

Message

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**From:** Jones, Enesta [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=65B8E6C6E5CA4A7A9AE85D98A4C8EEDB-EJONES02]  
**Sent:** 6/13/2018 7:39:52 PM  
**To:** Sarah Craig; [REDACTED] **Ex. 6**  
**CC:** Press [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=b293283291dc44e0b5d1c36be9281d8a-Press]  
**Subject:** Re: Inquiry into EPA's assessment of Arsenic Health Risks

Sarah,

I'm checking on your additional follow-up.

In the interim:

Using this

link: [https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&PortalPath=/shared/SFDW/\\_portal/Public&Page=Violation](https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&PortalPath=/shared/SFDW/_portal/Public&Page=Violation)

The below shot is from SDWIS. So this would apply:

Using the SDWIS link, select NPM Candidate = "Y" under systems and violations, Select Rule = Arsenic, Is Health Based = "Yes", and run the report. Download the results, filter out violations that are returned to compliance, non-community water systems, inactive systems, etc., as desired. Use spreadsheet or databased functions to select for unique systems.

[https://ofmpub.epa.gov/apex/sfdw/f?p=108:9:::NO::P9\\_REPORT:VIO](https://ofmpub.epa.gov/apex/sfdw/f?p=108:9:::NO::P9_REPORT:VIO)

On Jun 13, 2018, at 3:21 PM, Sarah Craig <[REDACTED] **Ex. 6**> wrote:

Hi Enesta,

I'm not able to make the selections that you show in your screenshot because the screen shot you gave me looks completely different from my screen (below).

I'm trying to get the total number of community water systems out of compliance with arsenic in the US as well as California. Could you let me know if the parameters I selected gives me the accurate number? I will then go through and filter out duplicates - but want to make sure that the EPA fact checks my data download so I'm not reporting inaccurate numbers.

Also - I have an additional follow up. When the EPA first issued a National Interim Primary Drinking Water Regulation for arsenic for 50 ppb - did they require states to mandate testing of arsenic in community water systems? If so, what year did this testing begin? And how often was testing required? And when did California begin with this testing?

Thank you for your help!

Best  
Sarah

On Wed, Jun 13, 2018 at 12:02 PM, Jones, Enesta <[Jones.Enesta@epa.gov](mailto:Jones.Enesta@epa.gov)> wrote:

Below is a screen shot of how to select "CA".

[https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&PortalPath=/shared/SFDW/\\_portal/Public&Page=Violation](https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&PortalPath=/shared/SFDW/_portal/Public&Page=Violation)

Using the SDWIS link, select NPM Candidate = "Y" under systems and violations, Select Rule = Arsenic, Is Health Based = "Yes", and run the report. Download the results, filter out violations that are returned to compliance, non-community water systems, inactive systems, etc., as desired. Use spreadsheet or databased functions to select for unique systems.

[https://ofmpub.epa.gov/apex/sfdw/f?p=108:9:::NO::P9\\_REPORT:VIO](https://ofmpub.epa.gov/apex/sfdw/f?p=108:9:::NO::P9_REPORT:VIO)

**Report Filters**

\* Submission Year Quarter: 2017Q3  
 EPA Region: --Select Value--  
 Primacy Agency Code: --Select Value--  
 Primacy Type: --Select Value--  
 Owner Type: --Select Value--  
 PWS Activity: --Select Value--  
 Ground Water/Surface Water: --Select Value--  
 Population Category 5: --Select Value--  
 Population Category 1.1: --Select Value--  
 School: --Select Value--

**GPRA Violation Summary Report**

Violation Category	MCL			MON			MR	Other			RPT	
	Violations	Systems in Violation	Population in Violation	Violations	Systems in Violation	Population in Violation		Violations	Systems in Violation	Population in Violation		
Rule Code												
Arsenic	1,196	421	496,513				1,196					
Consumer Confidence Rule									9,157	5,536	18,432,405	
Filter Backwash Rule							1	1	14,720			
Ground Water Rule							7,262	4,886	7,595,935	252	341	383,953
Intermittent	286	95	118,766				6,264	725	7,445,700			

On Jun 13, 2018, at 1:49 PM, Sarah Craig [Ex. 6](#) wrote:

Thank you for this.

The link you sent for summary data takes me to a page of a brownfield property progress profile for a paper company. Is this the correct site? I don't see a drop down menu where I can select for CA and arsenic.

Also - when running a query - I'm confused by those parameters you sent. When I click on the link, I go to advanced search. Then, under "select a report," I click "violations." Then, I select all EPA regions. Then, under How would you like to filter? I select Contaminant. Then under Contaminant, I select arsenic. Then, under rule, I select arsenic. Then under violation I select Maximum Contaminant Violation Average. Then, under NPM candidate, I select Y. Then under Violation category, I select Maximum Contaminant Level Violation. Then under Compliance Status, I select Known (not sure what open means?). Then under PWS type, I select community water system. Then under Activity Status, I select Active.

Are these parameters correct to get the total number of community water systems in the US who currently have arsenic levels above the maximum contaminant level set by the EPA? Do I need to select any additional categories or change the categories I have?

The total number I arrive at is 821 community water systems. But I see that multiple water systems are being counted - do you know how to filter it so that I'm not counting duplicate cases?

Thank you!  
 Sarah

On Wed, Jun 13, 2018 at 6:23 AM, Jones, Enesta <[Jones.Enesta@epa.gov](mailto:Jones.Enesta@epa.gov)> wrote:

**On background:**

Please filter for Active Systems in the query. It's also helpful to review the data in Excel rather than SDWIS, by downloading the report. For any specific questions on each system, we recommend contacting the state.

Also, if it's helpful, for summary data, you may want to use the following link: <https://obipublic11.epa.gov/analytics/saw.dll?PortalPages>. Use the drop down arrows to select "CA" then click on arsenic (Note it takes a while to load).

This report is derived from SDWIS but includes predetermined parameters (below) and is from the last full quarter in 2017. If you want the 2018 data, you can use the parameters below in SDWIS to create your own custom report.

<b>and</b>	SUBMISSIONYEARQUARTER is equal to <b>2017Q3</b>
<b>and</b>	PRIMACY_AGENCY_CODE is equal to <b>CA</b>
<b>and</b>	RULE_CODE is not equal to / is not in <b>500</b>
<b>and</b>	IS_HEALTH_BASED_IND is not null
<b>and</b>	NPM_CANDIDATE is equal to / is in <b>Y</b>
<b>and</b>	RULE_CODE_NAME is equal to / is in <b>Arsenic</b>

**As mentioned in our previous response:**

The Safe Drinking Water Act (SDWA) requires EPA to review each national primary drinking water regulation at least once every six years and revise them, if appropriate. As part of the "Six-Year Review," EPA evaluates any newly available data, information and technologies to determine if any regulatory revisions are needed. Revisions must maintain or strengthen public health protection. For more: <https://www.epa.gov/dwsixyearreview>. EPA did not identify the NPDWR for arsenic as a candidate for revision.

EPA is currently developing an updated IRIS assessment of inorganic arsenic. Information, including materials, milestones, and relevant public documents for this assessment may be accessed on the IRIS arsenic webpage [here](#). As new materials and public documents become available these will be posted on the IRIS arsenic webpage.

The completion of this assessment will provide critical information to support the determination of a revision to the arsenic NPDWR.

We do not have anything to add to this response.

**From:** Sarah Craig Ex. 6  
**Date:** June 12, 2018 at 7:16:15 PM EDT  
**To:** "Jones, Enesta" <[Jones.Enesta@epa.gov](mailto:Jones.Enesta@epa.gov)>  
**Cc:** Press <[Press@epa.gov](mailto:Press@epa.gov)>  
**Subject:** Re: Inquiry into EPA's assessment of Arsenic Health Risks

Thank you for your organized and detailed notes, Enesta. Much appreciated.

I have a few follow up questions.

--I'm having trouble using the EPA's SDWIS Federal Reports Search to get the final number of how many community water systems are out of compliance. Can you walk me through what search criteria I need to enter in order to get the total number of community water systems that are currently out of compliance with the EPA's order in the United States? How would I find this just for California? When I ran the search (I selected violations, then all regions, then arsenic, then max contaminant level average, then pws type as community water system) but I ended up with 15,778 community water system violations (and a lot of these water systems were listed many times and some of them were deemed to be in compliance already.) According to [this EPA document in 2002](#) - it says that of the 74,000 systems subject to this new MCL, EPA estimates that 3,000 CWSs and 1,100 NTNCWSs (non community water system) will need to install treatment for compliance, so I'm assuming that the numbers should be less than that today.

--Why did the EPA not identify the NPDWR for arsenic as a candidate for revision, if the risks of getting cancer were found to be 17 times higher?

--Also - when will the current assessment of arsenic be finished?

--Lastly, who would be the best person to speak to at the EPA about this, particularly the current risk assessment for arsenic, for my story?

Thanks again for your help,

Best

Sarah

On Fri, Jun 8, 2018 at 11:53 AM, Jones, Enesta <[Jones.Enesta@epa.gov](mailto:Jones.Enesta@epa.gov)> wrote:

Sarah,

**On background:**

**Q1. What is the scale of the problem of having arsenic in drinking water systems in the US? Do you know how many and the locations of community water systems that are out of compliance? What state in the US is the worse off in terms of arsenic levels in drinking water? What area/town in the US is the worse off in terms of arsenic levels in drinking water?**

A1. For EPA's data that includes information on arsenic, visit: <https://www.epa.gov/ground-water-and-drinking-water/safe-drinking-water-information-system-sdwis-federal-reporting>

**Q2. When did the EPA pass legislation the regulates the amount of arsenic in drinking water at 50 ppb? What was the legislation called? --When did the EPA change this to 10 ppb? Why did they decide to change this? --What happened after the EPA passed this law? How did they order states to come into compliance?**

A2. In 1942, the U.S. Public Health Service first established an arsenic drinking water standard for interstate water carriers at 0.05 mg arsenic per liter (50 ppb). The Safe Drinking Water Act passed by Congress in 1974 amended the Public Health Service Act and specified that EPA set drinking water standards. On December 24, 1975, EPA issued a National Interim Primary

Drinking Water Regulation for arsenic of 50 ppb. Congress amended the Safe Drinking Water Act in 1996, and included requirements for EPA to issue a revised drinking water standard for Arsenic. In 2001, EPA adopted a lower standard for of 10 ppb for arsenic in drinking water. This protects consumers from the effects of long-term, chronic exposure to arsenic. PWSs had to comply with the lower standard by January 23, 2006.

**Q3. I'm aware that in 2010 the EPA conducted an assessment to revise the health risks of drinking water with arsenic in it. Could you send me the 2010 assessment from the EPA? I can't locate it online but this report mentions it. What is the revised risk of getting cancer from drinking water with arsenic in it at levels of 10ppb? (The report I linked says it's 1 in 136, more than 17 times higher than current assumptions.) How did you determine this revised risk?**

A3. The archived 2010 draft assessment (cancer) can be found on the arsenic webpage here: [https://cfpub.epa.gov/ncea/iris\\_drafts/recordisplay.cfm?deid=219111](https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=219111)

In our 2010 draft assessment, the lifetime incidence risk is 7.3E-03, which is the same as the 1 in 136 figure that is in the Environmental Integrity Project report. The lifetime incidence risk at 10ppb in drinking water is based on female cancer mortality data (bladder and lung cancers) from studies conducted in Taiwan. The methodology for determining cancer risk in the 2010 draft assessment is described in section 5.3.7, and the results are presented in section 5.3.8.

**Q4. Is the EPA doing anything about these revised risks? Are they working to lower the legal limit? If so, how? If not, why not? Has the EPA directed this assessment to each state? If so, what is California doing about it? How does the process of revising the level work?**

A4. The Safe Drinking Water Act (SDWA) requires EPA to review each national primary drinking water regulation at least once every six years and revise them, if appropriate. As part of the "Six-Year Review," EPA evaluates any newly available data, information and technologies to determine if any regulatory revisions are needed. Revisions must maintain or strengthen public health protection. For more information: <https://www.epa.gov/dwsixyearreview>

EPA did not identify the NPDWR for arsenic as a candidate for revision.

EPA is currently developing an updated IRIS assessment of inorganic arsenic. Information, including materials, milestones, and relevant public documents for this assessment may be accessed on the IRIS arsenic webpage [here](#). As new materials and public documents become available these will be posted on the IRIS arsenic webpage.

**Q5. Has there been any documented cases of communities exposed to arsenic over a long period of time and having clusters of cancer?**

A5. Please reach out to the Department of Health and Human Services.

**Q6. When did Congress approved \$1.5 billion to California over a decade to upgrade its water systems through a program called the Safe Drinking Water State Revolving Fund? When did they approve this fund for the rest of the US? And how much were these funds?**

A6. For information on EPA's Drinking Water SRF as well as the allocations provided to each state: <https://www.epa.gov/drinkingwatersrf>

**What personal sized water filtration systems are on the market and work to remove arsenic from water?**

There are a number of point of entry (whole home) and point of use treatment devices available on the market to remove arsenic from water. Water chemistry is important to know when deciding which option is best.

**Does water with arsenic in it taste sweet?**

No, certainly not at levels naturally in water.

On Jun 6, 2018, at 6:53 PM, Sarah Craig Ex. 6 wrote:

Thank you Enesta! This background is helpful.

I looked through those websites you sent and they don't mention the 2010 EPA assessment. Could you explain what happened in 2010 - and do you have this assessment you could send me?

I think the best way to answer my remaining questions is to speak to an expert at the EPA. Who would be best to speak with and could you help me arrange this?

And in the meantime, would you be able to help answer my remaining questions I spelled out?

Thanks again for your help, it's much appreciated.

Best

Sarah

On Wed, Jun 6, 2018 at 3:01 PM, Jones, Enesta <[Jones.Enesta@epa.gov](mailto:Jones.Enesta@epa.gov)> wrote:

Sarah,

**On background:** The Maximum Contaminant Level Goal (MCLG) is the maximum level of a contaminant in drinking water at which no known or anticipated adverse effect on the health of persons would occur, and which allows an adequate margin of safety. MCLGs are not enforceable. For known cancer-causing contaminants the MCLG is set at zero because any chemical exposure could present a cancer risk.

In the 1996 amendments to the Safe Drinking Water Act (SDWA), Congress directed the Environmental Protection Agency (EPA) to propose a new arsenic regulation. Prior to 2001, the MCL for arsenic was 50 µg/L (or 50 ppb). In January 2001, EPA revised the MCL to 10 µg/L (10 ppb). EPA believes that the current MCL maximizes health risk reduction at a cost justified by the benefits. For more information: <https://www.epa.gov/dwreginfo/chemical-contaminant-rules>

EPA is currently developing an updated IRIS assessment of inorganic arsenic. Information, including materials, milestones, and relevant public documents for this assessment can be accessed on the IRIS arsenic webpage [here](#). As new materials and public documents become available these will be posted on the IRIS arsenic webpage.

On Jun 5, 2018, at 10:56 PM, Sarah Craig < **Ex. 6** > wrote:

Dear Press at the EPA,

My name is Sarah Craig and I'm a journalist based in Oakland, CA. I'm working on a radio documentary about arsenic in the drinking water of Alpaugh and Allensworth in Tulare County in California's Central Valley. The story will air on KALW Public Radio in San Francisco, CA.

I have a few questions for the EPA about how they set health risks for arsenic and how they revised these risks back in 2010. I'm also interested in learning about what the EPA is doing about the revised 2010 risks and if they are working to lower the legal limit.

Could you connect me with the best person to speak with about this? My number is

**Ex. 6**

Thank you!

Best

Sarah Craig

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[www.sarahcraigmedia.com](http://www.sarahcraigmedia.com)

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