Transcript for Environmental Compliance History Online (ECHO) Webinar: Introduction to ECHO – How Do I Search For...?

# June 12, 2018

Good afternoon and welcome to today's presentation. Before we get started let's review a few housekeeping items. Audio is available for this presentation, your computers mic and speakers or by telephone. Your call-in number as well as your access code is in the control panel box on the right-hand side of your screen. All attendees have been muted to minimize background noise; however, if you have a question during the presentation please type it into the questions box on the upper right-hand side of your screen. We will have a dedicated time to answer questions at the end of the presentation. Lastly if you are experiencing any technical difficulties, please contact us and we will try to troubleshoot the issue. Next slide please.

And we would like to reiterate that you can submit your questions in the questions box in your control panel, but we did want to mention please do make sure the context of your question is clear as we will be answering questions that cover a range of topics at the appropriate time so feel free to add in specific references to slides or examples and just make clear your question is as clear as possible. And in order to make this webinar useful for everyone, we will not be addressing site specific or individual problems during this session. However, you are welcome to contact us through ECHOs Contact Us page and we'd be happy to help you as best as we can with those inquires. And now I will turn it over to Rebecca Kane with EPA to begin the presentation. Thank you for joining us today.

Hi everyone. Welcome again to the Introduction to ECHOs series of webinars which provides basic demonstrations of searching and navigating the ECHO website. We have quarterly webinars about ECHO and if you are interested you can sign up for a listserv if you would like to receive reminders by email. Thank you for joining us today.

And today we are going to demonstrate a collection of examples from the ECHO facilities search. These examples address common questions from new and experienced users. We'll have short step by step demonstrations that are based on actual questions we've received from ECHO users and also from attendees of webinars like this. As we've just noted, please feel free to submit any additional questions you have into the questions box and we will have time at the end for a question and answer session.

Before jumping into these demonstrations, I have a brief slide show to introduce the ECHO website to newer users. Ok, so ECHO, the Enforcement and Compliance History Online website at echo.epa.gov doesn't receive any data and it doesn't present all of the agencies data but it does focus on regulatory compliance and enforcement data that is related to some of the major environmental statutory programs. And the best part of ECHO I think is that it integrates this data together to single reports.

So, the core of ECHO is basic data about compliance information about many regulated facilities. ECHO has basic information on how the facilities are regulated, when and how they are inspected and by whom. Whether violations of environmental regulations were found, whether enforcement actions were taken. And we also have some additional data like pollutant releases for context which you will

see later in the demonstrations. In addition to that core of facility data we also have dashboards that have some overall enforcement compliance status trends and we have large datasets for downloading of data if the data on the displays does not meet your needs.

So, in general the ECHO website displays a three-year compliance history, a five-year inspection and enforcement history and then as I mentioned there is downloads that have more data if that is not a long enough history for your needs.

ECHO includes EPA and state, local, and tribal enforcement agency data that comes into EPA's systems primarily for Clean Air Act stationary sources of emissions, Clean Water Act permitted dischargers, Resource Conservation and Recovery Act hazardous waste handlers, and Safe Drinking Water Act public water systems.

ECHO also has EPA data for other statutory programs – in particular a lot of data about EPA enforcement actions and some data about inspections under those statutes. As I mentioned, ECHO doesn't receive any data itself. The ECHO system extracts data from the other program systems of record and EPA and then integrates it typically on a weekly basis from some of the systems that are listed on this slide. It's not very important that you know the names of all these systems but that ECHO is not receiving this data but it is using the data that comes into other systems. And one important thing from this slide is about the data page in ECHO that I will point out in a minute lists all the sources of ECHO data and when the last time they were refreshed.

The core of ECHO is the facility searches which is what we will focus on today and then we also have a search interface that focuses just on EPA enforcement cases. We have some maps and dashboards with overall trends, and then we also have something called the Clean Water Act Pollutant Loading Tool which gets into very detailed information about the amount and types of pollutants that are released.

Okay so we will jump into the demonstration. This is just a reminder to enter questions as you have them so that you don't forget the context and then we will answer them at the end of the demonstration.

I'm on the homepage of ECHO, at echo.epa.gov. Before I begin the demonstrations I just wanted to point out a few links. I mentioned that there is an ECHO Listserv, it's at the bottom left of the homepage, so it's a little list and says join the ECHO Listserv. If you do that then you will get emails from us once in a while primarily announcing these webinars and the dates and times and how to register. And occasionally there will be emails about new features. It's not a huge volume of emails. And then we also have under help, there's a yellow help button toward the bottom of the page where we have ECHO tutorials which are short videos that introduction some ECHO concepts and talk about different features. If you forget anything I talked about today, those are a good refresher or if you have new people that you work with who want to learn about ECHO that is a quick way to do that. And then a lot of the webinars we do are recorded and posted on this ECHO training page. So that again is under the help, and ECHO training and ECHO tutorials, those are good links to remember.

And then under resources next to Help, we have the About the Data page and that lists all the ECHO data sources and when they were last refreshed. One last thing, we mentioned earlier the Contact Us link and it's at the top right of almost every page, if you have questions that aren't answered today or when you are using the site you come up with new questions that is always available to you.

Okay, so now I'll just jump into the demonstrations, again we will answer questions that we get frequently from users and from these webinars.

## So the first question is, "How do I search for a specific facility?"

The easiest way to do that if you have one particular facility in mind, is that you click Explore Facilities on the left side of the page and there's a little search called Single Facilities Search. You can put in the name or if you happen to know the EPA ID number or the Permit ID Number, you can put that there and click search. Now this is searching on the data under the major statutory programs that I mentioned earlier in the presentation and this is a reminder that the core of ECHO data is right above that little box. I'm just going to go back to the Search community for a moment. So, when you come to the ECHO homepage this is just if you are interested this is just seeing what is around you in a general location; your zip code, city or state. But again, if you just want a single facility, you can come here, or you can also use the Facility Search forms.

We have Facility Search forms which are right above the Single Facility search. If you use those, it's a form you might be used to seeing on any data system where you have a whole bunch of criteria you can choose from to find facilities of interest. Then we also have the ability to search for facilities by starting with a map. So, you click on create maps on the right, you click on one of these map facility options and you will start with the United States map and then you can drill down into facilities or areas of interest. So, you are always going to end up with the same facility search results whether you start from zip code search, single facilities search, a search form, or a map. It just depends on what your interest is and how you like drilling down into data. I'm going to do a single facility search from a form because that is generally how I work. You can put it in here or click one of these links, we have the air stationary source data, the water discharge data, hazardous waste handlers, and drinking water public water systems.

If you want to focus on a particular area, if you are not sure or just want to get a general look then All Data combines information from these four areas. So, I'll click All Data, and this is the full Facility Search form. So, if you Collapse All you can see the different categories of things you can search for, different ways to search for facilities. In this case we were just interested in searching for a particular facility. When you come to the form, the first thing people see is Geographic Location and sometimes don't realize you can search for particular facility. So, you can either collapse this or collapse this section by clicking on it or you can scroll down the page to Facility Characteristics and that's where you can type in a facility name or a Facility ID number if you know it. So just as an example for Facility Name I am going to type in Ray Operations, again this is just an example, and search. And this what we call our Facility Search Results page. It has a map, corresponding data tables, some summary statistics, and some ways to filter on your results. Again, no matter which of those search points you start with, whether it is just a geographic search, the single facility search, or starting with a map or starting with a form, you end up here. It's just different ways to look up the data. So that was the results for that one facility we searched for.

We get a question a lot, like people do that and they don't find the facility that they want, so the question is, *"What if I cannot find a facility by name?"* 

The best thing to do is go to the search form, if you do nothing else, get rid of this default search criteria right here that is Active/Operating Yes. The Facility Search form is defaulting to searching for facilities that our data systems thinks are active. And that is just to limit the results to facilities that are most

likely to be of interest and avoid overwhelming you a ton of facilities that are closed or really no longer doing anything. So, if you get rid of that, make sure that you are searching all the facilities in the data systems. Sometimes too, facilities will go by different names or they might be spelled differently than you think. So, you might want to down here when typing in the name, just truncate the name to the first 5 or 6 letters. If the facility has multiple words in the names, try searching by just one word. If you are still having a hard time finding it, you might try searching by zip code to see if the facility you are interested in comes up in the results. Those are just some different tips to make sure you do the broadest search for the particular facility name you are interested in.

### "How do I search for facilities around a specific geographic location?"

So just for example I am going to search for hazardous waste facilities near Atlanta, Georgia. If you click on Choose a Search Type here, these are the same broad facility search choices that I pointed out on the home page under Explore Facilities. So, the different programs that you can narrow your search down to; I'm just going to click Hazardous Waste as an example. Under Geographic Location, if you click View More, you will end up with a few more options that you didn't see initially and that tends to confuse people because we tried to limit the forms to the extent we could to the search criteria that are generally of most interest to people but if you are looking for something you don't see, you might want to click this View More button and then you will get a few more options for ways you can search.

So, in this case, I'm trying to find facilities around a specific location.

"I'm looking for hazardous waste facilities which is facilities regulated under the Research Conservation and Recovery Act Subtitle C Hazardous Waste Program which handles solid waste materials known to be hazardous such as they are dangerous or capable of having a harmful effect on the environment".

A hazardous waste handler may generate, transport, treat, recycle, store or dispose of hazardous materials. So, I'm going to search for a facility latitude and longitude. If you want to do a radius around a specific location and you don't know what the latitude and longitude are, you can look it up with this little link or you can always Use My Location if you allow the site to use your location, like the GPS on your phone, and just do a radius around that. So, the default is looking for these hazardous waste facilities that I described located within 1 mile of this location I typed in. I'm going to change it to 5 miles and run the search.

Ok while we are looking at a map I will mention of course people want to know, "What do these symbols on the map represent?"

These little map pins or flags, however you want to describe them, actually indicate four pieces of summary information related to compliance and enforcement data. It's making use of the striped color on the top, the body color is applicable, there's some numbers in the middle, and the size might matter. So, you're not going to remember that if you don't use the site a lot; on the top left of the map is a little button that says Map Legend. You click that and it brings down the legend that describes what these things mean. You can see it with the map so you can compare; and you can close it up.

*"If you want to modify your initial search criteria to further focus on a smaller area, you can use the Zoom To feature right above the map."* 

There's other ways you can filter your search also on the left side of the page but for now I'm going to zoom to a particular zip code. This is North Decatur, Georgia, just as an example. There's this check box right next to the Zoom To option that is Sync Map and Table. Because that is checked and that is checked by default, when you change the map by zooming and whether it's with the buttons or the Zoom To option, the data table below is going to change with it. So the data table below the map shows you the facilities that are also shown on the map.

If you are zooming and panning on the map and it's making you crazy because the tables change when you do that, you can always uncheck that box and get your map set how you like and then check it again. Okay, so we are going to move onto the next comment question.

### "Where are the operating hazardous waste treatment storage and disposal facilities in my state?"

Believe it or not, it's a common question. When you go back to a search form from the results it's a good idea to clear your search criteria that you had already selected by using this little X on the top right of the screen next to Search Criteria Selected. If you click that it returns the search form to the defaults so that you're not accidently searching by something that you didn't intend to. So, I'm still on this hazardous waste search. I'm just going to search Maryland because that's where I live. I'm going to collapse these sections then go down to Facilities Characteristics. This is where we were earlier when we did a name search. There's all kinds of ways you can search for types of facilities. One way is by the type of facility. In this case for hazardous waste facilities, one of the types is a treatment storage and disposal facility. I am just going to do that search. And this is just an example of the different ways you can filter your search just based on what you might be interested in, you or the people you work with or the people you talk to. There's just lots of different ways to search for facilities and that is one example.

# "How would I use ECHO to determine the facilities in my state that have been inspected recently by my State Environmental Agency?"

I clear out my selections again and I'm just going to the All Data search so I'm doing the broadest search and I'm going to remove this Active Operating restriction, so I am searching for all facilities, I don't care if they are known to be active or operating. To narrow this down I am going to use Virginia since it is near where we are. And you scroll down, again you can Collapse All or can scroll down to section Enforcement and Compliance. This lets you search for facilities on some different enforcement and compliance related characteristics like the time since it was last inspected by an Environmental Agency.

For this example, again we are searching for facilities in a state that has been inspected recently, I am going to click Within so the time for the last inspection was within 1 year by State. You don't have to restrict it to state if you don't care who inspected, you can leave it Any and it will look for any inspection by EPA or State, but in this case I am going to change it to State as an example. I have been searching for my Results View with an Interactive Map so that gets you the map and data table. If you find the map to be a distraction or just want to focus on the Data Table you can pick that option too. That is actually the one that I usually use. So, we are going to search for Virginia facilities that were inspected in the last year by the State agency. Wait for it to load. Here we are on the results page without the map if you want. You can also hide the search summary if that's clutter to you and you really just want to focus on this data table. And if you hide that, you get more columns to view or if you want it back, you just put it back.

The next thing I wanted to show an example is that after you get your search results on any search that you do you have this option on the top left in this purple bar to Customize Columns. That is where we have these default columns of data; the name, the address, a few columns related to enforcement and compliance. If that's not what you are interested in or if you are interested in adding more different data you can click Customize Columns and see all the things we have to offer. In this case because I did an inspection search, I'm just going to click on the Date of Last Inspection. I already know I am in Virginia so maybe I'll get rid of that column. You can add or remove anything you want. Update the columns, and this is taking a little bit of time because I've got a thousand facilities. But once that loads, then you can also sort on any of these columns. So, if I want to know the ones that were inspected the longest ago or the most recent, I can click that and it will sort the columns for me. And then once you have the data the way you like if you want to download it to analyze later you can do that. We have a couple download data options up here next to Customize Columns where you will download pretty much the exact columns you see on the screen. I sorted this ascending, I just clicked it again and then it will flip the order of the columns. So now I have the facilities that were most recently inspected. So like the State went out to this place only a few days ago and already got the data in the system. So that's pretty cool. That was it for that search.

### "How do I learn more information about a facility that appears in the facilities search results?"

So, if you are doing some research and you get to this page and you know it's great this facility just got inspected but what was the inspection about, what statute was it under, you can go to what we call the Detail Facility Report to some more of that detailed kind of data. You can either click a facility name or you can click this little "C" icon. If you hover over these little icons under Reports you can see the name of the facility which may not help you right away but once you get used to using the site they will make a little more sense. This Reports column just tells you what kind of other more detailed reports ECHO has related to this particular facility on the top right of the screen. If you click Reports Legend the page will open up to a little table that gives you a little more description of what these different reports are. So that "C" I was pointing to is a Detailed Facility Report. That's the first report you would want to go to if you are looking for more information about a particular facility. I should note too if you click on the line of a facility, we have this little facility summary panel that will open up and give you some very, very basic information about the facility but you still want to go to the Detailed Facility Report to get the details. And if that Reports Legend really not enough to tell you what's in the reports and you want to learn more about what these reports are used for; we did have a webinar, our last webinar was specifically about the different kind of reports that ECHO has. The recording of that webinar is back on the training page I pointed out so if you have time and interest you can watch that webinar and learn what these different reports offer. I would just point out these icons are used across the sites, sometimes these reports link to each other so once you get familiar with these in the site that is common across the whole site, those icons. I am going to do another example search.

### "How to search on a partial permit number?"

So, in this example, clear out my search again. I am just going to use Water as an example because the Clean Water Act Discharge is often where people want to do this. If you go down to the Facility Characteristics section, right under where we search for Facility Name there is an option for Facility ID Number. You can search for a partial ID Number with at least 2 characters, you just type it in here as your search term. And the reason I am doing Water is because this is particularly useful to search for

facilities covered under a general discharge permit because the permit numbers often have a standard naming convention.

For example, because again this is where I am located, I am going to do a DC number. So, this will give me all the facilities covered under a general permit for construction related discharge in Washington DC under EPA's 2017 Construction General Permit. Some of you probably have no idea what I am talking about. If you are searching around the EPA website, you come across the page about water discharges, it will talk about different general permits, it is just a way to permit a lot of facilities at once if they basically have the same type of operation and they are going to have the same kind of limits of what they can discharge. So, I am just interested in all the facilities that start with this Permit ID Number. I can do a Data Table or a Map, maybe I'll just do the map. This also works for Hazardous Waste Handlers or EPA IDs to use on a hazardous waste search but in general people use it for Water General Permits. We have 15 facilities that start with DCR, so you can see you didn't have to know the whole permit ID number, you just know the first few characters then you get all of them that meet that criteria.

## "How do I search for waste water treatment plants or things also known as POTWs?"

I am back on the water facilities search, clear out my selections. The reason we are running through this one is because we often receive questions about how to search for waste water treatment plants and we wanted to share a few strategies since users may define this universe of facilities differently.

I'm just going to do Maryland again. I am not trying to pick on any states I am just in general doing places where I live or I am near. I am trying to find a particular type of facility. I am going to go under facility characteristics since I am looking for a type of facility. One way to do that is this thing called SIC code. If you hover over these little... If you hover over any acronym or initials that has the little dotted line under it, it'll show you what it stands for. Which may or may not be helpful. But in this case SIC is Standard Industrial Classification. If you want a little bit more information on what that means, there's a help button at the top of every search form page. There's a little question mark within the facility characteristics section or any of these sections there's a question mark that will take you right to that area of the help page and that'll give you a little bit of more information on what these terms mean. So, since we're looking for a type of facility we're going to... I am going to use SIC code 4952 and this represents sewerage systems or establishments primarily engaged in the collection and disposal of wastes through a sewer system. I knew what I wanted to search for but if you don't there's this SIC code look up and that'll take you to a page where you can type in what you're interested in looking for so you could type in sewer system or whatever and it'll give you some options of codes to search for. But this is just a way to search for types of facilities based on how the industries are classified.

Okay, so we'll search. We'll just do the data table this time. So, we got 211 facilities that met that criteria and you can do the customized columns again to give you a little more information about these facilities. For example, you could do the facility type, you could add the SIC code to see if it has any other classifications. Since we're looking at waste water treatment plants you can also see if we have data on their flow. There's two different fields for that. We also have another way to identify types of facilities, discharge facilities called, this is just for the clean water act discharges called permit components and this is just a data system field that people from the regulatory authority have to enter so it might not always be populated but that's another way to learn about the type of facility. I am just playing around with some of these columns, I am going to update the columns and then you'll get some additional information about how these facilities are categorized. There's that permit component field,

facility type and then some information about flow. Some of this I am just throwing out terms that I am used to using. If you don't know what the things mean that are in this table you can click on Results Guide and that defines each of the columns that are available. Once again, I am much more slowly through this than I thought I would. We got three searches left, but I wanted to leave time for questions, so I'll probably only do two more. I am going to clear out my searches. I am going to do a drinking water search since we haven't done one of those yet and then I'll do an air one. So, you click on Drinking Water you're focusing on public water systems.

## "How do I search for drinking water systems with specific types of violations?"

So, I am going to go under System Characteristics which is similar to the facility characteristics section on the other forms we looked at. I am going to focus on Drinking Water Systems search serves a larger population. By holding down the control key I can select more than one of these options. Scroll down to that Enforcement and Compliance section and just as an example I'll click on Monitoring and Reporting Violations, and then search. So, these results are going to show a list of systems that according to the EPA program system they either didn't conduct regular water quality monitoring or did not submit monitoring results in a timely fashion to the drinking water environmental agency. So there were 64 of those, of course you can narrow this down by your state or area that you're in and then you can just click a name to go to the Detailed Facility Report. The Detailed Facility Report will give you more information on what the actual violations were that were reported.

While I am talking about the Detailed Facility Report I'll just point out that another common question that we receive is *"how to report an individual data error?"* 

So if you're reviewing a Detailed Facility Report and you see an inspection happened and it's showing the wrong date or the wrong type of inspection, or whatever you can click right above the Detailed Facility Report there's this button that says Report Data Error. So, if you click that you'll be able to give some information about the particular piece of data that you think is incorrect and way and then submit it to EPA and it'll be routed to someone who can review it and correct it if necessary. I'll go back, do one more search and then we'll answer your questions. We might have time for two more if I hurry. We were going to show...

## "How do I search for facilities releasing a specific pollutant?"

So you can do that on the Air search, the Water search and the Drinking Water search. I was just going to point out an example on water. So, lets search for facilities in Alabama. We're searching for facilities in Alabama that are permitted to discharge a specific pollutant. So, this doesn't mean that there were any violations, or anything related to that, but just that their permitted to discharge chlorine. You just start typing a pollutant and then your choices will show up and then run the search. So this is all the permitted facilities in a state that are permitted to discharge a particular pollutant and then once you get your results, again we have reports where you can learn more about the specific data that you search for. In this case we have something called the Effluent Charts Report. It'll take a little while to load because I have a thousand facilities that met that criteria. Under reports we talked about the "C" which is the detailed facility reports. The "E" is what we call the Effluent Charts and that's where you can get detailed information about the pollutants that have been reported to be discharged and if you click that, the first thing you get is a summary chart of the outfalls at that particulate facility. I clicked the wrong facility, sorry. But anyway you get... one second, I am sorry I clicked a poor example. Sorry about

that. Alright let's try this again. So, you get a table that has summary information about the different pollutants. Here's that Chlorine which is what we looked up. So, in this case the facility just has one outfall, they might have more. I am just going to click. Some facilities have more than one. So, this shows the chlorine concentrations reported over the last three years and these lines represent the numeric limits for chlorine in this facility's permit so you can see what the level of permitted and that they were always reporting discharges under that limit which is good.

Okay, for the last time I'll go back to the search results and I'll answer all your questions. We haven't done an air example yet, so I'll switch this to air. Okay so I am in DC so I'm just going to narrow my search to DC and then once again go down to the pollutant section.

## "How do I search for facilities releasing a specific pollutant?"

You can search, we have several different ways that pollutant data get reported to EPA we just provide the option for all of them. It's kind of to provide context of what else is going on at the facility. In this example I am going to use National Emissions Inventory (NEI) which is a comprehensive and detailed estimate of air emissions of criteria pollutants, and hazardous air pollutants from several sources. So that this ECHO facility search is focused on stationary sources of emission such as industrial, commercial facilities and then it's stationary sources we pull this in and then we combine it with some of this other data. We're going to say it has Emission Inventory System ID. We'll look at the most recent National Emissions Inventory and then we'll just look for the category of Particulate Matter and probably we should spell particulate matter. It's a mixture of small particles and liquid droplets in the air that can cause haze or reduced visibility and can potentially lead to respiratory health issues so that's just an example and again we're just running a search just to find facilities that emit this type of pollutant. It doesn't mean that there's necessarily any enforcement or compliance issue but it's providing context of kind of what's going on environmentally. And once again you can customize the columns. There'll be more information on the amount of those pollutants that are emitted. The Results Guide defines some of the terms and that is the last demo I am going to run because we're running out of time. One second while I switch back to the presentation.

Okay, before we start the question answer session I just wanted to point out some helpful links again. If you forget these this presentation is posted on the ECHO training page. We have a navigation guide, those video tutorials I mentioned, some recorded webinars, a frequently asked question page, a contact us link and mailing list. I already kind of talked about most of these but if you forget then this list of links again is posted on the training page and in this presentation.

So, I wanted to thank you again for attending this webinar and now let's start the question and answer session.

# "Under the facilities search results page how can a state user add their state to the caveat at the top of page?"

So, I think that the person who asked is talking about this caveat up here that explains when there might be some data problems with transferring data from state data systems over to EPA systems. To do that you could just send information to the contact us link about what the problem is and what you would like the caveat to say and then we'll add it to our next development cycle.

# "On the search form, is the drop-down arrow in the search type, is the water selection considered wastewater?"

Yes it is. Water captures data on facilities that are regulated under the Clean Water Act and those are facilities that are managed under the National Pollutant Discharge Elimination System or the NPDES program.

## "What are the oldest inspection in your database?"

The facilities search allows you to search for inspections within the last 5 years. It'll also shows the date of the last inspection for a facility if it happened to be older than 5 years on the search results page. We also have a data downloads area that allows you to download full data sets of the source data kind of back to the inception of each program.

## "Can you search for the PFAS family of chemicals through ECHO?"

Yes, you can search by chemical name on the water search or water or hazardous waste specifically to look for any facilities that are permitted for those chemicals. The same way we went over the example of being permitted or discharging chlorine.

I am sorry to break in. We don't that capability yet for hazardous waste. It's something we would like to add in the future and if you're interested let us know from the Contact Us button. But yes, we can definitely do that from the water search. Sorry to interrupt.

Thank you. Do we have another question?

## "Does ECHO include smaller facilities permitted by the states that don't need to be reported to the EPA?"

Yes, if the information is entered in EPA's data system. ECHO pulls it into the website, but there are some facilities that information might not be required to be reported. And as shown on the screen on the About the Data page you can see all the EPA data sources that ECHO pulls from so any information enforcement or compliance information that is entered into these source data systems will be pulled into ECHO.

### "How often is the data updated?"

Data are typically updated weekly. Typically, over the weekend. Some of the information like the drinking water data are updated quarterly, but the vast majority of data are updated weekly.

I would know that if you are looking for information to be updated on the site that sometimes it can take, allow about 1-2 weeks if something is newly entered into a state database just to allow time between the transfer of that data between the state database and EPA's database and then the time for ECHO to extract that information.

### "Where can we find and search data older than 5 years?"

Okay so if you go to the home page, under advance tools, in this tile click on the link that says data downloads. And then there's a number of different files you can download here by data system and associated help contents that describes each dataset.

"Through the ECHO facility searches can you search on inspector's last name?"

No, we don't offer the ability to search on specific names of people or inspectors, but we do offer the facility name search like one of the examples we went through.

# "Could you please conduct an example using Quick Search?"

You can type in a zip code or city state and this is basically doing the all data search. All data search by location and you'll see the same kind of results we showed with the other examples. I am sorry I scrolled down to far. The map and the corresponding data table and summary statistics.

# "Are all state environmental data pulled into ECHO such as state level citations?"

Not all state level data are captured in the EPA data systems, but a lot of the relevant enforcement and compliance information is entered. Some of the information that's entered by EPA in many cases may be more complete than state information. Some of it depends on the type of specific information the questioner was interested in.

It's kind of the same answer that we gave before that if it the states entering data into the EPA national program systems then ECHO is going to pull it in, but some of these data like state citations are not required to be reported. Some are, some are not. There are a lot of details about that on the About Data page, but if they chose to report that data that we don't request to be reported to EPA then ECHO will show it.

# "Can you search for PFAS pollutants using the air search?"

We have the ability to search by pollutant in the air search. I never heard that one. I haven't either which program may include PFAS chemicals. In this case for air we're just pulling in a few different inventories where the EPA collects data and I don't know if PFAS would have been included. So yeah probably not right now. But you can use the drop down shown on the screen here to check if PFAS is part of these data sets and this would be the place to search.

## Those are all the questions we have for now.

Okay well thank you all so much for joining us for today's session. I just wanted to encourage everyone to please fill out the post webinar survey which will pop us on your screen and we'll let everyone get back to their afternoons. Thank you all so much again for joining us and enjoy the rest of your day.