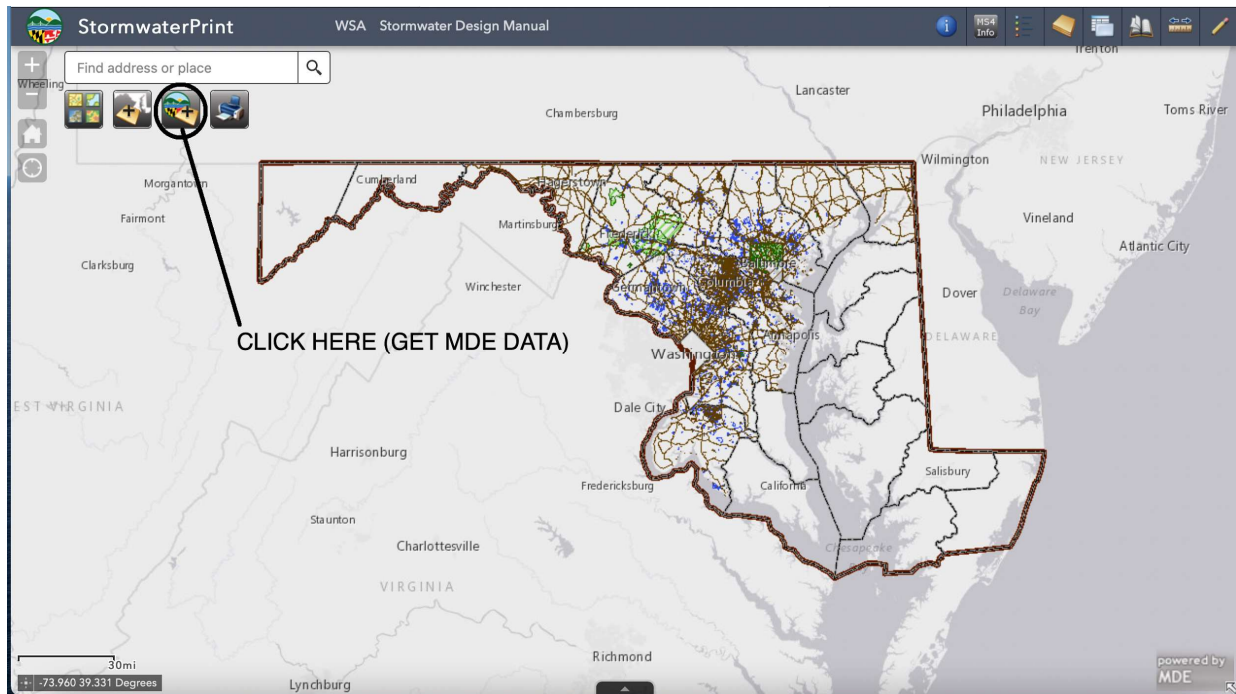
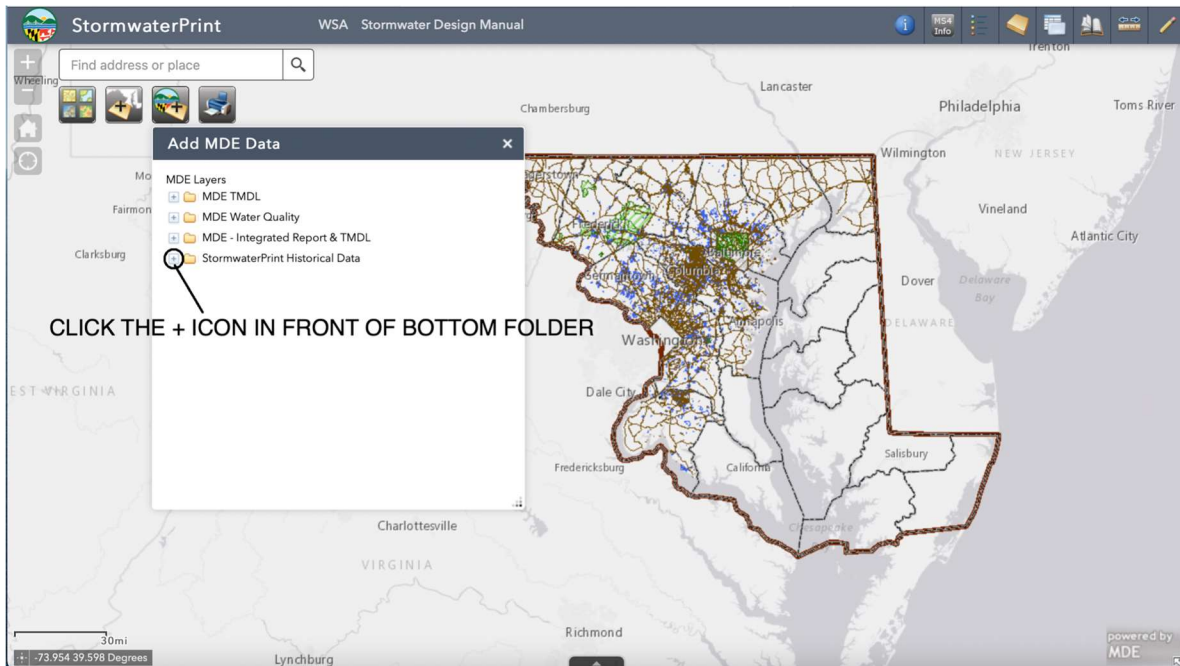


Steps To Download Monitoring Data from StormwaterPrint Map

1. Go to the StormwaterPrint homepage. Then click the “Interactive Map” below to get started.
2. To add data to this map, click on the “Add MDE Data” button in the upper left hand corner (third from the left - the button with the MDE logo and the + included).

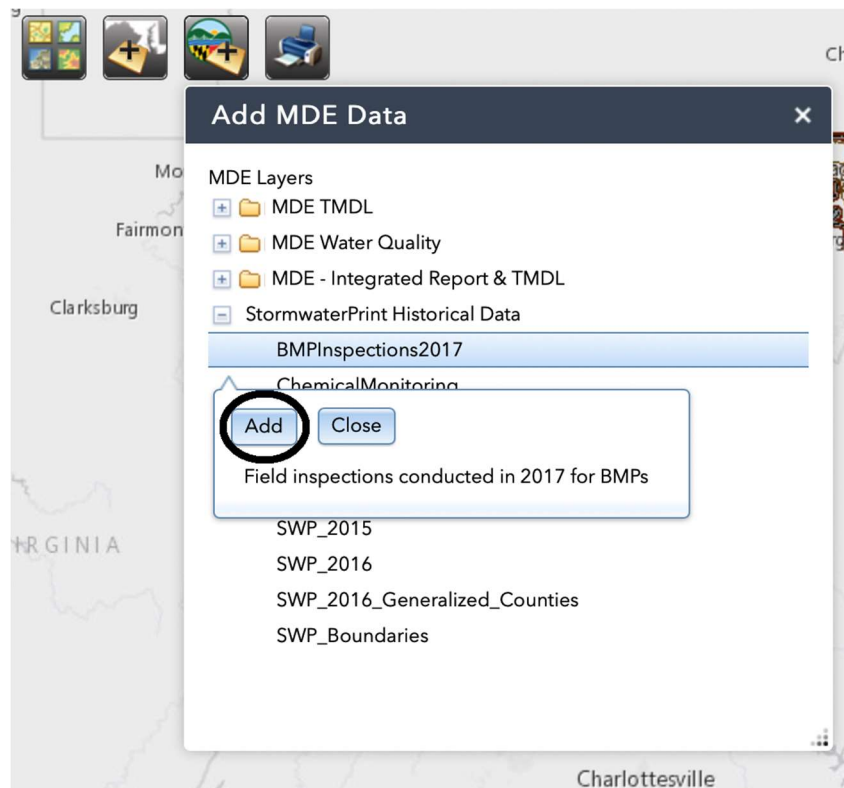
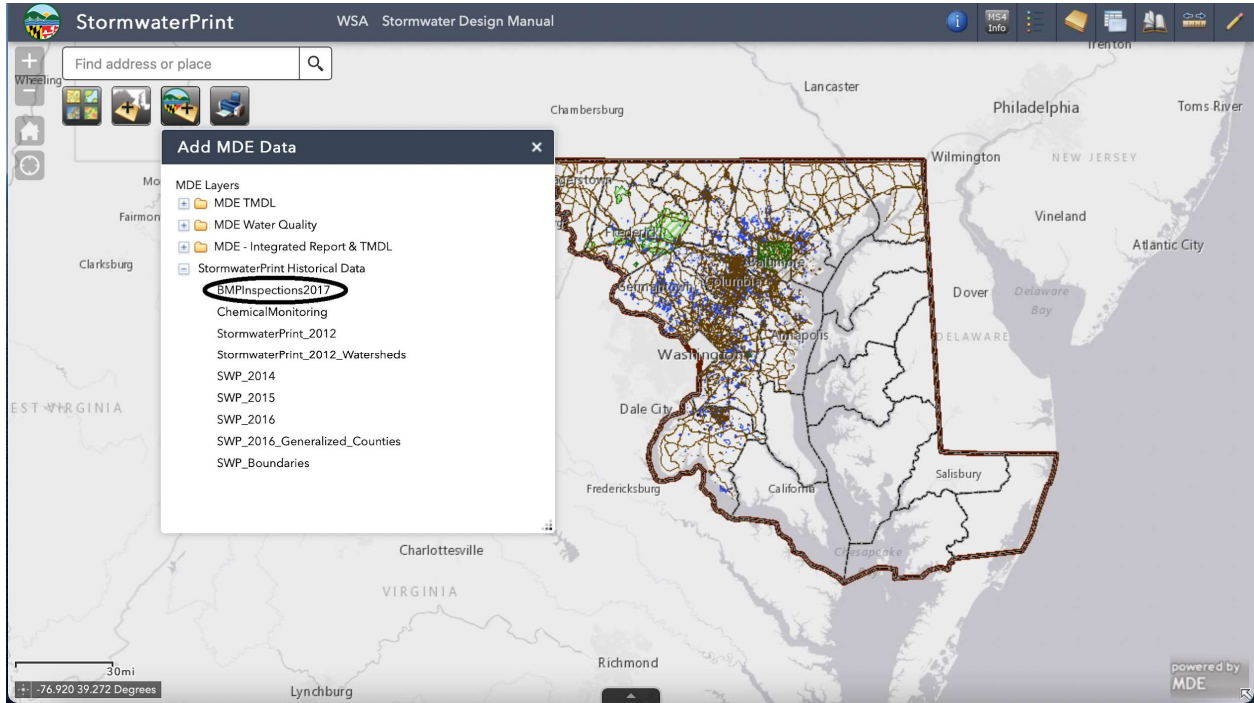


3. You will now see four folders under “Add MDE Layers”. Select the last folder, “Stormwater Print Historical Data”.



4. Under Stormwater Print Historical Data, more options will appear.

To view MS4 data for all Phase I MS4 jurisdictions in Maryland, click on “BMPInspections2017” and then click “Add”.



- An interactive table will appear below the map on your browser along with a list of tabs, options, and a table.

TABS IN TAB BAR

CURRENTLY OPEN TABLE

OBJECTID_12	OBJECTID	BMP_Type	Site_Name	Site_Addre	NAME	Photos	Comments	Photo1URL	Photo2URL	Photo3URL	Photo4URL	Phc
1	47	Sand Filter	Pat Haines subdivision	Cresaptown	Allegany	17-AL-01		http://mdewin64.AL-01.JPG				
2	48	Filtera Sand Filter	Buffalo Wild Wings	Lavale	Allegany	17-AL-02		http://mdewin64.AL-02.JPG				
3	49	Dry pond	Buffalo Wild	Lavale	Allegany	17-AL-03		http://mdewin64				

113 features 0 selected

- If you are interested in downloading chemical monitoring data, click the left arrow key and locate the “SWP_2017 - ChemicalMonitoring” tab. If you are interested in downloading biological monitoring data, locate the “SWP_2017 - BiologicalMonitoring” tab. Click on the corresponding tab and the table should refresh with the associated monitoring data from all Phase I MS4 jurisdictions. Note that “Filter by map extent” is enabled by default: this limits table entries to points visible on the map. To ensure all entries in the database are shown, click on “Filter by map extent” to disable this option.

LEFT ARROW

OBJECTID_12	OBJECTID	BMP_Type	Site_Name	Site_Addre	NAME	Photos	Comments	Photo1URL	Photo2URL	Photo3URL	Photo4URL	Phc
1	47	Sand Filter	Pat Haines subdivision	Cresaptown	Allegany	17-AL-01		http://mdewin64.AL-01.JPG				
2	48	Filtera Sand Filter	Buffalo Wild Wings	Lavale	Allegany	17-AL-02		http://mdewin64.AL-02.JPG				
3	49	Dry pond	Buffalo Wild	Lavale	Allegany	17-AL-03		http://mdewin64				

82 features 0 selected

SELECTED BY DEFAULT - CLICK TO UNSELECT

OBJECTID_12	OBJECTID	BMP_Type	Site_Name	Site_Adre	NAME	Photos	Comments	Photo1URL	Photo2URL	Photo3URL	Photo4URL	Phc
1	47	Sand Filter	Pat Haines subdivision	Cresaptown	Allegany	17-AL-01		http://mdewin64.AL-01.JPG				
2	48	Filtera Sand Filter	Buffalo Wild Wings	Lavale	Allegany	17-AL-02		http://mdewin64.AL-02.JPG				
3	49	Drv pond	Buffalo Wild	Lavale	Allegany	17-AL-03		http://mdewin64				

82 features 0 selected

- To export the data table as-is, click on Options in the upper left hand corner above the table, then click on “Export all to CSV” (on the bottom). Then click OK when it prompts you “Export data to CSV file”?

OPTIONS TAB - CLICK HERE

Chemical Monitoring ID	Monitoring Station ID	Local Station ID	MDE Outfall ID	Local Outfall ID	Event Date	Event Time	Storm or Base Flow Sample	Depth (inches)	Duration of Event	Intensity	Total Storm Flow Volume (gallons)	Wa
BC17CHE000004	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	11/28/2016	5:14:00	Storm	0.16	1.31	0.12	20,600.00	52.00
BC17CHE000005	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	12/5/2016	1:01:00	Storm	0.63	3.19	0.20	244,000.00	46.00
BC17CHE000006	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	11/16/2017	4:08:00	Storm	0.08	0.53	0.15	30,400.00	46.60
BC17CHE000007	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	2/24/2017	3:17:00	Storm	0.43	0.60	0.72	710,000.00	58.10
BC17CHE000008	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	3/29/2017	11:47:00	Storm	1.41	15.03	0.09	1,760,000.00	47.80
BC17CHE000009	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	4/2/2017	7:58:00	Storm	0.23	1.28	0.18	124,000.00	56.30

1140 records 0 selected

The image consists of two screenshots from the StormwaterPrint application. The top screenshot shows a data table with columns for Local Station ID, MDE Outfall ID, Local Outfall ID, Event Date, Event Time, Storm or Base Flow Sample, Depth (inches), Duration of Event, Intensity, Total Storm Flow Volume (gallons), and Wa. A callout 'CLICK HERE' points to the 'Export all to CSV' option in the 'Filter' menu. The bottom screenshot shows a dialog box with the text 'Export data to CSV file?' and two buttons: 'OK' and 'Cancel'. A callout 'CLICK OK' points to the 'OK' button.

Local Station ID	MDE Outfall ID	Local Outfall ID	Event Date	Event Time	Storm or Base Flow Sample	Depth (inches)	Duration of Event	Intensity	Total Storm Flow Volume (gallons)	Wa
HAMILTON AVE.	BC16OUT1418	1418	11/28/2016	5:14:00	Storm	0.16	1.31	0.12	20,600.00	52.00
HAMILTON AVE.	BC16OUT1418	1418	12/5/2016	1:01:00	Storm	0.63	3.19	0.20	244,000.00	46.00
HAMILTON AVE.	BC16OUT1418	1418	1/16/2017	4:08:00	Storm	0.08	0.53	0.15	30,400.00	46.60
HAMILTON AVE.	BC16OUT1418	1418	2/24/2017	3:17:00	Storm	0.43	0.60	0.72	710,000.00	58.10
HAMILTON AVE.	BC16OUT1418	1418	3/29/2017	11:47:00	Storm	1.41	15.03	0.09	1,760,000.00	47.80
HAMILTON AVE.	BC16OUT1418	1418	4/2/2017	7:58:00	Storm	0.23	1.28	0.18	124,000.00	56.30

- Depending on your browser settings, the file will either begin downloading automatically or your browser will ask you where you want to download the file. Once the file is downloaded, use an application capable of opening .csv files (such as Microsoft Excel) to view the table.

9. To export only the chemical monitoring data from a specific jurisdiction, do the following:

A. In the “Chemical Monitoring ID” column, note the first two letters of each ID number given. (If in the Biological Monitoring table, this is called the Biological Monitoring ID; otherwise, the codes are the same.) These two letters correspond to the jurisdiction in which the data originated. Below is a guide for which two letters correspond to which jurisdiction (NOTE: Jurisdictions without a code have no data in the system as of July 2021):

- i. “AA” for Anne Arundel County;
- ii. “BC” for Baltimore City;
- iii. - for Baltimore County;
- iv. “CR” for Carroll County;
- v. “CH” for Charles County;
- vi. “FR” for Frederick County;
- vii. - for Harford County;
- viii. “HO” for Howard County;
- ix. - for Montgomery County;
- x. “PG” for Prince George’s County; and
- xi. “SH” for the State Highway Administration.

It is also possible to group together data from multiple jurisdictions (see Step 9c).

Click on “Options” in the upper left hand corner above the table and then click on “Filter” (third option on the pull-down menu).

Chemical Monitoring ID	Monitoring Station ID	Local Station ID	MDE Outfall ID	Local Outfall ID	Event Date	Event Time	Storm or Base Flow Sample	Depth (inches)	Duration of Event	Intensity	Total Storm Flow Volume (gallons)	Wa
BC17CHE000004	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	11/28/2016	5:14:00	Storm	0.16	1.31	0.12	20,600.00	52.00
BC17CHE000005	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	12/5/2016	1:01:00	Storm	0.63	3.19	0.20	244,000.00	46.00
BC17CHE000006	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	1/16/2017	4:08:00	Storm	0.08	0.53	0.15	30,400.00	46.60
BC17CHE000007	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	2/24/2017	3:17:00	Storm	0.43	0.60	0.72	710,000.00	58.10
BC17CHE000008	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	3/29/2017	11:47:00	Storm	1.41	15.03	0.09	1,760,000.00	47.80
BC17CHE000009	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	4/2/2017	7:58:00	Storm	0.23	1.28	0.18	124,000.00	56.30
BC17CHE000010	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	5/10/2017	8:28:00	Storm	0.20	5.14	0.07	202,000.00	40.10

1140 records 0 selected

StormwaterPrint WSA Stormwater Design Manual

Find address Add MDE Data

MDE Layers

- MDE TMDL
- MDE Water Quality
- MDE - Integrated Report & TMDL
- StormwaterPrint Historical Data
- BMPInspections2017
- ChemicalMonitoring
- StormwaterPrint_2012
- StormwaterPrint_2012_Watersheds
- SWP_2014

g	Local Station ID	MDE Outfall ID	Local Outfall ID	Event Date	Event Time	Storm or Base Flow Sample	Depth (inches)	Duration of Event	Intensity	Total Storm Flow Volume (gallons)	Wa	
81	HAMILTON AVE.	BC16OUT1418	1418	11/28/2016	5:14:00	Storm	0.16	1.31	0.12	20,600.00	52.00	
BC17CHE000005	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	12/5/2016	1:01:00	Storm	0.63	3.19	0.20	244,000.00	46.00
BC17CHE000006	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	1/16/2017	4:08:00	Storm	0.08	0.53	0.15	30,400.00	46.60
BC17CHE000007	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	2/24/2017	3:17:00	Storm	0.43	0.60	0.72	710,000.00	58.10
BC17CHE000008	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	3/29/2017	11:47:00	Storm	1.41	15.03	0.09	1,760,000.00	47.80
BC17CHE000009	BC16MSI81	HAMILTON AVE.	BC16OUT1418	1418	4/2/2017	7:58:00	Storm	0.23	1.28	0.18	124,000.00	56.30

Options Filter by map extent Zoom to Clear selection Refresh

Show selected records Filter

Show related records

Show/Hide columns Export all to CSV

1140 records 0 selected

B. Click the “+ Add Expression” option.

Filter

+ Add expression + Add set

Display features in the layer that match the following expression

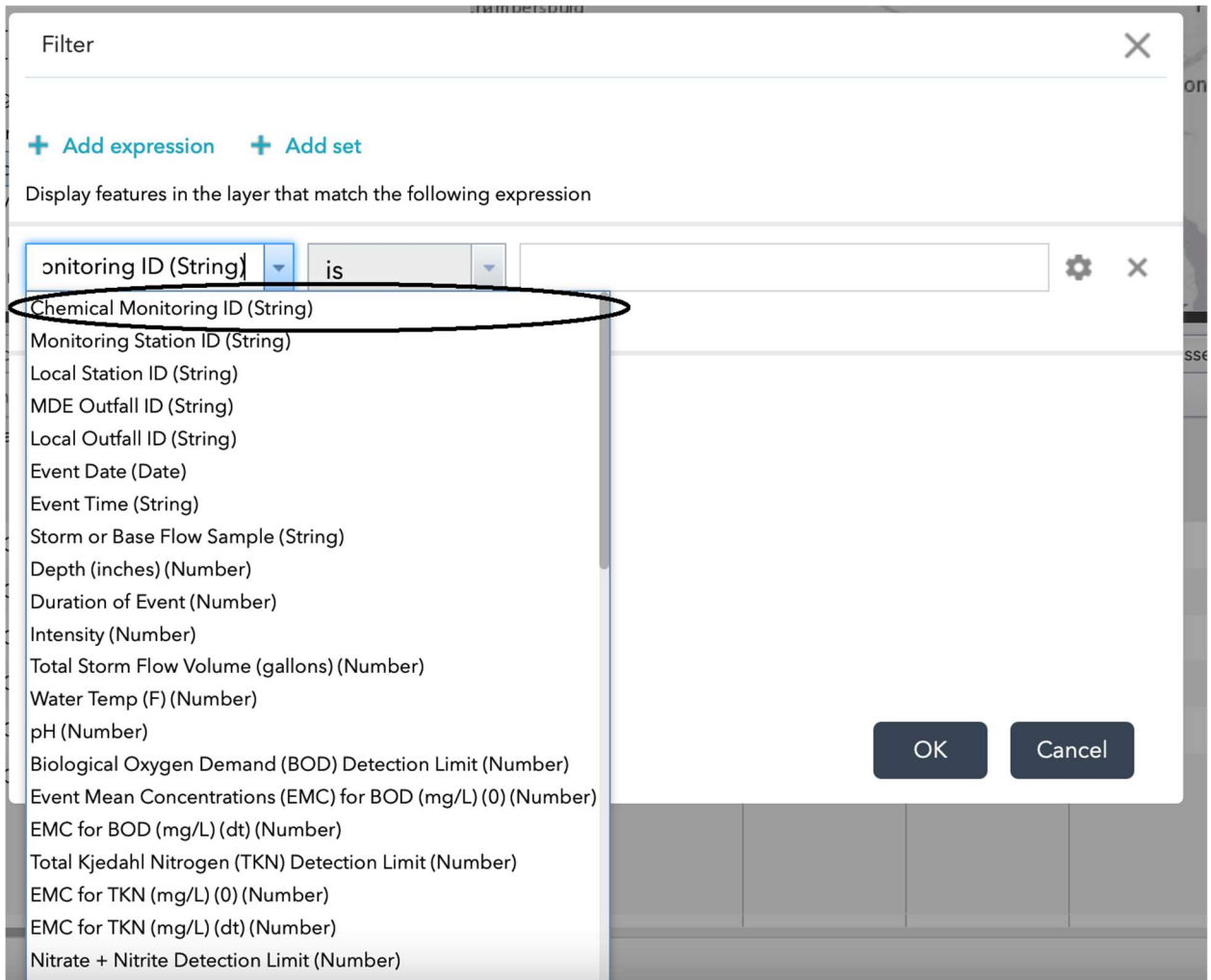
CLICK HERE

Without filter expressions defined, this query task will list all features in the specified data source.

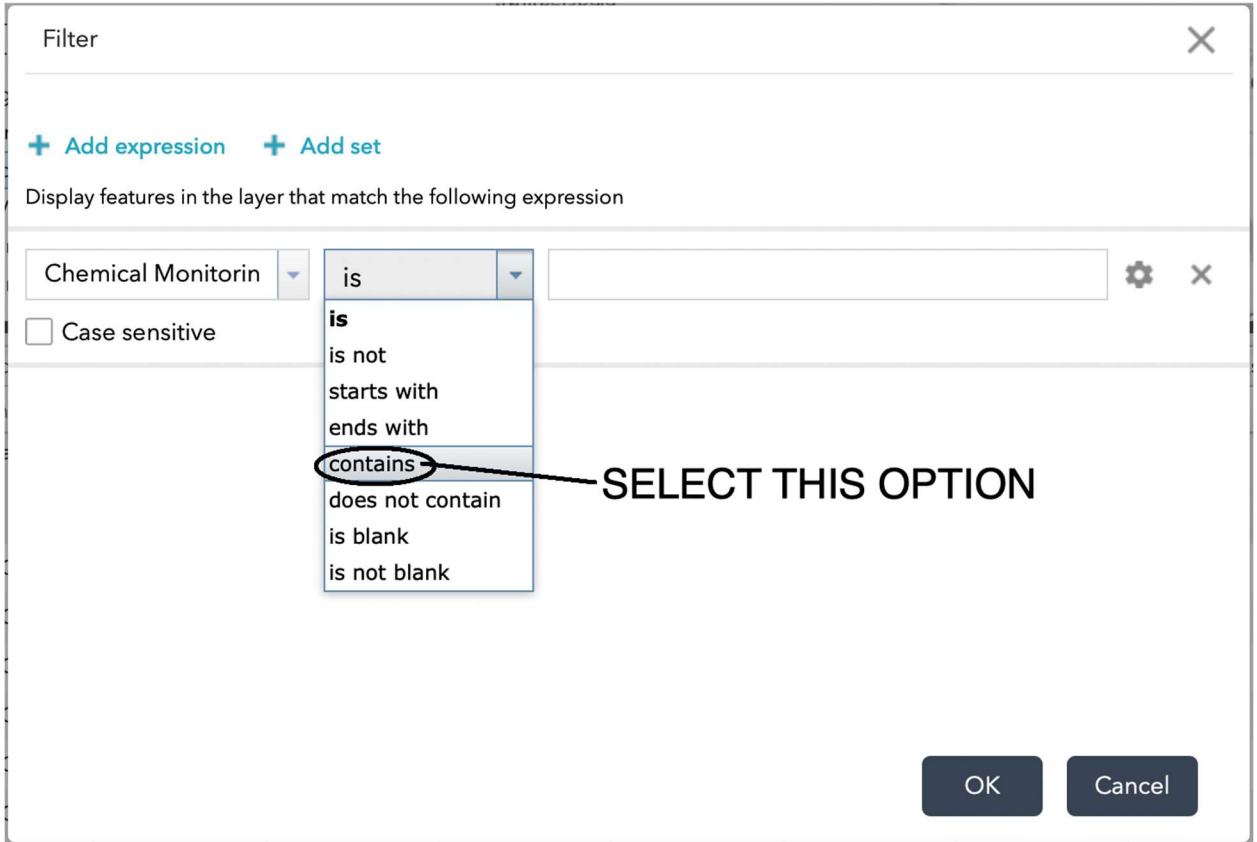
OK Cancel

C. Here, we can set the filter condition and confine table entries to a particular jurisdiction only. For example, if you wanted to show only the data for Baltimore City, set the condition as: Chemical Monitoring ID (String) contains "BC" (without quotes). To show only the data from another jurisdiction, just replace "BC" with the two letters of the jurisdiction of interest (again, without quotes - see step 9a). This process can be followed through the steps below:

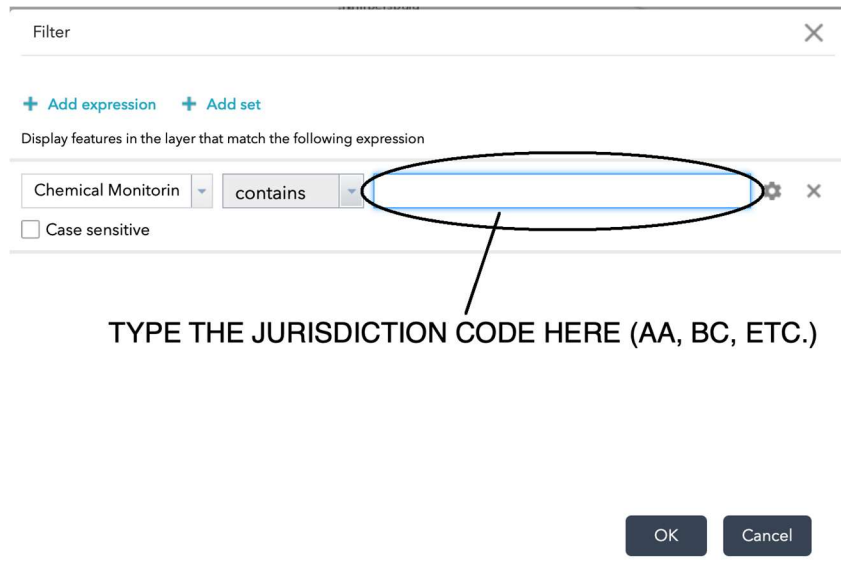
- i. On the first pull-down option (on the left), select "Chemical Monitoring ID (String)".



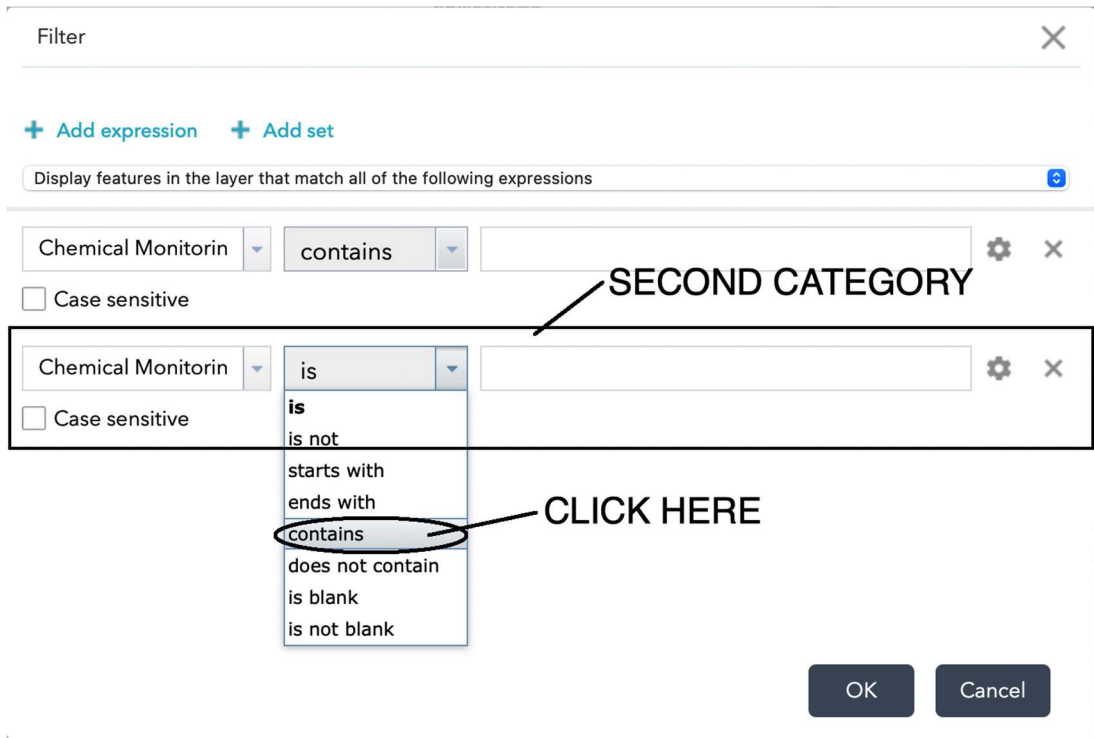
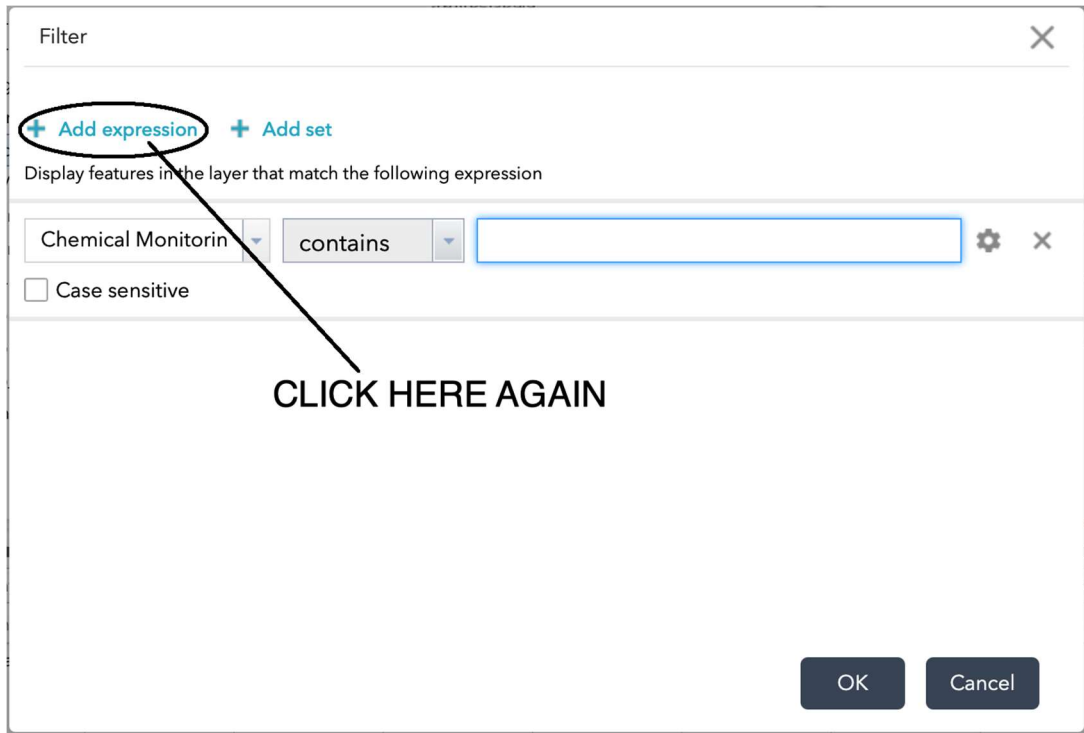
- ii. On the second pull-down menu (in the middle), select “Contains”.

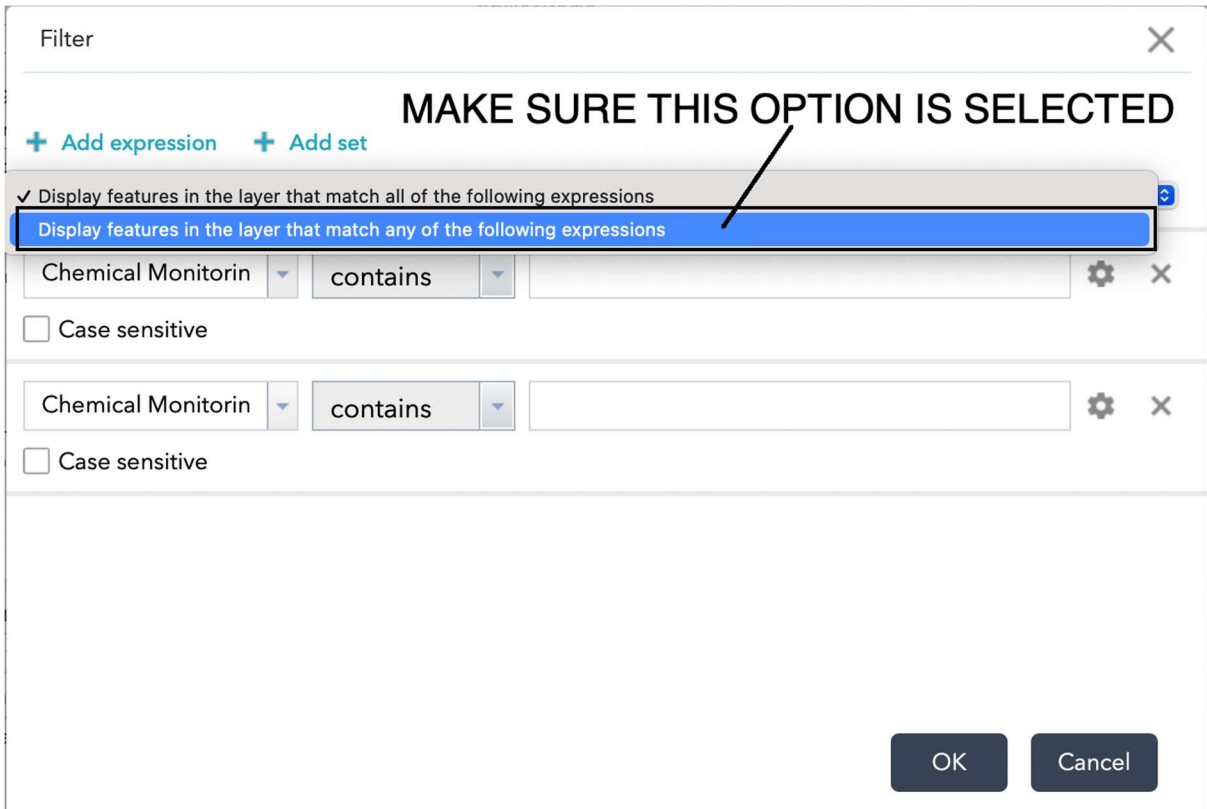
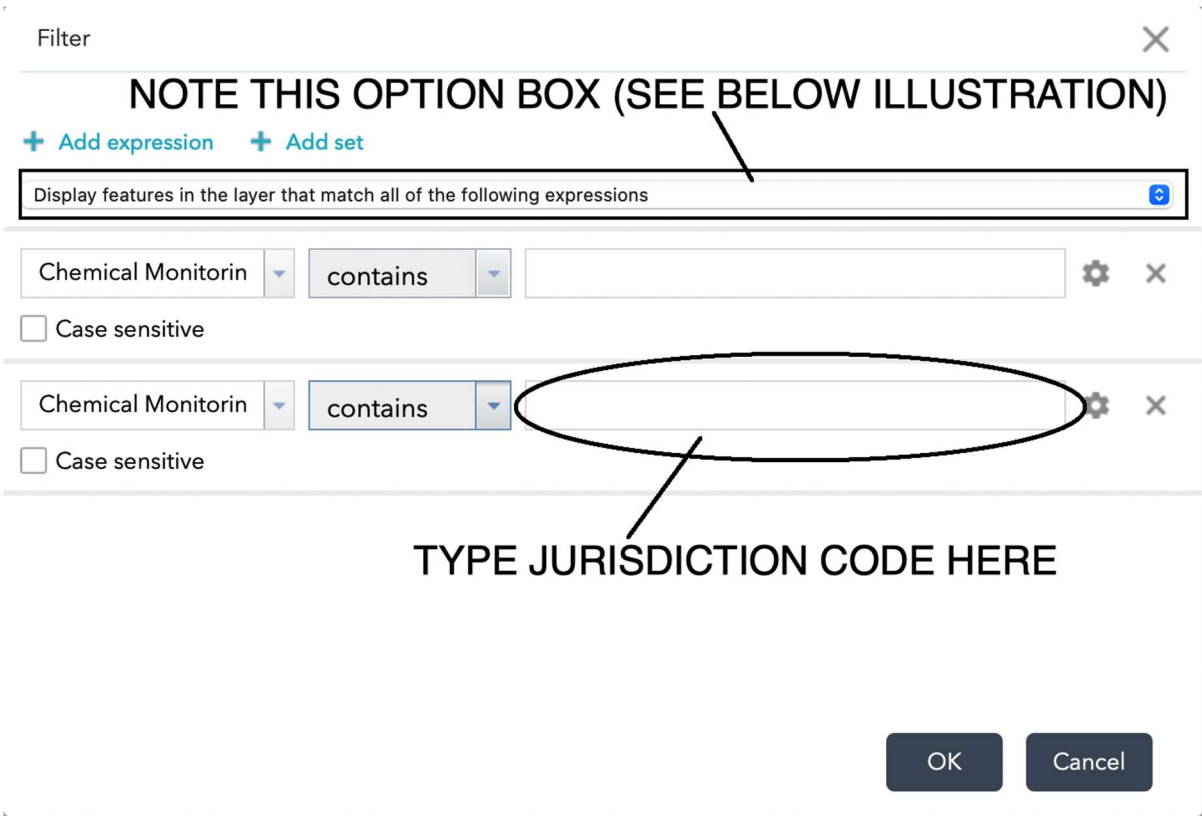


- iii. Then, in the blank field (on the right), type the two letters of your jurisdiction of choice (see step 9a). This will filter out all the records that do not contain this string (i.e., all records from other jurisdictions, so that only results from your jurisdiction of choice remain). If you are finished, click OK and skip to step 9e; otherwise, see step 9d below on how to add additional jurisdictions.



- D. If interested in data from more than one jurisdiction, repeat steps 9b and 9c for each additional jurisdiction you want to add (see illustrations). Also ensure that “Display features in the layer that match **any** of the following expressions” is selected.





You can add additional entries as needed. When finished, press OK.

NOTE: If no results are being returned, you probably have it set to “Display features in the layer that match **all** of the following expressions” selected. You will have to make sure that the “...any of the following expressions” option is selected.

- E. You will be returned to the table and after a little while, the results will sort.
 - F. Repeat Steps 7 and 8 to export this data subset.
10. You can further sort data and create subsets by choosing other columns and selecting various queries.