Andrea
Sent: Wednesday, April 19, 2017 10:34 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Sulej, Erik <Sulej.Erik@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Spaulding, William <spaulding.william@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: FW: USS Lead --> anyone talk to a citizen about East Chicago lead in water yesterday?

Hi All,

Per the email chain below, Philippa Cannon is trying to figure out what Drinking Water staff may have told a concerned citizen yesterday about lead in water in East Chicago. Did any of you take a call from the Hotline on this yesterday, or know who else might have?

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Cannon, Phillippa
Sent: Wednesday, April 19, 2017 10:08 AM
To: Fusinski, Keith <fusinski.keith@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer -- drinking water concerns

I don't think anyone on our hotline would advise her that her water was unsafe – two SEE employees answer the hotline and they usually forward calls to program staff. I'm copying our drinking water staff who have been working on this issue.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Fusinski, Keith
Sent: Wednesday, April 19, 2017 9:59 AM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Tim (and others),

I called her to discuss the soil lead issue. She told me that she called the EPA Hotline yesterday and was advised that the water at the residence is unsafe to drink due to lead in the supply lines. I told her I would look into that and get back to her.

Now I need someone to bring me up to speed on this issue before I call her back (or someone else does) this afternoon.

Thanks

Keith Fusinski, PhD, MT(ASCP)
Toxicologist
U.S. EPA Region 5
734-692-7681-office
734-692-7677-fax
734-740-9018-cell

"Keep in mind that the real world comes first, the math comes second."

From: Drexler, Timothy
Sent: Wednesday, April 19, 2017 10:34 AM
To: Fusinski, Keith <fusinski.keith@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Hi Keith: If you could call, l'd really appreciate it.

-Tim

From: Fusinski, Keith
Sent: Tuesday, April 18, 2017 2:40 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Tim,

Do want to take it or would you like me to?

Keith Fusinski, PhD, MT(ASCP)
Toxicologist
U.S. EPA Region 5
734-692-7681-office
734-692-7677-fax
734-740-9018-cell

"Keep in mind that the real world comes first, the math comes second."

From: Rodriguez, Charles
Sent: Tuesday, April 18, 2017 3:32 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Fusinski, Keith <fusinski.keith@epa.gov>
Cc: Pope, Janet <Pope.Janet@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: FW: USS Lead: Health Concerns From Potential Property Buyer

Hi Tim and Keith,

Can one of you follow-up with the resident? ATSDR declined.

Charles Rodriguez

From: Johnson, Mark
Sent: Tuesday, April 18, 2017 1:50 PM
To: Rodriguez, Charles <rodriguez.charles@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: RE: USS Lead: Health Concerns From Potential Property Buyer

Charles

I appreciate you reaching out to us to respond to the concern of this prospective buyer of this property. However, other than providing the factsheets regarding lead in soil, I don't feel that ATSDR can be giving the requested advice to this individual. Since the decision that this property does not meet the threshold for remediation, I feel that this questions should be answered by EPA. Therefore, I would recommend having a EPA RPM, OSC, or toxicologist (Keith Fusinski) answer the question.

Let me know if you want to discuss further.

Mark

Mark D. Johnson, PhD, DABT

Regional Director/Toxicologist

Agency for Toxic Substances and Disease Registry (ATSDR)

77 W. Jackson Blvd.

Chicago, IL 60604

Office: 312-353-3436

Email: mdjohnson@cdc.gov

From: Rodriguez, Charles
Sent: Monday, April 17, 2017 8:15 AM
To: Johnson, Mark <johnson.mark@epa.gov>; Caudill, Motria <caudill.motria@epa.gov>
Subject: USS Lead: Health Concerns From Potential Property Buyer

Hi Mark and Motria,

Ex. 6 - Personal Privacy is considering purchasing Ex. 6 - Personal Privacy The current homeowner showed her the EPA soil sampling results letter indicating that there is no remediation needed (nothing above action levels).

Her concern is that the backyard has 339 ppm lead on the top 6 inches. She would be bringing a small child and pets to live at the home, and they would spend a lot of time playing outside.

She's like to know how safe it would be for kids to play on the backyard, and if there is anything she could do to protect them.

Can you please follow up with her? Her number is Ex. 6 - Personal Privacy

Thank you in advance.

Sicnerely,

Charles Rodriguez

Community Involvement Coordinator

U.S. EPA, Region 5

77 W. Jackson Blvd., SI-7J

Chicago, IL 60604

Office: (312)886-7472

Cell: (312)833-3073

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Fri 4/7/2017 6:02:38 PM
Subject: RE: For Review - Conclusions and Recommendations for EC Pilot Study - DRAFT
EC DW Pilot Study Conclusions and Recommendations - rb edits.docx

You did a great job! Attached are some minor comments/suggested edits to consider.

From: Bosscher, Valerie
Sent: Friday, April 07, 2017 7:28 AM
To: Poy, Thomas <poy.thomas@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: For Review - Conclusions and Recommendations for EC Pilot Study - DRAFT

Hi Tom,

Please see attached for DRAFT Conclusions and Recommendations for the East Chicago Drinking Water Pilot Study, with bullet-point descriptions of recommended best practices for contractors and residents under the "Specific Recommendations" section. Some additional details are currently under the "Notes and References" section at the bottom, to try to avoid detracting from the main points.

The version attached incorporates Miguel's and Andrea's review, but I have accepted changes to give you a clean version for review. If you would like to see the specific revisions since Tuesday's meeting, the One Drive link below is still active.

Please let us know if you have any comments or would like to discuss.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Tuesday, April 04, 2017 4:04 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Conclusions and Recommendations for EC Pilot Study - DRAFT with best practices

Miguel and Andrea,

I incorporated today's discussion regarding recommended best practices (for contractors and residents) into the "specific recommendations" section. I also accepted other changes on the rest of the document.

Please see the revised version at:

Ex. 6 - Personal Privacy

Please let me know if you have any comments, so that we can finalize this for Tom's review by noon Friday.

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

To: Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Thur 3/16/2017 6:50:04 PM
Subject: RE: Discuss East Chicago lead results impacted by excavation --> email meeting notes where we heard no post-excavation flush

Does the 15 minute flush come from the 5 min at spigot, 5 min first floor, and 5 min 2nd floor?

From: Porter, Andrea
Sent: Thursday, March 16, 2017 1:15 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: FW: Discuss East Chicago lead results impacted by excavation --> email meeting notes where we heard no post-excavation flush

Hi Rita,

Below are the meeting notes Val sent out Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: Bosscher, Valerie
Sent: Monday, March 06, 2017 12:13 PM
To: Bair, Rita <bair.rita@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Canar, John <canar.john@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Adler, Kevin <adler.kevin@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>
Subject: RE: Discuss East Chicago lead results impacted by excavation

Please see below for DRAFT notes from our meeting. Please comment or correct as needed.

- The meeting was intended to touch base on the status of the pilot study data analysis, so that best practices can be selected and implemented for this construction season (beginning in April).

- Attending: Andrea Porter and Val Bosscher from WD GWDWB and Tom Alcamo, Tim Drexler, Dan Haag, and John Canar from Superfund.

- John Canar has completed statistical analysis comparing "before" and "after".

- WD had requested information regarding excavation/restoration activities and "post-excavation flushing" (see email dated 12/19/2016), to help evaluate the results.

o Zone 3: Tim Drexler and SRS provided requested information last week. WD asked for clarification regarding the "Dates of Excavation" in the Zone 3 spreadsheet – i.e., does it include all site remediation activities that may possibly disturb the service pipes (our request was intended to include backfill/compaction activities)? Tim indicated that SRS will respond shortly.

o Zone 2: Dan Haag indicated he would work on gathering the information for Zone 2.

o Site 2094 has unique circumstances – service line runs beneath busy street with heavy traffic

Ex. 6 - Personal Privacy

- Discussion of "post-excavation flushing"

Ex. 5 - Deliberative Process

o Superfund indicated post-excavation flushing would be relatively easy to implement in 2017

and asked for a protocol.

▪· ***See attached as follow-up: Example post-construction flushing protocols– Miguel, please comment as needed.*** *Please see attached for the City of Chicago post-construction flushing instructions that Miguel helped advise on (5 minutes at outdoor/basement then additional 5 minutes on each floor above).*

- Discussion of filters / bottled water

o Miguel had recommended at the recent public meeting that all people with a lead service line (not just in East Chicago) should use a NSF-certified filter to protect from lead in water.

o A management decision is needed on **Ex. 5 - Deliberative Process**

o Superfund requested a WD point of contact for technical questions about filters / bottled water. Miguel, Andrea, or Val are potential points of contact.

Thank you,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

-----Original Appointment-----
From: Bair, Rita
Sent: Thursday, March 02, 2017 12:20 PM

To: Bair, Rita; Alcamo, Thomas; Drexler, Timothy; Canar, John; Porter, Andrea; Bosscher, Valerie
Cc: Poy, Thomas; Adler, Kevin; Hassan, Jacob; Haag, Daniel
Subject: Discuss East Chicago lead results impacted by excavation
When: Monday, March 06, 2017 10:30 AM-11:00 AM (UTC-06:00) Central Time (US & Canada).
Where: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER

Call-in number: Ex. 6 - Personal Privacy

Code: Ex. 6 - Personal Privacy

To: Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Bair, Rita
Sent: Thur 3/2/2017 6:37:19 PM
Subject: RE: Discuss East Chicago lead results impacted by excavation

After the Flint call this morning, we talked briefly about the need to meet with Superfund to get the missing information we need to finish the review.

From: Deltoral, Miguel
Sent: Thursday, March 02, 2017 12:27 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: Discuss East Chicago lead results impacted by excavation

Hi Rita,

Val, Andrea, John C and I are meeting on Monday to discuss the data review right before this call you just set up. What is this one for?

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Thursday, March 2, 2017 12:20:00 PM
To: Alcamo, Thomas; Drexler, Timothy; Canar, John; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie
Cc: Poy, Thomas; Adler, Kevin
Subject: Discuss East Chicago lead results impacted by excavation
When: Monday, March 6, 2017 10:30 AM-11:00 AM.
Where: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER

Call-in number: Ex. 6 - Personal Privacy

Code: Ex. 6 - Personal Privacy

From: Bair, Rita
Location: R5Metcalfe-ConfRm-R1612B/R5-Metcalfe---16th-Floor; R5WD-ConfCallLine-B/Conference-Call-Line/R5-WATER
Importance: Normal
Subject: Discuss East Chicago lead results impacted by excavation
Start Date/Time: Mon 3/6/2017 4:30:00 PM
End Date/Time: Mon 3/6/2017 5:00:00 PM

Call-in number: **Ex. 6 - Personal Privacy**

Code: **Ex. 6 - Personal Privacy**

To: Fulghum, Mary[fulghum.mary@epa.gov]
Cc: Del Toral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]; Klassman, Debra[klassman.debra@epa.gov]
From: Bair, Rita
Sent: Fri 2/3/2017 2:56:42 PM
Subject: RE: USS Lead - Coalition Ltr to Common Council

Ex. 5 - Attorney Client

From: Deltoral, Miguel
Sent: Friday, February 03, 2017 8:52 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Press <Press@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Nowotarski, Allison <nowotarski.allison@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>
Cc: Arcaute, Francisco <Arcaute.Francisco@epa.gov>
Subject: Re: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

Hi Anne,

See responses below Sarah's Q's.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Rowan, Anne
Sent: Friday, February 3, 2017 08:33 AM
To: Korleski, Christopher; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Press; Kelley, Jeff; Nowotarski, Allison; Grantham, Nancy
Cc: Arcaute, Francisco
Subject: Interview request/questions NW Indiana Times re drinking water / East Chicago-deadline 7 pm today

FYI -while I think IDEM is perhaps in a better position to answer these questions, I'd appreciate input from WD. Thanks.

Sent from my iPhone

Begin forwarded message:

> **From:** "Rowan, Anne" <rowan.anne@epa.gov>
> **Date:** February 3, 2017 at 8:29:04 AM CST
> **To:** Sarah Reese <Sarah.Reese@nwi.com>
> **Cc:** "Bassler, Rachel" <Bassler.Rachel@epa.gov>, "Arcaute, Francisco" <Arcaute.Francisco@epa.gov>
> **Subject: Re: Media questions**
>
> Sarah -I think that these questions should probably go to IDEM since the state is authorized to run the safe drinking water program.
>
> Sent from my iPhone
>
> On Feb 3, 2017, at 8:09 AM, Sarah Reese <Sarah.Reese@nwi.com> wrote:
>
>> Anne,
>>
>> In the alternative of an interview with Mr. Deltoral, here's my questions:
>>
>> I've obtained records East Chicago filed Dec. 22 with the Indiana Utility Regulatory Commission showing East Chicago sells about 15 percent of its water to Indiana American Water Co., which serves Gary and several other communities. Mr. Deltoral said at Saturday's open house that everyone on the system should be using a certified filter on taps from which they consume water. Does this recommendation extend to Indiana American customers who might be getting water from East Chicago's water system?

MDT: The response I provided in EC was regarding whether EPA was going to be doing any additional sampling in the rest of the city. What I said was that this pilot study had a specific purpose and was not intended to check what the lead levels were throughout the city. As such, EPA is not planning to do additional sampling, and that lead lines in the clean-up area would behave no differently than lead lines in other neighborhoods or other cities with lead lines. If it is true that 90% of the homes in EC have lead lines, residents should assume they have one and, in my opinion, should use a properly certified filter. This is my recommendation for any home in any city with a lead line.

Records I have obtained show East Chicago was using hexametaphosphate to control corrosion until September 2016, then switched to an orthophosphate-polyphosphate blend. Virginia Tech scientist Marc Edwards shared a study he authored indicating hexametaphosphate can actually increase lead leeching, and that orthophosphate is a better choice. Does EPA – and Miguel Deltoral – agree that orthophosphate is a better choice for corrosion control?

MDT: This question should go to ORD. I don't know enough about hexametaphosphate.

Did EPA have any involvement in the city's switch from hexametaphosphate to an orthophosphate-polyphosphate blend?

MDT: We had no involvement in these decisions.

My deadline is 7 p.m. Friday.

Thanks,

Sarah

From: Rowan, Anne [mailto:rowan.anne@epa.gov]
Sent: Thursday, February 02, 2017 6:24 PM
To: Sarah Reese
Cc: Bassler, Rachel
Subject: Re: Media question

I'll check. In the meantime, please forward your questions. Thanks.

Sent from my iPhone

On Feb 2, 2017, at 6:08 PM, Sarah Reese <Sarah.Reese@nwi.com> wrote:

Hi,

Would it be possible to schedule a short phone interview with Miguel Deltoral? He offered a lot of information at the open house last weekend, and I had some follow-up questions.

Thanks,

Sarah

Sarah Reese

Staff Writer

o. 219.933.3351 | c. 219.841.1034 | e. sarah.reese@nwi.com

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To: Ostermeier, Jennifer[Ostermeier.Jennifer@epa.gov]
Cc: Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Reshkin, Karen[Reshkin.Karen@epa.gov]
From: Bair, Rita
Sent: Tue 1/31/2017 6:42:46 PM
Subject: RE: Additional USS Lead water data

Thanks. I found a typo, however, on the site (highlighted in yellow below).

Related Topics:

•□□□□□□□□ USS Lead Superfund Site

•□□□□□□□□ Contact Us

USS Lead Drinking Water Pilot Study Data

- USS Lead Drinking Water Pilot Study Sampling Data -Jan. 20, 2017
- Additional Final Data 1-24-2017 USS Lead Drinking Water Pilot Study
- Additional Final Data 1-24-2017 USS Lead Drinking Water Pilot Study

EPA will post final data for all remaining homes when it is available.

You will need Adobe Reader to view some of the files on this page. See EPA's About PDF page to learn more.

- USS Lead Drinking Water Pilot Study Data (PDF)(127 pp, 1 MB, Jan. 20, 2017)
- Additional Final Data 1-24-2017 USS Lead Drinking Water Pilot Study (PDF)(15 pp, 250 K, Jan 24, 2017)
- Additional Final Data 1-30-2017 USS Lead Drinking Water Pilot Study (PDF)(65 pp, 731 K, Jan. 20, 2015)

Contact Us to ask a question, provide feedback, or report a problem.

From: Ostermeier, Jennifer
Sent: Tuesday, January 31, 2017 9:38 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Reshkin, Karen

<Reshkin.Karen@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

The data has been posted.

From: Bosscher, Valerie
Sent: Tuesday, January 31, 2017 9:13 AM
To: Ostermeier, Jennifer <Ostermeier.Jennifer@epa.gov>; Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

Hi Jen,

This is intended as a supplement to the pdfs at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Ostermeier, Jennifer
Sent: Tuesday, January 31, 2017 9:08 AM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

Valerie,

Can you send me the PDF you want to add to the site and tell me where it should be added?

From: Reshkin, Karen
Sent: Tuesday, January 31, 2017 8:40 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Ostermeier, Jennifer <Ostermeier.Jennifer@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

Jen, please work with Valerie to add this data to the USS Lead site. Valerie, Jen is the Editor in Chief for the USS Lead website, so she's the person to work with on any further updates. (I provide backup sometimes.)

Thank you both,

Karen

From: Bosscher, Valerie
Sent: Tuesday, January 31, 2017 8:21 AM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

Hi Karen and Jeff,

Please see attached for the sites that we have received new full final data since 1/24. This should be the last "update" for a while. There are 2 sites that have not yet been sampled post-excavation, so it will be a little bit until we would potentially get that data (after sampling is completed). All other data is now final.

Please let me know if you have any questions or need anything else.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Tuesday, January 24, 2017 1:57 PM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: Additional USS Lead water data

Hi Karen and Jeff,

Please see attached for the sites that we have received new full final data since Friday. Based on input from Tom Poy, this is intended as a "Additional Final Data" (separate pdf on the same webpage).

Please let me know if you have any questions or need anything else.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:58 PM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: When do you expect the USS Lead data?

I think we were anticipating this would be a stand-alone pdf – are you asking for information for

the “Landing page” that this link would be on?

When all final data is reported (or perhaps in discrete updates depending on management direction), I would anticipate this pdf would be replaced with the updated document.

The tables have applicable data notes, including a description of preliminary data, where applicable.

Does that help?

Thanks,

Val

From: Reshkin, Karen
Sent: Friday, January 20, 2017 4:43 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: Re: When do you expect the USS Lead data?

Thank you for sending that, Valerie.

I'm making a page for the PDF, and I have questions; anything you can tell me would be helpful.

Is there any other language I should include (maybe about this being preliminary data, or whether it's for a subset or all of the houses? Or when the samples were taken?)

And do we expect to add more data to this page?

Thank you,

Karen

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:22:20 PM
To: Bair, Rita; Reshkin, Karen
Cc: Porter, Andrea; Kelley, Jeff
Subject: RE: When do you expect the USS Lead data?

Karen,

Sorry for the delay, the computer was moving slowly with the pdf work…

Please see attached for the data tables and figures for the 43 sites in East Chicago – Addresses have been removed, but there is some preliminary data. The included prelim data was sent to residents due to delays at the contract lab in finalizing the data.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 3:12 PM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: When do you expect the USS Lead data?

Val Bosscher will be sending you the data very soon.

From: Reshkin, Karen
Sent: Friday, January 20, 2017 2:45 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: When do you expect the USS Lead data?

Hi Rita,

I'm going to be posting your new web page with USS Lead data, and was wondering when you think the data will be available? I've got plans for this evening, so am trying to fit schedules.

Thank you,

Karen

To: Kaplan, Robert[kaplan.robert@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Fiscus, Taylor[Fiscus.Taylor@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]; Ostermeier, Jennifer[Ostermeier.Jennifer@epa.gov]
From: Bair, Rita
Sent: Tue 1/31/2017 3:45:38 PM
Subject: CORRECTION: All East Chicago "final" data results are on the web page

Correction. All final data is on EPA's web page, not web viewer.

From: Bair, Rita
Sent: Tuesday, January 31, 2017 9:43 AM
To: Kaplan, Robert <kaplan.robert@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>; Ostermeier, Jennifer <Ostermeier.Jennifer@epa.gov>
Subject: RE: All East Chicago "final" data results have been sent out

All final data is on EPA's web viewer.

From: Ostermeier, Jennifer
Sent: Tuesday, January 31, 2017 9:38 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

The data has been posted.

From: Bosscher, Valerie

Sent: Tuesday, January 31, 2017 8:21 AM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

Hi Karen and Jeff,

Please see attached for the sites that we have received new full final data since 1/24. This should be the last "update" for a while. There are 2 sites that have not yet been sampled post-excavation, so it will be a little bit until we would potentially get that data (after sampling is completed). All other data is now final.

Please let me know if you have any questions or need anything else.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Kaplan, Robert
Sent: Tuesday, January 31, 2017 9:37 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Subject: Re: All East Chicago "final" data results have been sent out

Many thanks. Pls confirm that all final data is on EPA's web viewer. Bob

Robert Kaplan

Acting Regional Administrator

EPA Region 5

Cell: 312-515-9827

Office: 312-886-1499

On Jan 31, 2017, at 9:00 AM, Bair, Rita <bair.rita@epa.gov> wrote:

As of today, all collected results are final, and all final results have been sent to the East Chicago residents via regular mail.

Here is an update on the letters sent:

- 41 sites with "Final" memos with all results final, of which 21 were placed in the mail last night

- 2 sites with "Final" memos with pre-excavation results (3106 on 1/20 and 3113 yesterday), but post-excavation sampling has not yet been completed.

The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint.

To: Kaplan, Robert[kaplan.robert@epa.gov]
Cc: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Fiscus, Taylor[Fiscus.Taylor@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]; Ostermeier, Jennifer[Ostermeier.Jennifer@epa.gov]
From: Bair, Rita
Sent: Tue 1/31/2017 3:43:06 PM
Subject: RE: All East Chicago "final" data results have been sent out

All final data is on EPA's web viewer.

From: Ostermeier, Jennifer
Sent: Tuesday, January 31, 2017 9:38 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

The data has been posted.

From: Bosscher, Valerie
Sent: Tuesday, January 31, 2017 8:21 AM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: Additional USS Lead water data

Hi Karen and Jeff,

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Please let me know if you have any questions or need anything else.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Kaplan, Robert
Sent: Tuesday, January 31, 2017 9:37 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Subject: Re: All East Chicago "final" data results have been sent out

Many thanks. Pls confirm that all final data is on EPA's web viewer. Bob

Robert Kaplan

Acting Regional Administrator

EPA Region 5

Cell: 312-515-9827

Office: 312-886-1499

On Jan 31, 2017, at 9:00 AM, Bair, Rita <bair.rita@epa.gov> wrote:

As of today, all collected results are final, and all final results have been sent to the East Chicago residents via regular mail.

Here is an update on the letters sent:

- 41 sites with "Final" memos with all results final, of which 21 were placed in the mail last night

- 2 sites with "Final" memos with pre-excavation results (3106 on 1/20 and 3113 yesterday), but post-excavation sampling has not yet been completed.

The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint.

To: Hassan, Jacob[hassan.jacob@epa.gov]
From: Bair, Rita
Sent: Tue 1/31/2017 3:38:15 PM
Subject: RE: All East Chicago "final" data results have been sent out

One other thing. All the data has been posted to EPA's USS Lead webpage (or will be very soon).

From: Hassan, Jacob
Sent: Tuesday, January 31, 2017 9:35 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: All East Chicago "final" data results have been sent out

Thanks so much.

From: Bair, Rita
Sent: Tuesday, January 31, 2017 9:34 AM
To: Hassan, Jacob <hassan.jacob@epa.gov>
Subject: FW: All East Chicago "final" data results have been sent out

From: Bair, Rita
Sent: Tuesday, January 31, 2017 9:01 AM
To: Kaplan, Robert <kaplan.robert@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; 'Henry, Timothy' <henry.timothy@epa.gov>; 'Poy, Thomas' <poy.thomas@epa.gov>
Cc: 'Del Toral, Miguel' <deltoral.miguel@epa.gov>; 'Porter, Andrea' <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Fiscus, Taylor <Fiscus.Taylor@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Donnelly, Peggy <donnelly.peggy@epa.gov>
Subject: All East Chicago "final" data results have been sent out

As of today, all collected results are final, and all final results have been sent to the East Chicago residents via regular mail.

Here is an update on the letters sent:

- 41 sites with "Final" memos with all results final, of which 21 were placed in the mail last night

- 2 sites with "Final" memos with pre-excavation results (3106 on 1/20 and 3113 yesterday), but post-excavation sampling has not yet been completed.

The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint.

To: Hollingsworth, Mary[MHolling@idem.IN.gov]; Prater, Matthew[MPrater@idem.IN.gov]; SJONES@idem.IN.gov[SJONES@idem.IN.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]
From: Bair, Rita
Sent: Tue 1/31/2017 3:06:40 PM
Subject: All East Chicago "final" data results have been sent out

As of today, all collected results are final, and all final results have been sent to the East Chicago residents via regular mail.

Here is an update on the letters sent:

- 41 sites with "Final" memos with all results final, of which 21 were placed in the mail last night

- 2 sites with "Final" memos with pre-excavation results (3106 on 1/20 and 3113 yesterday), but post-excavation sampling has not yet been completed.

The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint.

In addition the data is posted on EPA's website at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

To: Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Bair, Rita
Sent: Tue 1/31/2017 2:33:14 PM
Subject: RE: East Chicago letter update

Did the other parameters come in final also? I thought that was going to take longer.

From: Bosscher, Valerie
Sent: Tuesday, January 31, 2017 8:29 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago letter update

Tom,

All collected results are final, and all final results have been sent to the residents. Here is an update on the letters sent through today:

- 41 sites with "Final" memos with all results final, of which 21 were placed in the mail last night

- 2 sites with "Final" memos with pre-excavation results (3106 on 1/20 and 3113 yesterday), but post-excavation sampling has not yet been completed to my knowledge.

As we discussed yesterday, the most recent batch of letters went out via regular mail. The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint.

Let me know if you have any questions or would like to discuss.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Tuesday, January 24, 2017 2:58 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: East Chicago letter update

Tom,

Tim Drexler has the letters we produced yesterday/today, and is coordinating with the mail room for overnight/nextday shipment.

Here is an update on the letters sent through today:

- 20 sites with "Final Lead" letters (of which 5 are also in Spanish), all being sent overnight/nextday today. These sites had also been sent full available (prelim) data last week. I will tabulate final data as it comes in, with the intention that full Final memos would be sent early next week.

- 20 sites with "Final" memos with all results final, of which 5 are being sent overnight/nextday today

- 2 sites (3332 and 3066) were sent prelim/available data last week, and a full "Final" memo can be sent after the CRL ICPAES results for the last 2 jobs are received (should be this week).

- 1 site (3106) has received final pre-excavation results, but post-excavation sampling has not yet been completed to my knowledge.

The "master spreadsheet" on Sharepoint has been updated, and copies of the letters/memos have been saved to Sharepoint. Andrea and I can also save copies of the most recent to the USB drive to bring to the Public Meeting on Saturday.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Monday, January 23, 2017 12:18 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Cc: Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>

Subject: RE: East Chicago next steps discussion
Importance: High

Tom - I am working through the Lead-Only final data now, and I just found that we WILL have some sites were we have **both Final Lead from CRL and Final Lead from STAT/SRS**. We may want to include some additional language for these sites, for example:

- As part of U.S. EPA's review of the results, the MM/DD/YYYY samples were analyzed a second time by a separate laboratory; these results are presented in the row labeled "Duplicate". You may notice slight differences between the numbers reported by the two different laboratories; these slight differences are common when water samples are analyzed by different instruments.

Thanks,

Val

From: Bosscher, Valerie
Sent: Monday, January 23, 2017 10:43 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: East Chicago next steps discussion
Importance: High

Hi All,

Regarding next steps for EC data/letters:

- FULL Final data – We currently have 3 sites that we can send complete final data packages with final pre- and post-excavation (they were sent preliminary data last week). I will work with Tim Drexler to send updated letters as additional final data comes in.

- **Proposed language to add to the beginning of the memo:**

U.S. EPA has now received final analytical results for drinking water samples collected at

your home as part of the 2016 Sequential Sampling Pilot Study. This memorandum includes all final results collected at your home and replaces the preliminary results that were sent to you on MM/DD/YYYY.

- Final Lead-only data – We have received validated results for Lead for the remaining STAT data packages. Tim Drexler indicated that SRS plans to provide all the Full Final data for all jobs by the end of this week.

o Based on talking with Tom and Andrea this morning, I put together the attached example memo for transmitting only the final lead data (where prelim was sent last week).

o

o The sooner we have a final template, the better if we are going to send out memos to these affected sites. We will also need to get the language translated for Spanish-speaking residents.

- Lead CRL duplicate results - See the light green tabs in the attached spreadsheet, yellow-highlighted rows are CRL Lead data and the relative percent difference between the two Lead results. CRL Lead data was received for 6 homes. For the most part, the results are within the expected +/- 20% analytical precision of the method (or within +/- 1 ppb for low results). The relative percent difference is included in a highlighted row for internal review (that row would be removed before sending the results to the resident).

o Based on talking with Tom this morning, we will prepare the memo consistent with the above, to transmit these CRL results.

o **Do we need additional language in the final memo to discuss these duplicate analyses?**

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 4:54 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: 16100351 Final Lead Results

I agree, let's discuss on Monday with Tom.

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:33 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Rita,

I do not see a benefit of sending "final" letters if only Lead data will be finalized by Monday (see email from Tim Drexler below). It is good that we got the prelim letters out today.

We can finalize and resend letters as the data comes in, but it sounds like that will be ongoing next week.

Thanks,

Val

From: Drexler, Timothy
Sent: Friday, January 20, 2017 4:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

From: Drexler, Timothy
Sent: Friday, January 20, 2017 3:56 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Val: Does Rich's note below match what you have received so far?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>

Subject: RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

Richard Baldino

(312) 220-7171 x2223 office

(312) 914-0325 cell

From: Drexler, Timothy [mailto:drexler.timothy@epa.gov]
Sent: Friday, January 20, 2017 3:20 PM
To: Rich Baldino <RBaldino@srsllc.com>
Subject: RE: 16100351 Final Lead Results

Thanks, Rich. What is your status now, with respect to final validation of remaining samples?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:12 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: 16100351 Final Lead Results

Tim:

Please find attached the final lead results for STAT SDG 16100351. The full preliminary EDD

has also been sent to Tetra tech for Upload.

Please let me know if you have any questions or comments.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

www.SRSllc.com

To: Bassler, Rachel[Bassler.Rachel@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]
Cc: Kelley, Jeff[kelley.jeff@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]
From: Bair, Rita
Sent: Fri 1/27/2017 10:29:08 PM
Subject: RE: East Chicago drinking water FAQs

Thanks. For some reason I never got that email. It is not in my mailbox. Sounds like we are all good now.

From: Bassler, Rachel
Sent: Friday, January 27, 2017 4:25 PM
To: Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kelley, Jeff <kelley.jeff@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: FW: East Chicago drinking water FAQs

FYI, Phillippa yesterday suggested 150 copies. (see below)

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Cannon, Phillippa
Sent: Thursday, January 26, 2017 9:37 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Cc: Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Run off 150 copies.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:31 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Phillippa, what do you think?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Thursday, January 26, 2017 9:30 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: East Chicago drinking water FAQs

We can do that. How many do you recommend that we have on hand?

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:05 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: East Chicago drinking water FAQs

Barring any last minute corrections, attached are the final FAQs. My office can post these to the website today. Someone will need to produce some hard copies to bring to the open house … Rita, can you guys do that?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Pina, Yvette
Sent: Thursday, January 26, 2017 8:15 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: East Chicago drinking water FAQs

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 4:49 PM
To: Pina, Yvette <pina.yvette@epa.gov>
Subject: FW: East Chicago drinking water FAQs

A couple more edits to the FAQs …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Wednesday, January 25, 2017 4:26 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

Q. What did the sampling results show?

A. Right now, EPA doesn't have enough information to determine whether excavation is affecting lead levels in zones 2 and 3. However, EPA's ~~preliminary~~ final data shows that before excavation 18 homes and after excavation 12 homes had lead levels in tap water that exceeded the action level of 15 parts per billion.

2. I'm also not sure if you want to add the active Water website to the following?

Q. Did EPA test for other metals?

A. EPA performed sequential sampling for many different chemical contaminants and is also conducting other water quality testing to comprehensively evaluate the effects of excavation at the superfund site. All of the final results will be shared with participants, the city and the state. Results that are currently available can be found at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study.

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

I think this is done … last chance for edits before the open house …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Cannon, Phillippa[Cannon.Phillippa@epa.gov]
From: Bair, Rita
Sent: Fri 1/27/2017 10:18:03 PM
Subject: FW: East Chicago drinking water FAQs
FAQ-201601-edit6.pdf

This would be the latest version.

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:05 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: East Chicago drinking water FAQs

Barring any last minute corrections, attached are the final FAQs. My office can post these to the website today. Someone will need to produce some hard copies to bring to the open house … Rita, can you guys do that?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Pina, Yvette
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To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: East Chicago drinking water FAQs

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 4:49 PM
To: Pina, Yvette <pina.yvette@epa.gov>

Subject: FW: East Chicago drinking water FAQs

A couple more edits to the FAQs …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Wednesday, January 25, 2017 4:26 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

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2. I'm also not sure if you want to add the active Water website to the following?

Q. Did EPA test for other metals?

A. EPA performed sequential sampling for many different chemical contaminants and is also conducting other water quality testing to comprehensively evaluate the effects of excavation at the superfund site. All of the final results will be shared with participants, the city and the state. Results that are currently available can be found at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study.

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
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Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Kelley, Jeff[kelley.jeff@epa.gov]
Cc: Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]; Del Toral, Miguel[deltoral.miguel@epa.gov]
From: Bair, Rita
Sent: Fri 1/27/2017 10:17:02 PM
Subject: RE: East Chicago drinking water FAQs

We have not printed them because I never got a reply on how many to make. I can do it now, if someone tells me how many to make.

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:31 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
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U.S. EPA Region 5
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Subject: RE: East Chicago drinking water FAQs

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From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

I think this is done … last chance for edits before the open house …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Donnelly, Peggy[donnelly.peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Fri 1/27/2017 10:13:05 PM
Subject: FW: East Chicago drinking water FAQs
FAQ-201601-edit6.pdf

This is the latest version of the FAQ's that I'm aware of.

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:05 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: East Chicago drinking water FAQs

Barring any last minute corrections, attached are the final FAQs. My office can post these to the website today. Someone will need to produce some hard copies to bring to the open house … Rita, can you guys do that?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Pina, Yvette
Sent: Thursday, January 26, 2017 8:15 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: East Chicago drinking water FAQs

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 4:49 PM
To: Pina, Yvette <pina.yvette@epa.gov>

Subject: FW: East Chicago drinking water FAQs

A couple more edits to the FAQs …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Bair, Rita
Sent: Wednesday, January 25, 2017 4:26 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

Q. What did the sampling results show?

A. Right now, EPA doesn't have enough information to determine whether excavation is affecting lead levels in zones 2 and 3. However, EPA's ~~preliminary~~ final data shows that before excavation 18 homes and after excavation 12 homes had lead levels in tap water that exceeded the action level of 15 parts per billion.

2. I'm also not sure if you want to add the active Water website to the following?

Q. Did EPA test for other metals?

A. EPA performed sequential sampling for many different chemical contaminants and is also conducting other water quality testing to comprehensively evaluate the effects of excavation at the superfund site. All of the final results will be shared with participants, the city and the state. Results that are currently available can be found at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study.

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

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Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Kaplan, Robert[kaplan.robert@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
From: Bair, Rita
Sent: Fri 1/27/2017 3:25:11 PM
Subject: RE: East Chicago - CRL versus STAT (duplicate results)

Below from Val is more clarification and suggestions.

From: Bosscher, Valerie
Sent: Friday, January 27, 2017 9:13 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: RE: East Chicago - CRL versus STAT (duplicate results)

For clarification: CRL analyzed and reported the lead results independently (to my knowledge they have not looked at the STAT data). When looking at the two results reported for the ~150 samples that were analyzed by both labs, in most cases CRL's reported result was slightly lower than STAT's reported result.

For the letters to the residents, the current approach is to present both results, with the CRL data in a separate row labeled "Lead (Duplicate)".

For data analysis (such as the profile figures), I suggest we use the higher of the two results as a conservative approach. As noted below, the numbers are generally similar.

We should be getting the last of the STAT final data today, so it would be great to finalize the language (added for sites with the duplicate samples) and get these memos in the mail today or Monday.

From: Kaplan, Robert
Sent: Friday, January 27, 2017 8:52 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: East Chicago - CRL versus STAT (duplicate results)

Thanks. This is helpful.

I don't understand the comment "CRL generally reported the lower number." Didn't CRL itself come up with a single number? Do you mean that as between the CRL and Stat numbers, CRL chose the lower of those two? Shouldn't we choose the higher of the numbers to be conservative?

I'd like to get your thoughts on how to treat these data. I want to do it in the most transparent way, that makes clear what really happened. I see the language below suggested by CRL - we should add a sentence about why we chose to get our lab to do the analysis ("The first laboratory failed to deliver timely data, and had some initial problems with data quality; as a result, EPA used its own lab to ensure timely and accurate results). Note that I don't care about disparaging the first lab; we should borrow from whatever language we used in the CO's letter to them.

Does it make sense to average the two? Take the upper bound? Display both sets of data (my initial preference without knowing more)?

Please discuss and recommend today.

- Bob

Acting Regional Administrator

Environmental Protection Agency

Region 5

Cell: (312) 515-9827

Office: (312) 886-1499

From: Deltoral, Miguel
Sent: Friday, January 27, 2017 5:43:51 AM
To: Kaplan, Robert; Korleski, Christopher; Henry, Timothy
Cc: Poy, Thomas; Porter, Andrea; Bair, Rita; Bosscher, Valerie
Subject: Re: East Chicago - CRL versus STAT (duplicate results)

Thank you, Val!

Bob/Chris/Tim H - Following up on yesterday's meeting discussion regarding the samples analyzed by CRL and the SF contract lab...there are only very minor differences in the results which is normal/to be expected (see email below from Val).

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, January 26, 2017 3:08:29 PM
To: Deltoral, Miguel
Cc: Poy, Thomas; Porter, Andrea; Bair, Rita

Subject: East Chicago - CRL versus STAT (duplicate results)

Hi Miguel,

In answer to your question, here is a quick summary of the duplicate Lead results from CRL, compared to the STAT results for the same samples:

- Most samples with detectable lead above the reporting limit are within the +/- 20% analytical precision acceptable per the method. (over two-thirds of samples are below the RL or within 20%)

- The other samples (more than 20% different) are generally relatively low levels of lead, so the difference is small (~1-2 ppb or less) – for example 5.3 ppb (STAT) versus 3.83 ppb (CRL).

- CRL generally reported the lower of the two results.

Additional details are attached. Note that in the attachment, CRL data (highlighted yellow) is final, and in certain cases we only had final lead (highlighted orange) and the remaining data is still preliminary. The green rows (calculated difference in ppb; relative percent difference) are for internal analysis only and wouldn't be included in resident transmittals or online data.

Just FYI, here is the text to be added to the letters/memos that have these duplicate samples:

- As part of U.S. EPA's review of the results, the MM/DD/YYYY samples were analyzed a second time by a separate laboratory; these results are presented in the row labeled "Duplicate". You may notice slight differences between the numbers reported by the two different laboratories; these slight differences are common when water samples are analyzed by different instruments.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bosscher, Valerie
Sent: Monday, January 23, 2017 10:43 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: East Chicago next steps discussion
Importance: High

Hi All,

Regarding next steps for EC data/letters:

- FULL Final data – We currently have 3 sites that we can send complete final data packages with final pre- and post-excavation (they were sent preliminary data last week). I will work with Tim Drexler to send updated letters as additional final data comes in.

- **Proposed language to add to the beginning of the memo:**

U.S. EPA has now received final analytical results for drinking water samples collected at your home as part of the 2016 Sequential Sampling Pilot Study. This memorandum includes all final results collected at your home and replaces the preliminary results that were sent to you on MM/DD/YYYY.

- Final Lead-only data – We have received validated results for Lead for the remaining STAT data packages. Tim Drexler indicated that SRS plans to provide all the Full Final data for all jobs by the end of this week.

o Based on talking with Tom and Andrea this morning, I put together the attached example memo for transmitting only the final lead data (where prelim was sent last week).

o

o The sooner we have a final template, the better if we are going to send out memos to these affected sites. We will also need to get the language translated for Spanish-speaking residents.

- Lead CRL duplicate results - See the light green tabs in the attached spreadsheet, yellow-highlighted rows are CRL Lead data and the relative percent difference between the two Lead results. CRL Lead data was received for 6 homes. For the most part, the results are within the expected +/- 20% analytical precision of the method (or within +/- 1 ppb for low results). The relative percent difference is included in a highlighted row for internal review (that row would be removed before sending the results to the resident).

o Based on talking with Tom this morning, we will prepare the memo consistent with the above, to transmit these CRL results.

o **Do we need additional language in the final memo to discuss these duplicate analyses?**

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 4:54 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: 16100351 Final Lead Results

I agree, let's discuss on Monday with Tom.

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:33 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Rita,

I do not see a benefit of sending "final" letters if only Lead data will be finalized by Monday (see email from Tim Drexler below). It is good that we got the prelim letters out today.

We can finalize and resend letters as the data comes in, but it sounds like that will be ongoing next week.

Thanks,

Val

From: Drexler, Timothy

Sent: Friday, January 20, 2017 4:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

From: Drexler, Timothy
Sent: Friday, January 20, 2017 3:56 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Val: Does Rich's note below match what you have received so far?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

Richard Baldino

(312) 220-7171 x2223 office

(312) 914-0325 cell

From: Drexler, Timothy [mailto:drexler.timothy@epa.gov]
Sent: Friday, January 20, 2017 3:20 PM
To: Rich Baldino <RBaldino@srsllc.com>
Subject: RE: 16100351 Final Lead Results

Thanks, Rich. What is your status now, with respect to final validation of remaining samples?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:12 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: 16100351 Final Lead Results

Tim:

Please find attached the final lead results for STAT SDG 16100351. The full preliminary EDD has also been sent to Tetra tech for Upload.

Please let me know if you have any questions or comments.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

www.SRSllc.com

To: Cannon, Phillippa[Cannon.Phillippa@epa.gov]
From: Bair, Rita
Sent: Thur 1/26/2017 5:04:37 PM
Subject: RE: Friday's meeting with the City of East Chicago. WD thought IDEM should participate in the drinking water discussion. Is there a call-in #?

Postponed to another time that day or to another day overall?

From: Cannon, Phillippa
Sent: Thursday, January 26, 2017 10:50 AM
To: Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: FW: Friday's meeting with the City of East Chicago. WD thought IDEM should participate in the drinking water discussion. Is there a call-in #?

Rita – can you let the IDEM drinking water folks know that this meeting has been postponed? They said they would call in tomorrow.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

From: Ballotti, Doug
Sent: Thursday, January 26, 2017 10:28 AM
To: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>
Subject: RE: Friday's meeting with the City of East Chicago. WD thought IDEM should participate in the drinking water discussion. Is there a call-in #?

The meeting on Friday is postponed.

From: Cannon, Phillippa
Sent: Thursday, January 26, 2017 9:43 AM
To: Brown, Jaime <brown.jaime@epa.gov>
Cc: Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: Friday's meeting with the City of East Chicago. WD thought IDEM should participate in the drinking water discussion. Is there a call-in #?

Jaime -- Miguel DelToral is attending Friday's meeting with the city to talk about the drinking water pilot study. He thinks IDEM should participate to talk about the water system and what they are doing with the city to add orthophosphate. I mentioned it to IDEM on a check in call yesterday afternoon. Their drinking water staff could participate if they can call-in. Can you find out whether they can do so? Thanks.

Phillippa Cannon

Chief, Community Involvement Section

U.S. EPA Region 5

312-353-6218

To: Kelley, Jeff[kelley.jeff@epa.gov]
Cc: Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Bair, Rita
Sent: Thur 1/26/2017 3:30:16 PM
Subject: RE: East Chicago drinking water FAQs

We can do that. How many do you recommend that we have on hand?

From: Kelley, Jeff
Sent: Thursday, January 26, 2017 9:05 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>
Subject: FW: East Chicago drinking water FAQs

Barring any last minute corrections, attached are the final FAQs. My office can post these to the website today. Someone will need to produce some hard copies to bring to the open house … Rita, can you guys do that?

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

From: Pina, Yvette
Sent: Thursday, January 26, 2017 8:15 AM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Subject: RE: East Chicago drinking water FAQs

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 4:49 PM

To: Pina, Yvette <pina.yvette@epa.gov>
Subject: FW: East Chicago drinking water FAQs

A couple more edits to the FAQs …

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Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

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Sent: Wednesday, January 25, 2017 4:26 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

Q. What did the sampling results show?

A. Right now, EPA doesn't have enough information to determine whether excavation is affecting lead levels in zones 2 and 3. However, EPA's ~~preliminary~~ final data shows that before excavation 18 homes and after excavation 12 homes had lead levels in tap water that exceeded the action level of 15 parts per billion.

2. I'm also not sure if you want to add the active Water website to the

following?

Q. Did EPA test for other metals?

A. EPA performed sequential sampling for many different chemical contaminants and is also conducting other water quality testing to comprehensively evaluate the effects of excavation at the superfund site. All of the final results will be shared with participants, the city and the state. Results that are currently available can be found at: https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study.

From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

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Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Kelley, Jeff[kelley.jeff@epa.gov]
Cc: Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Wed 1/25/2017 10:26:22 PM
Subject: RE: East Chicago drinking water FAQs

Two comments on the FAQ.

1. Since we now have final data for lead, I suggest the following edits.

Q. What did the sampling results show?

A. Right now, EPA doesn't have enough information to determine whether excavation is affecting lead levels in zones 2 and 3. However, EPA's ~~preliminary~~ final data shows that before excavation 18 homes and after excavation 12 homes had lead levels in tap water that exceeded the action level of 15 parts per billion.

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From: Kelley, Jeff
Sent: Wednesday, January 25, 2017 1:01 PM
To: Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>

Cc: Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: East Chicago drinking water FAQs

I think this is done … last chance for edits before the open house …

Jeff Kelley
Director, Office of External Communications
U.S. EPA Region 5
ph: 312-353-1159

To: Kelley, Jeff[kelley.jeff@epa.gov]
From: Bair, Rita
Sent: Tue 1/24/2017 8:20:41 PM
Subject: FW: revised DRAFT FAQS for review- EC drinking water
FAQs.EC_master_final_draft.docx

From: Bair, Rita
Sent: Wednesday, January 18, 2017 1:14 PM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: 'Poy, Thomas' <poy.thomas@epa.gov>
Subject: FW: revised DRAFT FAQS for review- EC drinking water

This is the latest draft that was reviewed and approved by East Chicago and IDEM. I tried to think about more questions to include, but I believe what we talked about last week is already covered.

From: Rowan, Anne
Sent: Friday, December 09, 2016 2:39 PM
To: Kaplan, Robert <kaplan.robert@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Lee, Monica <Lee.Monica@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: revised DRAFT FAQS for review- EC drinking water

WD Chris Korleski +staff have approved this draft which incorporates comments from the city of East Chicago and IDEM.

The city is going to post this FAQs document tonight on the water utilities webpage.

Chris has advised the city that EPA's logo and name cannot appear on this (or any) version

because EPA HQs hasn't yet fully reviewed/concurred.

Ideally, HQs will be able to review and approve soon so we can also post FAQs on our USS Lead Superfund site webpage.

Please advise. Thanks.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Tue 1/24/2017 3:34:39 PM
Subject: RE: East Chicago Open House

Yes, we will work on that.

From: Deltoral, Miguel
Sent: Tuesday, January 24, 2017 9:33 AM
To: Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: East Chicago Open House

Yep. Can Erik or someone print them?

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Bair, Rita
Sent: Tuesday, January 24, 2017 9:16:44 AM
To: Porter, Andrea
Cc: Deltoral, Miguel
Subject: RE: East Chicago Open House

Folks also want you to bring a hard copy of all the letters that went out in case someone says they didn't get it.

From: Deltoral, Miguel
Sent: Tuesday, January 24, 2017 9:12 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>

Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Canar, John <canar.john@epa.gov>
Subject: East Chicago Open House

Hi Rachel,

I threw this skeleton together as a potential prez for the EC open house. Most of it would use existing info from Flint & EC FAQ. Let me know what you think.

For the water booth, Andrea, Peg and I will be there to answer Q's. Not sure who else from mgmt. might be coming. I will be working with Peg and Andrea on what poster boards and other material we will have at the booth.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

To: Porter, Andrea[porter.andrea@epa.gov]
Cc: Deltoral, Miguel[deltoral.miguel@epa.gov]
From: Bair, Rita
Sent: Tue 1/24/2017 3:16:44 PM
Subject: RE: East Chicago Open House

Folks also want you to bring a hard copy of all the letters that went out in case someone says they didn't get it.

From: Deltoral, Miguel
Sent: Tuesday, January 24, 2017 9:12 AM
To: Bassler, Rachel <Bassler.Rachel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Canar, John <canar.john@epa.gov>
Subject: East Chicago Open House

Hi Rachel,

I threw this skeleton together as a potential prez for the EC open house. Most of it would use existing info from Flint & EC FAQ. Let me know what you think.

For the water booth, Andrea, Peg and I will be there to answer Q's. Not sure who else from mgmt. might be coming. I will be working with Peg and Andrea on what poster boards and other material we will have at the booth.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604

Phone: (312) 886-5253

To: Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Bair, Rita
Sent: Mon 1/23/2017 7:19:47 PM
Subject: RE: East Chicago next steps discussion

Sorry for the late response. Looking over newer emails it looks like all of this has been addressed. Please let me know if you need anything else?

From: Bosscher, Valerie
Sent: Monday, January 23, 2017 10:43 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: East Chicago next steps discussion
Importance: High

Hi All,

Regarding next steps for EC data/letters:

- FULL Final data – We currently have 3 sites that we can send complete final data packages with final pre- and post-excavation (they were sent preliminary data last week). I will work with Tim Drexler to send updated letters as additional final data comes in.

o **Proposed language to add to the beginning of the memo:**

U.S. EPA has now received final analytical results for drinking water samples collected at your home as part of the 2016 Sequential Sampling Pilot Study. This memorandum includes all final results collected at your home and replaces the preliminary results that were sent to you on MM/DD/YYYY.

- Final Lead-only data – We have received validated results for Lead for the remaining STAT data packages. Tim Drexler indicated that SRS plans to provide all the Full Final data for all jobs by the end of this week.

o Based on talking with Tom and Andrea this morning, I put together the attached example memo for transmitting only the final lead data (where prelim was sent last week).

o

o The sooner we have a final template, the better if we are going to send out memos to these affected sites. We will also need to get the language translated for Spanish-speaking residents.

- Lead CRL duplicate results - See the light green tabs in the attached spreadsheet, yellow-highlighted rows are CRL Lead data and the relative percent difference between the two Lead results. CRL Lead data was received for 6 homes. For the most part, the results are within the expected +/- 20% analytical precision of the method (or within +/- 1 ppb for low results). The relative percent difference is included in a highlighted row for internal review (that row would be removed before sending the results to the resident).

o Based on talking with Tom this morning, we will prepare the memo consistent with the above, to transmit these CRL results.

o **Do we need additional language in the final memo to discuss these duplicate analyses?**

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Bair, Rita
Sent: Friday, January 20, 2017 4:54 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: 16100351 Final Lead Results

I agree, let's discuss on Monday with Tom.

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:33 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Rita,

I do not see a benefit of sending "final" letters if only Lead data will be finalized by Monday (see email from Tim Drexler below). It is good that we got the prelim letters out today.

We can finalize and resend letters as the data comes in, but it sounds like that will be ongoing next week.

Thanks,

Val

From: Drexler, Timothy
Sent: Friday, January 20, 2017 4:31 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

From: Bosscher, Valerie
Sent: Friday, January 20, 2017 4:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

From: Drexler, Timothy
Sent: Friday, January 20, 2017 3:56 PM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: FW: 16100351 Final Lead Results

Hi Val: Does Rich's note below match what you have received so far?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:23 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>
Subject: RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

Richard Baldino

(312) 220-7171 x2223 office

(312) 914-0325 cell

From: Drexler, Timothy [mailto:drexler.timothy@epa.gov]
Sent: Friday, January 20, 2017 3:20 PM
To: Rich Baldino <RBaldino@srsllc.com>
Subject: RE: 16100351 Final Lead Results

Thanks, Rich. What is your status now, with respect to final validation of remaining samples?

-Tim

From: Rich Baldino [mailto:RBaldino@srsllc.com]
Sent: Friday, January 20, 2017 3:12 PM
To: Drexler, Timothy <drexler.timothy@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: 16100351 Final Lead Results

Tim:

Please find attached the final lead results for STAT SDG 16100351. The full preliminary EDD has also been sent to Tetra tech for Upload.

Please let me know if you have any questions or comments.

Richard Baldino

Quality Assurance Manager/Project Manager

Sustainment and Restoration Services, LLC(SRS)

79 West Monroe

Suite 1119

Chicago, IL 60603

(312) 220-7171 x2223 office

(312) 914-0325 cell

(312) 220-7172 fax

www.SRSllc.com

To: Poy, Thomas[poy.thomas@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]; Kaplan, Robert[kaplan.robert@epa.gov]
Cc: Del Toral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]; Hollingsworth, Mary[MHolling@idem.IN.gov]; SJONES@idem.IN.gov[SJONES@idem.IN.gov]; Prater, Matthew[MPrater@idem.IN.gov]
From: Bair, Rita
Sent: Mon 1/23/2017 4:54:49 PM
Subject: Live on the EPA website: USS Lead DW Pilot Study data

OPA has posted on the website the USS Lead Drinking Water Pilot study. This includes all the data as of last Friday.

From: Reshkin, Karen
Sent: Monday, January 23, 2017 10:45 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: USS Lead DW Pilot Study pages

I posted it and then sent you the message, so it's up.

Jen Ostermeier is back in the office today, so I'm turning things back over to her.

Thank you,

Karen

From: Reshkin, Karen
Sent: Friday, January 20, 2017 5:19 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: USS Lead DW Pilot Study pages

We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.

The page about the pilot

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

The page with the sampling data PDF

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thank you,

Karen

To: Reshkin, Karen[Reshkin.Karen@epa.gov]
From: Bair, Rita
Sent: Mon 1/23/2017 4:43:11 PM
Subject: RE: USS Lead DW Pilot Study pages

Great! Can you let me know when it gets posted?

From: Reshkin, Karen
Sent: Monday, January 23, 2017 10:42 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: USS Lead DW Pilot Study pages

Hi Rita,

Thank you for catching that. The link now points to

https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water#getinto

Thank you,

Karen

From: Bair, Rita
Sent: Monday, January 23, 2017 8:46 AM
To: Reshkin, Karen <Reshkin.Karen@epa.gov>
Cc: Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: USS Lead DW Pilot Study pages

Almost everything looks great, except the web link to How Lead Gets Into Drinking Water. That link takes you to lead in air, not drinking water. The proper link is: https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

From: Reshkin, Karen
Sent: Friday, January 20, 2017 5:19 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: USS Lead DW Pilot Study pages

We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.

The page about the pilot

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

The page with the sampling data PDF

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thank you,

Karen

To: Poy, Thomas[poy.thomas@epa.gov]
From: Bair, Rita
Sent: Mon 1/23/2017 3:43:49 PM
Subject: FW: USS Lead DW Pilot Study pages

Ex. 5 - Deliberative Process

From: Reshkin, Karen
Sent: Friday, January 20, 2017 5:27 PM
To: Kelley, Jeff <kelley.jeff@epa.gov>
Cc: Rowan, Anne <rowan.anne@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead DW Pilot Study pages

Okay, link text now matches page title.

No mention of preliminary or final is offered now except on the document page where there is the sentence "EPA will post final data for all remaining homes when it is available"

Sent from my iPhone

On Jan 20, 2017, at 5:22 PM, Kelley, Jeff <kelley.jeff@epa.gov> wrote:

> Overall, I think this looks very good. But, I think the link text from the pilot page to data should match the title of that page ... or more closely match it. Also, some of the data is final ... the PDF is a mix of preliminary and final data now. When more final data is received, the PDF will be updated.
>
> ---
> Jeff Kelley
> Director, Office of External Communications
> U.S. EPA Region 5
> ph: 312-353-1159
>
> _____
> From: Reshkin, Karen <reshkin.karen@epa.gov>
> Sent: Friday, January 20, 2017 5:19 PM
> Subject: USS Lead DW Pilot Study pages
> To: Rowan, Anne <rowan.anne@epa.gov>, Bosscher, Valerie <bosscher.valerie@epa.gov>, Bair, Rita <bair.rita@epa.gov>, Kelley, Jeff <kelley.jeff@epa.gov>

We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.

The page about the pilot

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study

The page with the sampling data PDF

https://www.epa.gov/uss-lead-superfund-site/uss-lead-drinking-water-pilot-study-data

Thank you,

Karen

To: Reshkin, Karen[Reshkin.Karen@epa.gov]
Cc: Bosscher, Valerie[bosscher.valerie@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Del Toral, Miguel[deltoral.miguel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]
From: Bair, Rita
Sent: Mon 1/23/2017 2:45:57 PM
Subject: RE: USS Lead DW Pilot Study pages

Almost everything looks great, except the web link to How Lead Gets Into Drinking Water. That link takes you to lead in air, not drinking water. The proper link is: https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

From: Reshkin, Karen
Sent: Friday, January 20, 2017 5:19 PM
To: Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>
Subject: USS Lead DW Pilot Study pages

We can fill in the FAQs later. Please take a look and let me know if there's anything needs changing on the characterization of the sample results.

The page about the pilot

Ex. 5 - Deliberative Process

The page with the sampling data PDF

Ex. 5 - Deliberative Process

Thank you,

Karen

To: Bassler, Rachel[Bassler.Rachel@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]
From: Bair, Rita
Sent: Wed 1/18/2017 9:07:13 PM
Subject: RE: revised DRAFT FAQS for review- EC drinking water

I really don't remember if HQ ever sent comments. I thought OPA was coordinating their review. I know we got OGWDW comments on the draft letter, but not the FAQs.

From: Bassler, Rachel
Sent: Wednesday, January 18, 2017 1:42 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: revised DRAFT FAQS for review- EC drinking water

Thanks Rita. Did HQ ever send comments? I'm going to change the header to say that this is draft and FOIA exempt and remove the phrase "do not distribute outside the agency" since this has already gone to IDEM and the city.

Thanks,
Rachel

Rachel Bassler

Press Officer

U.S. EPA Region 5

bassler.rachel@epa.gov

p: 312-886-7159

c: 312-914-3393

From: Bair, Rita
Sent: Wednesday, January 18, 2017 1:14 PM

To: Bassler, Rachel <Bassler.Rachel@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: FW: revised DRAFT FAQS for review- EC drinking water

This is the latest draft that was reviewed and approved by East Chicago and IDEM. I tried to think about more questions to include, but I believe what we talked about last week is already covered.

From: Rowan, Anne
Sent: Friday, December 09, 2016 2:39 PM
To: Kaplan, Robert <kaplan.robert@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>; Lee, Monica <Lee.Monica@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>
Subject: revised DRAFT FAQS for review- EC drinking water

WD Chris Korleski +staff have approved this draft which incorporates comments from the city of East Chicago and IDEM.

The city is going to post this FAQs document tonight on the water utilities webpage.

Chris has advised the city that EPA's logo and name cannot appear on this (or any) version because EPA HQs hasn't yet fully reviewed/concurred.

Ideally, HQs will be able to review and approve soon so we can also post FAQs on our USS Lead Superfund site webpage.

Please advise. Thanks.

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Korleski, Christopher[korleski.christopher@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]
Cc: Kaplan, Robert[kaplan.robert@epa.gov]; Kelley, Jeff[kelley.jeff@epa.gov]; Ballotti, Doug[ballotti.douglas@epa.gov]
From: Bair, Rita
Sent: Wed 1/11/2017 7:15:05 PM
Subject: RE: Urgent: Draft Letter to Representative Visclosky

[redacted]

USS Lead Viscloskey ck 1 11 17.docx

I have made minor edits to the letter which incorporate Peggy's edits (attached). I did include that we made calls to all 43 residents. However, for your information our callers reached and spoke to 33 of the residents; left messages for 8 residents; and could not get through to 2 residents. In terms of sending letters and having final data, my summary is that we have final data for both pre and post for 12 homes and can mail letters now (once we have approved language). Where we have pre and post excavation results in, but not both as final, the total is 24 homes. We could send letters with prelim data or wait for final data. Finally, there are 7 homes where we don't have both pre and post excavation data in yet. We have heard back from Superfund that we should expect to have all final data by January 27th.

From: Korleski, Christopher
Sent: Wednesday, January 11, 2017 11:22 AM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Urgent: Draft Letter to Representative Visclosky

East Chicago Team:

Please see the attached draft letter to Representative Visclosky, who is seeking more information

on the drinking water notifications made to residents. We need to be ice-cold certain that the dates and chronology (especially regarding when we got data back from the lab) in the letter are correct, so please review carefully and advise.

Also, **Rita**, please advise how many residents were actually contacted and by what method?

Finally, do we have all the final data (both pre-and post-excavation) on all the homes sampled?

Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Donnelly, Peggy[donnelly.peggy@epa.gov]
From: Bair, Rita
Sent: Wed 1/11/2017 6:53:25 PM
Subject: RE: Urgent: Draft Letter to Representative Visclosky

One question OPA asked that might have been after you hung up is whether there will be more sampling in the Spring? When you mentioned the last post excavation at the end of December, did you mean that we are done? If not, how many are left and are there plans to go out later? I did tell them that we had no plans to do more homes.

From: Donnelly, Peggy
Sent: Wednesday, January 11, 2017 12:24 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>
Subject: Re: Urgent: Draft Letter to Representative Visclosky

Two dates that need revision:

1) EPA received our first set of preliminary in mid-October (not mid-November).

2) The last post-excavation sampling occurred at the end of December (not early December).

Peg Donnelly

U.S.EPA, R5, Water Division

77 W Jackson, Chicago IL

312.886.6109 office

312.914.4794 cell

Sent from my iPhone

On Jan 11, 2017, at 11:21 AM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

East Chicago Team:

Please see the attached draft letter to Representative Visclosky, who is seeking more information on the drinking water notifications made to residents. We need to be ice-cold certain that the dates and chronology (especially regarding when we got data back from the lab) in the letter are correct, so please review carefully and advise.

Also, **Rita**, please advise how many residents were actually contacted and by what method?

Finally, do we have all the final data (both pre-and post-excavation) on all the homes sampled?

Ex. 6 - Personal Privacy

Your expeditious review is requested.

Thanks.

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

<USS Lead Viscloskey ck 1 11 17.docx>

To: Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Bair, Rita
Sent: Fri 12/16/2016 6:03:44 PM
Subject: RE: USS Lead - 2nd Sequential data for Zone 3

Thanks, but I think we have agreement that letters won't go out until the data is final. Ex. 5 - Deliberative Process **Ex. 5 - Deliberative Process** The only question would be whether we send 2 letters based on when the data is final. Do we do one for pre-excavation and another for post?

.

From: Bosscher, Valerie
Sent: Friday, December 16, 2016 11:24 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: FW: USS Lead - 2nd Sequential data for Zone 3

Ex. 5 - Deliberative Process

From: Schupp, George
Sent: Tuesday, December 13, 2016 9:33 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Drexler, Timothy <drexler.timothy@epa.gov>; Cooper, Brian <cooper.brian@epa.gov>; Wesolowski, Dennis <wesolowski.dennis@epa.gov>; Thompson, Robert <Thompson.Robert@epa.gov>; Wroble, Amanda <wroble.amanda@epa.gov>; Awanya, Francis <awanya.francis@epa.gov>
Subject: RE: USS Lead - 2nd Sequential data for Zone 3

We are glad to hear that we can relax a bit from the Flint TAT's. We suggested that we forego the prelim data and just submit finals. In addition, with the holidays, we could probably meet a 21 day TAT for the final data packages. We would continue to deliver the 3 formats of EDDs as we were doing for Flint, so the Scribe text, Excel and pdf.

We can deal with unpreserved samples for the metals, but this costs us a day in processing, so the sooner we can get the samples, the better, including all of them this week so we can get them acidified and digested this week and analyze them next week. I see that we will be

receiving one set of inorganic samples (Total Phos, Alkalinity, and Anions) per residence. Please make sure these are properly preserved or we would not be able to analyze them.

George Schupp

Deputy Director

Chicago Regional Laboratory

USEPA Region 5

312-353-1226 (Desk)

312-385-5337 (Fax)

From: Deltoral, Miguel
Sent: Tuesday, December 13, 2016 5:21 AM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Schupp, George <schupp.george@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Drexler, Timothy <drexler.timothy@epa.gov>; Cooper, Brian <cooper.brian@epa.gov>
Subject: Re: USS Lead - 2nd Sequential data for Zone 3
Importance: High

Peg - I would not worry about the additional 24 hours unless there are CRL concerns.

Val - Peg's message reminded me of one more thing I forgot to include regarding my discussion with CRL...in the request for CRL support, I saw that it references the same turn-around times as we had for Flint samples, but they will have limited staff through the holidays so please call CRL to discuss what a reasonable turn-around time would be for them. Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Tim/Jacob - Please make sure the contractors inform the residents **not to use any water at all throughout the home** during the minimum six-hour stagnation period (no kitchen or

bathroom taps, no showering/bathing, no toilet flushing, no washing clothes, etc.). I see at least one site so far where the results indicate that water may have been used. I will also be sending you folks a list of the missing information I need for each site (e.g., service line/internal plumbing material).

There was also discussion about giving folks the filters ahead of the 2nd round of sampling but I don't know what the status of that is. This would be fine ONLY IF that filter is removed for the flushing the night before sampling AND IT IS LEFT OFF during the stagnation period until the samples are collected in the morning.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Donnelly, Peggy
Sent: Monday, December 12, 2016 03:19 PM
To: Hassan, Jacob; Schupp, George; Porter, Andrea; Deltoral, Miguel; Maraldo, Dean; Mendez, Thomas; Bosscher, Valerie
Cc: Drexler, Timothy; Cooper, Brian
Subject: RE: USS Lead - 2nd Sequential data for Zone 3

Thanks to Jacob for catching one of the questions that I missed.... And it's an important one: THE SUPERFUND FIELD CONTRACTORS DO NOT PRESERVE THE METALS SAMPLES IN THE FIELD WITH HNO3. SO, THE SAMPLES MAY TAKE AN EXTRA 24 HOURS TO ANALYZE AND GET PRELIMINARY DATA UPON CRL ARRIVAL.

Peg Donnelly

U.S. EPA, Region 5

77 W Jackson Blvd

Chicago IL 60604

312.886.6109

donnelly.peggy@epa.gov

From: Hassan, Jacob
Sent: Monday, December 12, 2016 3:36 PM
To: Schupp, George <schupp.george@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Cc: Drexler, Timothy <drexler.timothy@epa.gov>; Cooper, Brian <cooper.brian@epa.gov>
Subject: FW: USS Lead - 2nd Sequential data for Zone 3

Hi All,

Please see the responses below in Blue.

Thanks,

Jacob

From: Bosscher, Valerie
Sent: Monday, December 12, 2016 1:15 PM
To: Hassan, Jacob <hassan.jacob@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>
Cc: Schupp, George <schupp.george@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Subject: RE: USS Lead - 2nd Sequential data for Zone 3

Per Miguel's request, I filled out an analytical request form for CRL (attached as DRAFT) to take the last 10 East Chicago sites and have some follow-up clarifications/requests:

- Does Superfund (or the Water Team) already have bottleware for these sites?

SRS (Zone 3) has enough bottles to do the remaining properties.

Tetra Tech (Zone 2) has the remaining inventory if you need them:

2 coolers

~30 Filters

~60 syringes

(14) – 60 mL

(22) – 120 mL

(78) – 1 liter

- Can Superfund provide a copy of the USS Lead QAPP, for CRL, that covers the drinking water analysis?

See Attached. Zone 3 QAPP is "USS Lead QAPP Water Ver 1-2". Zone 2 is the Removal programs general QAPP we use for all our sites "Tetra Tech START QAPP Revision 3 Jun 2016-Final". If you need additional information from the CT laboratory regarding SOPs that are not in the QAPP, let us know and we can provide them.

- What turn-around-time is being requested (and what is feasible for CRL)? I put in 6 business days (for prelim), which was the target for Flint data. The target for Final data for Flint has been ~15 business days. Are the East Chicago samples being field-preserved?

Only DS01 was field preserved using H2SO4.

- Based on Miguel's email, I filled out the form based on <u>10 sites</u> (i.e., 220 metals samples,

10 total P, 10 total Alk, and 10 anions [Chloride, Sulfate, fluoride]). Please advise if significantly different.

- Metals list: Lead (Pb), Copper (Cu), Zinc (Zn), Aluminum (Al), Iron (Fe), Calcium (Ca), Cadmium (Cd), Potassium (K), Magnesium (Mg), Manganese (Mn), Sodium (Na), Nickel (Ni), Tin (Sn), Chromium (Cr)

o **I just noticed that CT Labs [Zone 2] does not appear to be reporting Sodium, fyi.**

- Should Superfund be the point of contact? I currently put in Miguel, but we could list one or both RPMs. Can Superfund provide a distribution list for who needs to receive the data?

Miguel can be the point of contact. Superfund does not need a POC. As for Superfund a superfund distribution list:

Superfund:

Tim Drexler

Tom Alcamo

Kevin Adler

Brian Cooper

TetraTech Data Manager:

Randy Dorian - Randy.Dorian@tetratech.com

SRS Data Validation Manager:

Rich Baldino - RBaldino@srsllc.com

- Do folks want the Excel format EDD, or are we okay with only the pdf and the txt (Scribe-format EDD)?

Superfund would like the data in both the formats. The data validation will be done by SRS using the excel format. We can then use the Scribe format for entry into the database and the Geoplatform.

- Will the Superfund Contractor(s) be doing data validation of CRL data? I believe (George, correct me if I'm wrong) that CRL completes data verification for all final data, but does not complete data validation.

SRS will do the final data validation (Rich Baldino).

Thanks!

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Deltoral, Miguel
Sent: Sunday, December 11, 2016 7:46 AM
To: Hassan, Jacob <hassan.jacob@epa.gov>
Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Schupp, George <schupp.george@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>

Subject: Re: USS Lead - 2nd Sequential data for Zone 3

Hi all,

I talked with George Schupp about analyzing the last 10 sets of samples and he said they could do it. Staffing will be short due to the holidays but the lab is still set up to do large numbers of samples right now so it would be good to get them there asap. He asked that we bring them all in together so if you need some WD folks out to help with sample collection, maybe the available WD field folks can help and we can get it done quickly.

Val - we will need to put together a request for support asap and get that to CRL.

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Dec 9, 2016, at 7:21 PM, Hassan, Jacob <hassan.jacob@epa.gov> wrote:

Hi Miguel

Sorry for the late response. I'll check with Janet and Charles to see if they were able to get those final sequential samples scheduled. If not, we can talk with Tim and Tom on Monday to see how what we can do to complete the series. Thanks for your help!

Regards

Jacob

Sent from my iPhone

On Dec 8, 2016, at 4:23 AM, Deltoral, Miguel <deltoral.miguel@epa.gov> wrote:

The longer you wait the further removed it is from any potential excavation impact. What are the residents' issues? Maybe we can help with that.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Hassan, Jacob
Sent: Wednesday, December 7, 2016 02:26 PM
To: Deltoral, Miguel
Cc: Donnelly, Peggy; Maraldo, Dean; Mendez, Thomas; Drexler, Timothy
Subject: USS Lead - 2nd Sequential data for Zone 3

Hi Miguel,

Janet and Charles have informed me that it has been difficult to get a few property owners to grant access to conduct second sequential water sampling in Zone 3. Is there a length of time after the excavation and backfilling is complete that the water data won't be as useful in determining impacts from construction?

Jacob Hassan

USEPA Region 5

Federal On-Scene Coordinator

77 W Jackson Blvd

Chicago, IL 60604

Ph: 312-886-6864

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 5
77 West Jackson Blvd
Chicago, IL 60604

DATE: December 14, 2016

SUBJECT: Results for Samples Taken at Your Home for the Lead Sequential Sampling Pilot Study

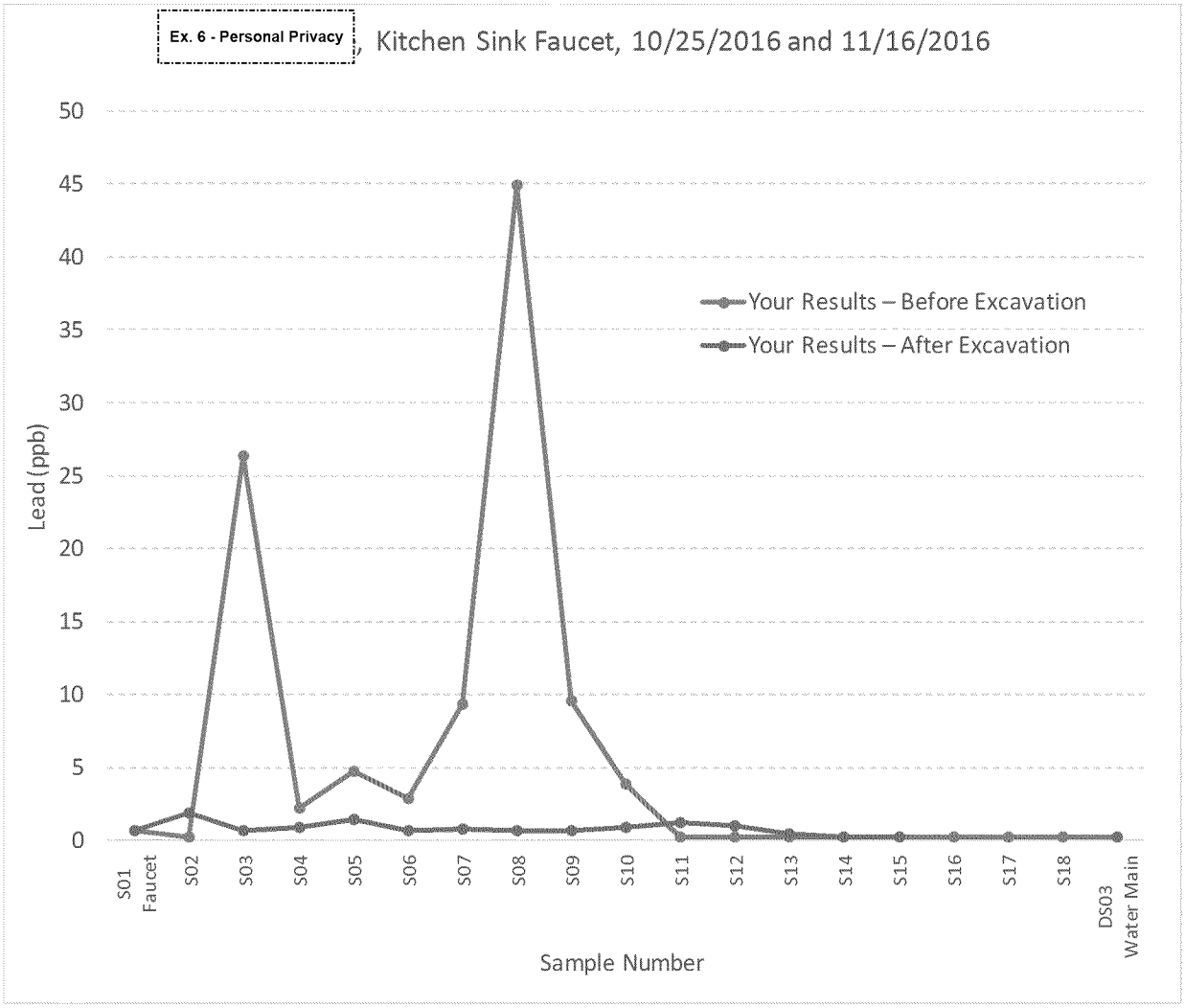
TO: Name
Address
East Chicago, Indiana Zip

FROM: U.S. EPA East Chicago Water Team

On Month xx and Month xx, 2016, EPA collected two series of xx unfiltered water samples from your kitchen faucet. EPA did these tests on a pilot basis at some of the first homes that were excavated in Zones 2 and 3 of the USS Lead Superfund Site. Like many older cities, East Chicago has a large percentage of service lines made of lead, and lead can also be found in the interior house piping, lead solder, and brass or chrome-plated brass faucets. Street and construction work can sometimes disturb the service lines that carry water from the mains in the street into the home, and there is a chance that small particles of lead can break off and get into drinking water.

Lead concentrations in the Month xx, 2016 samples, collected prior to Superfund soil excavation activities at your home, ranged from xx to xx parts per billion. Lead concentrations in the Month xx, 2016 samples, collected after the completion of Superfund soil excavation activities at your home, ranged from xx to xx parts per billion. EPA's action level for lead in drinking water is 15 parts per billion. EPA and the Centers for Disease Control and Prevention agree there is no safe level of lead exposure, especially for children and pregnant women.

The graph below shows the lead levels in the pipes leading from your faucet (left side of the diagram) to the water main under your street (right side) for each sampling event. EPA's test can help determine where lead may be coming from in your plumbing or the service line connecting your home to the water main under the street. These sample results represent a snapshot in time. These results do not show lead level trends in your home over time and cannot be used to assess long-term health impacts from lead.



All results taken at your home for the 2016 Sequential Sampling Pilot Study are attached. The full results include many substances in addition to lead levels. We realize that some of the results may be difficult to understand, so if you have questions, you can call EPA Region 5's Drinking Water program at 312-886-3473.

As part of the pilot project, EPA installed a filter on your kitchen tap and EPA recommends that you continue to use the filtered tap as your source of drinking water (including water for cooking, baby formula, and tooth brushing) until further notice. Filter cartridges should be replaced regularly (**be sure to look for "certified to remove total lead" (NSF 53 certified) for the replacement**), and aerators should be cleaned on a weekly basis. Unfiltered tap water can be used to wash dishes, clothes, and to clean homes. It can also be used for showers and children's baths. Enclosed is the Drinking Water Safety Information for East Chicago Residents Fact Sheet and for additional information on measures you can take, see our website at https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water.

EPA has notified the Indiana Department of Environmental Management and the city about the results from EPA's pilot project. IDEM has been working with the city to ensure that corrosion control treatment is being introduced into the water at a high enough level to increase the coating of the lines and reduce lead levels in your home. The city of East Chicago has been in full compliance with the EPA's "Lead and Copper Rule" since 1993, and the city currently meets all applicable federal and state rules on lead and copper in drinking water.

If you have any questions regarding the soil or dust sampling at your home, or the Superfund cleanup activities, call the USS Lead Superfund Site Hotline at 219-801-2199. It is not possible for lead from contaminated soil to get into your tap water. If there is elevated lead in your tap water, it is most likely due to the presence of lead in your service lines and/or the plumbing in your home.

Attachments:
Final Analytical Results
Drinking Water Safety Information for East Chicago Residents Fact Sheet

Ex. 6 - Personal Privacy - Kitchen Sink Faucet
Sequential Sampling by U.S. EPA on MM/DD/2016
Final Analytical Results

Parameter	Units	Your Results - Before Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:
mg/L = milligrams per liter (also called ppm or parts per million)
µg/L = micrograms per liter (also called ppb or parts per billion)
(U) = Not detected above the listed reporting limit
(J) = Estimated

Maximum Contaminant Level (MCL) = The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Contaminant Level Goal (MCLG) = The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Action Level (AL) = The Action level of 15 ppb (for the 90th percentile of compliance samples) is based on technical feasibility of reducing lead in drinking water through optimizing corrosion control. It is not a health based level.

Secondary MCL = non-mandatory water quality standards established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

Method Detection Limit (MDL), ranges from 0.014 ppb to 0.35 ppb for Flint lead data reported by EPA, indicates the level at which the laboratory has high confidence that the analyte is PRESENT in the sample but low confidence in the numerical result. MDLs are routinely reassessed by each laboratory to ensure the accurate presentation of their data.

Reporting Limit (RL), ranges from 0.50 ppb to 1.0 ppb for Flint lead data reported by EPA, is set by individual laboratories to ensure confidence in the precision and accuracy of the reported numerical result for the analyte. Any results reported below the RL (but above the MDL) are estimated; this is generally indicated by a "J" qualifier after the number.

Ex. 6 - Personal Privacy -- Kitchen Sink Faucet

Sequential Sampling by U.S. EPA on MM/DD/2016

Final Analytical Results

Parameter	Units	Your Results - After Excavation on MM/DD/2016																Comparison Standards			
		S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	DS01, DS02, DS03	Maximum Contaminant Level (MCL)	Action Level (AL)	Maximum Contaminant Level Goal (MCLG)	Secondary MCL
		Faucet	Under Sink														Distribution System				
		1st sample (125 mL)	2nd sample (125 mL)	3rd sample (1 liter)	4th sample (1 liter)	5th sample (1 liter)	6th sample (1 liter)	7th sample (1 liter)	8th sample (1 liter)	9th sample (1 liter)	10th sample (1 liter)	11th sample (1 liter)	12th sample (1 liter)	13th sample (1 liter)	14th sample (1 liter)	15th sample (1 liter)					
Cadmium	mg/L																	5	--	5	--
Chromium	mg/L																	100	--	100	--
Copper	µg/L																	--	1300	1300	1000
Lead	µg/L																	--	15	0	--
Manganese	mg/L																	--	--	--	50
Nickel	mg/L																	--	--	--	--
Aluminum	mg/L																	--	--	--	50 to 200
Calcium	mg/L																	--	--	--	--
Iron	mg/L																	--	--	--	300
Magnesium	mg/L																	--	--	--	--
Potassium	mg/L																	--	--	--	--
Sodium	mg/L																	--	--	--	--
Zinc	µg/L																	--	--	--	5000
Total Alkalinity	mg CaCO3/L	Not Sampled																--	--	--	--
Chloride	mg/L	Not Sampled																--	--	--	250
Fluoride	mg/L	Not Sampled																4	--	4	2
Sulfate as SO4	mg/L	Not Sampled																--	--	--	250
Total Phosphorus	mg/L	Not Sampled																--	--	--	--

Notes:

mg/L = milligrams per liter (also called ppm or parts per million)

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(U) = Not detected above the listed reporting limit

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 5
77 West Jackson Blvd
Chicago, IL 60604

DATE: December 14, 2016

SUBJECT: Results for Samples Taken at Your Home for the Lead Sequential Sampling Pilot Study

TO: Name
Address
East Chicago, Indiana Zip

FROM: U.S. EPA East Chicago Water Team

On Month xx and Month xx, 2016, EPA collected two series of xx unfiltered water samples from your kitchen faucet. EPA did these tests on a pilot basis at some of the first homes that were excavated in Zones 2 and 3 of the USS Lead Superfund Site. Like many older cities, East Chicago has a large percentage of service lines made of lead, and lead can also be found in the interior house piping, lead solder, and brass or chrome-plated brass faucets. Street and construction work can sometimes disturb the service lines that carry water from the mains in the street into the home, and there is a chance that small particles of lead can break off and get into drinking water.

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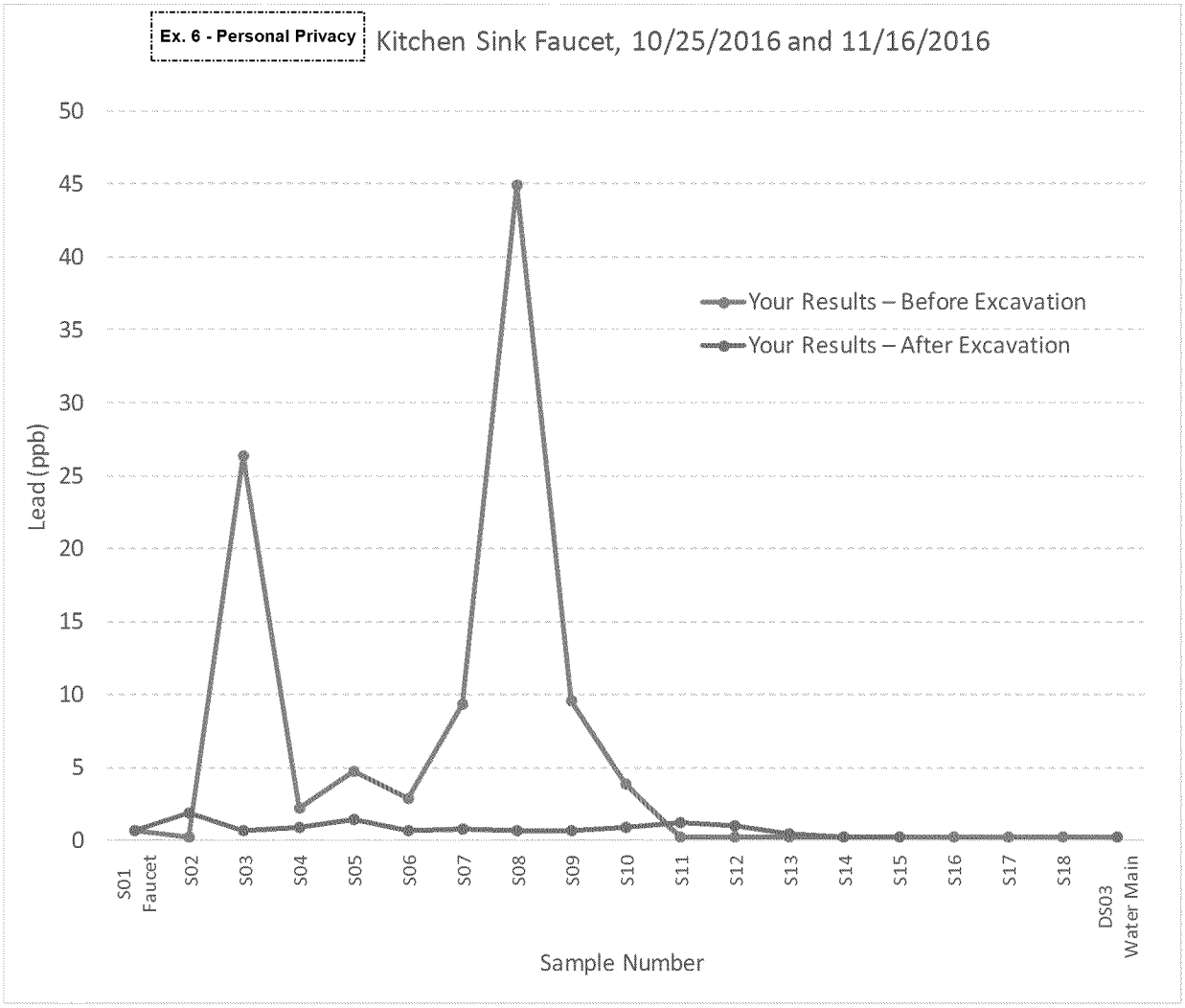

All results taken at your home for the 2016 Sequential Sampling Pilot Study are attached. The full results include many substances in addition to lead levels. We realize that some of the results may be difficult to understand, so if you have questions, you can call EPA Region 5's Drinking Water program at 312-886-3473.

As part of the pilot project, EPA installed a filter on your kitchen tap and EPA recommends that you continue to use the filtered tap as your source of drinking water (including water for cooking, baby formula, and tooth brushing) until further notice. Filter cartridges should be replaced regularly (**be sure to look for "certified to remove total lead" (NSF 53 certified) for the replacement**), and aerators should be cleaned on a weekly basis. Unfiltered tap water can be used to wash dishes, clothes, and to clean homes. It can also be used for showers and children's baths. Enclosed is the Drinking Water Safety Information for East Chicago Residents Fact Sheet and for additional information on measures you can take, see our website at https://www.epa.gov/il/advice-chicago-residents-about-lead-drinking-water.

EPA has notified the Indiana Department of Environmental Management and the city about the results from EPA's pilot project. IDEM has been working with the city to ensure that corrosion control treatment is being introduced into the water at a high enough level to increase the coating of the lines and reduce lead levels in your home. The city of East Chicago has been in full compliance with the EPA's "Lead and Copper Rule" since 1993, and the city currently meets all applicable federal and state rules on lead and copper in drinking water.

If you have any questions regarding the soil or dust sampling at your home, or the Superfund cleanup activities, call the USS Lead Superfund Site Hotline at 219-801-2199. It is not possible for lead from contaminated soil to get into your tap water. If there is elevated lead in your tap water, it is most likely due to the presence of lead in your service lines and/or the plumbing in your home.

Attachments:
Final Analytical Results
Drinking Water Safety Information for East Chicago Residents Fact Sheet

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]; Rodriguez, Charles[rodriguez.charles@epa.gov]; Pope, Janet[Pope.Janet@epa.gov]
From: Bair, Rita
Sent: Thur 12/15/2016 3:12:29 PM
Subject: RE: EC Notifications to Begin on Friday

If you can send an email to Mary, Stacey, and Matt P. that would be great!

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 8:21 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: RE: EC Notifications to Begin on Friday

Spreadsheet on sharepoint is updated. Analytical reports are also uploaded to Sharepoint. Do we need to let IDEM know they can see new data?

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 7:12 AM
To: Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Yes, definitely. I also have to add my notes from calls last Friday but I will wait until the updated file is back on sharepoint. Please let me know when its up there.

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)

Chicago, IL 60604
Phone: (312) 886-5253

From: Bosscher, Valerie
Sent: Thursday, December 15, 2016 07:10 AM
To: Deltoral, Miguel; Mendez, Thomas; Bair, Rita; Porter, Andrea; Donnelly, Peggy; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Thursday, December 15, 2016 6:12 AM
To: Mendez, Thomas <mendez.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: Re: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

Miguel A. Del Toral

Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Mendez, Thomas

Sent: Wednesday, December 14, 2016 05:17 PM
To: Bair, Rita; Bosscher, Valerie; Porter, Andrea; Donnelly, Peggy; Deltoral, Miguel; Rodriguez, Charles; Pope, Janet
Subject: RE: EC Notifications to Begin on Friday

Ex. 5 - Deliberative Process

https://usepa.sharepoint.com/sites/R5/wd/EastChicago/Shared%20Documents/Forms/AllItems.aspx

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

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not release under FOIA without appropriate review. If this message has been received by you in error, you are instructed to delete this message, together with any attachments, from your computer and all storage media, whether electronic or hard copy.

From: Bair, Rita
Sent: Friday, December 09, 2016 8:27 AM
To: Kuefler, Janet <kuefler.janet@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>
Subject: EC Notifications to Begin on Friday

Pease start making calls this morning and recording it on the spreadsheet. The call list was sent out yesterday. Please remember to include the homes where you are designated as a backup for Alex and Andrew. Let me know if you have questions.

Attached is the approved script and the draft Q&A's for reference.

From: Korleski, Christopher
Sent: Thursday, December 08, 2016 11:24 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Grantham, Nancy <Grantham.Nancy@epa.gov>
Subject: Notifications to Begin on Friday

Rita:

Please have the team begin the notification process as early as possible (i.e. 8:00) on Friday morning using the materials I circulated to everyone this evening.

Thanks.

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 11:14 PM
To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Re: Revised Draft Script and FAQs

Hello All:

Thanks again for all your comments and suggestions. In light of this evening's public letter from Mayor Copeland regarding the drinking water issue, EPA believes it is it imperative that we go forward with the notification to the homeowners as soon as possible. Consequently, EPA will be reaching out to residents beginning tomorrow (Friday) morning using the materials I circulated earlier this evening.

Thanks again,

Chris

From: Korleski, Christopher
Sent: Thursday, December 8, 2016 9:32 PM

To: CLARK METTLER, MARTHA; Stacy Jones; Matt Prater; Arango, Courtney; Snemis, Donald (IDEM); 'Crowley Engineering'; 'Carla Morgan'; Hollingsworth, Mary; philip@crowleyengineering.com
Cc: Rowan, Anne; Cassell, Peter; Henry, Timothy; Poy, Thomas; Bair, Rita; Deltoral, Miguel; Porter, Andrea; Bosscher, Valerie; Maraldo, Dean; Mendez, Thomas; Shoven, Heather; Donnelly, Peggy; Deamer, Eileen; Kaplan, Robert; Grantham, Nancy; Bassler, Rachel
Subject: Revised Draft Script and FAQs

Hello IDEM and East Chicago Colleagues:

In accordance with our discussion earlier today, I am attaching for your review:

1. A revised draft script. If you review it in "all mark-up" format, you will see that I have tried to show EC's and IDEM's proposed revisions and how EPA responded to them.

2. A revised draft FAQ. Anne and her team developed two versions. The first document is our attempt to reconcile all comments. Many revisions have been incorporated; but not all suggestions were accepted. The second document shows the marked-up version of Region 5's original draft with comments from the city and IDEM.

We appreciate your getting your written proposals and comments to us earlier today, and we look forward to your comments on these latest drafts.

Finally, please note that we may be getting some additional comments from our national program office.

Thanks.

Chris

To: Korleski, Christopher[korleski.christopher@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Donnelly, Peggy[donnelly.peggy@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Mendez, Thomas[mendez.thomas@epa.gov]; Maraldo, Dean[Maraldo.Dean@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]
From: Bair, Rita
Sent: Thur 12/8/2016 9:52:07 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

I do not have any major heartburn with any of this (IDEM and the City's) except to acknowledge the issues Chris and Anne already mentioned with the City's new text.

From: Korleski, Christopher
Sent: Thursday, December 08, 2016 3:22 PM
To: Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Cc: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: FW: Draft East Chicago Notification and Q&A Document: For Your Review

Hey Team:

True to her word, Mary has provided IDEM's comments on our draft. Please do review them. Please do not start writing anything up. I'm going to work on crafting the revised notification, and Anne is going to start revising the FAQs. Once Anne and I have our drafts completed, we will circulate them internally for comment before sending back to EC and IDEM. As I said, time is of the essence.

From: Hollingsworth, Mary [mailto:MHolling@idem.IN.gov]
Sent: Thursday, December 08, 2016 2:28 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: CLARK METTLER, MARTHA <MCLARK@idem.IN.gov>; Stacy Jones <sjones@idem.in.gov>; Matt Prater <mprater@idem.in.gov>; Arango, Courtney <CArango@idem.IN.gov>; Snemis, Donald (IDEM) <DSnemis@idem.IN.gov>
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Attached are IDEM's comments.

Mary E. Hollingsworth

Drinking Water Branch Chief

Office of Water Quality

Indiana Department of Environmental Management

IGCN 1201

100 North Senate Avenue

Indianapolis, IN 46204-2251

317-232-8741

To: Pope, Janet[Pope.Janet@epa.gov]
Cc: Rodriguez, Charles[rodriguez.charles@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]
From: Bair, Rita
Sent: Thur 12/8/2016 8:35:58 PM
Subject: RE: East Chicago fact sheet

I didn't have anything to do with the development of this, so I would defer to whoever did. However,I don't have any problem with sharing it since it is already on our website.

From: Pope, Janet
Sent: Thursday, December 08, 2016 2:08 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Rodriguez, Charles <rodriguez.charles@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>
Subject: RE: East Chicago fact sheet

Do you think this is a handout we should have at the meeting Saturday, we had it at our last meeting.

Janet L. Pope

Community Involvement Coordinator

US EPA, Region 5

312-353-0628

From: Bair, Rita
Sent: Thursday, December 08, 2016 2:05 PM
To: Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>; Schusler, Alex <schusler.alex@epa.gov>; Kuefler, Janet <kuefler.janet@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rodriguez, Charles <rodriguez.charles@epa.gov>; Pope, Janet <Pope.Janet@epa.gov>
Subject: East Chicago fact sheet

FYI – here is the link to the East Chicago fact sheet if you haven't seen it yet.

Ex. 6 - Personal Privacy

-----Original Appointment-----
From: Bair, Rita
Sent: Tuesday, December 06, 2016 4:12 PM
To: Bair, Rita; Greenhagen, Andrew; Schusler, Alex; Kuefler, Janet; Bosscher, Valerie; Porter, Andrea; Donnelly, Peggy; Mendez, Thomas; Del Toral, Miguel; Rodriguez, Charles; Pope, Janet
Subject: Placeholder for Quick Briefing for callers on the East Chicago script
When: Thursday, December 08, 2016 10:30 AM-11:00 AM (UTC-06:00) Central Time (US & Canada).
Where: Room to be Determined

To: Korleski, Christopher[korleski.christopher@epa.gov]
From: Bair, Rita
Sent: Tue 12/6/2016 10:39:01 PM
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

No. That's why I changed the meeting appointment since she accepted the Thursday meeting and I was hoping she would accept tomorrow's meeting and we would have confirmation.

From: Korleski, Christopher
Sent: Tuesday, December 06, 2016 4:10 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Did she respond?

From: Bair, Rita
Sent: Tuesday, December 06, 2016 4:03 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

I've already asked Mary if she is free at 1pm her time tomorrow.

From: Korleski, Christopher
Sent: Tuesday, December 06, 2016 4:01 PM
To: mholling@idem.in.gov
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>
Subject: RE: Draft East Chicago Notification and Q&A Document: For Your Review

Oops! Tomorrow is Wednesday, not Thursday. Sorry.

From: Korleski, Christopher
Sent: Tuesday, December 06, 2016 3:46 PM
To: 'mholling@idem.in.gov' <mholling@idem.in.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Draft East Chicago Notification and Q&A Document: For Your Review

Hi Mary:

I am attaching for IDEM's review:

1. The draft script for notifying East Chicago residents about the lead levels found in their drinking water samples (which I think Tom Poy may have already provided to you); and

2. A draft Q&A relating to the lead levels found in the residents' drinking water samples.

As I think Tom mentioned, the draft notification script (as well as the Q&A) is undergoing EPA HQ review, and may be subject to change. Nevertheless, we think this is pretty close to final and would like to know if IDEM concurs with the draft so, barring any major changes, we can proceed with notifying the residents.

We're also sharing these two draft documents with the City and asking them to concur as well. Our goal is to make sure that EPA, IDEM and the City are all on the same page with regard to what we will be telling the homeowners about the lead levels found in the drinking water samples collected from their homes.

Rita Bair may have already reached out to you, but can you please tell me if you have any time tomorrow (Thursday) to talk with us about these documents so we can move forward?

Thanks for your assistance, and any Qs, please let me know. My direct is 312 353 8320.

Chris

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Donnelly, Peggy[donnelly.peggy@epa.gov]; Cassell, Peter[cassell.peter@epa.gov]; Korleski, Christopher[korleski.christopher@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Rowan, Anne[rowan.anne@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Cannon, Phillippa[Cannon.Phillippa@epa.gov]; Bassler, Rachel[Bassler.Rachel@epa.gov]; Deamer, Eileen[deamer.eileen@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Bair, Rita
Sent: Mon 12/5/2016 7:01:29 PM
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
EC LEAD SEQUENTIAL RESULTS SCRIPT revised draft_12 05_16 (004).docx

Please remember this is a script to communicate the lead results, not what type of pipe they have. Ex. 5 - Deliberative Process However, if I am the minority, I could live with Anne's latest version with one edit attached.

From: Donnelly, Peggy
Sent: Monday, December 05, 2016 12:37 PM
To: Cassell, Peter <cassell.peter@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Pete, you are partially correct, that we know the "private" side service line material from most homes we sampled, as we could visually see it and confirm the pipe material entering their homes. For a few of the homes we sampled, we could not find the service line into the home, as it was located below a raised sub-floor.

We, of course, do NOT know the "public" side service line material at any of the homes we sampled, as that portion of the pipe is underground in the front yard from the water shut-off / curb box to the main. It is believed the "public" portion of the service line may be lead for 90% of the connections in East Chicago, but as Miguel suggested, we would want to confirm this number with the city.

Peg Donnelly

U.S. EPA, Region 5

77 W Jackson Blvd

Chicago IL 60604

312.886.6109

donnelly.peggy@epa.gov

From: Cassell, Peter
Sent: Monday, December 05, 2016 1:31 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Peg, correct me if I am wrong, but the service lines we identified in the spreadsheet were directly from observation at the person's home. If we know information about their line we can and should tell them, if not we just leave it out of the conversation.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Korleski, Christopher
Sent: Monday, December 05, 2016 12:28 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Maybe the way out is:

Ex. 5 - Deliberative Process

From: Deltoral, Miguel
Sent: Monday, December 05, 2016 12:17 PM
To: Bair, Rita <bair.rita@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process We (EPA/IDEM/EC) have an obligation here to make sure they are properly informed about the risks from LSLs so they can protect their families.

Miguel A. Del Toral

Regulations Manager

Ground Water and Drinking Water Branch

77 West Jackson Blvd (WG-15J)

Chicago, IL 60604

Phone: (312) 886-5253

From: Bair, Rita
Sent: Monday, December 05, 2016 10:31 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

I am running off to a 10:30 meeting and will get back to you again after. However, attached are my preliminary edits. My main concern is the objective of the project was not to identify the type of service line people had and we don't have the data for all the homes, so I suggest we drop it.

From: Rowan, Anne
Sent: Monday, December 05, 2016 10:13 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
Importance: High

Peter and I worked on this revised draft. Please review, comment and correct as needed as quickly as possible. We then need to send the Region's draft to HQ's for review NLT noon (central).

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Bair, Rita
Sent: Mon 12/5/2016 5:26:47 PM
Subject: FW: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
EC LEAD SEQUENTIAL RESULTS FAQs draft_12 05_16.docx

Let me know if you have input on these draft Q&As. Thanks!

From: Cassell, Peter
Sent: Monday, December 05, 2016 11:12 AM
To: Rowan, Anne <rowan.anne@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: RE: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND

Attached are draft FAQs – these are mostly taken from the Flint FAQ page, with some information lifted from the draft script and results summary table.

Pete Cassell

Press Officer

U.S. EPA Region 5

312-886-6234 (office)

312-859-9614 (cell)

cassell.peter@epa.gov

From: Rowan, Anne
Sent: Monday, December 05, 2016 10:13 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon,

Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
Importance: High

Peter and I worked on this revised draft. Please review, comment and correct as needed as quickly as possible. We then need to send the Region's draft to HQ's for review NLT noon (central).

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Bair, Rita
Sent: Mon 12/5/2016 4:21:05 PM
Subject: FW: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
EC LEAD SEQUENTIAL RESULTS SCRIPT revised draft_12 05_16.docx

From: Rowan, Anne
Sent: Monday, December 05, 2016 10:13 AM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Cannon, Phillippa <Cannon.Phillippa@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Deamer, Eileen <deamer.eileen@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Kaplan, Robert <kaplan.robert@epa.gov>
Subject: Revised / plain language script - East Chicago drinking water - QUICK TURNAROUND
Importance: High

Peter and I worked on this revised draft. Please review, comment and correct as needed as quickly as possible. We then need to send the Region's draft to HQ's for review NLT noon (central).

Anne Rowan, Chief

News Media & Intergovernmental Relations Section

Office of External Communications

U.S. EPA Region 5, Chicago

rowan.anne@epa.gov

312-353-9391

To: Bosscher, Valerie[bosscher.valerie@epa.gov]; Deltoral, Miguel[deltoral.miguel@epa.gov]; Porter, Andrea[porter.andrea@epa.gov]
Cc: Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Bair, Rita
Sent: Mon 12/5/2016 3:53:12 PM
Subject: RE: East Chicago Update

Great summary! Thanks!

Where are we at with being comfortable calling residents with Zone 3 data? It looks like we will have pressure to do that.

From: Bosscher, Valerie
Sent: Monday, December 05, 2016 9:20 AM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: RE: East Chicago Update

In case you want to share it with the wider group, here is a DRAFT answer to OW's question this morning regarding "first draw" samples:

- The first sample (S01) collected at each pilot study home is not comparable as a compliance sample for several reasons, including: (1) 125-mL volume, (2) pre-stagnation flushing. The pre-stagnation flushing was intentional for this diagnostic "sequential sampling", to allow clearer assessment of lead release within individual segments of the pipe.

- That said, here is a summary of the S01 samples:

o Zone 2: only one S01 sample (pre excavation) was above 15 ppb [out of 8 pre and 8 post reported]

o Zone 3: three pre excavation samples and one post-excavation sample were above 15 ppb [out of 26 pre and 16 post reported]. In addition, one pre-excavation S01 sample was equal to 15 ppb.

o Based on the available data (mostly prelim), the following percentages were above 15 ppb: 11.8% pre-excavation (4/34) and 4.2% post-excavation (1/24)

- Based on East Chicago's 2015 Annual Report

(http://www.eastchicago.com/page10/page94/page57/page135/index.html), the 90th Percentile Compliance result for Lead is 9 ppb.

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

U.S. EPA Region 5

77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

From: Deltoral, Miguel
Sent: Friday, December 02, 2016 5:14 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Ballotti, Doug <ballotti.douglas@epa.gov>; Short, Thomas <short.thomas@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Kelley, Jeff <kelley.jeff@epa.gov>; Rowan, Anne <rowan.anne@epa.gov>; Cassell, Peter <cassell.peter@epa.gov>; Bassler, Rachel <Bassler.Rachel@epa.gov>; Kaplan, Robert <kaplan.robert@epa.gov>; Newton, Cheryl <Newton.Cheryl@epa.gov>
Subject: Re: East Chicago Update

Feel free to give the EC WTP folks my cell # Ex. 6 - Personal Privacy in case they have Q's on the data.

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Dec 2, 2016, at 5:06 PM, Korleski, Christopher <korleski.christopher@epa.gov> wrote:

Hello All:

There have been so many moving parts that I wanted to give everyone a quick update on issues pertaining to the drinking water samples collected from homes in the USS Lead SFD site.

Bottom line:

EPA and Indiana have discussed the data generated thus far, and (notwithstanding the City's compliance with the LCR) due to some samples showing elevated levels of Pb in some of the homes, EPA and the State have agreed that notification of residents is appropriate and should occur expeditiously. On Monday, there will be a call between OW and R5 to discuss, among other things, the appropriate messaging that should accompany the notification.

In addition, as a result of a call between Bob and the Mayor of East Chicago, I have provided the City Utilities Director with the drinking water data graphs for the individual residences.

Thanks.

_____

Chris Korleski

Director, Water Division, Region 5

U.S. Environmental Protection Agency

77 W. Jackson Blvd. (W-15J)

Chicago, IL 60604

312 886-1432 (Liz Rosado, Assistant)

312 353-5498 (General Office Number)

korleski.christopher@epa.gov

To: Kuefler, Janet[kuefler.janet@epa.gov]
From: Bair, Rita
Sent: Fri 12/2/2016 5:42:09 PM
Subject: RE: Volunteer Again + question

Thanks. Let me get back to you after I find out how many volunteers I get.

I don't know yet what level the PR will come from yet, but will try to remember to ask that as we get closer.

From: Kuefler, Janet
Sent: Friday, December 02, 2016 10:39 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: RE: Volunteer Again + question

HI Rita, I can help with calls, if needed. But if you think that I should just focus on the DV next steps, etc., that is ok too. I will be here the next two weeks, then out the following two weeks.

Ex. 6 - Personal Privacy

Thanks,

Janet

From: Bair, Rita
Sent: Thursday, December 1, 2016 4:12 PM
To: Schusler, Alex <schusler.alex@epa.gov>; Greenhagen, Andrew <Greenhagen.Andrew@epa.gov>; Kuefler, Janet <kuefler.janet@epa.gov>; Weber, Nancy <Weber.Nancy@epa.gov>; Bell, Kristina <bell.kristina@epa.gov>; Rouhani, Sahba

<rouhani.sahba@epa.gov>; Welch, Jennifer <welch.jennifer@epa.gov>; Johnson, Catherine (Kate) <Johnson.Catherine@epa.gov>; Bajor, John <bajor.john@epa.gov>; Phan, Lee <Phan.lee@epa.gov>
Cc: Poy, Thomas <poy.thomas@epa.gov>
Subject: Volunteer Again?

As callers related to the lead sample results in Flint, I am reaching out to you to see if you would be willing and available to make calls next week, and possibly the week later to a few homeowners with East Chicago lead sample results. There are a total of 45 homes. We don't have a final script yet, but can have a meeting to go over this as we did with the Flint calls. Please get your supervisor's permission if you are willing to volunteer? Thanks!

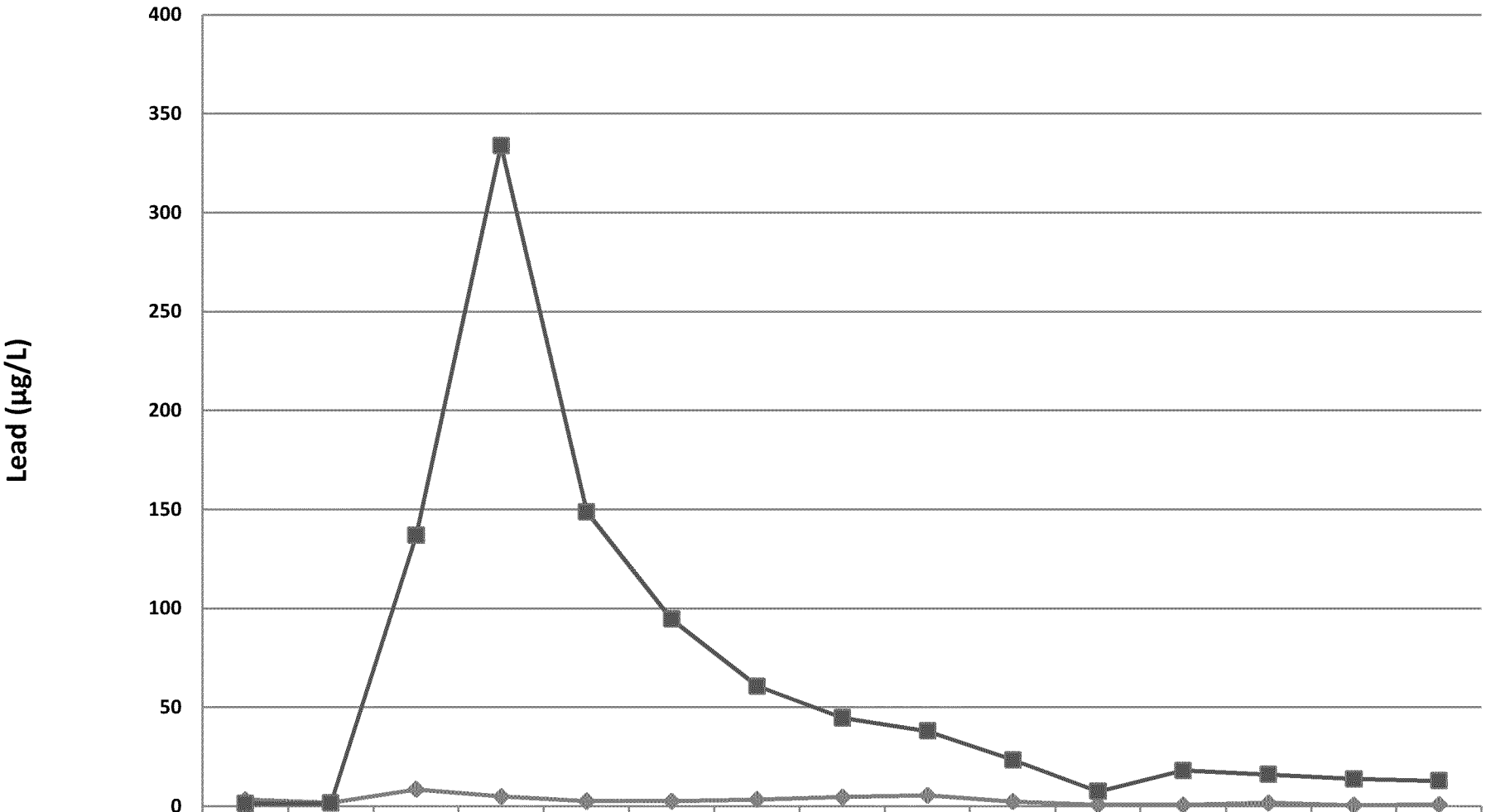
East Chicago

All Sites

Site ID: 2094

Ex. 6 - Personal Privacy

(Site ID: 2094- G/?)

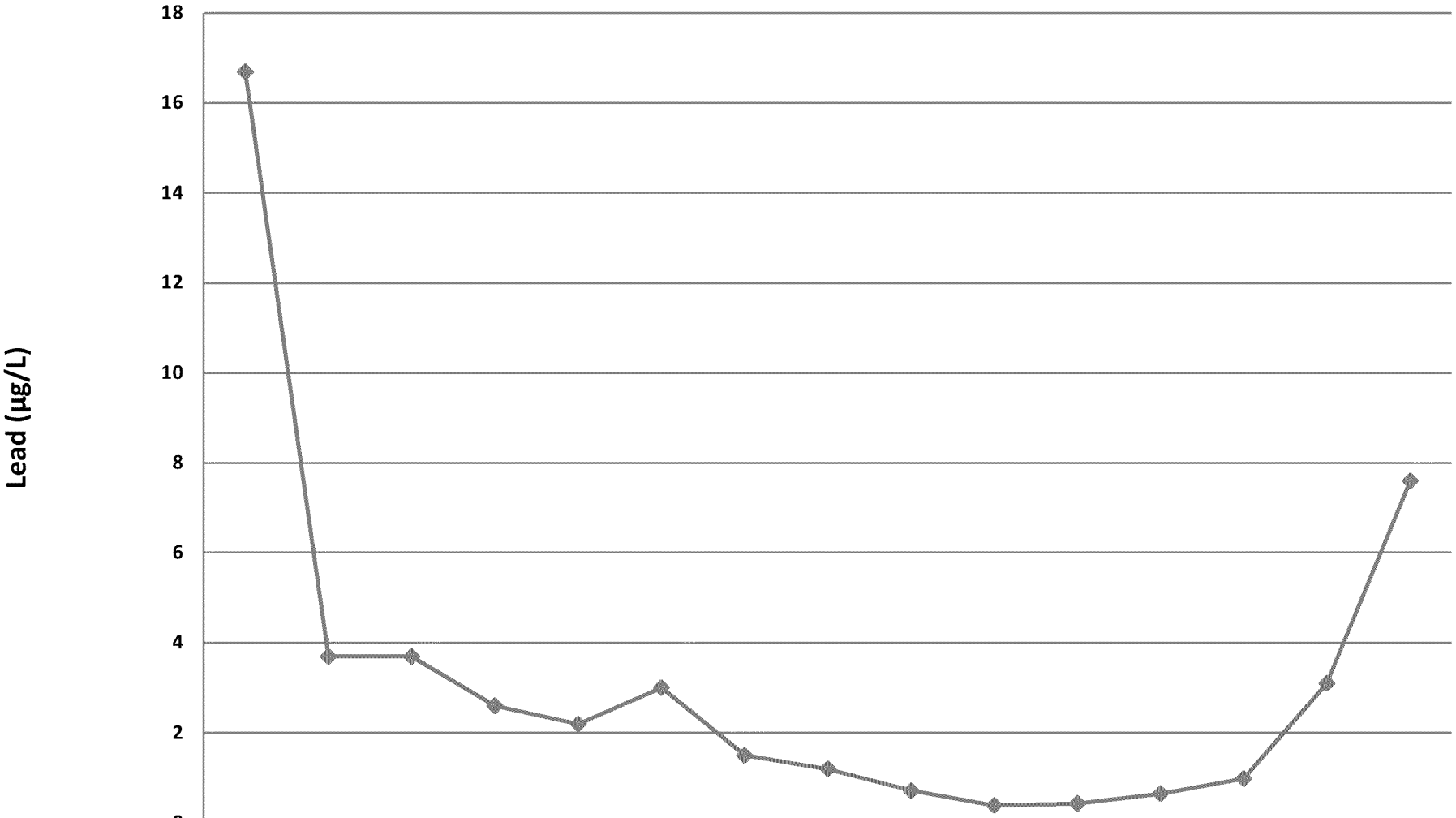


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1:10/26/2016	3.5	1.9	8.8	5.1	2.7	2.6	3.6	4.9	5.7	2.5	1	0.81	1.8	0.65	1.1
S2:11/9/2016	1.5	1.7	137	334	149	94.7	60.8	44.8	38.3	23.6	7.7	18.3	16.2	13.9	13

Site ID: 2099

Ex. 6 - Personal Privacy

(Site ID: 2099 - ?/?)

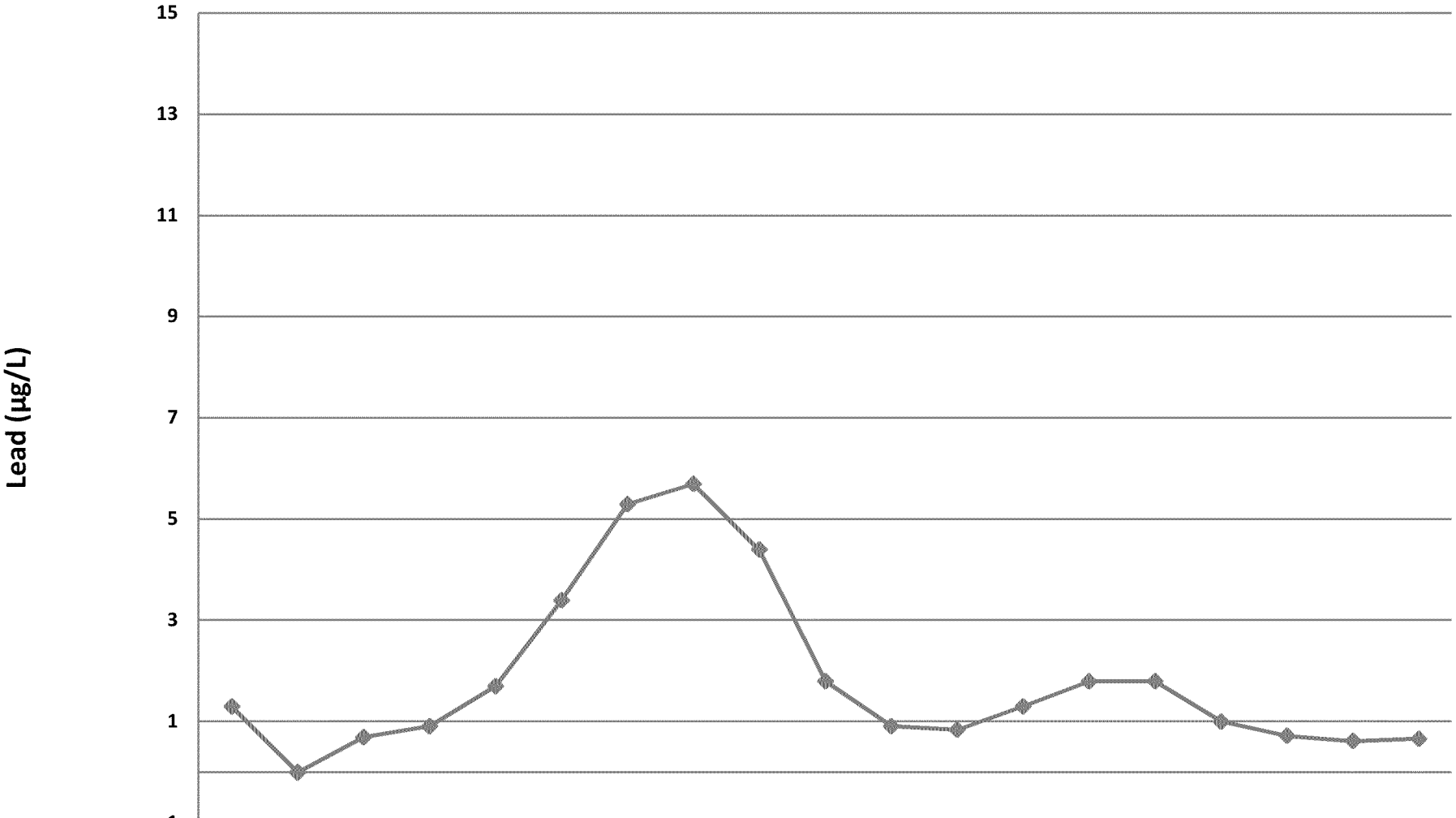


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 11/13/2016	16.7	3.7	3.7	2.6	2.2	3.0	1.5	1.2	0.71	0.39	0.43	0.65	0.98	3.1	7.6

Site ID: 2121

Ex. 6 - Personal Privacy

(Site ID: 2121 - G/PVC)

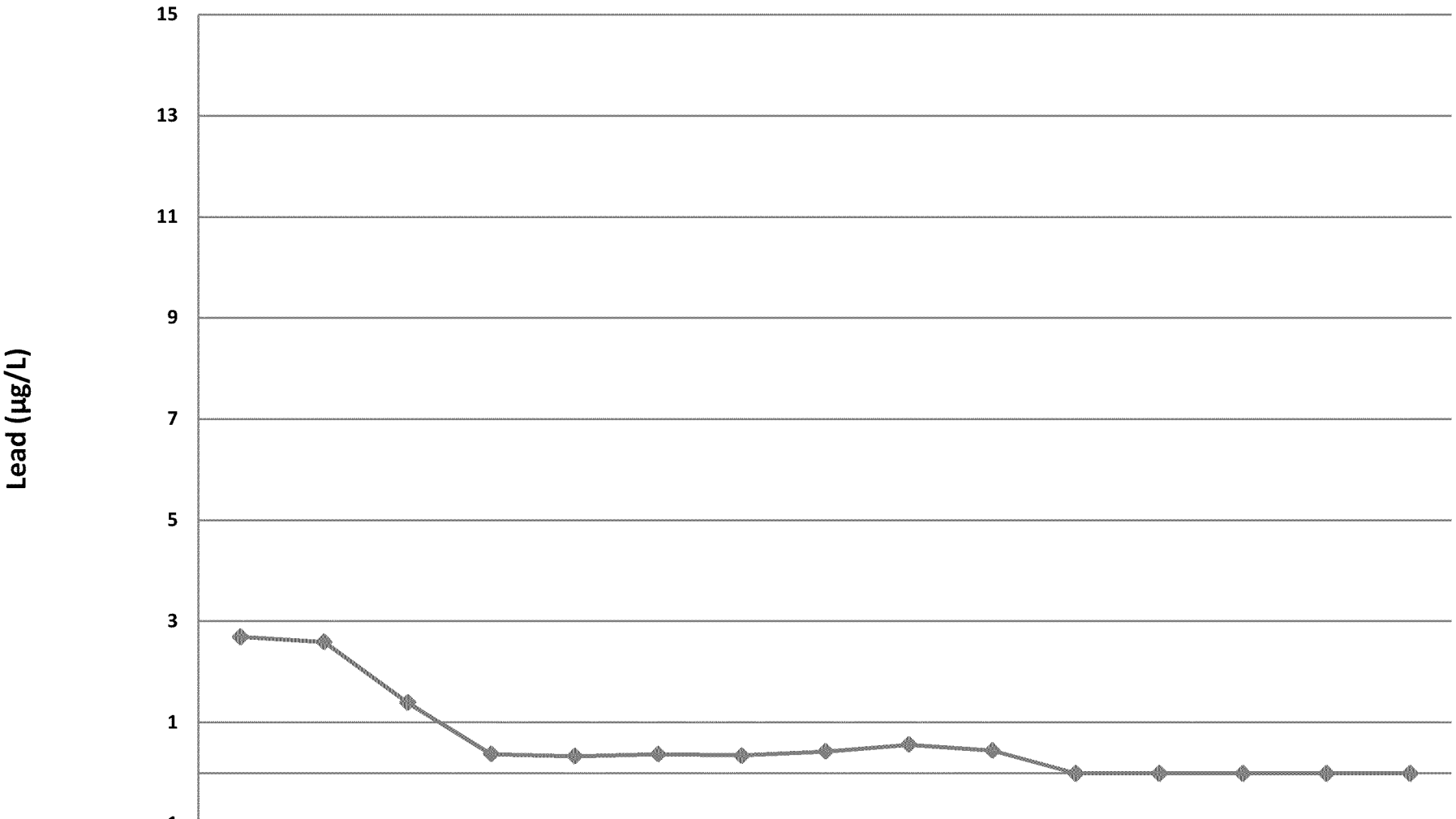


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
S1:10/27/2016	1.3	0	0.69	0.91	1.7	3.4	5.3	5.7	4.4	1.8	0.91	0.84	1.3	1.8	1.8	1	0.72	0.62	0.66

Site ID: 2148

Ex. 6 - Personal Privacy

(Site ID: 2148 - ?/G)

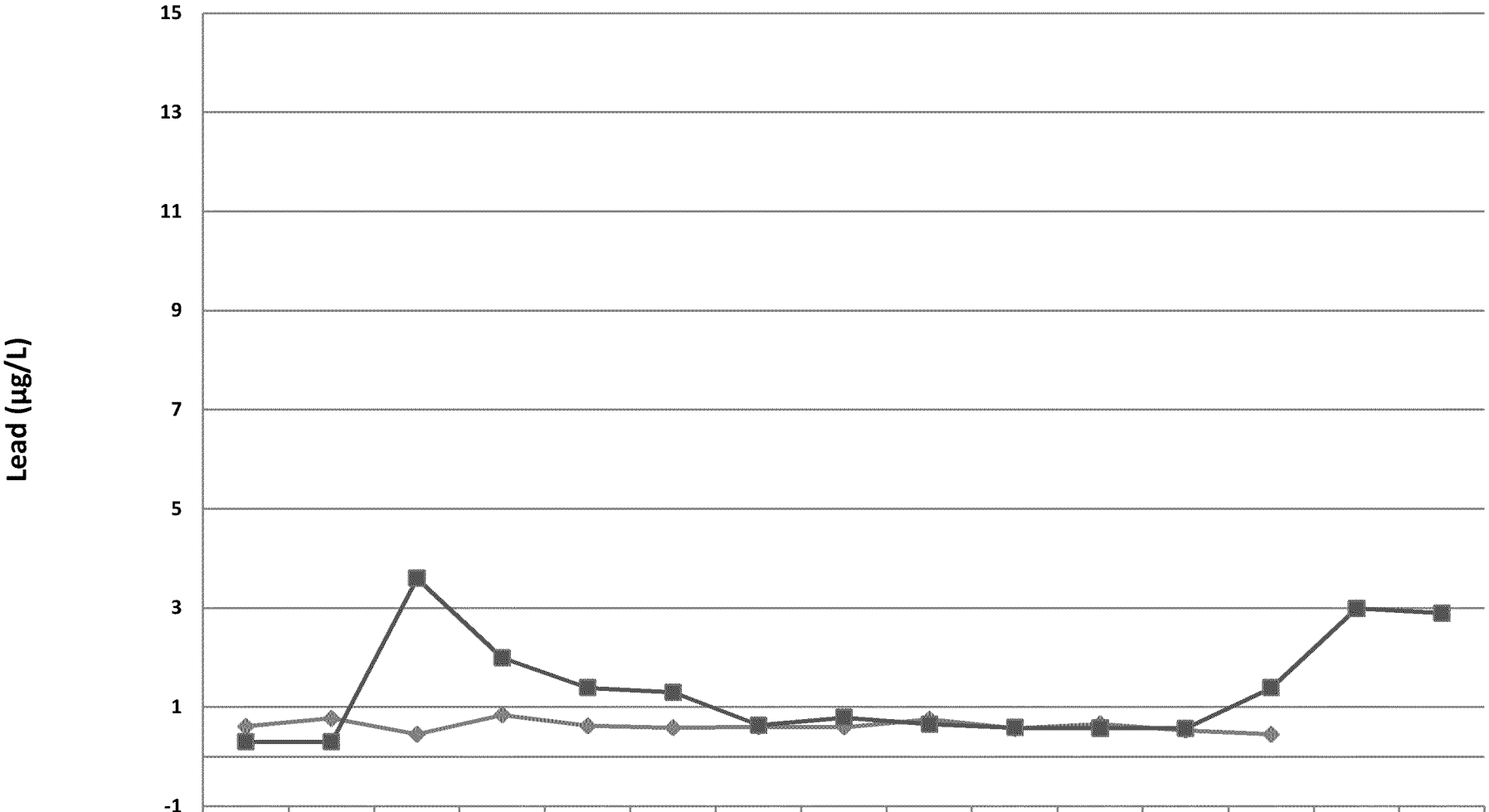


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1:10/27/2016	2.7	2.6	1.4	0.38	0.34	0.38	0.35	0.43	0.57	0.45	0	0	0	0	0

Site ID: 2166

Ex. 6 - Personal Privacy

(Site ID: 2166 - Cu/Cu)

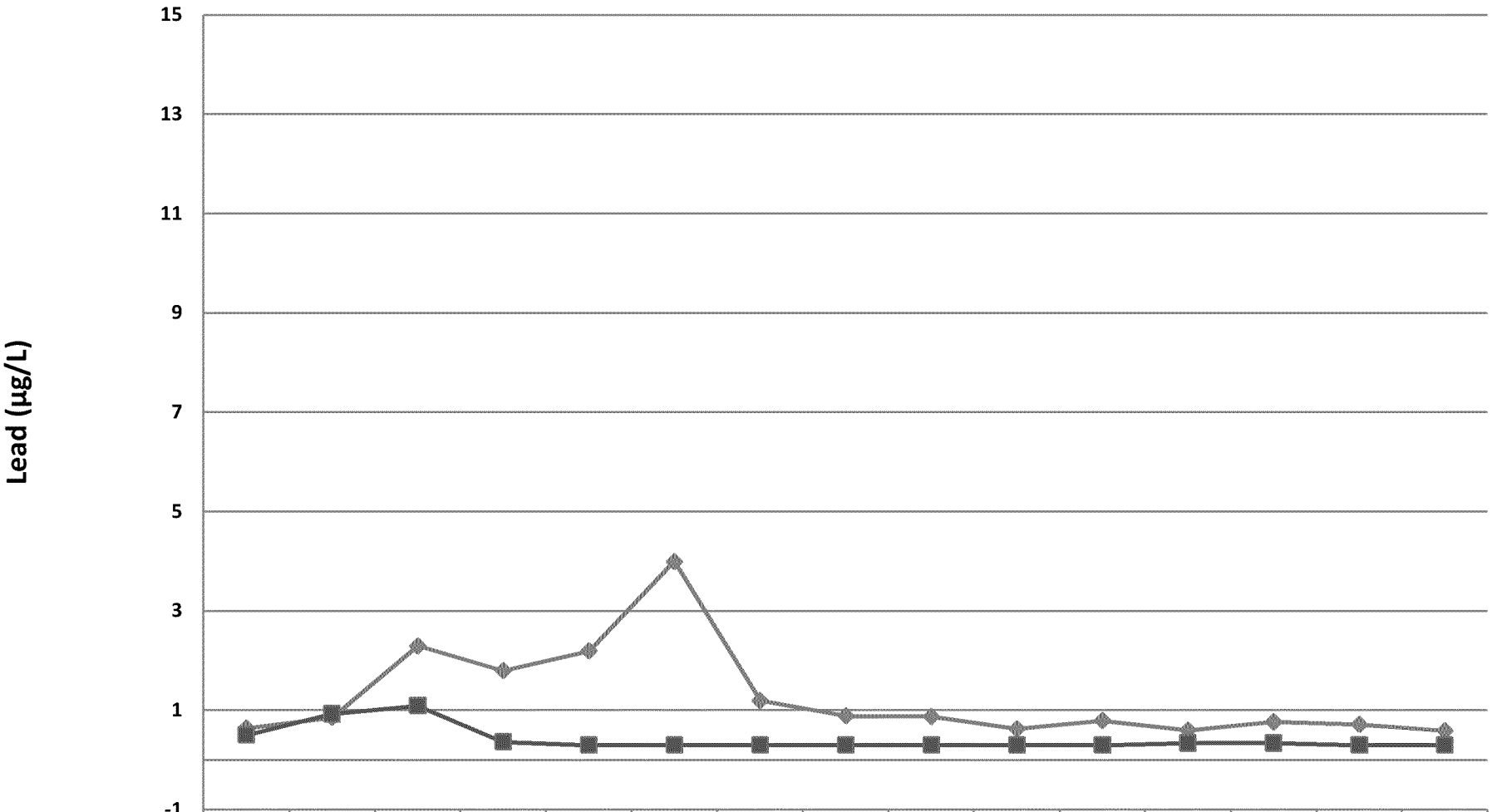


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1:10/29/2016	0.62	0.78	0.46	0.85	0.63	0.59	0.61	0.6	0.76	0.57	0.67	0.54	0.46		
S2:11/13/2016	0.3	0.3	3.6	2	1.4	1.3	0.64	0.8	0.66	0.59	0.58	0.57	1.4	3	2.9

Site ID: 2178

Ex. 6 - Personal Privacy

(Site ID: 2178 - G/G)

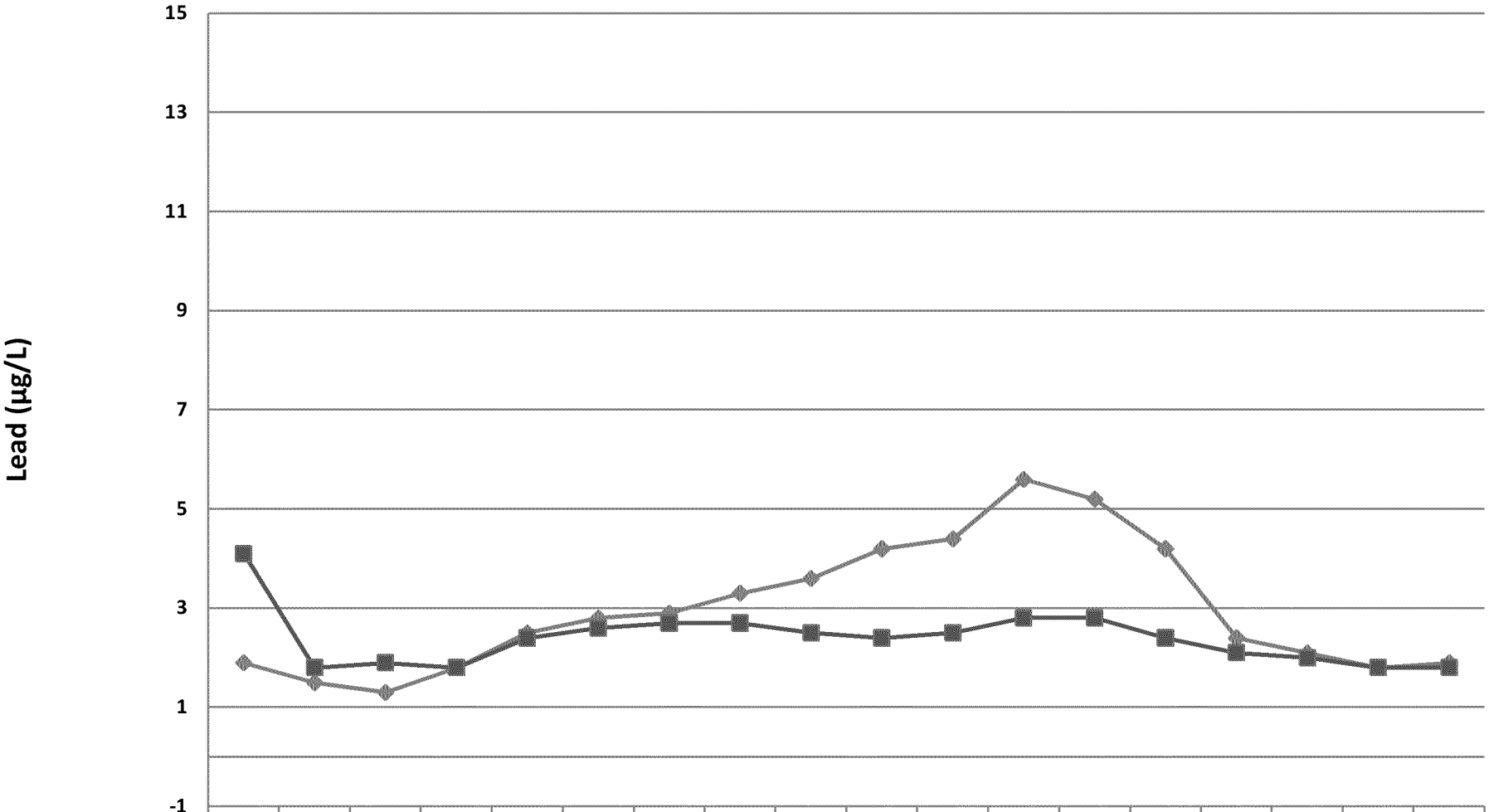


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1:10/29/2016	0.65	0.86	2.3	1.8	2.2	4	1.2	0.89	0.88	0.63	0.8	0.6	0.77	0.72	0.59
S2:11/13/2016	0.51	0.93	1.1	0.37	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.34	0.34	0.3	0.3

Site ID: 2183

Ex. 6 - Personal Privacy

(Site ID: 2183 - ?/Cu & PVC)

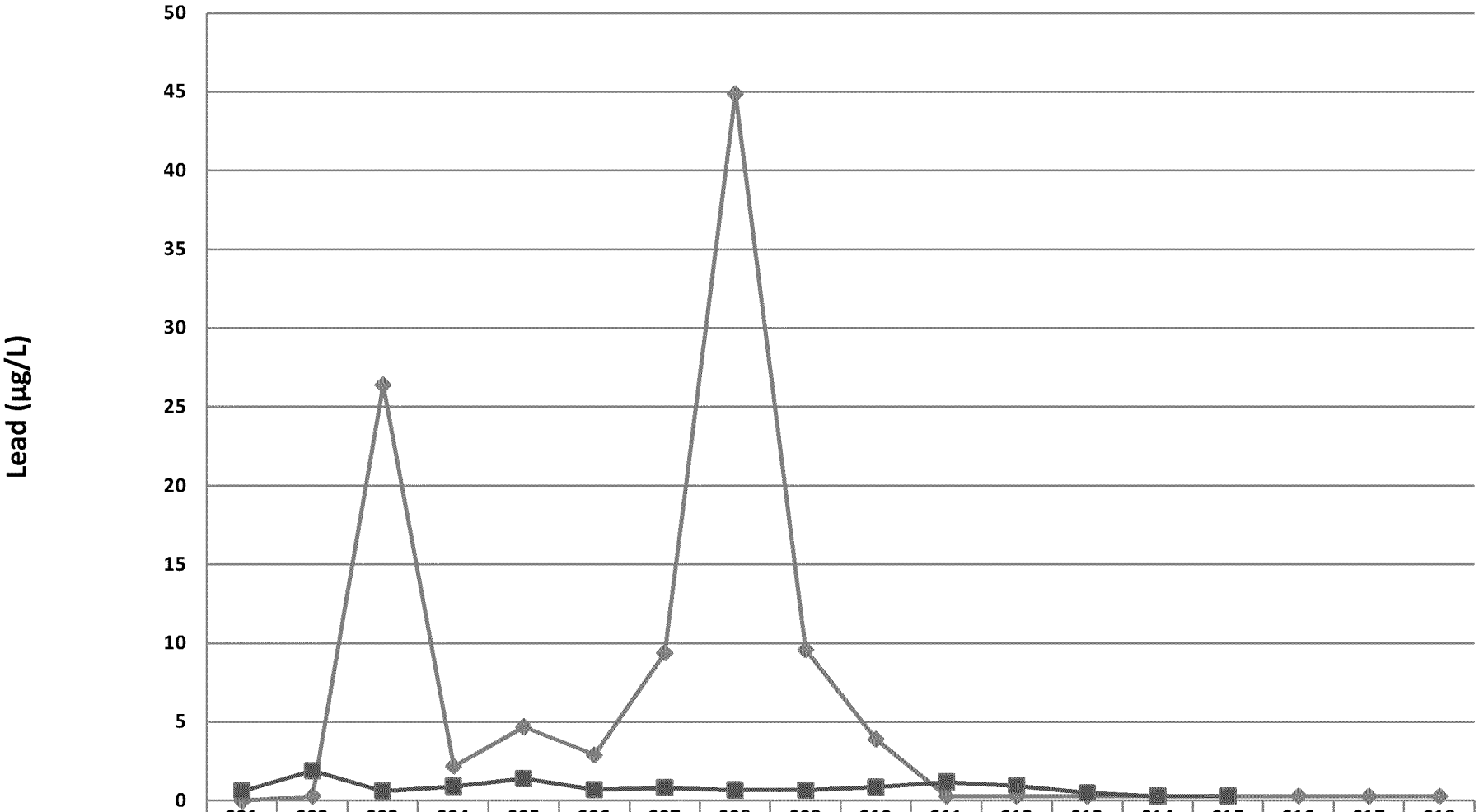


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1:10/29/2016	1.9	1.5	1.3	1.8	2.5	2.8	2.9	3.3	3.6	4.2	4.4	5.6	5.2	4.2	2.4	2.1	1.8	1.9
S2: 11/18/2016	4.1	1.8	1.9	1.8	2.4	2.6	2.7	2.7	2.5	2.4	2.5	2.8	2.8	2.4	2.1	2.0	1.8	1.8

Site ID: 2187

Ex. 6 - Personal Privacy

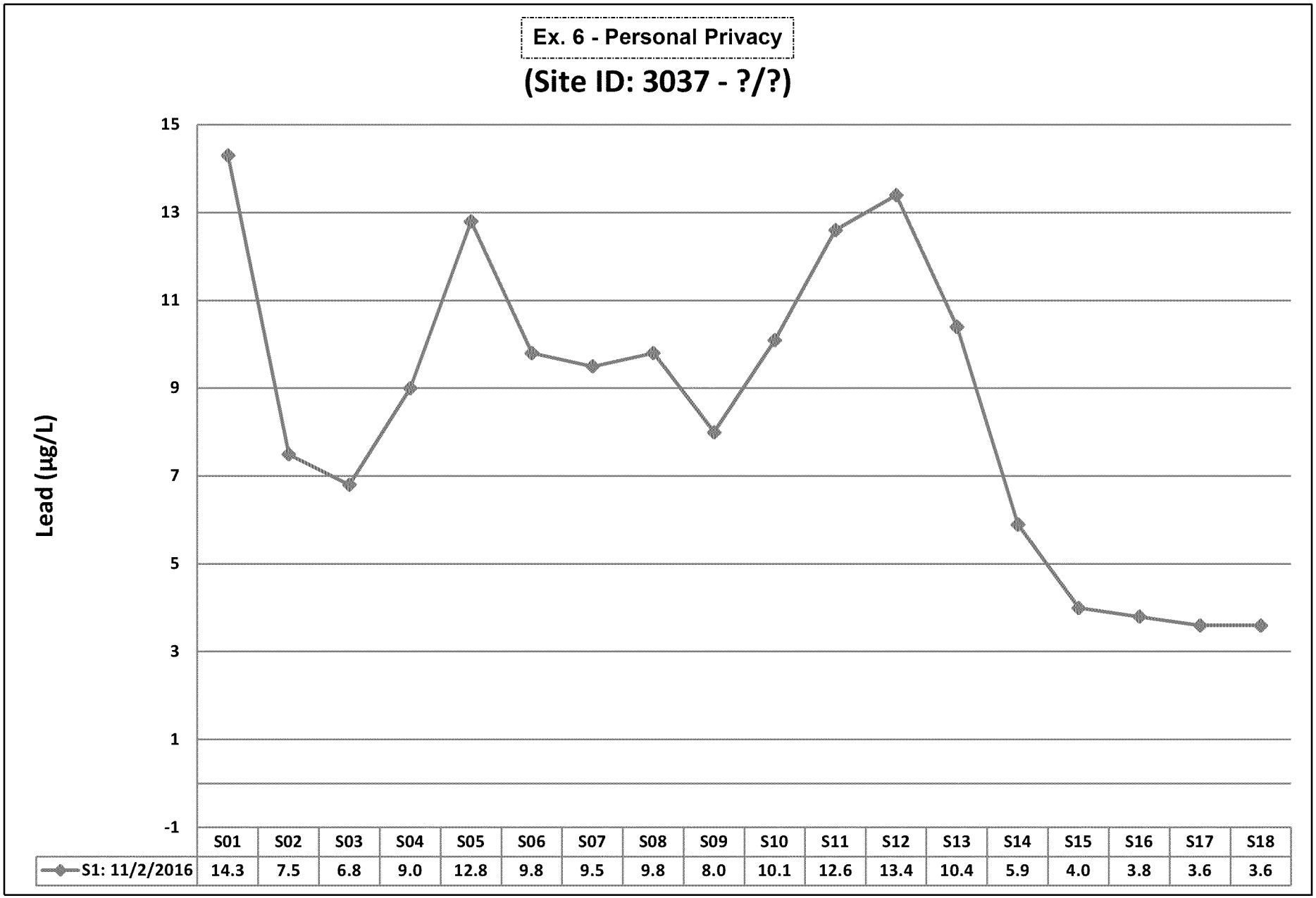
(Site ID: 2187 - Cu/?)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/25/2016	0	0.3	26.4	2.2	4.7	2.9	9.4	44.9	9.6	3.9	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
S2: 11/16/2016	0.63	1.9	0.63	0.91	1.4	0.71	0.82	0.68	0.66	0.88	1.2	0.96	0.49	0.3	0.3			

Site ID: 3016

Site ID: 3037

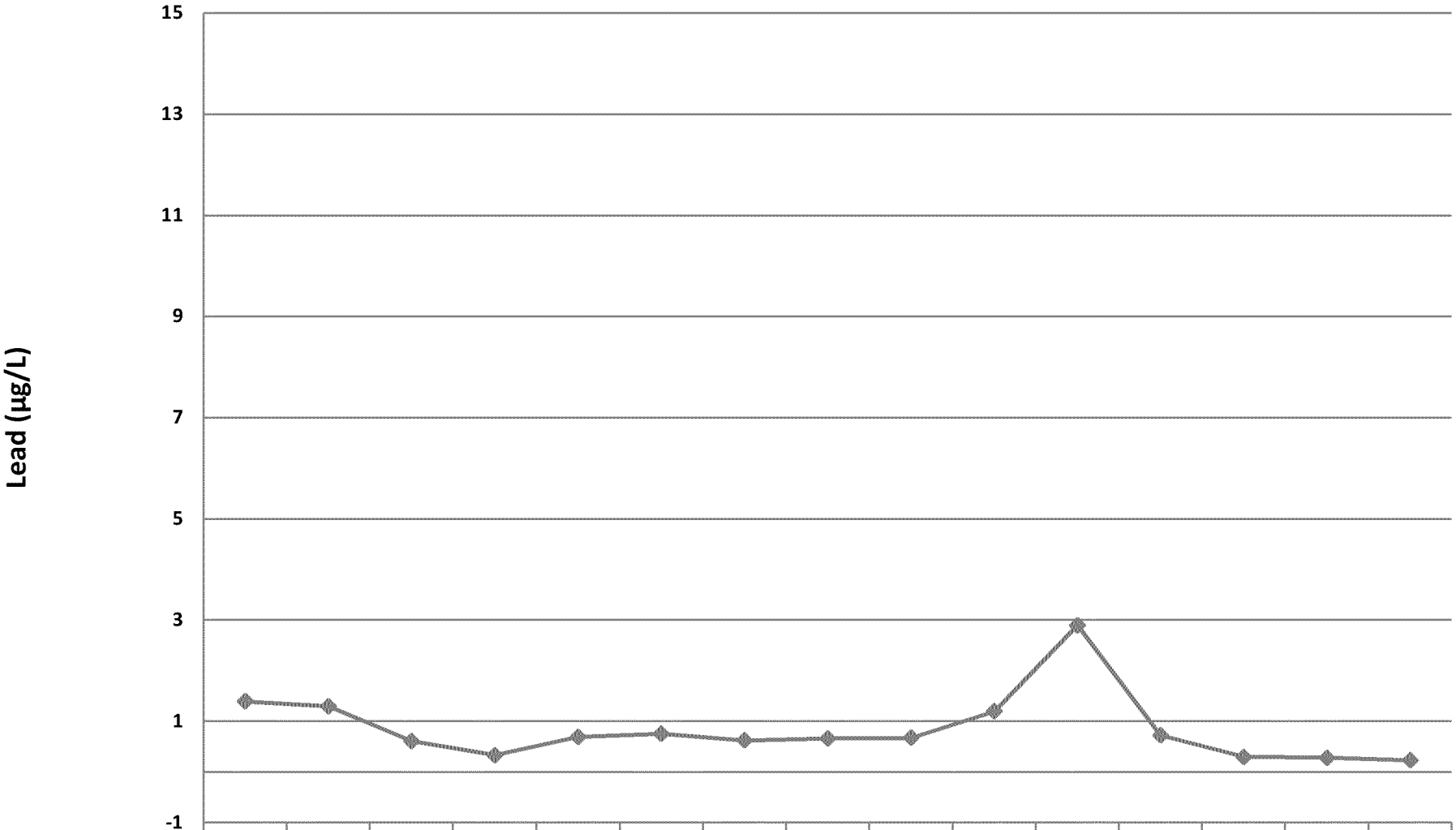


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 11/2/2016	14.3	7.5	6.8	9.0	12.8	9.8	9.5	9.8	8.0	10.1	12.6	13.4	10.4	5.9	4.0	3.8	3.6	3.6

Site ID: 3039

Ex. 6 - Personal Privacy

(Site ID: 3039 - ?/?)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 11/10/2016	1.4	1.3	0.61	0.33	0.69	0.76	0.63	0.66	0.68	1.2	2.9	0.73	0.3	0.28	0.24

Site ID: 3066

Ex. 6 - Personal Privacy

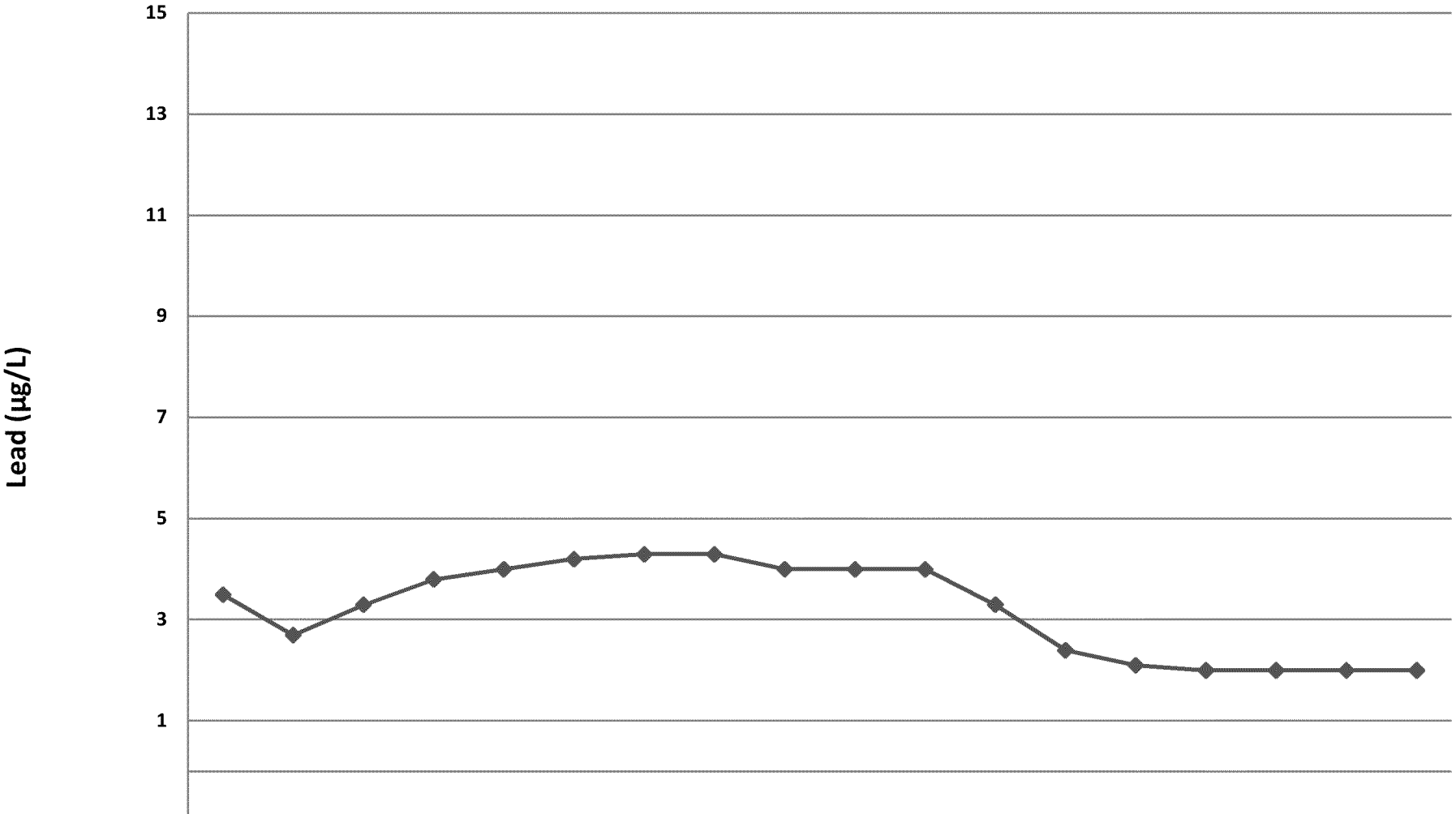
(Site ID: 3066 - Pb/G)

	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/10/2016	23	14	26	27	24	22	25	24	20	17	16	9.1	5.6	5.5	5.2

Site ID: 3070

Ex. 6 - Personal Privacy

(Site ID: 3070 - G/?)

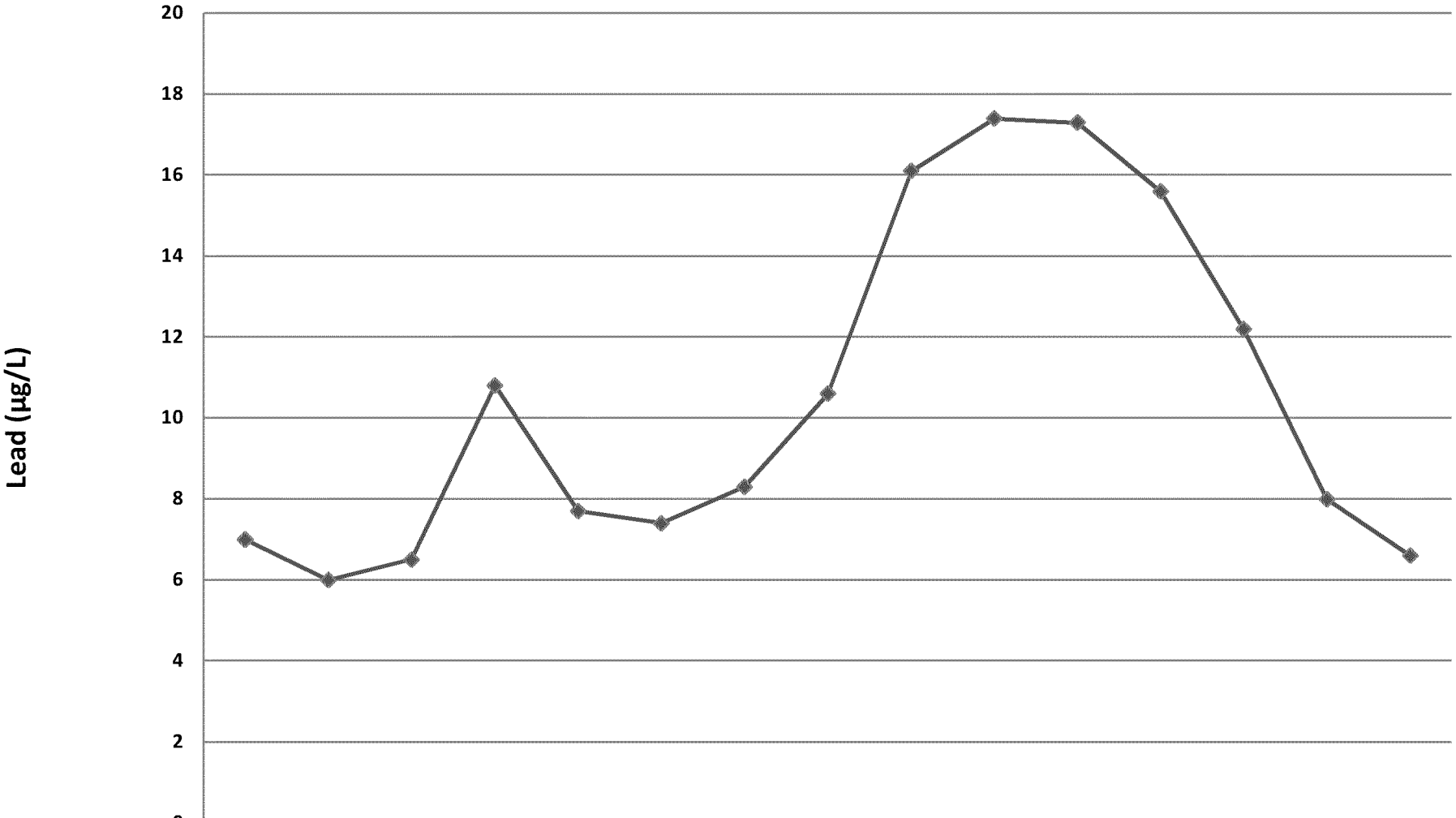


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S2:11/8/2016	3.5	2.7	3.3	3.8	4.0	4.2	4.3	4.3	4.0	4.0	4.0	3.3	2.4	2.1	2.0	2.0	2.0	2.0

Site ID: 3071

Ex. 6 - Personal Privacy

(Site ID: 3071 - Pb/G)

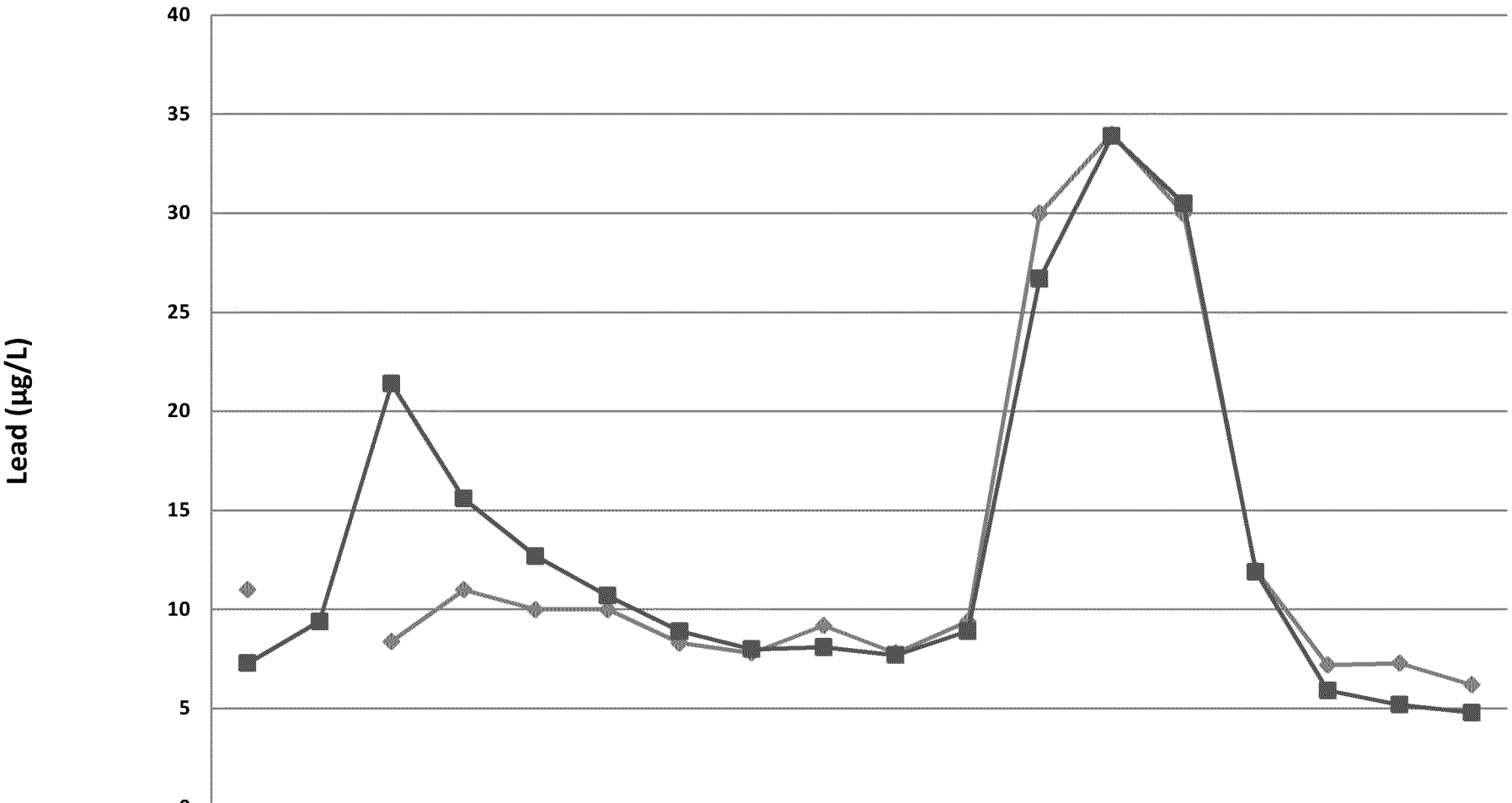


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S2: 11/18/2016	7	6	6.5	10.8	7.7	7.4	8.3	10.6	16.1	17.4	17.3	15.6	12.2	8	6.6

Site ID: 3072

Ex. 6 - Personal Privacy

(Site ID: 3072 - G/G)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/5/2016	11		8.4	11	10	10	8.3	7.8	9.2	7.8	9.4	30	34	30	12	7.2	7.3	6.2
S2: 11/17/2016	7.3	9.4	21.4	15.6	12.7	10.7	8.9	8	8.1	7.7	8.9	26.7	33.9	30.5	11.9	5.9	5.2	4.8

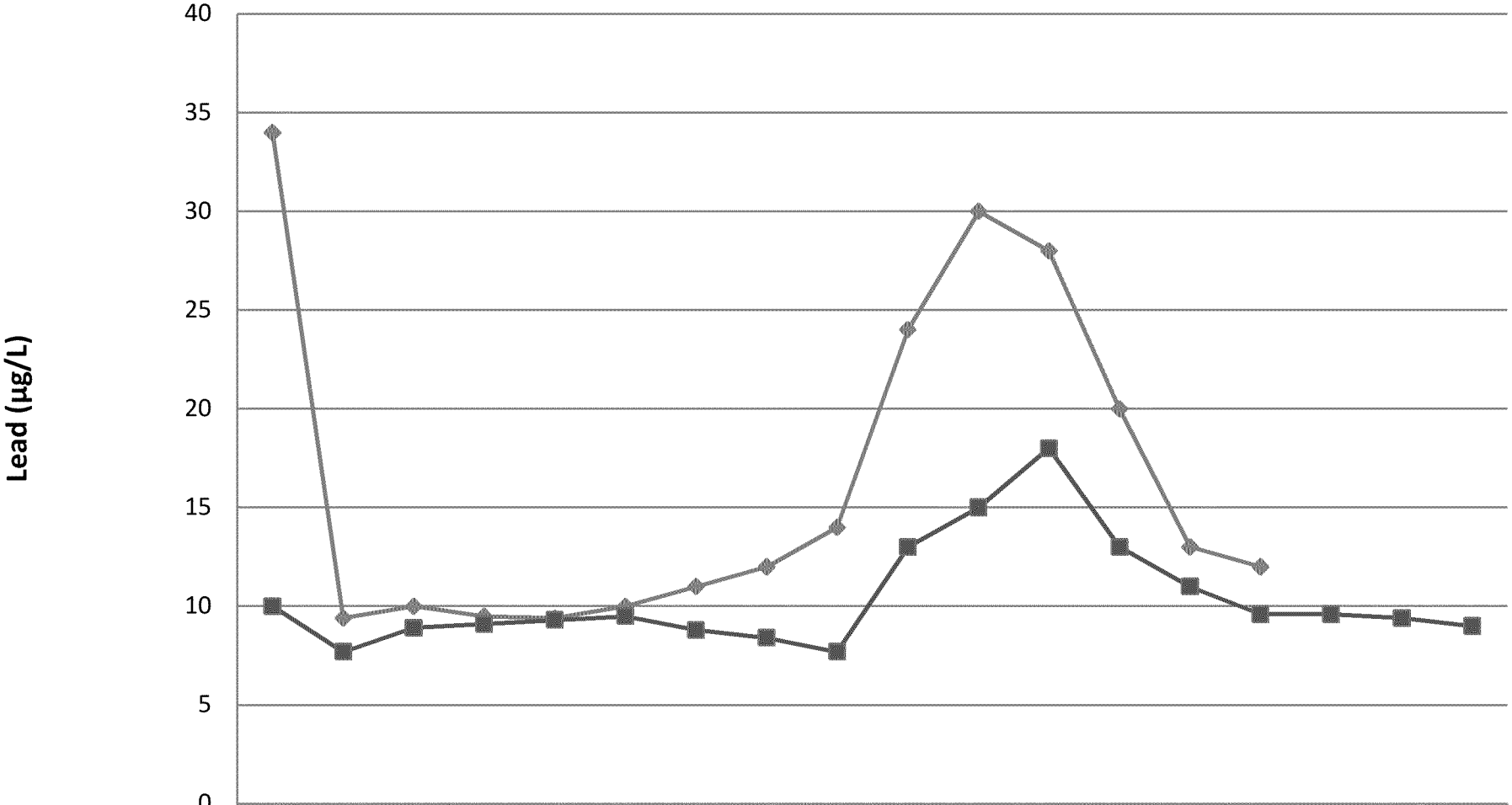
Site ID: 3074

Site ID: 3075

Site ID: 3087

Ex. 6 - Personal Privacy

(Site ID: 3087 - G/G)



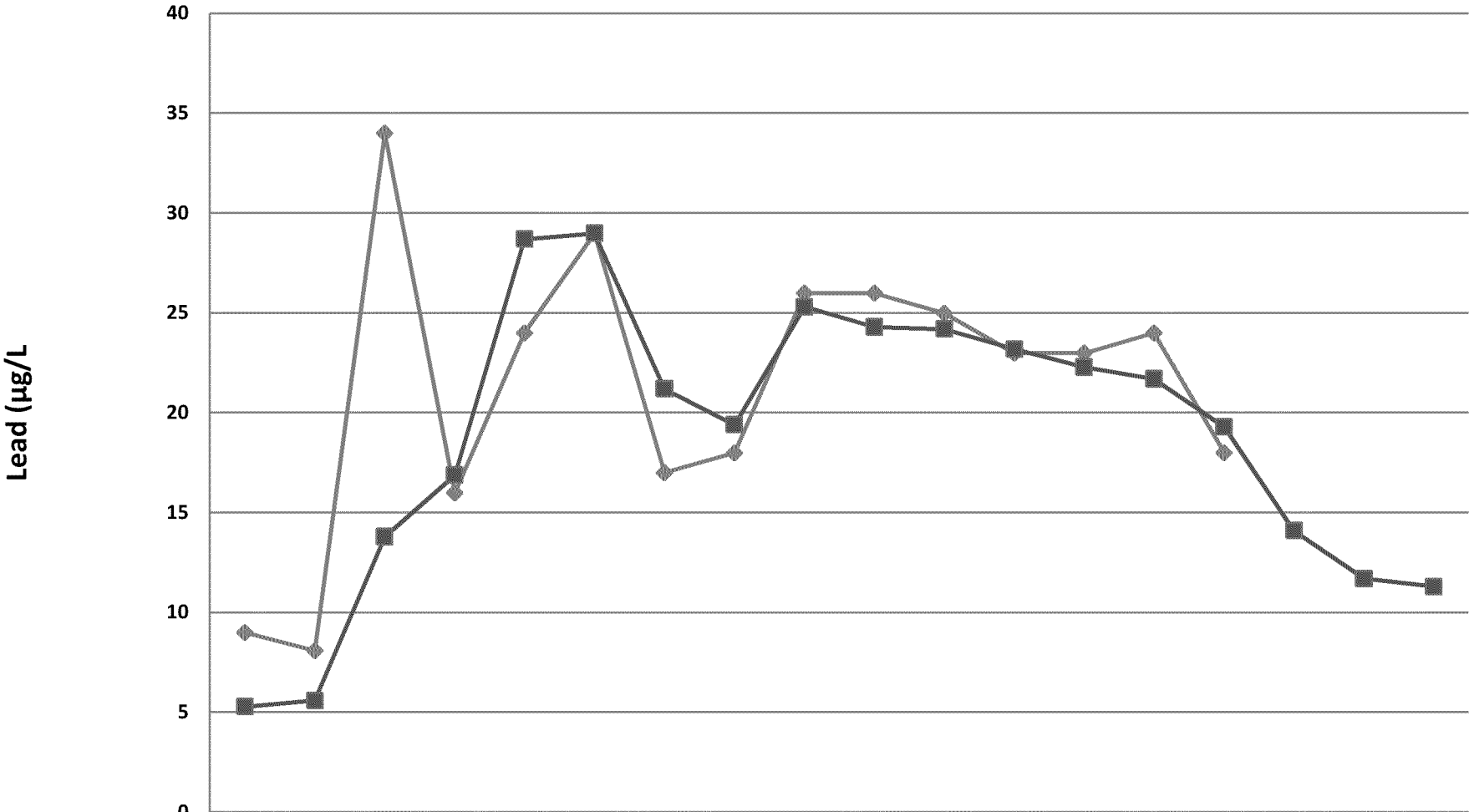
	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/3/2016	34.0	9.4	10.0	9.5	9.4	10.0	11.0	12.0	14.0	24.0	30.0	28.0	20.0	13.0	12.0			
S2: 10/12/2016	10.0	7.7	8.9	9.1	9.3	9.5	8.8	8.4	7.7	13.0	15.0	18.0	13.0	11.0	9.6	9.6	9.4	9.0

Site ID: 3088

Site ID: 3091

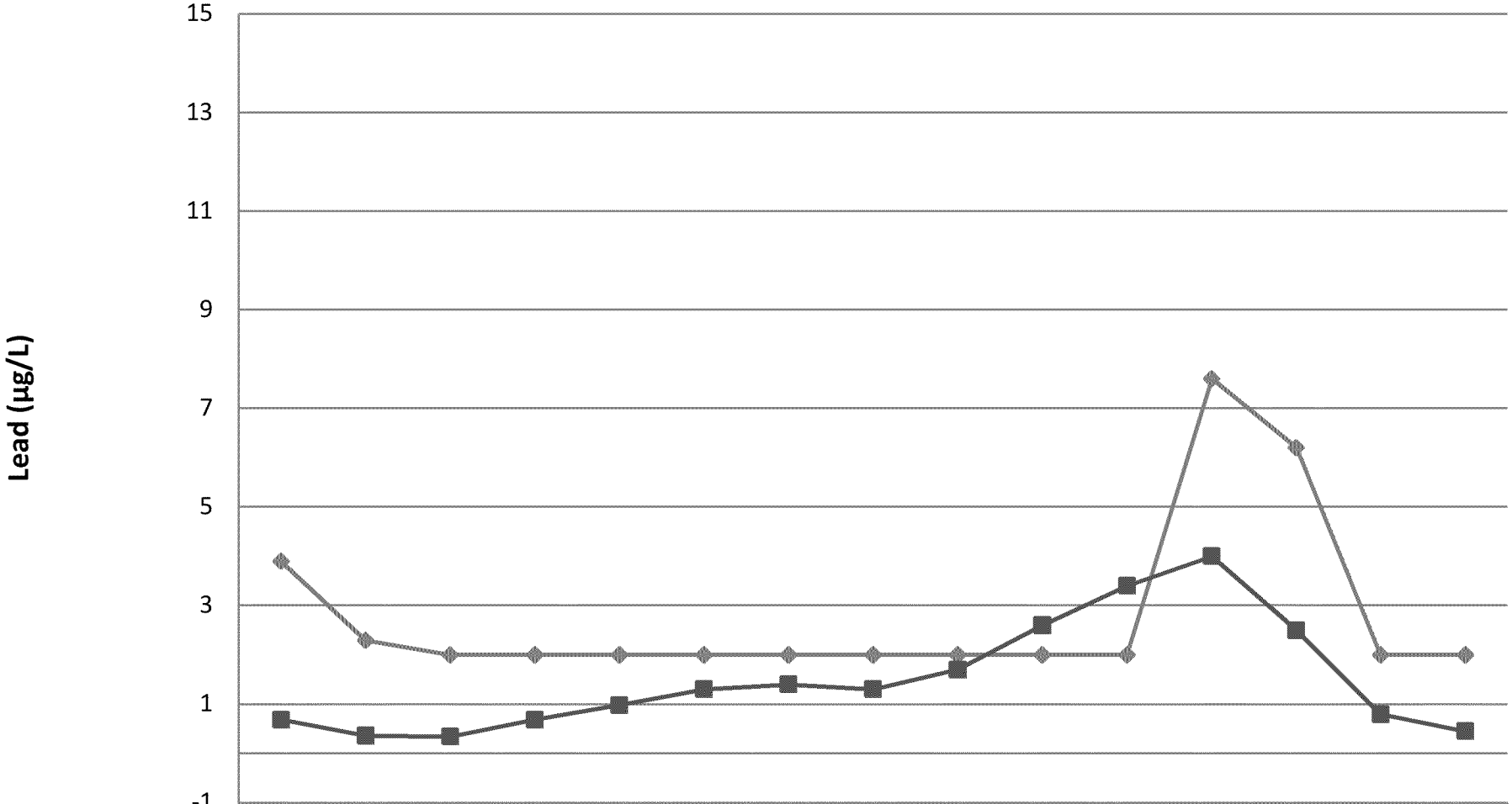
Ex. 6 - Personal Privacy

(Site ID: 3091 - G/?)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/4/2016	9.0	8.1	34	16	24	29	17	18	26	26	25	23	23	24	18			
S2: 11/11/2016	5.3	5.6	13.8	16.9	28.7	29	21.2	19.4	25.3	24.3	24.2	23.2	22.3	21.7	19.3	14.1	11.7	11.3

Site ID: 3092

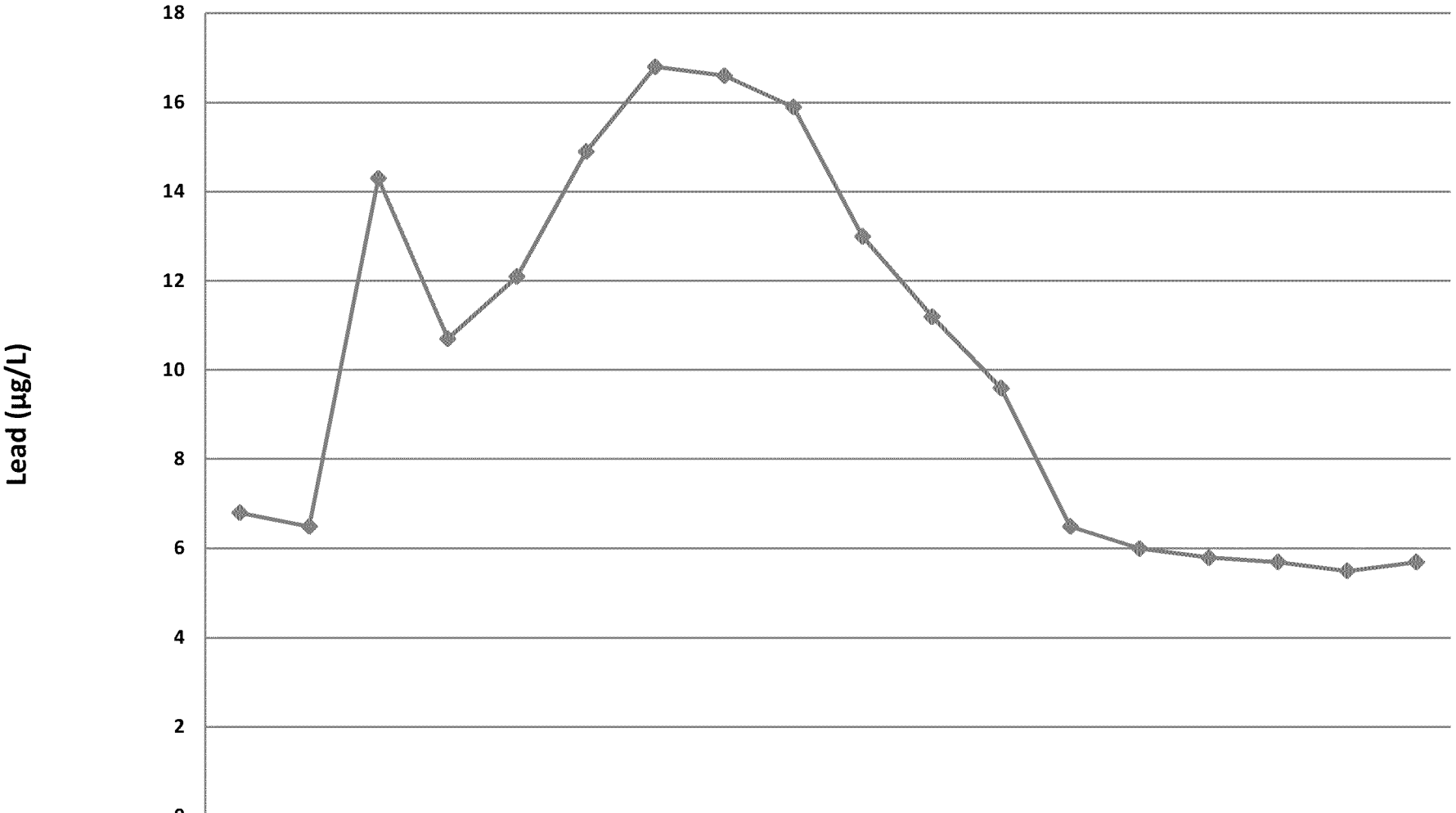


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/10/2016	3.9	2.3	2	2	2	2	2	2	2	2	2	7.6	6.2	2	2
S2: 11/3/2016	0.68	0.36	0.34	0.68	0.98	1.3	1.4	1.3	1.7	2.6	3.4	4	2.5	0.79	0.45

Site ID: 3097

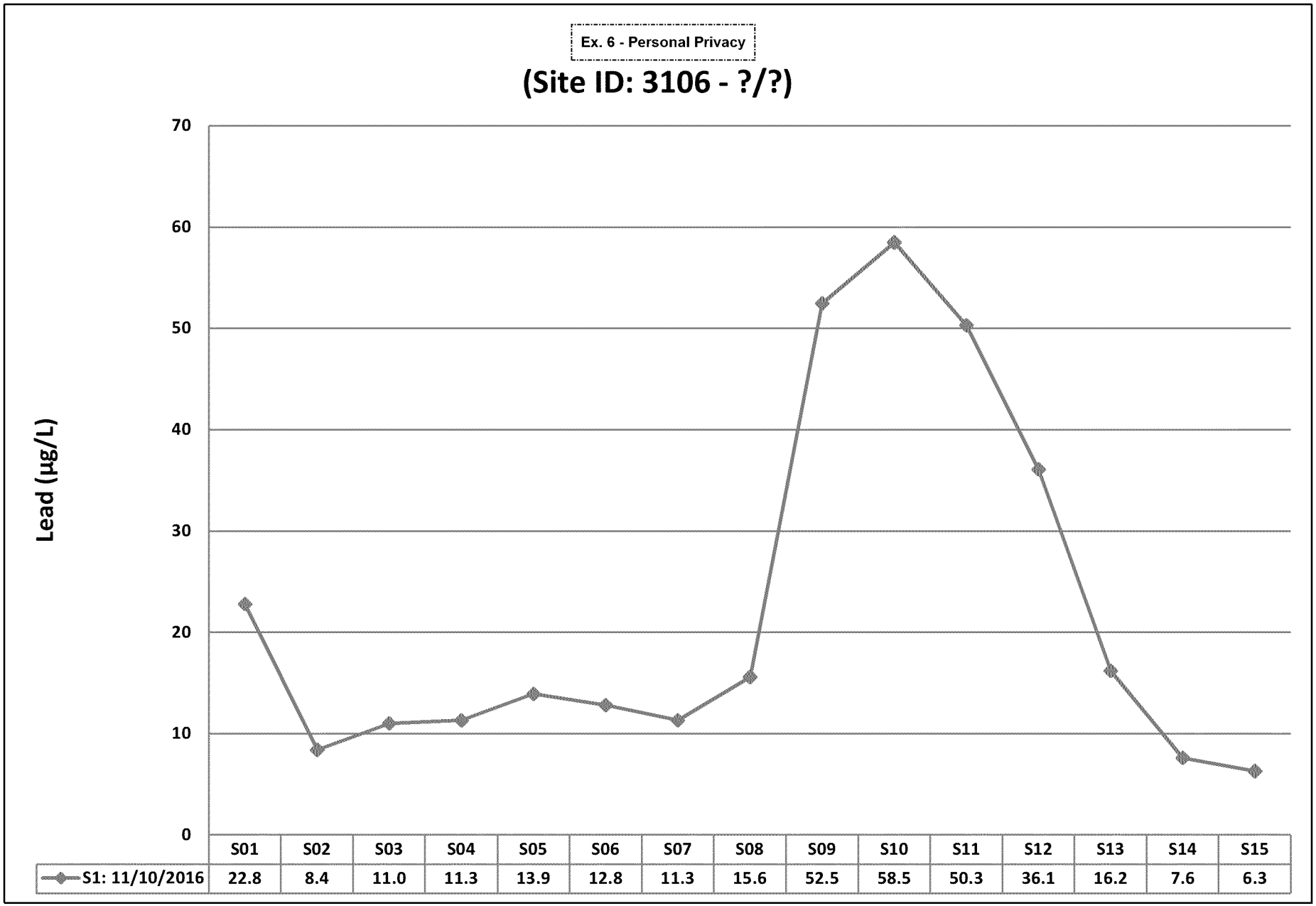
Ex. 6 - Personal Privacy

(Site ID: 3097 - Pb/G & C)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/29/2016	6.8	6.5	14.3	10.7	12.1	14.9	16.8	16.6	15.9	13	11.2	9.6	6.5	6	5.8	5.7	5.5	5.7

Site ID: 3106



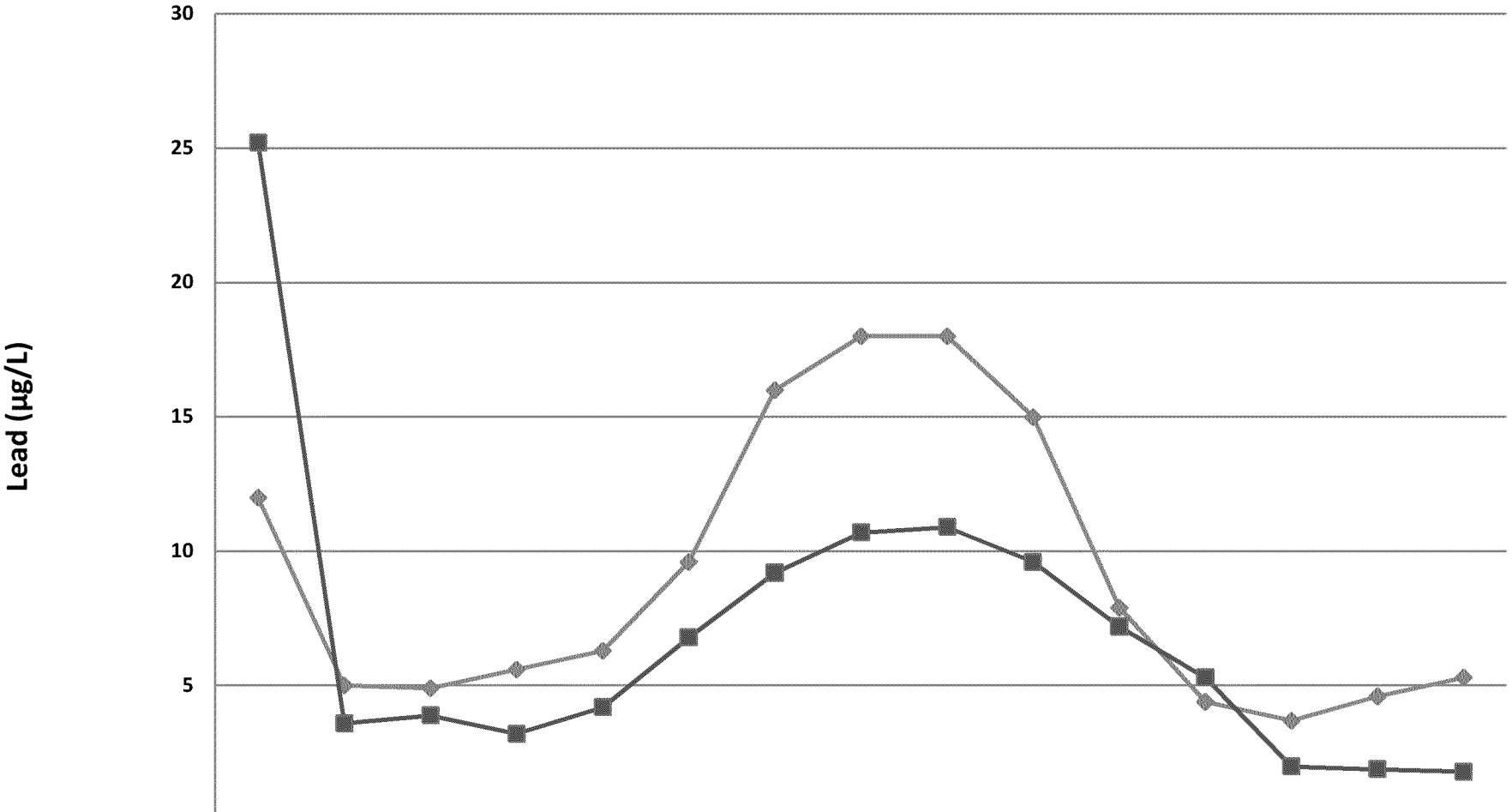
	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 11/10/2016	22.8	8.4	11.0	11.3	13.9	12.8	11.3	15.6	52.5	58.5	50.3	36.1	16.2	7.6	6.3

Site ID: 3113

Site ID: 3121

Ex. 6 - Personal Privacy

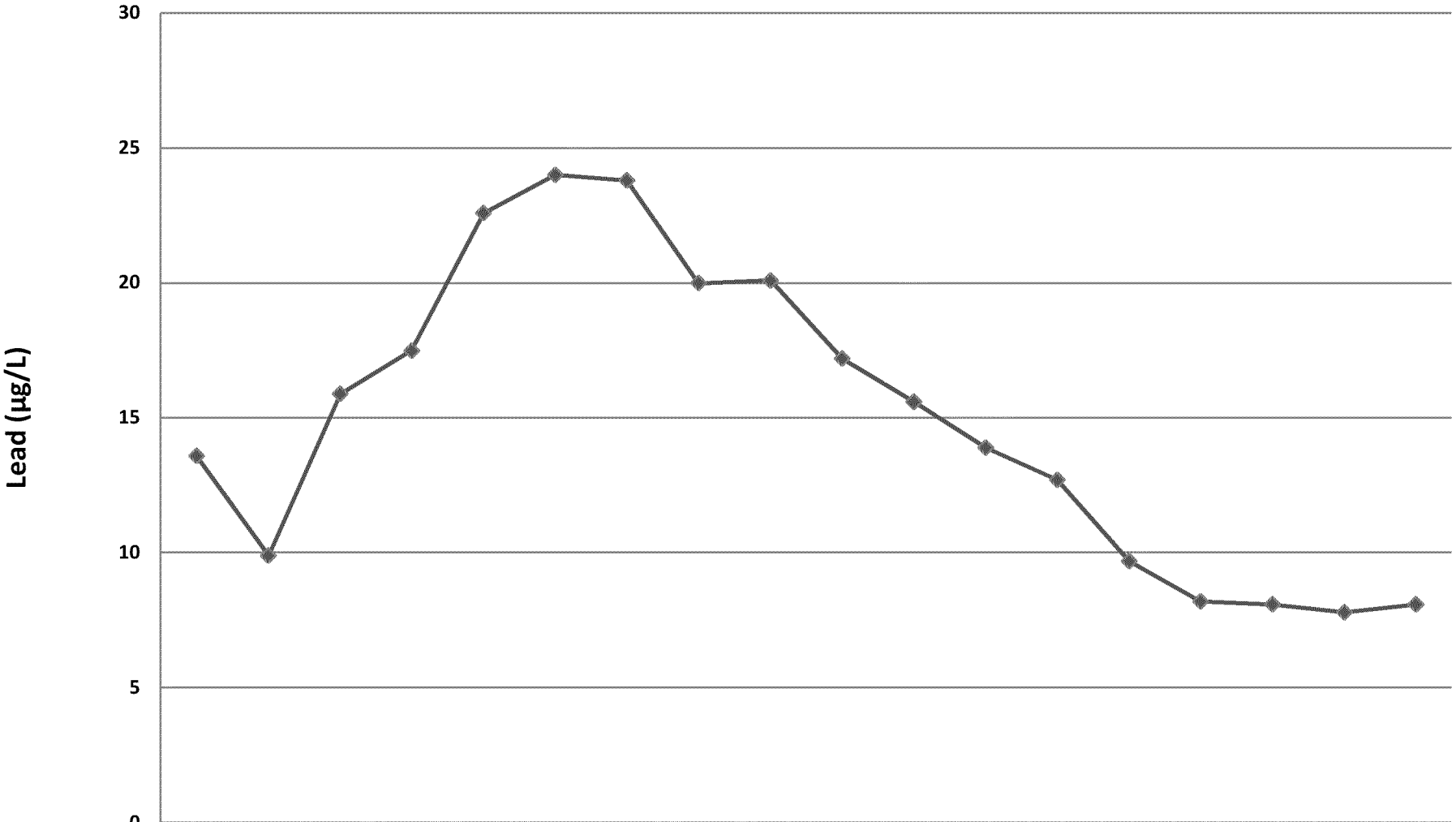
(Site ID: 3121 - Pb/?)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/11/2016	12	5	4.9	5.6	6.3	9.6	16	18	18	15	7.9	4.4	3.7	4.6	5.3
S2: 11/16/2016	25.2	3.6	3.9	3.2	4.2	6.8	9.2	10.7	10.9	9.6	7.2	5.3	2.0	1.9	1.8

Site ID: 3135

Ex. 6 - Personal Privacy

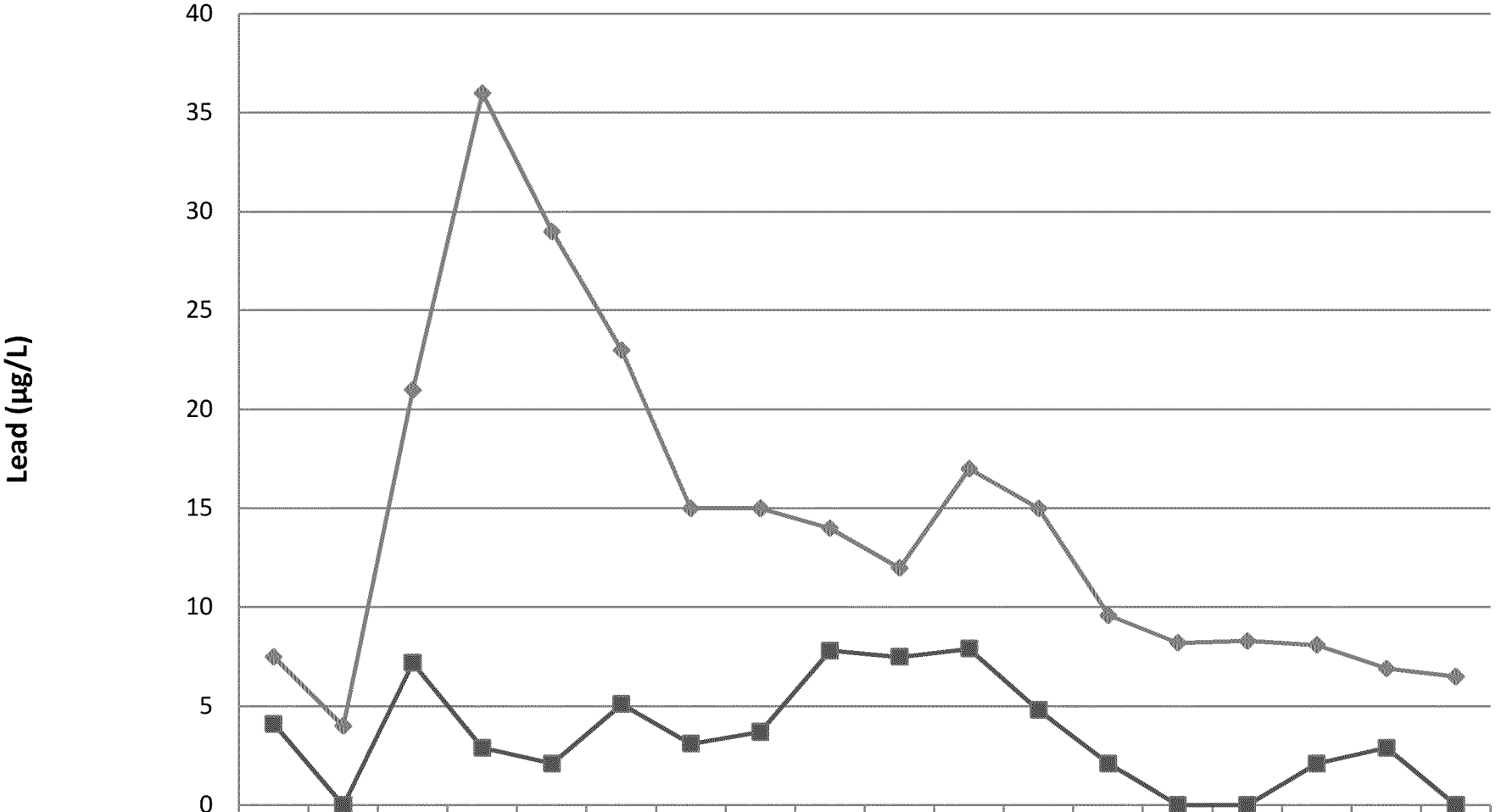


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
11/3/2016	13.6	9.9	15.9	17.5	22.6	24	23.8	20	20.1	17.2	15.6	13.9	12.7	9.7	8.2	8.1	7.8	8.1

Site ID: 3206

Ex. 6 - Personal Privacy

(Site ID: 3206 - G/?)

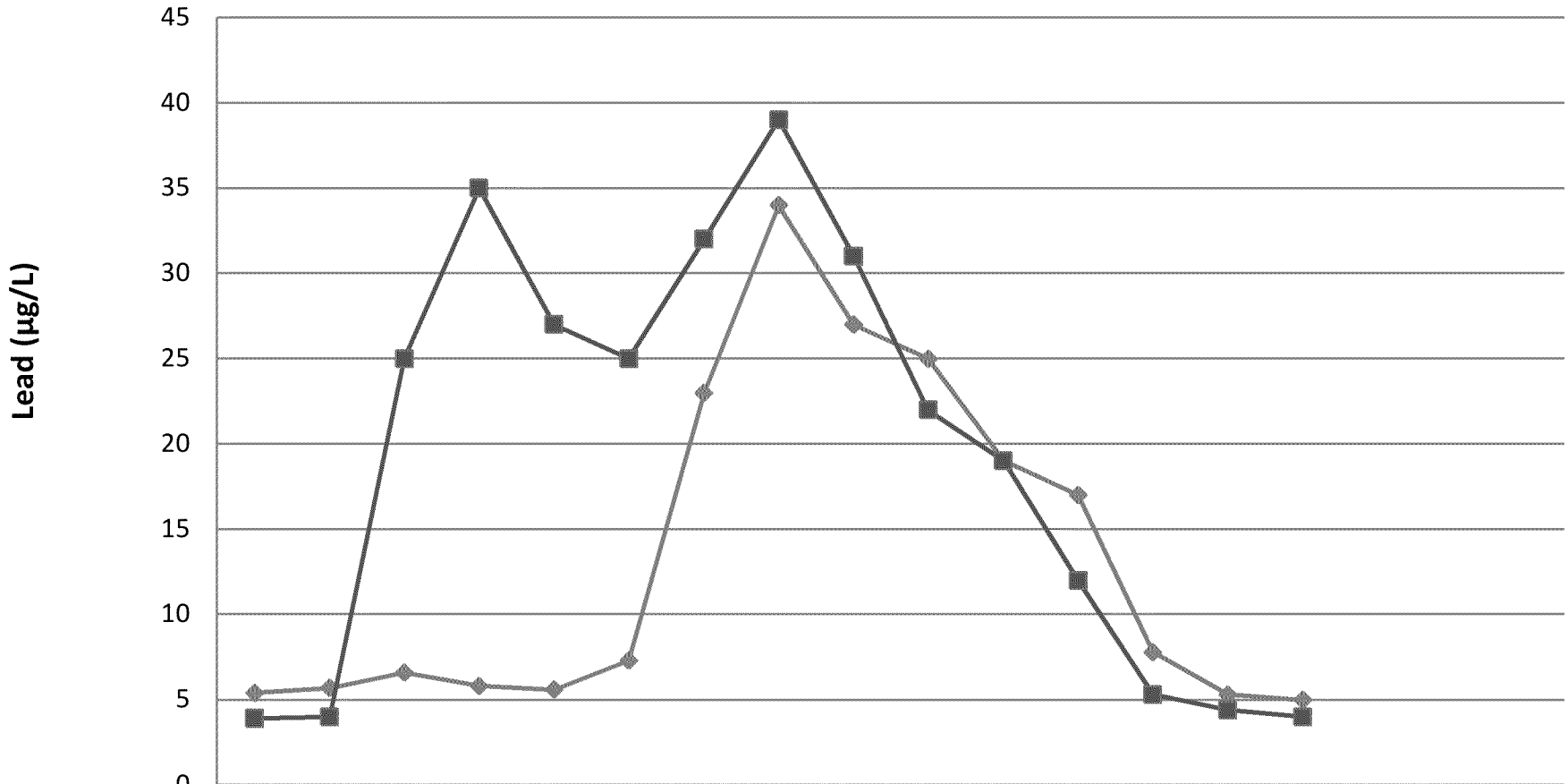


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/6/2016	7.5	4	21	36	29	23	15	15	14	12	17	15	9.6	8.2	8.3	8.1	6.9	6.5
S2: 10/18/2016	4.1	0	7.2	2.9	2.1	5.1	3.1	3.7	7.8	7.5	7.9	4.8	2.1	0	0	2.1	2.9	0

Site ID: 3224

Ex. 6 - Personal Privacy

(Site ID: 3224 - Pb/G)

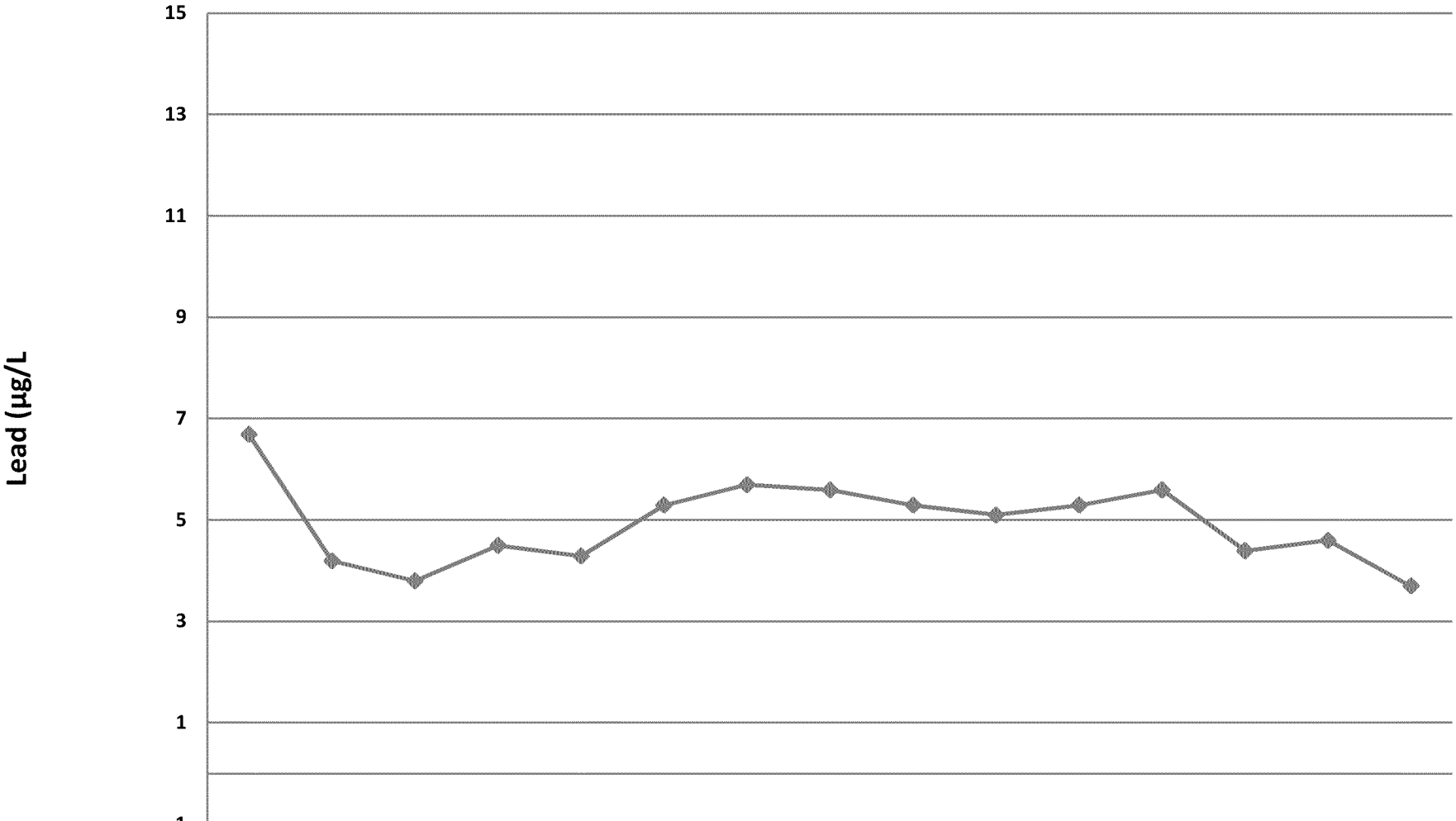


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 9/28/2016	5.4	5.7	6.6	5.8	5.6	7.3	23.0	34.0	27.0	25.0	19.0	17.0	7.8	5.3	5.0			
S2: 10/10/2016	3.9	4	25	35	27	25	32	39	31	22	19	12	5.3	4.4	4			

Site ID: 3226

Ex. 6 - Personal Privacy

(Site ID: 3226 - G/G)

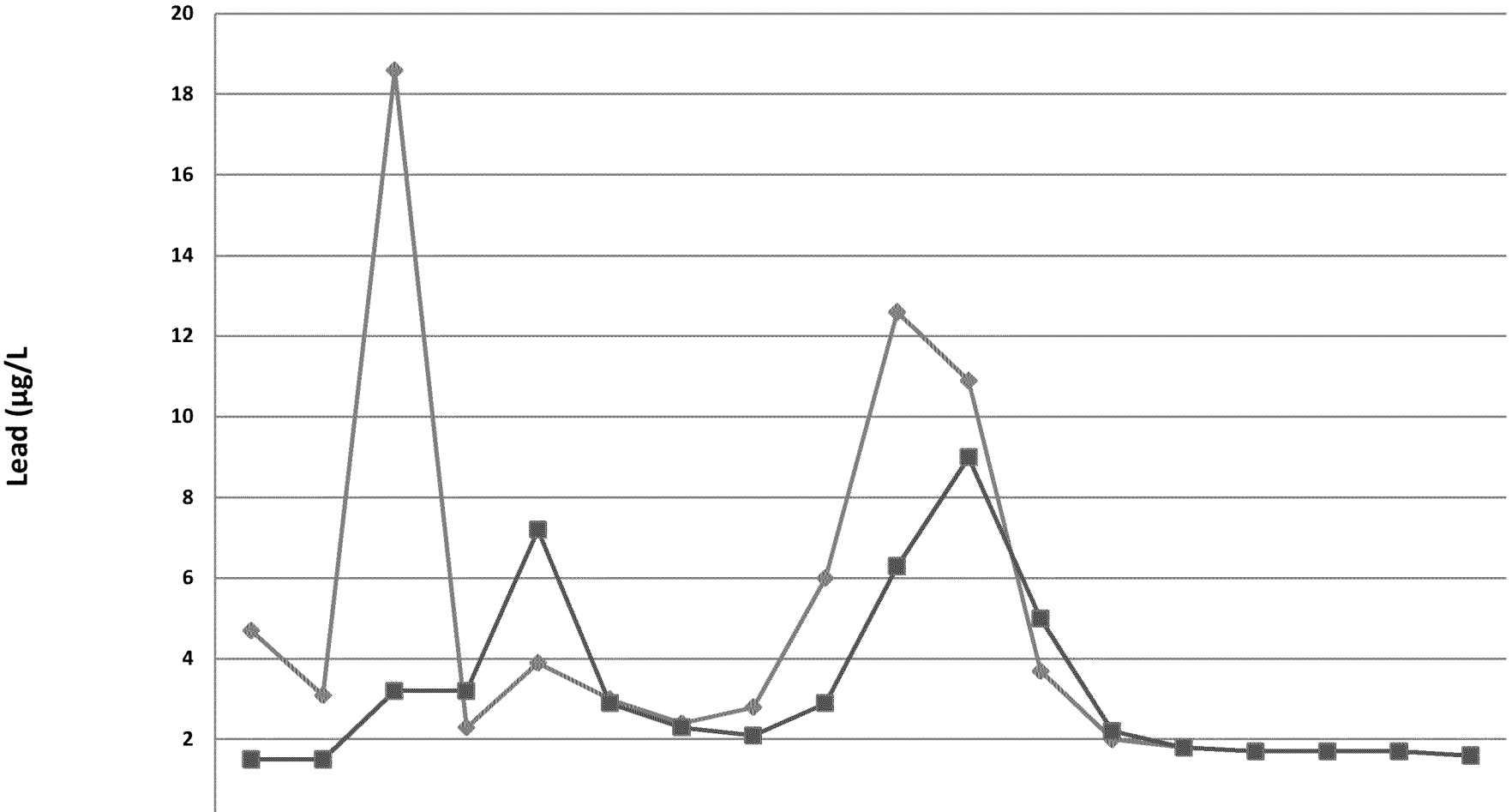


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/17/2016	6.7	4.2	3.8	4.5	4.3	5.3	5.7	5.6	5.3	5.1	5.3	5.6	4.4	4.6	3.7

Site ID: 3277

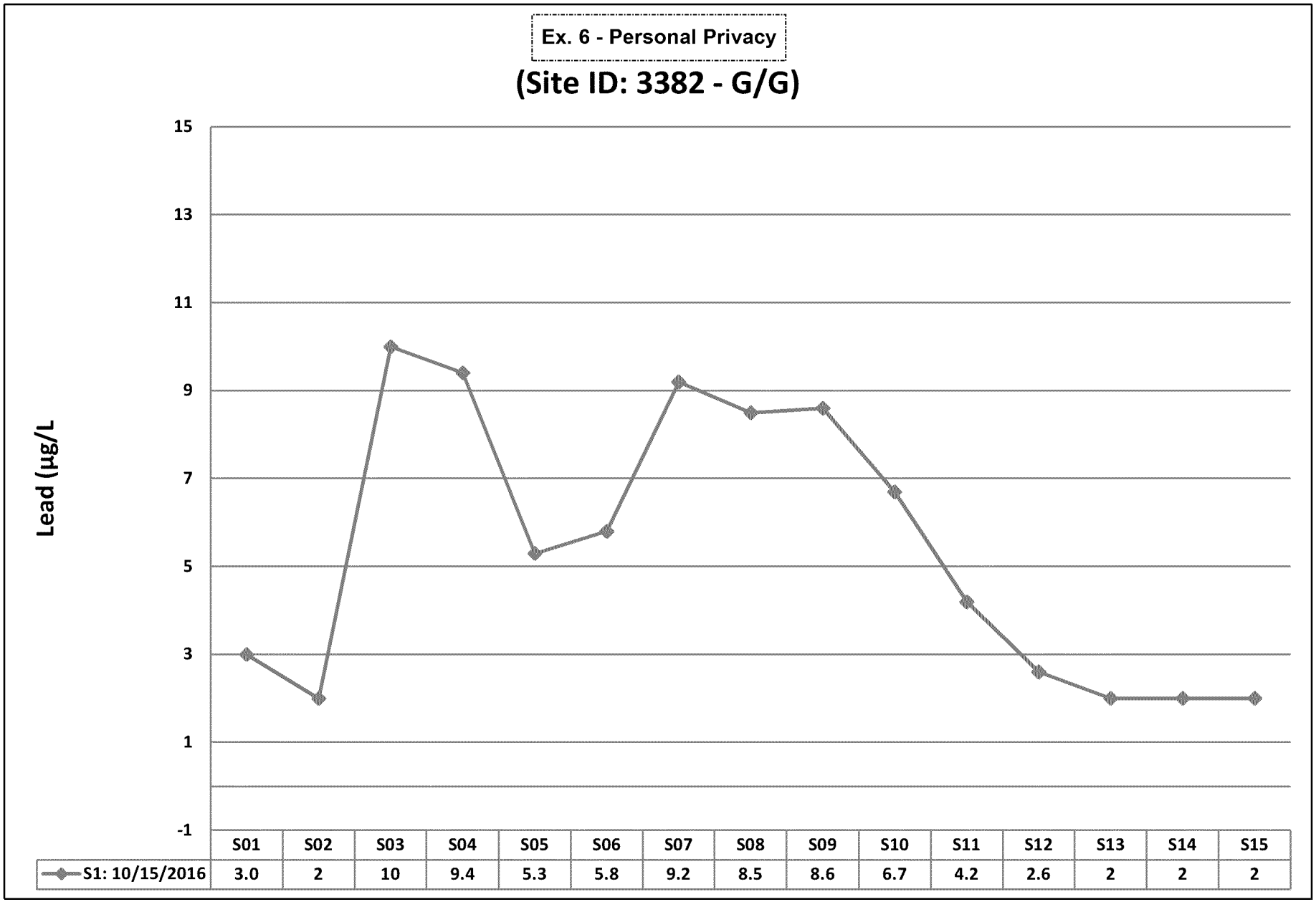
Ex. 6 - Personal Privacy

(Site ID: 3277 - ?/?)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 11/1/2016	4.7	3.1	18.6	2.3	3.9	3	2.4	2.8	6	12.6	10.9	3.7	2	1.8	1.7	1.7	1.7	1.6
S2: 11/19/2016	1.5	1.5	3.2	3.2	7.2	2.9	2.3	2.1	2.9	6.3	9.0	5.0	2.2	1.8	1.7	1.7	1.7	1.6

Site ID: 3282

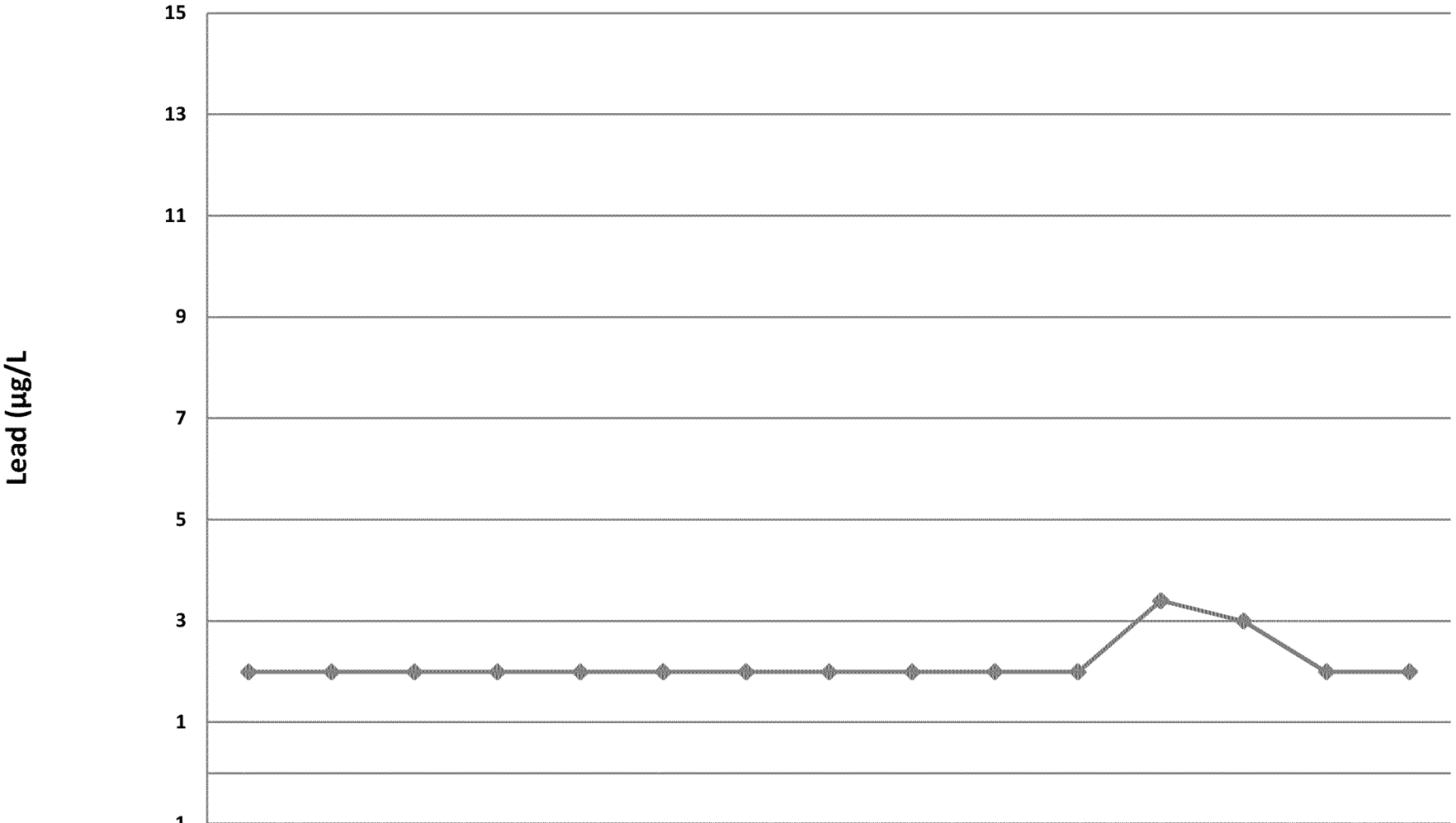


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/15/2016	3.0	2	10	9.4	5.3	5.8	9.2	8.5	8.6	6.7	4.2	2.6	2	2	2

Site ID: 3300

Ex. 6 - Personal Privacy

(Site ID: 3300 - Cu/G)

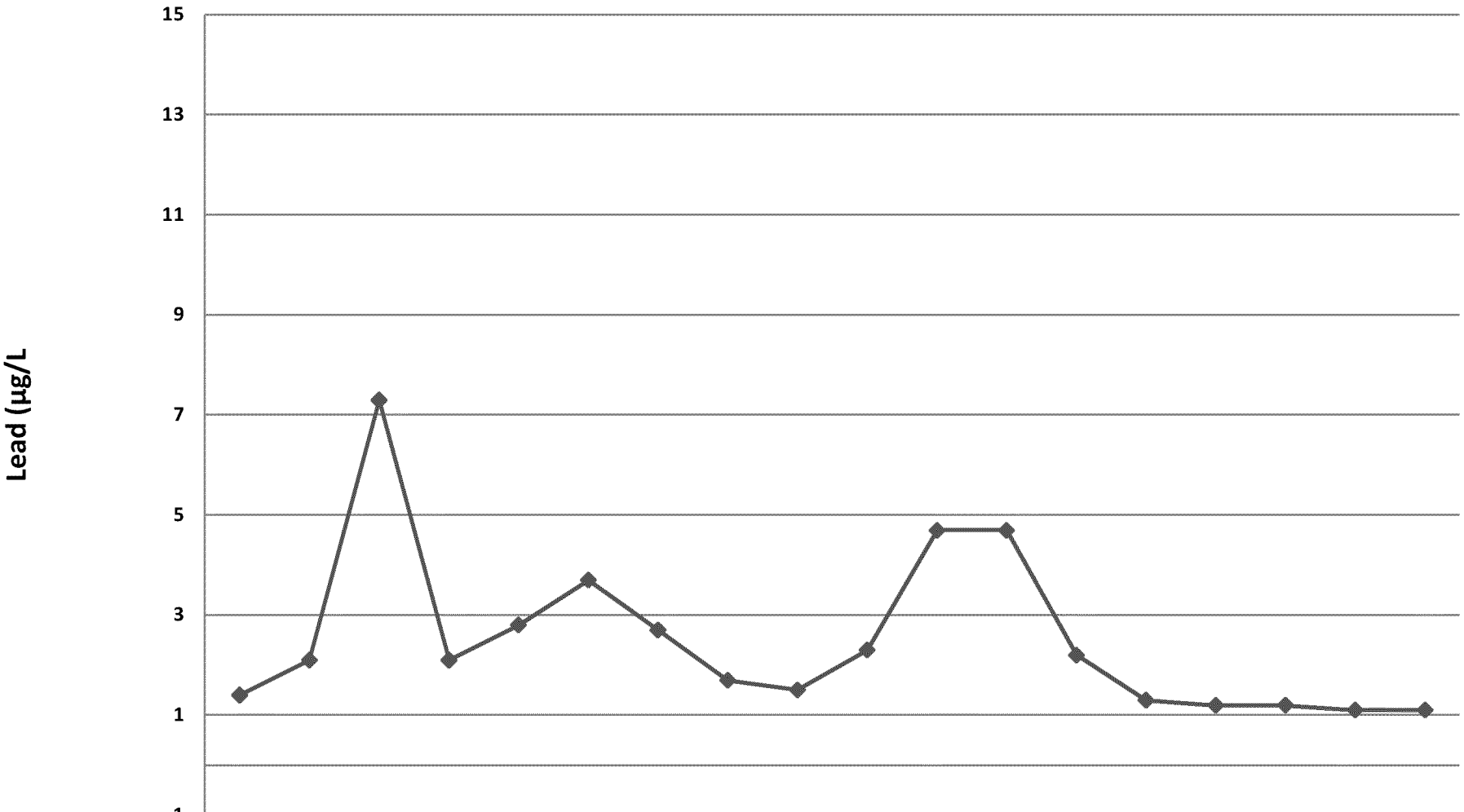


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/08/2016	2	2	2	2	2	2	2	2	2	2	2	3.4	3.0	2	2

Site ID: 3301

Ex. 6 - Personal Privacy

(Site ID: 3301 - G/G)

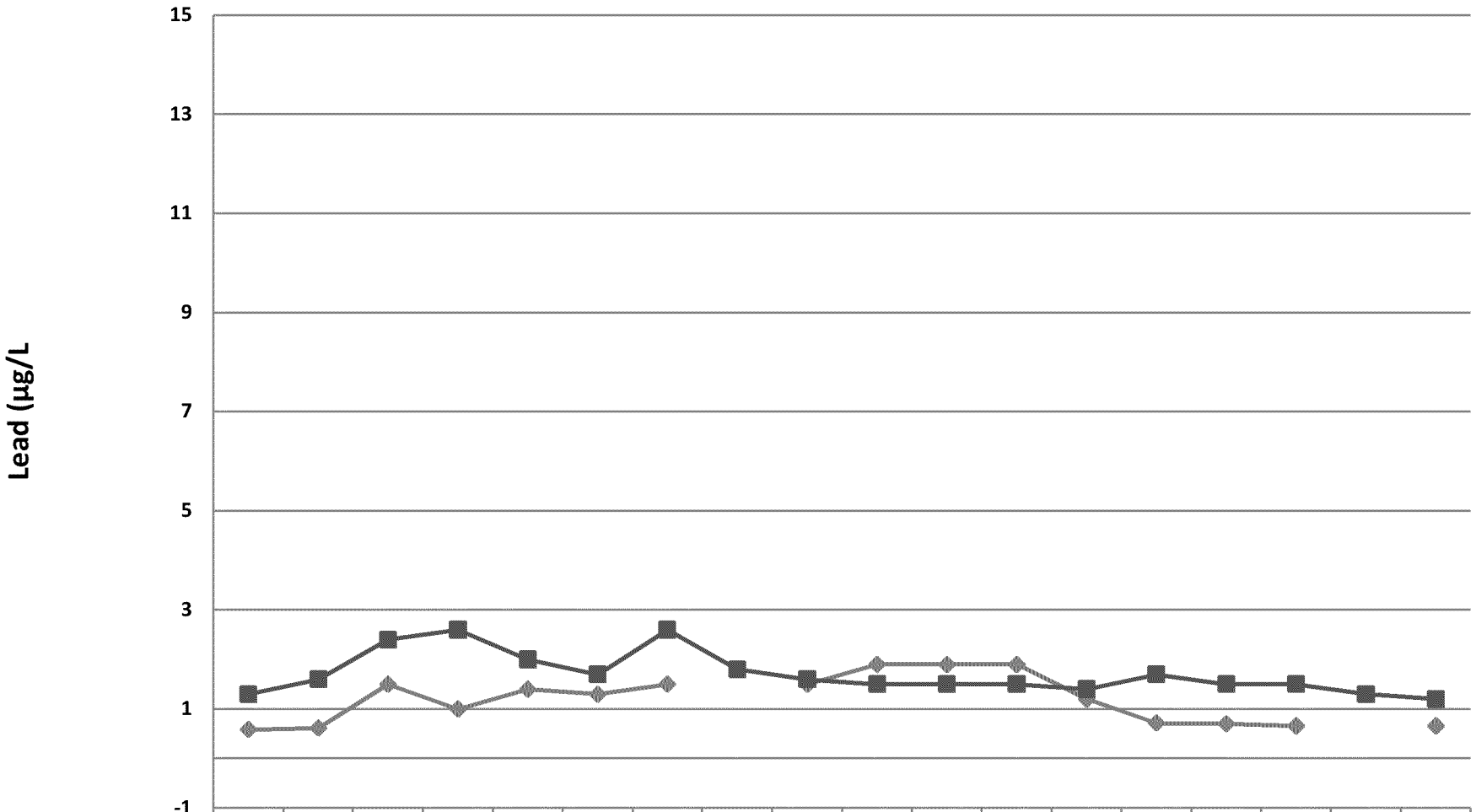


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S2: 11/15/2016	1.4	2.1	7.3	2.1	2.8	3.7	2.7	1.7	1.5	2.3	4.7	4.7	2.2	1.3	1.2	1.2	1.1	1.1

Site ID: 3302

Ex. 6 - Personal Privacy

(Site ID: 3302 - G/G)



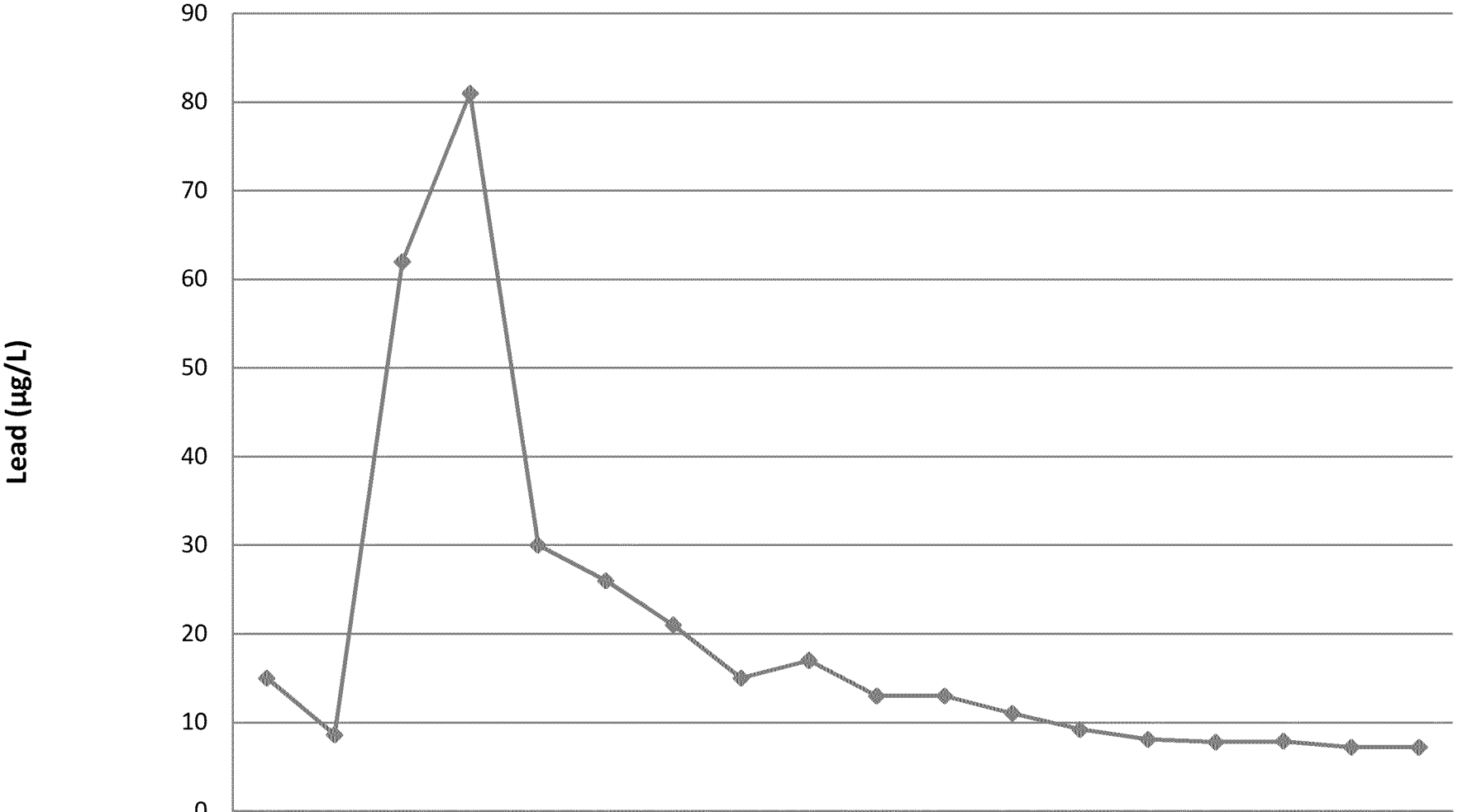
	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1:10/25/2016	0.59	0.62	1.5	1	1.4	1.3	1.5		1.5	1.9	1.9	1.9	1.2	0.72	0.7	0.66		0.66
S2: 11/13/2016	1.3	1.6	2.4	2.6	2.0	1.7	2.6	1.8	1.6	1.5	1.5	1.5	1.4	1.7	1.5	1.5	1.3	1.2

Site ID: 3319

Site ID: 3332

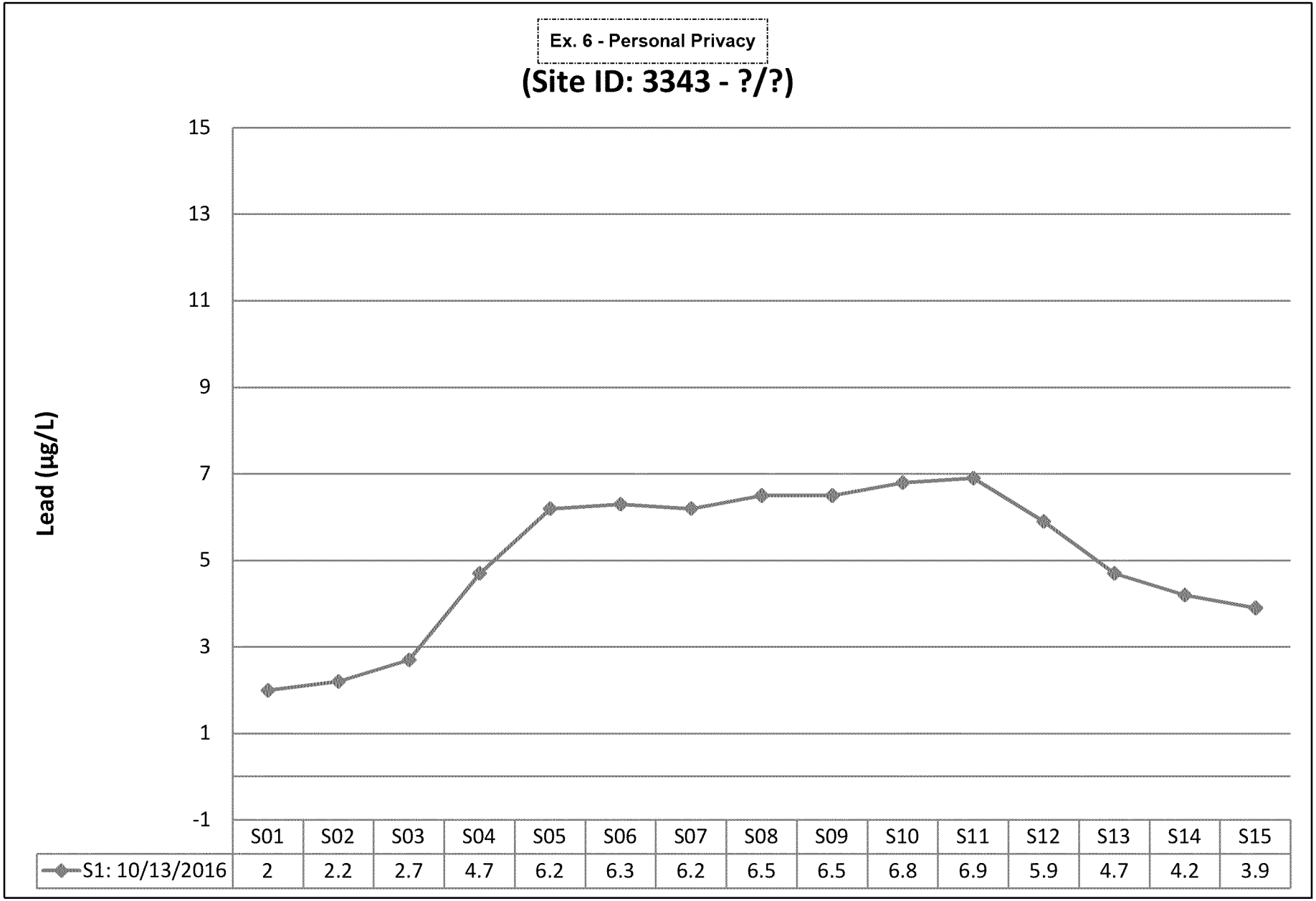
Ex. 6 - Personal Privacy

(Site ID: 3332 - G/G)



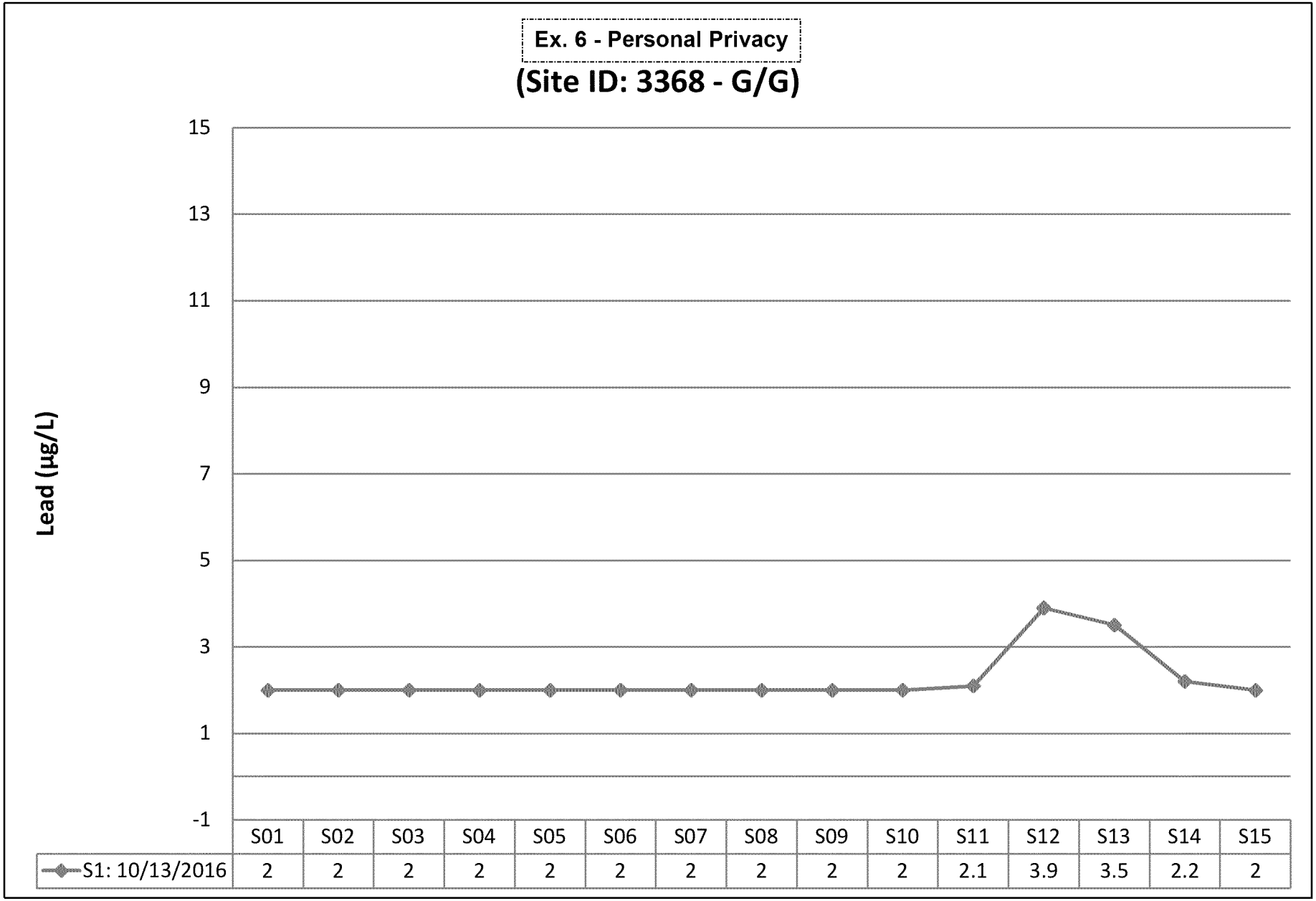
	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/10/2016	15	8.6	62	81	30	26	21	15	17	13	13	11	9.2	8.1	7.8	7.9	7.2	7.2

Site ID: 3343



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/13/2016	2	2.2	2.7	4.7	6.2	6.3	6.2	6.5	6.5	6.8	6.9	5.9	4.7	4.2	3.9

Site ID: 3368

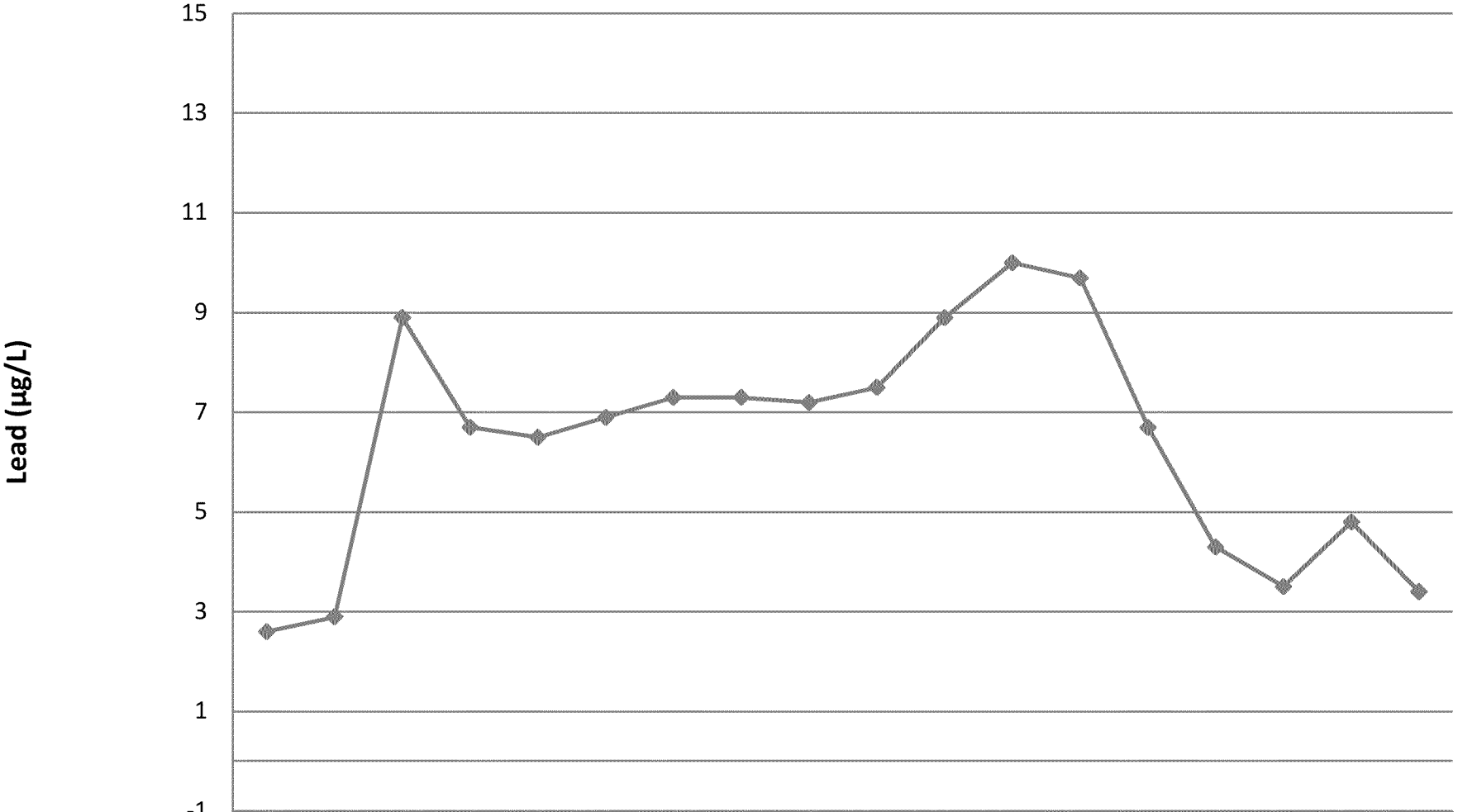


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/13/2016	2	2	2	2	2	2	2	2	2	2	2.1	3.9	3.5	2.2	2

Site ID: 3383

Ex. 6 - Personal Privacy

(Site ID: 3383 - G/G)

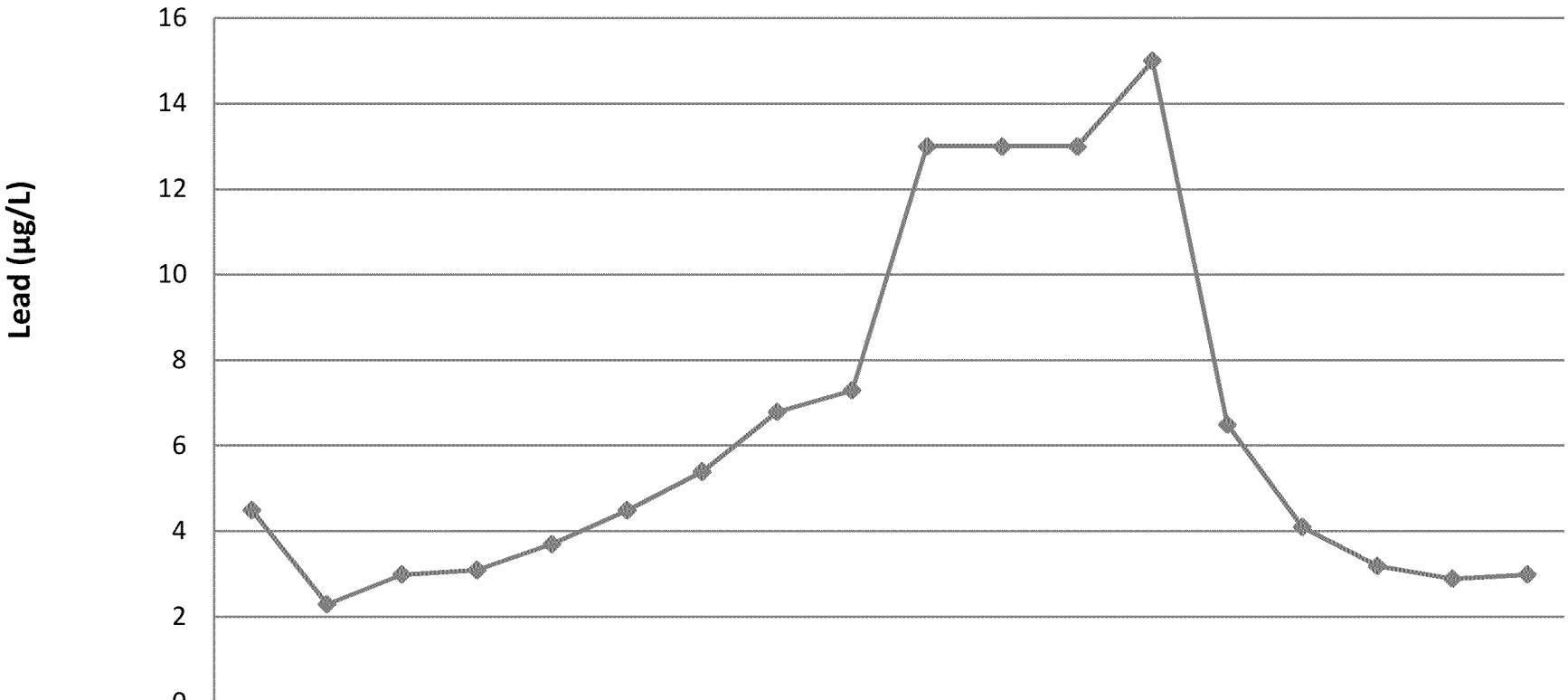


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/17/2016	2.6	2.9	8.9	6.7	6.5	6.9	7.3	7.3	7.2	7.5	8.9	10	9.7	6.7	4.3	3.5	4.8	3.4

Site ID: 3406

Ex. 6 - Personal Privacy

(Site ID: 3406 - G/?)

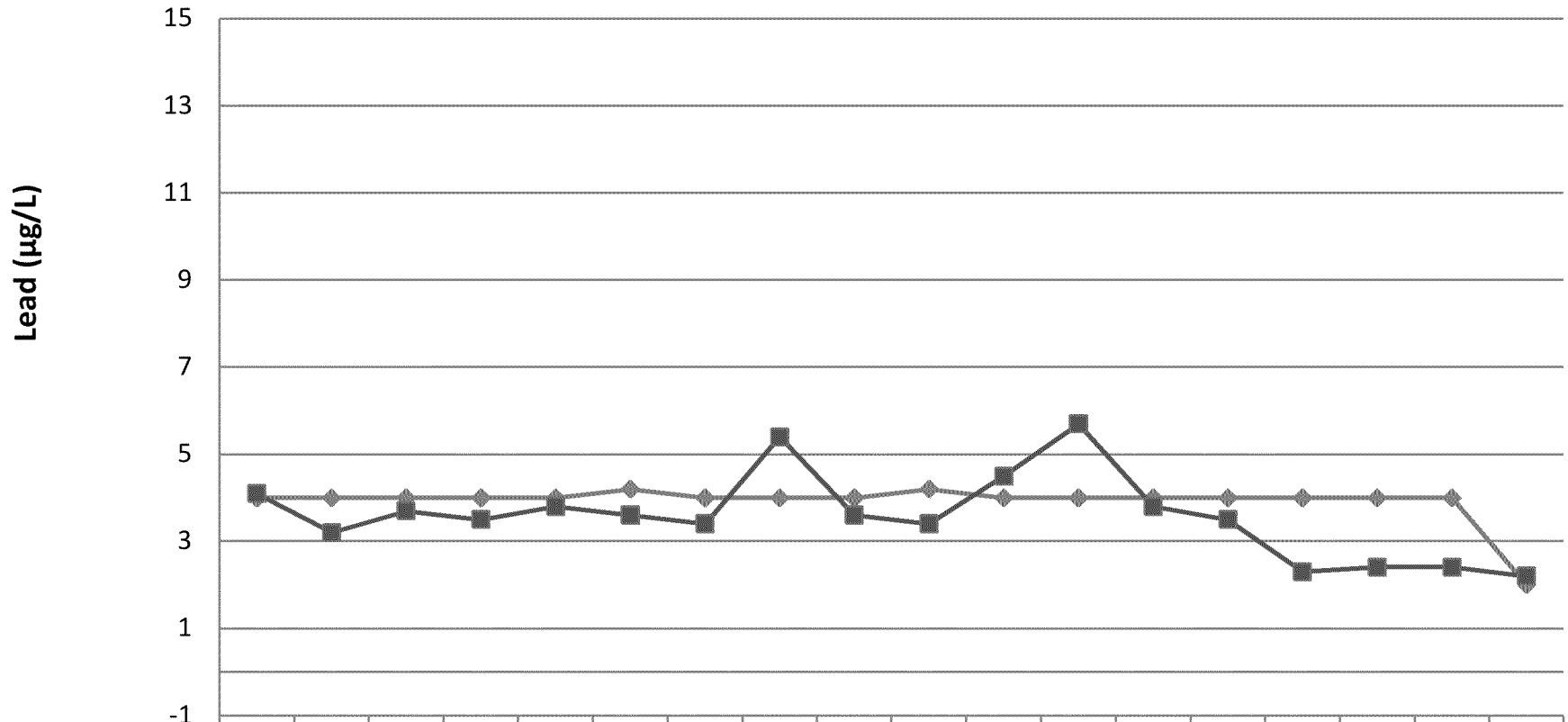


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/7/2016	4.5	2.3	3.0	3.1	3.7	4.5	5.4	6.8	7.3	13	13	13	15	6.5	4.1	3.2	2.9	3.0

Site ID: 3434

Ex. 6 - Personal Privacy

(Site ID: 3434 - G/G)

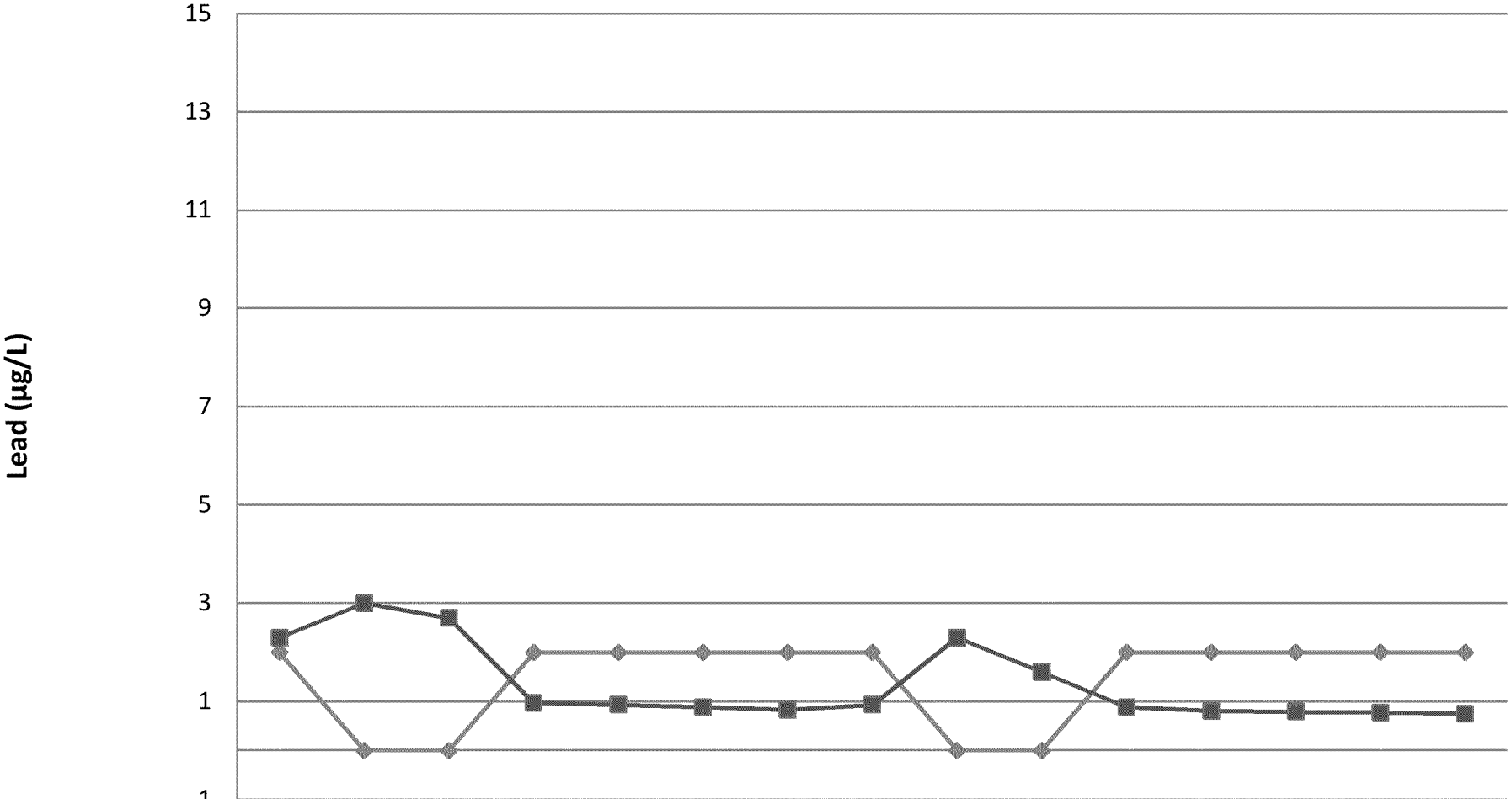


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/6/2016	4	4	4	4	4	4.2	4	4	4	4.2	4	4	4	4	4	4	4	2
S2: 10/18/2016	4.1	3.2	3.7	3.5	3.8	3.6	3.4	5.4	3.6	3.4	4.5	5.7	3.8	3.5	2.3	2.4	2.4	2.2

Site ID: 3437

Ex. 6 - Personal Privacy

(Site ID: 3437 - G/Cu)

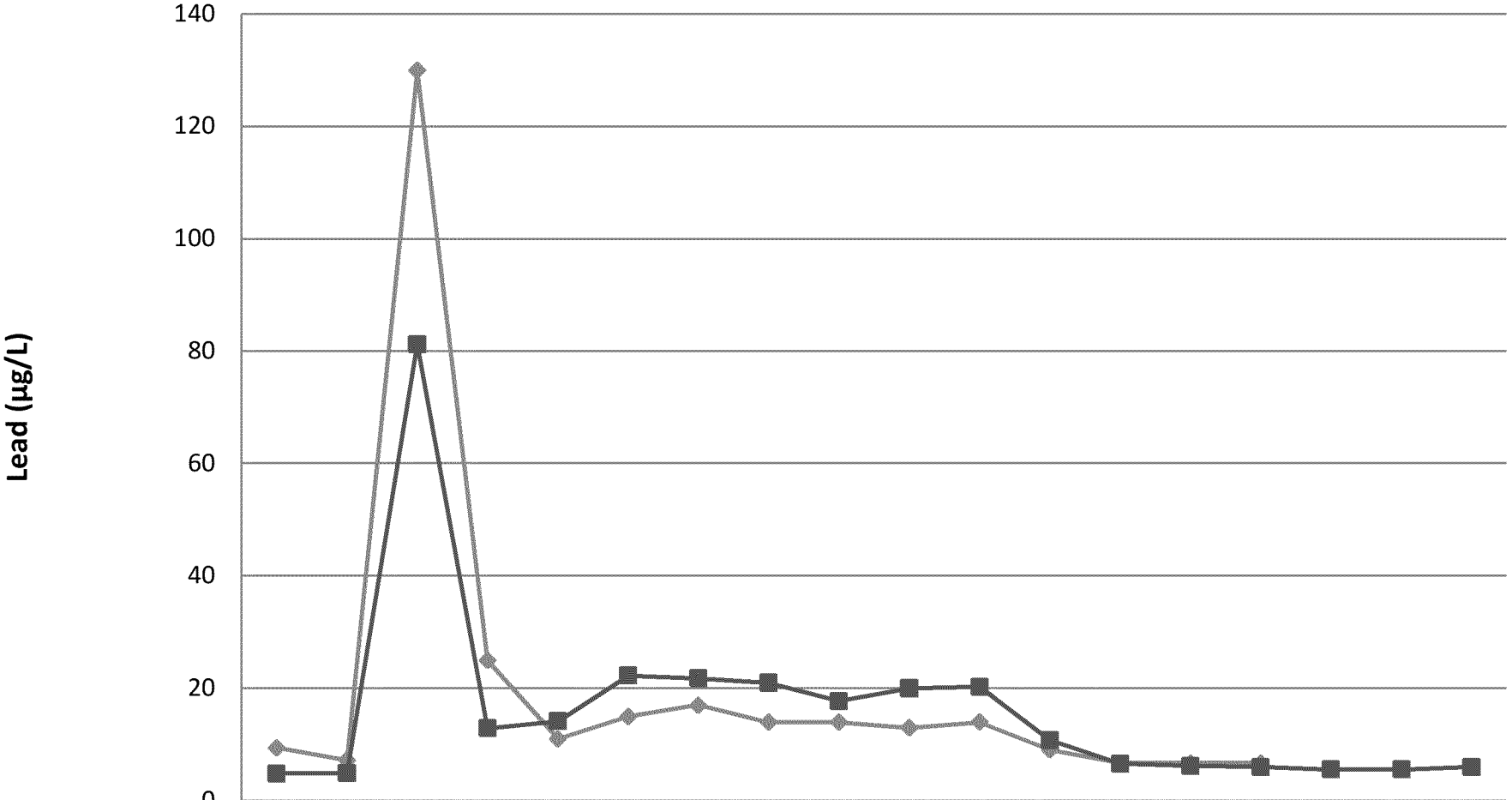


	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15
S1: 10/14/2016	2	0	0	2	2	2	2	2	0	0	2	2	2	2	2
S2: 11/3/2016	2.3	3	2.7	0.97	0.93	0.88	0.83	0.93	2.3	1.6	0.88	0.8	0.79	0.77	0.75

Site ID: 3443

Ex. 6 - Personal Privacy

(Site ID: 3443 - Pb / Cu)



	S01	S02	S03	S04	S05	S06	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18
S1: 10/15/2016	9.4	7.2	130	25	11	15	17	14	14	13	14	9.1	6.7	6.7	6.7			
S2: 11/19/2016	4.8	4.9	81.2	12.9	14.2	22.3	21.8	21.0	17.7	20.0	20.3	10.8	6.6	6.2	6.0	5.6	5.6	6.0

East Chicago Water Works
Water Laboratory
PWSID # 5245012

ate	Time	Sampling Location	Sampler	Ph	Phosphate mg/L
8-3-16	9:35 AM		WR	8.14	.25
8-3-16	9:50 AM		WR	8.15	.07
8-3-16	10:20 AM		WR	8.18	.23
8-4-16	1:15 PM		WR	8.21	.43
8-4-16	1:00 PM		WR	8.22	.18
8-4-16	10:15 AM		WR	8.08	.21
8-4-16	10:00 AM		WR	8.13	.28
8-10-16	10:15 AM		WR	8.16	.21
8-10-16	9:45 AM		WR	8.23	.06
8-11-16	9:45 AM		WR	8.15	.32
8-11-16	11:00 AM		WR	8.18	.31
8-16-16	1:35 PM		WR	8.10	.24
8-16-16	1:45 PM		WR	8.10	.35
8-17-17	10:10 AM		WR	8.23	.29
8-17-17	9:35 AM		WR	8.21	.35
8-18-16	10:10 AM		WR	8.30	.18
8-18-16	11:05 AM		WR	8.35	.23
8-22-16	10:00 AM		WR	8.14	.34
8-22-16	9:35 AM		WR	8.17	.14
8-24-16	10:20 AM		WR	8.13	.25
8-24-16	9:55 AM		WR	8.17	.21
8-24-16	9:35 AM		WR	8.17	.23
8-25-16	10:25 AM		WR	8.08	.38
8-25-16	11:15 AM		WR	8.27	.37
8-31-16	9:55 AM		WR	8.41	.16
8-31-16	10:35 AM		WR	8.53	.29
8-31-16	11:10 AM		WR	8.10	.14
8-31-16	10:45 AM		WR	8.20	.11
8-31-16	9:45 AM		WR	8.21	.14
8-31-16	10:25 AM		WR	8.25	.15

Ex. 6 - Personal Privacy

ents:

East Chicago Water Works
Water Laboratory
PWSID # 5245012

Date	Time	Sampling Location	Sampler	Ph	Phosphate mg/L
9-1-16	11:35 AM		WR	8.25	.22
9-1-16	10:30 AM		WR	8.28	.12
9-1-16	9:35 AM		WR	8.59	.30
9-1-16	9:50 AM		WR	8.30	.10
9-6-16	10:15 AM		WR	8.12	.16
9-6-16	10:50 AM		WR	8.14	.16
9-7-16	9:50 AM		WR	6.78	.24
9-7-16	9:30 AM		WR	6.62	.07
9-7-16	10:35 AM		WR	6.89	.19
9-8-16	9:55 AM		WR	8.14	.28
9-8-16	10:35 AM		WR	8.24	.26
9-12-16	11:30 AM		WR	8.16	.35
9-12-16	10:46 AM		WR	8.12	.36
9-12-16	9:45 AM		WR	8.09	.28
9-13-16	10:20 AM		WR	7.97	.32
9-13-16	10:35 AM		WR	8.12	.33
9-14-16	10:55 AM		WR	8.09	.37
9-14-16	10:36 AM		WR	8.13	.36
9-15-16	9:45 AM		WR	8.55	.43
9-15-16	10:30 AM		WR	8.15	.35
9-26-16	9:55 AM		WR	8.14	.66
9-26-16	9:15 AM		WR	8.15	.41
9-26-16	9:35 AM		WR	7.95	.20
9-27-16	9:55 AM		WR	8.04	.41
9-27-16	11:15 AM		WR	8.03	.37
9-27-16	9:35 AM		WR	8.00	.38
9-28-16	11:05 AM		WR	8.05	.21
9-28-16	10:50 AM		WR	8.08	.42
9-29-16	10:05 AM		WR	8.08	.39
9-29-16	9:45 AM		WR	8.48	.45

Ex. 6 - Personal Privacy

Comments:

East Chicago Water Works
Water Laboratory
PWSID # 5245012

ate	Time	Sampling Location	Sampler	Ph	Phosphate mg/L
10-3-16	11:28 AM		WR	8.15	.39
10-3-16	10:03 AM		WR	8.17	.38
10-5-16	10:53 AM		WR	7.97	.41
10-5-16	9:35 AM		WR	7.85	.32
10-6-16	9:55 AM		WR	7.89	.31
10-6-16	10:37 AM		WR	7.97	.35
10-10-16	9:33 AM		WR	8.04	.36
10-10-16	10:16 AM		WR	8.01	.32
10-11-16	11:05 AM		WR	8.04	.34
10-11-16	9:10 AM		WR	8.00	.32
10-12-16	10:50 AM		WR	7.99	.26
10-12-16	9:45 AM		WR	8.06	.36
10-13-16	9:35 AM		WR	7.97	.23
10-13-16	10:03 AM		WR	8.15	.34
10-17-16	9:33 AM		WR	8.00	.28
10-17-16	11:08 AM		WR	8.07	.42
10-17-16	10:48 AM		WR	8.18	.38
10-19-16	11:25 AM		WR	7.95	.35
10-19-16	12:13 PM		WR	7.95	.27
10-20-16	10:05 AM		WR	7.96	.35
10-20-16	10:35 AM		WR	8.02	.32
10-24-16	10:10 AM		WR	8.07	.31
10-24-16	9:50 AM		WR	8.12	.31
10-25-16	10:30 AM		WR	8.02	.27
10-25-16	9:50 AM		WR	8.10	.26
10-25-16	9:30 AM		WR	8.04	.25
10-26-16	11:20 AM		WR	8.02	.32
10-26-16	9:45 AM		WR	7.96	.41
10-26-16	10:05 AM		WR	7.99	.28
10-27-16	10:25 AM		WR	8.01	.33

Ex. 6 - Personal Privacy

Co ents:

To: Donnelly, Peggy[donnelly.peggy@epa.gov]
From: Bair, Rita
Sent: Thur 12/1/2016 6:26:18 PM
Subject: RE: USS Lead Data Summary

We are meeting in Chris's office at 2:30. Scheduled for 15 minutes right now.

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 12:23 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead Data Summary

peg will be there.

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Bair, Rita
Sent: Thursday, December 1, 2016 12:11 PM
To: Maraldo, Dean
Subject: RE: USS Lead Data Summary

sure

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 12:11 PM

To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead Data Summary

Sorry, I'm not. Peg might be. Want me to find out?

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Bair, Rita
Sent: Thursday, December 1, 2016 11:51 AM
To: Maraldo, Dean
Subject: RE: USS Lead Data Summary

Are you free to talk at 2:30? Chris set up a very brief check-in meeting on East Chicago with Tom and I.

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 11:24 AM
To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: USS Lead Data Summary

All: I'm headed out of he country for several days so I wanted to get some ideas out

there regarding communication before I leave. Sorry I can't make the call with IDEM tomorrow. It sounds like calls to residents will happen soon which is good news. Also heard that there's a Superfund public meeting on Dec. 10.

That leaves the issue of notifying the community that we are finding elevated levels of lead in some of the homes at the USS Lead site, prior to excavation. I recommended

Ex. 5 - Deliberative Process

A few weeks back Miguel and I worked up a mock website (attached) providing info for residents at the USS Lead site and East Chicago in general. Its basically copied from the Chicago Study website that is currently live on R5 website. It needs updating (current status of IDEM/city efforts to treat) but its a start and provides good info for residents re filters, flushing, etc. I suggest we create something like this for USS Lead Site and East Chicago as there will be great interest and concern once data is released. Press release would be helpful to so we're not stuck responding to misinformation.

Thanks,

Dean

==========

Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: USS Lead Data Summary

All: here's a quick summary of results for USS Lead sequential sampling. Note that we still have no validated data for Zone 3 properties. New schedule from Superfund has first validated results for Zone 3 coming in on Dec. 9, with additional sets due Dec. 16 and Dec. 23.

So far, 54% of properties sampled, pre-excavation, have at least one sample with lead above action level [66% for Zone 3 and 25% for Zone 2].

We do have validated data for Zone 2 which confirmed the reliability of preliminary data. This applies to Zone 2 only as different labs were used for Zone 3.

USS Lead Sequential Sampling Result Summary **11/30/2016 Draft**	**Zone 2**		**Zone 3**		**Total**	
	Pre	Post	Pre	Post	Pre	Post
# of Properties in Sequential Sampling Program	8	8	37	37	45	45
# of Properties with Preliminary Results	8	5	18	16	26	21
# of Properties with at least one Pb result above action level (15 ppb)	2	1	12	8	14	9
# of Properties with Final - Validated Results	7	1	0	0	7	1

To: Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Bair, Rita
Sent: Thur 12/1/2016 6:11:42 PM
Subject: RE: USS Lead Data Summary

sure

From: Maraldo, Dean
Sent: Thursday, December 01, 2016 12:11 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead Data Summary

Sorry, I'm not. Peg might be. Want me to find out?

==========
Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Bair, Rita
Sent: Thursday, December 1, 2016 11:51 AM
To: Maraldo, Dean
Subject: RE: USS Lead Data Summary

Are you free to talk at 2:30? Chris set up a very brief check-in meeting on East Chicago with Tom and I.

From: Maraldo, Dean

Sent: Thursday, December 01, 2016 11:24 AM
To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: USS Lead Data Summary

All: I'm headed out of he country for several days so I wanted to get some ideas out there regarding communication before I leave. Sorry I can't make the call with IDEM tomorrow. It sounds like calls to residents will happen soon which is good news. Also heard that there's a Superfund public meeting on Dec. 10.

That leaves the issue of notifying the community that we are finding elevated levels of lead in some of the homes at the USS Lead site, prior to excavation. I recommended

Ex. 5 - Deliberative Process

A few weeks back Miguel and I worked up a mock website (attached) providing info for residents at the USS Lead site and East Chicago in general. Its basically copied from the Chicago Study website that is currently live on R5 website. It needs updating (current status of IDEM/city efforts to treat) but its a start and provides good info for residents re filters, flushing, etc. I suggest we create something like this for USS Lead Site and East Chicago as there will be great interest and concern once data is released. Press release would be helpful to so we're not stuck responding to misinformation.

Thanks,

Dean

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Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: USS Lead Data Summary

All: here's a quick summary of results for USS Lead sequential sampling. Note that we still have no validated data for Zone 3 properties. New schedule from Superfund has first validated results for Zone 3 coming in on Dec. 9, with additional sets due Dec. 16 and Dec. 23.

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To: Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Bair, Rita
Sent: Thur 12/1/2016 5:51:16 PM
Subject: RE: USS Lead Data Summary

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Sent: Thursday, December 01, 2016 11:24 AM
To: Bair, Rita <bair.rita@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
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Dean

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Dean Maraldo
Water Enforcement & Compliance Assurance Branch
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77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Maraldo, Dean
Sent: Wednesday, November 30, 2016 2:20 PM
To: Bair, Rita; Korleski, Christopher; Henry, Timothy; Poy, Thomas; Deltoral, Miguel; Mendez, Thomas; Donnelly, Peggy; Bosscher, Valerie; Porter, Andrea
Subject: USS Lead Data Summary

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To: Korleski, Christopher[korleski.christopher@epa.gov]; Henry, Timothy[henry.timothy@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Shoven, Heather[shoven.heather@epa.gov]
From: Bair, Rita
Sent: Mon 11/7/2016 9:58:43 PM
Subject: FW: Can someone send me the updated sampling results for ec
East Chicago sequential - master.xlsx

From: Porter, Andrea
Sent: Monday, November 07, 2016 10:14 AM
To: Cassell, Peter <cassell.peter@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>
Subject: RE: Can someone send me the updated sampling results for ec

Hi Pete,

A copy of the Master spreadsheet for East Chicago is attached.

I've also included the link to the East Chicago SharePoint site. If you can't access it by clicking the link, you can ask Tom Mendez to add you to the group.

Thanks,

Andrea Porter

Environmental Engineer

Ground Water & Drinking Water Branch

U.S. EPA, Region 5 (WG-15J)

77 W. Jackson Blvd.

Chicago, IL 60604

Phone: 312-886-4427

Fax: 312-697-2656

From: "Mendez, Thomas" <mendez.thomas@epa.gov>
Date: October 26, 2016 at 1:32:21 PM CDT
To: "Maraldo, Dean" <maraldo.dean@epa.gov>, "Donnelly, Peggy" <donnelly.peggy@epa.gov>
Subject: East Chicago Site

SharePoint Site.

https://usepa.sharepoint.com **Ex. 6 - Personal Privacy**

Upload data/docs to the Documents portion (link on left side)

Thomas Mendez
Enforcement Officer
Water Enforcement and Compliance Assurance

Water Team Lead (Flint)
U.S. EPA Region 5
77 W Jackson Blvd (WC-15J)

Chicago, Illinois 60604

312-353-8242

From: Cassell, Peter
Sent: Monday, November 07, 2016 10:09 AM
To: Donnelly, Peggy <Donnelly.Peggy@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>

Subject: Re: Can someone send me the updated sampling results for ec

I don't have access to that. I can wait the hour :)

thanks!

From: Donnelly, Peggy
Sent: Monday, November 7, 2016 10:08 AM
To: Cassell, Peter
Cc: Bair, Rita; Porter, Andrea; Deltoral, Miguel; Mendez, Thomas
Subject: Re: Can someone send me the updated sampling results for ec

Results are on EC Sharepoint site, "master" spreadsheet. If you need access, you can ask Tom Mendez. Or, I can email you the spreadsheet in about an hour when I'm near a computer.

Sent from my iPhone

> On Nov 7, 2016, at 10:33 AM, Cassell, Peter <cassell.peter@epa.gov> wrote:
>
> I've heard that we have more than two homes back. I'd like to take a look at it.
>
> Thanks.
>
> Pete Cassell
> Press Officer
> U.S. EPA Region 5
> 312-886-6234 (office)
> 312-859-9614 (cell)
> cassell.peter@epa.gov
>
> Sent from my mobile device - please pardon typos.

To: Korleski, Christopher[korleski.christopher@epa.gov]
From: Bair, Rita
Sent: Mon 10/31/2016 9:57:02 PM
Subject: RE: Latest Draft of East Chicago script

Yes

From: Korleski, Christopher
Sent: Monday, October 31, 2016 4:37 PM
To: Bair, Rita <bair.rita@epa.gov>
Subject: RE: Latest Draft of East Chicago script

Hi Rita: Is this the same as the hard copies you left for me? Thanks.

From: Bair, Rita
Sent: Monday, October 31, 2016 3:41 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Cc: Shoven, Heather <shoven.heather@epa.gov>
Subject: Latest Draft of East Chicago script

Attached is the latest draft of the East Chicago Script. Please review and provide any comments and let me know when I can send to IDEM drinking water since I promised them a review of the draft.

To: Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Bair, Rita
Sent: Thur 10/27/2016 8:43:30 PM
Subject: RE: USS Lead: Sequential Sample results

Thanks!

From: Maraldo, Dean
Sent: Thursday, October 27, 2016 3:42 PM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Deltoral, Miguel <deltoral.miguel@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Re: USS Lead: Sequential Sample results

Fyi, note that Superfund's USS Lead website includes the following recommendations regarding lead in drinking water....

https://www.epa.gov/sites/production/files/2016-08/documents/drinkingwatersafetyflyer.pdf

Sent from my iPhone

On Oct 27, 2016, at 10:27 AM, Bair, Rita <bair.rita@epa.gov> wrote:

> We need a planning meeting. I will set one up for tomorrow. Dean and I will also talk briefing this morning, but the East Chicago sampling effort is not a cookie cutter of Flint - different sampling approach and objectives. We have lots of questions. To name a few: Do we call after S1 with prelim data and then again after S2? Do we send 2 letters with S1 final data and then S2 final data? What do we say about the results from the filter samples regarding particulate lead? What is our messaging to the residents? Do we tell them to use filters/flush? Who needs to approve the messaging (i.e. script)?
>
> **From:** Deltoral, Miguel
> **Sent:** Thursday, October 27, 2016 10:14 AM
> **To:** Bair, Rita <bair.rita@epa.gov>
> **Cc:** Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Henry, Timothy

<henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>
Subject: Re: USS Lead: Sequential Sample results

Some considerations to think about:

1) Not all sites have lead lines coming into home, but one with a galvanized service coming in has high lead, so there could be partials. I would like to see more data to make a better informed decision on the notifications.

2) Everyone that is having excavation done is using bottled water or filters. Can we wait for final results as we have done in Flint? This provides more time for discussion with IDEM and the water department so that we avoid mixed messages.

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Oct 27, 2016, at 9:49 AM, Bair, Rita <bair.rita@epa.gov> wrote:

> Just talked to Tim, we discussed the approach of GWDWB sending letters to residents with final data. At this time, we would not call residents. Tim will be talking to Doug this morning. He mentioned putting the responsibility back on Superfund about the delay of getting final data. If residents are calling looking for results, Superfund should respond with when the data will be available. Tim asked that I run this past you all. This all may change again after Tim talks to Doug. Let me know your thoughts.

> **From:** Deltoral, Miguel
> **Sent:** Thursday, October 27, 2016 2:41 AM
> **To:** Bair, Rita <bair.rita@epa.gov>
> **Cc:** Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>;

Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Re: Action Needed: USS Lead: Sequential Sample results

[FLINT]

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Oct 26, 2016, at 4:22 PM, Bair, Rita <bair.rita@epa.gov> wrote:

> Tim and Chris, Can you advise on whether Water Division is taking the lead to provide notification to East Chicago residents by phone calls and/or letters? The email from Chris below appears to only make the commitment of WD for helping with sampling in Phase 2. Dean's message recommends that WD call residents with preliminary results ASAP. Heather and I thought that Superfund had the lead and that Miguel had coordinated with Tim Drexler on this.

From: Maraldo, Dean
Sent: Wednesday, October 26, 2016 12:22 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: USS Lead: Sequential Sample results

Tom/Rita/Tim/Heather: Given the delays with Superfund's lab I would

recommend WD call residents with preliminary data as soon as possible. I know the plan was to wait until final data was in hand but that could take a long time as Superfund's lab is experiencing delays with turning even preliminary results around. Have no idea how long it will take to get final data. Not sure who you have lined up to make calls in GWDWB but it would be good to get the process started asap. We only have preliminary results from two homes so far. I heard that a bunch more might come in Friday. We will keep you posted.

Thanks,

Dean

==========

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ph: (312) 353-2098
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From: Korleski, Christopher
Sent: Monday, October 24, 2016 4:31 PM
To: Ballotti, Doug <ballotti.douglas@epa.gov>
Cc: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Request for Water Team Support in East Chicago

Hey Doug:

We would like to support Superfund on this effort. I'm assuming we would be observing SFD's contractor to ensure sound sampling and analytical practices, as we are currently doing. Is that accurate? Thanks.

From: Ballotti, Doug
Sent: Monday, October 24, 2016 12:41 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
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Chris,

As I indicated this morning, Superfund Division will begin mobilizing for the Zone 2 residential soil cleanup this week in East Chicago. I would like to request Water Team support for the tap water sampling in Zone 2. At this stage, we plan on addressing 11 homes in Zone 2 for the remainder of the construction season. These home have indicated concentrations of lead and/or arsenic above removal action levels. I would also request that members of the Water Team providing onsite support to the USS Lead site inform the EOC of their deployment.

If you have any questions, please let me know.

Thanks. Doug

Douglas Ballotti

Acting Director, Superfund Division

U.S. EPA, Chicago, IL

312-886-4752

To: Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Bair, Rita
Sent: Thur 10/27/2016 2:09:15 PM
Subject: RE: USS Lead: Sequential Sample results

Yes, call me at 11am.

From: Maraldo, Dean
Sent: Thursday, October 27, 2016 9:02 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead: Sequential Sample results

I need to jump on another call then tied up until 11. How about then?

Sent from my iPhone

On Oct 27, 2016, at 8:59 AM, Bair, Rita <bair.rita@epa.gov> wrote:

Running to Flint call. Should we discuss on call or right after?

From: Maraldo, Dean
Sent: Thursday, October 27, 2016 8:58 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead: Sequential Sample results

Are you free for a quick call?

Sent from my iPhone

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[FLINT]

Miguel A. Del Toral

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Dean Maraldo
Water Enforcement & Compliance Assurance Branch
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Douglas Ballotti

Acting Director, Superfund Division

U.S. EPA, Chicago, IL

312-886-4752

To: Maraldo, Dean[Maraldo.Dean@epa.gov]
From: Bair, Rita
Sent: Thur 10/27/2016 1:59:53 PM
Subject: RE: USS Lead: Sequential Sample results

Running to Flint call. Should we discuss on call or right after?

From: Maraldo, Dean
Sent: Thursday, October 27, 2016 8:58 AM
To: Bair, Rita <bair.rita@epa.gov>
Subject: Re: USS Lead: Sequential Sample results

Are you free for a quick call?

Sent from my iPhone

On Oct 27, 2016, at 8:49 AM, Bair, Rita <bair.rita@epa.gov> wrote:

Just talked to Tim, we discussed the approach of GWDWB sending letters to residents with final data. At this time, we would not call residents. Tim will be talking to Doug this morning. He mentioned putting the responsibility back on Superfund about the delay of getting final data. If residents are calling looking for results, Superfund should respond with when the data will be available. Tim asked that I run this past you all. This all may change again after Tim talks to Doug. Let me know your thoughts.

From: Deltoral, Miguel
Sent: Thursday, October 27, 2016 2:41 AM
To: Bair, Rita <bair.rita@epa.gov>
Cc: Henry, Timothy <henry.timothy@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Maraldo, Dean <Maraldo.Dean@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>
Subject: Re: Action Needed: USS Lead: Sequential Sample results

[FLINT]

Miguel A. Del Toral

Regulations Manager, GWDWB

U.S. EPA Region 5 (WG-15J)

77 West Jackson Blvd

Chicago, IL 60604

W: (312) 886-5253

On Oct 26, 2016, at 4:22 PM, Bair, Rita <bair.rita@epa.gov> wrote:

Tim and Chris, Can you advise on whether Water Division is taking the lead to provide notification to East Chicago residents by phone calls and/or letters? The email from Chris below appears to only make the commitment of WD for helping with sampling in Phase 2. Dean's message recommends that WD call residents with preliminary results ASAP. Heather and I thought that Superfund had the lead and that Miguel had coordinated with Tim Drexler on this.

From: Maraldo, Dean
Sent: Wednesday, October 26, 2016 12:22 PM
To: Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>
Cc: Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>
Subject: USS Lead: Sequential Sample results

Tom/Rita/Tim/Heather: Given the delays with Superfund's lab I would recommend WD call residents with preliminary data as soon as possible. I know the plan was to wait until final data was in hand but that could take a long time as Superfund's lab is experiencing delays with turning even preliminary results around. Have no idea how long it will take to get final data. Not sure who you have lined up to make calls in GWDWB but it would be good to get the process started asap. We only have preliminary results from two homes so far. I heard that a bunch more might come in Friday. We will keep you posted.

Thanks,

Dean

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Dean Maraldo
Water Enforcement & Compliance Assurance Branch
U.S. EPA - Region 5
77 West Jackson Blvd. (WC-15J)
Chicago, Illinois 60604
ph: (312) 353-2098
fax: (312) 385-5394
e-mail: maraldo.dean@epa.gov
http://www.epa.gov/enforcement/

From: Korleski, Christopher
Sent: Monday, October 24, 2016 4:31 PM
To: Ballotti, Doug <ballotti.douglas@epa.gov>
Cc: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas <alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: RE: Request for Water Team Support in East Chicago

Hey Doug:

We would like to support Superfund on this effort. I'm assuming we would be observing SFD's contractor to ensure sound sampling and analytical practices, as we are currently doing. Is that accurate? Thanks.

From: Ballotti, Doug
Sent: Monday, October 24, 2016 12:41 PM
To: Korleski, Christopher <korleski.christopher@epa.gov>
Cc: Borries, Samuel <borries.samuel@epa.gov>; El-Zein, Jason <el-zein.jason@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Alcamo, Thomas

<alcamo.thomas@epa.gov>; Drexler, Timothy <drexler.timothy@epa.gov>; Hassan, Jacob <hassan.jacob@epa.gov>; Henry, Timothy <henry.timothy@epa.gov>
Subject: Request for Water Team Support in East Chicago

Chris,

As I indicated this morning, Superfund Division will begin mobilizing for the Zone 2 residential soil cleanup this week in East Chicago. I would like to request Water Team support for the tap water sampling in Zone 2. At this stage, we plan on addressing 11 homes in Zone 2 for the remainder of the construction season. These home have indicated concentrations of lead and/or arsenic above removal action levels. I would also request that members of the Water Team providing onsite support to the USS Lead site inform the EOC of their deployment.

If you have any questions, please let me know.

Thanks. Doug

Douglas Ballotti

Acting Director, Superfund Division

U.S. EPA, Chicago, IL

312-886-4752

To: Porter, Andrea[porter.andrea@epa.gov]
From: Bair, Rita
Sent: Thur 10/27/2016 1:58:41 PM
Subject: RE: Action Needed: USS Lead: Sequential Sample results

From: Maraldo, Dean
Sent: Thursday, October 27, 2016 8:39 AM
To: Henry, Timothy <henry.timothy@epa.gov>
Cc: Bair, Rita <bair.rita@epa.gov>; Donnelly, Peggy <Donnelly.Peggy@epa.gov>; Mendez, Thomas <mendez.thomas@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>; Shoven, Heather <shoven.heather@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Korleski, Christopher <korleski.christopher@epa.gov>
Subject: Re: Action Needed: USS Lead: Sequential Sample results

All: I'm booked with WECAB work today and out on travel until Monday so here's my quick advice on a plan. Results will be rolling in soon and we should plan to receive a couple sets of results each day. Although we may receive a slug of data from the lab soon as they work out there backlog issues. Following Flint workflow model, I recommend pulling in the experienced callers to manage East Chicago calls. They are doing a great job.

We created a USS Lead Sharepoint site and uploaded a master spreadsheet, which we can populate with data as it comes in. We'll send link for access. Superfund is working on Scribe database for USS Lead, but not ready yet.

I'm not sure if there is a script yet for calls but I'm sure that would not take much time. Miguel may already have it worked out.

Last, I recommend calling residents with preliminary data since the Superfund lab is backed up with results. Only two results so far so it would be ideal if callers could reach out to these folks today or tomorrow, pending completion of script. I know the original plan was to call back with final validated data but I think that will take too long. My opinion.

Thanks,

Dean

Sent from my iPhone

On Oct 27, 2016, at 7:41 AM, Henry, Timothy <henry.timothy@epa.gov> wrote:

Water did commit to contacting residents with the results and explanation. How and when may still be under consideration. Please work with Dean, Peg and Miguel to develop aa plan ASAP

Tim Henry

Deputy Director, Water Division

US EPA Region V

312-886-6107 (office)

312-296-0690 (cell)

Sent from my iPhone

On Oct 26, 2016, at 15:22, Bair, Rita <bair.rita@epa.gov> wrote:

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