Tutorial for analyzing and mapping contaminated sites data

The federal government oversees thousands of sites that are contaminated with a number of pollutants such as petroleum hydrocarbons, a mixture of chemicals found in crude oil, that carry a collected liability in the billions of dollars. Echoing the Environment Commissioner's concerns, the Parliamentary Budget Office has warned the government that it must get this problem under control.

What's worse, there are still sites, many in and near towns and cities, that have yet to be assessed for contaminants. So this is a huge problem that we should be monitoring and holding government to account.

Fortunately, the data is readily available, meaning that tables can be downloaded into Excel, and then filtered for interesting subsets that can be uploaded to Google's Fusion Tables.

Though there have been lots of stories about the most contaminated sites, little attention has been paid to sites that have yet to be assessed but are suspected of being toxic, potentially dangerous, and expensive to clean up.

So let's look at those, identify the federal departments that have the highest number and map them, allowing our audience to see where they're located.

Let's get started.

1) Go to the Treasury Board of Canada table entitled "Find Sites by Classification"
2) Download the "Active" sites in the "Site(s) not yet classified section".

3) We had trouble importing the XML tab using our Macs. There are a number of workarounds discussed in this NICAR discussion thread that responded to our request for help.
4) You can explore some of the options they discussed. Failing that, download the Excel worksheet that contains the file of sites we will map.
5) Please click here to download the Excel file.

6) The original worksheet is in the XML format and quite messy. So we'll need to clean it up.

7) Select the entire worksheet, copy and paste it as a "paste special" into a new worksheet. For Mac users, be sure to select the "values" option in the dialog box.

8) Now we'll have to clean it up and remove the duplicates. Highlight rows two and three and delete them.

9) Delete the columns A to F.

	A	B	C	D	E	F	G	H	I
1	HasProtectedData		QueryDate	CriteriaTyp	CriteriaVal	CriteriaTe>	CriteriaTe:	FederalSite	InternalIde	DOB_Ide
2								00000017	SM293	NOR
3								00000017	SM293	NOR
4								00000017	SM293	NOR
5								00000017	SM293	NOR
6								00000017	SM293	NOR
7								00000017	SM293	NOR
8								00000017	SM293	NOR
9								00000017	SM293	NOR
10								00000017	SM293	NOR
11								00000017	SM293	NOR
12								00000017	SM293	NOR
13								00000017	SM293	NOR
14								00000017	SM293	NOR
15								00000017	SM293	NOR
16								00000017	SM293	NOR
17								00000017	SM293	NOR
18								00000017	SM293	NOR
19								00000017	SM293	NOR
20								00000020	WK054	NOR
21								00000020	WK054	NOR
2								00000020	WK054	NOR

|	A	B	C	D	E	F	G	H
1	FederalSite	InternalIde	DOB_Iden	DOB_Nam	DOB_Nam	SiteNamel	SiteNameF	Involve
2	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
3	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
4	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
5	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
6	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
7	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
8	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
9	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
10	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
11	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
12	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
13	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
14	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
15	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
16	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
17	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
18	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
19	00000017	SM293	NOR	Aboriginal	Affaires au	THOMPSO	MINE DE T	
20	00000020	WK054	NOR	Aboriginal	Affaires au	CORONAT	GOLFE CO	
21	00000020	WK054	NOR	Aboriginal	Affaires au	CORONAT	GOLFE CO	
22	00000020	WK054	NOR	Aboriginal	Affaires au	CORONAT	GOLFE CO	
23	00000020	WK054	NOR	Aboriginal	Affaires au	CORONAT	GOLFE CO	
24	00000020	WK054	NOR	Aboriginal	Affaires au	CORONAT	GOLFE CO	
25	00000020	WK054	NOR	Aboriginal	Affaires au	CORONAT	GOLFE CO	

10)   Use you short-cut key to select the columns I've highlighted (either because they are in French or otherwise extraneous to this exercise) and delete them.

11) Highlight the columns after P – "ContaminationSourceEN" – for the same reasons described above.

K	L	M	N	O	P	Q	R	S	T	U
tHectar	EstTonsCc	Protected	SiteDelete	Contamin	ContaminationSourceEN	LiableThirdPartyIdentifier	Managem	Managem	Managem	Conta
0	0	0	0		2 Former Mineral Exploration Sites		5	Additiona	Évaluation	comp
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
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0	0	0	0		2 Former Mineral Exploration Sites					
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0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					
0	0	0	0		2 Former Mineral Exploration Sites					

12) You should be left with a table with columns A to P with the all-important "Latitude and Longitude", geographic information Fusion Tables will need to place the sites on a map.

13) Now we have to get rid of the duplicates.

14) Make sure cell A1 is activated and locate your "Remove Duplicates" option, which should be on your menu ribbon above the table.
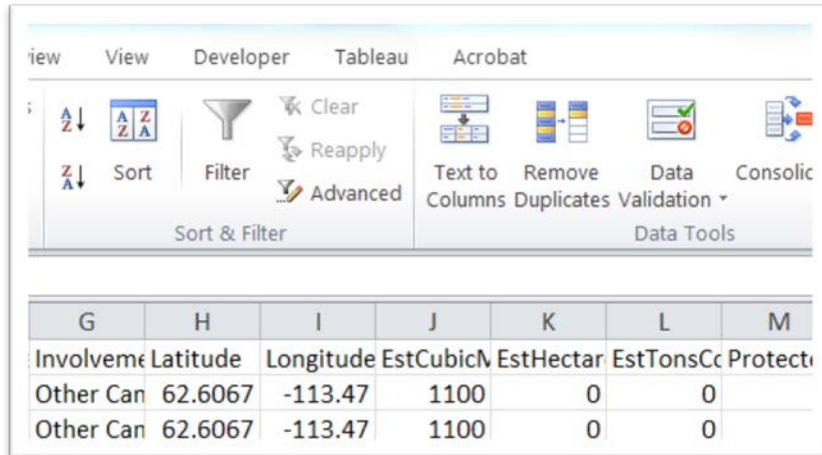
15)
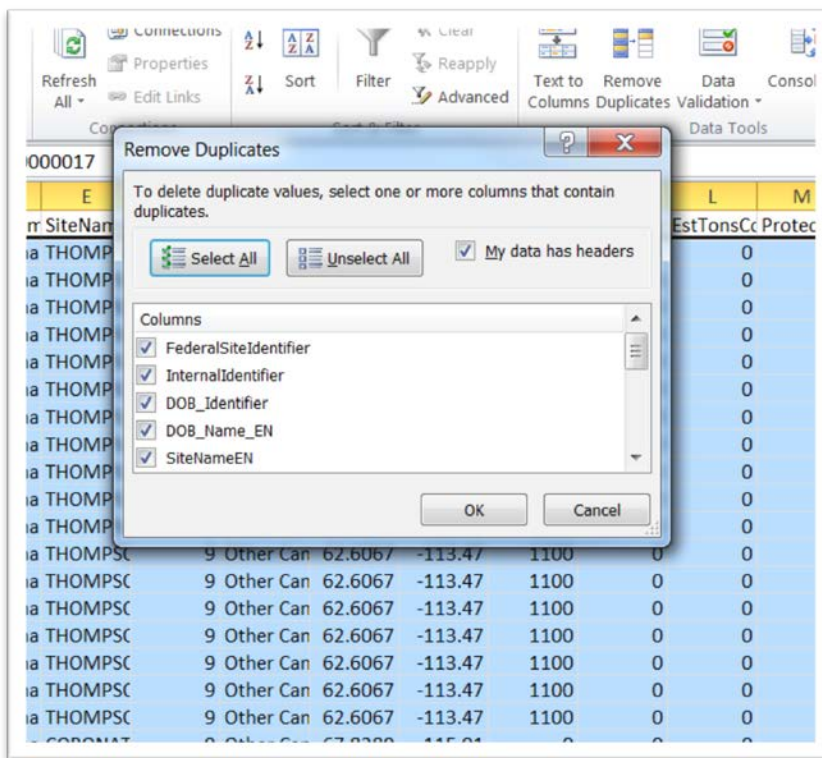
16)   Unselect, and then select the first column, the "FederalSiteIdentifier".

Remove Duplicates dialog:

To delete duplicate values, select one or more columns that contain duplicates.

[Select All] [Unselect All] ☑ My data has headers

Columns:
- ☑ FederalSiteIdentifier
- ☐ InternalIdentifier
- ☐ DOB_Identifier
- ☐ DOB_Name_EN
- ☐ SiteNameEN

[OK] [Cancel]

Formula bar: 00000017

Iden DOB_Nam SiteNan				EstTonsCc	Protected Site
Aborigina THOMP				0	0
Aborigina THOMP				0	0
Aborigina THOMP				0	0
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Aborigina THOMP				0	0
Aborigina THOMP				0	0
Aborigina THOMP				0	0
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Aborigina THOMPSO	9 Other Can 62.6067 -113.47 1100			0	0
Aborigina THOMPSO	9 Other Can 62.6067 -113.47 1100			0	0
Aborigina THOMPSO	9 Other Can 62.6067 -113.47 1100			0	0

I	J	K	L	M	N	O	P
Longitude	EstCubicM	EstHectar	EstTonsCc	Protected	SiteDelete	Contamin	ContaminationSourceEN
-113.47	1100	0	0	0	0	2	Former Mineral Exploration Sites
-115.01	0	0	0	0	0	2	Former Mineral Exploration Sites
-117.47	0	0	0	0	0	2	Former Mineral Exploration Sites
-115	0	0	0	0	0	2	Former Mineral Exploration Sites
-117.2	0	0	0	0	0	2	Former Mineral Exploration Sites
-115.23	58	0	0	0	0	2	Former Mineral Exploration Sites
-115.17	0	0	0	0	0	2	Former Mineral Exploration Sites
-81.933	0	0	0	0	0	2	Former Mineral Exploration Sites
-97.971	0	0	0	0	0	2	Former Mineral Exploration Sites
-86.058	0	0	0	0	0	2	Former Mineral Exploration Sites
-77.938							Exploration Sites
-81.991							Exploration Sites
-105.17							Exploration Sites
-107.18							Exploration Sites
-68.55							Exploration Sites
-117.37							Exploration Sites
-107.56							Exploration Sites
-112.29							Exploration Sites
-100.26	0	0	0	0	0	2	Former Mineral Exploration Sites
-115.17	0	0	0	0	0	2	Former Mineral Exploration Sites
-110.35	0	0	0	0	0	2	Former Mineral Exploration Sites
-88.24	0	0	0	0	0	5	Landfills/Waste Sites
-123	6000	0	0	0	0	4	Fuel Related Practices
-81.744	1	0	0	0	0	5	Landfills/Waste Sites

Microsoft Excel message box:

15794 duplicate values found and removed; 1060 unique values remain.

[OK]

Was this information helpful?

17) Selecting OK, leaves you with 1060 Records or "unique values", the same number contained in the table on the <u>Treasury Board's website</u>.

353	8349200	C F 50233	DFO	Fisheries	Ferris Isla	0 Federal R	49.0522	-94.648	0	0	0	0	0	
354	C102300	SM210	NOR	Aborigina	CRESTAUF	9 Other Can	62.5806	-114.36	0	0	0	0	0	2 Former Mineral Exploration Sites
355	N001700	N001700	MOT	Transport	Parcel 9	1 Contractu	74.7169	-94.969	0	0.5	0	0	0	6 Engineering Assets/Air and Land Transportation
356	N028100	N028100	MOT	Transport	Drums in	1 Contractu	60.1178	-128.82	0	0.8	0	0	0	7 Marine Facilities/Aquatic Sites
357	N028101	N028101	MOT	Transport	Former Te	1 Contractu	60.1178	-128.82	0	0.02	0	0	0	4 Fuel Related Practices
358	N028101	N028101	MOT	Transport	Historic N	1 Contractu	60.1178	-128.82	0	0	0.01	0	0	6 Engineering Assets/Air and Land Transportation
359	N028101	N028101	MOT	Transport	Operating	1 Contractu	60.1178	-128.82	2000	0.2	4000	0	0	4 Fuel Related Practices
360	N028102	N028102	MOT	Transport	Former D	1 Contractu	60.1178	-128.82	500	0.1	1000	0	0	5 Landfills/Waste Sites
361	N706000	0465-C01	DND	National	Former R	0 Federal R	52.8187	-110.95	0	0	0	0	0	
362														
363														
364														
365														
366														

18) Mapping this many records randomly is an option, but wouldn't it be better to use a bit of analysis, creating, for instance, a table of top-five departments with the largest number of sites.

19) To do this, we'll have to create a pivot table, grouping the departments in column D ("DOB_Name_EN"), counting the ID numbers (now free of duplicates), and sorting the result in descending order.

20) Be sure to format your number in the pivot table's column B., label the worksheet, and drag the tab to the right of your

"WorkingCopy" tab so that everything reads from left-to-right.

	A	B
1		
2		
3	**Row Labels**	**Count of FederalSiteIdentifier**
4	Fisheries and Oceans Canada	463
5	Aboriginal Affairs and Northern Development Canada (Indian and Inuit Affairs Program)	282
6	Department of Fisheries and Oceans	81
7	National Defence	76
8	Royal Canadian Mounted Police	37
9	Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	33
10	Transport Canada	22
11	National Capital Commission	13
12	Parks Canada Agency	11
13	Environment Canada	10
14	Correctional Service of Canada	8
15	Agriculture and Agri-Food Canada	7
16	National Research Council	6
17	Veterans Affairs Canada	3
18	Public Works and Government Services Canada	3
19	National Research Council of Canada	2
20	Department of the Environment	2
21	Natural Resources Canada	1
22	**Grand Total**	**1,060**
23		
24		

21) We have a slight problem in devising our top-five. Rows four and six are the same department, as are rows five and nine.

22) This is kind of duplication is common with databases. For remember the adage: "all data is dirty". (NOTE: Discussed in our textbook, beginning on page 99)

23) Let's return to your workingcopy worksheet, and filter for "Fisheries and Oceans Canada" and the "Department of Fisheries

and Oceans".

	FederalSiteIdentifier	InternalIdentifier	DOB_Identifier	DOB_Name_EN
1	FederalSiteIdentifier	InternalIdentifier	DOB_Identifier	DOB_Name_EN
58	00000894	M S 02502	DFO	Fisheries and Oceans Canada
73	00012197	Q E 35750	DFO	Department of Fisheries and Oceans
74	00012208	Q E 60650	DFO	Fisheries and Oceans Canada
75	00012209	Q E 60660	DFO	Fisheries and Oceans Canada
76	00012268	Q E 33020	DFO	Department of Fisheries and Oceans
77	00012327	Q E 58290	DFO	Fisheries and Oceans Canada
78	00012329	Q E 58310	DFO	Department of Fisheries and Oceans
79	00012395	Q E 66130	DFO	Fisheries and Oceans Canada
80	00012396	Q E 83120	DFO	Department of Fisheries and Oceans
81	00012397	Q E 83130	DFO	Department of Fisheries and Oceans
82	00012429	P K 90047	DFO	Fisheries and Oceans Canada
83	00012432	Q E 35780	DFO	Department of Fisheries and Oceans
84	00012433	Q E 36340	DFO	Department of Fisheries and Oceans
85	00012436	Q E 42720	DFO	Department of Fisheries and Oceans
86	00012468	Q S 03509	DFO	Department of Fisheries and Oceans
87	00012494	Q S 03650	DFO	Fisheries and Oceans Canada
88	00012501	Q S 03709	DFO	Department of Fisheries and Oceans
89	00012502	Q S 03710	DFO	Fisheries and Oceans Canada
90	00012511	Q S 03755	DFO	Department of Fisheries and Oceans
91	00012515	Q S 03784	DFO	Department of Fisheries and Oceans
92	00012518	Q S 03797	DFO	Department of Fisheries and Oceans
93	00012537	Q S 03981	DFO	Fisheries and Oceans Canada
94	00012542	M S 01092	DFO	Fisheries and Oceans Canada
95	00012554	N S 00400	DFO	Fisheries and Oceans Canada
96	00012577	N S 00033	DFO	Fisheries and Oceans Canada
97	00012585	N S 00344	DFO	Fisheries and Oceans Canada
98	00012623	M S 01345	DFO	Fisheries and Oceans Canada

24)   The problem is, because the departments are named differently, Excel assumes they are actually separate and treats them as such. So we have to make sure they're all named the same. Because "Fisheries and Oceans Canada" is the first name in the list, list copy it all the way own to the end by highlighting that cell and double-clicking on its bottom right-hand corner.

D	SiteNar
DOB_Name_EN	
Fisheries and Oceans Canada	ANSE-B
Department of Fisheries and Oceans	Provost
Fisheries and Oceans Canada	Uncont
Fisheries and Oceans Canada	Uncont
Department of Fisheries and Oceans	Minor !
Fisheries and Oceans Canada	Lac Sair

D	
Fisheries and Oceans Canada	ANSE-BLEI
Fisheries and Oceans Canada	Provost la
Fisheries and Oceans Canada	Uncontam
Fisheries and Oceans Canada	Uncontam
Fisheries and Oceans Canada	Minor Sho
Fisheries and Oceans Canada	Lac Saint-l
Fisheries and Oceans Canada	Lac Saint-l
Fisheries and Oceans Canada	Ruaux Cer
Fisheries and Oceans Canada	Uncontam
Fisheries and Oceans Canada	Rivière au
Fisheries and Oceans Canada	Docee Riv
Fisheries and Oceans Canada	Île Deslau
Fisheries and Oceans Canada	Ile Sainte-
Fisheries and Oceans Canada	Dixie
Fisheries and Oceans Canada	ANGLIERS
Fisheries and Oceans Canada	LANIEL (L/
Fisheries and Oceans Canada	NOTRE-D/
Fisheries and Oceans Canada	NOTRE-D/
Fisheries and Oceans Canada	Gas and d
Fisheries and Oceans Canada	Sillery
Fisheries and Oceans Canada	ST-BARTH
Fisheries and Oceans Canada	GRAND-M
Fisheries and Oceans Canada	EAST DOV
Fisheries and Oceans Canada	Port Au Br
Fisheries and Oceans Canada	Bear Cove
Fisheries and Oceans Canada	New Chels
Fisheries and Oceans Canada	WEST HE/
Fisheries and Oceans Canada	PINKNEYS
Fisheries and Oceans Canada	PARKERS (
Fisheries and Oceans Canada	DUBLIN SI
Fisheries and Oceans Canada	LUNENBU
Fisheries and Oceans Canada	PIGEON H
Fisheries and Oceans Canada	LUNENBU
Fisheries and Oceans Canada	VAL-COM

25) Return to your pivot table and click the "refresh" button

Row Labels	Count of FederalSiteIdentifier
Fisheries and Oceans Canada	463
Aboriginal Affairs and Northern Development Canada (Indian and Inuit Affairs Program)	282
Department of Fisheries and Oceans	81
National Defence	76
Royal Canadian Mounted Police	37
Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	33
Transport Canada	22
National Capital Commission	13
Parks Canada Agency	11
Environment Canada	10
Correctional Service of Canada	8
Agriculture and Agri-Food Canada	7
National Research Council	6
Veterans Affairs Canada	3
Public Works and Government Services Canada	3
National Research Council of Canada	2
Department of the Environment	2
Natural Resources Canada	1
Grand Total	**1,060**

Row Labels	Count of FederalSiteIdentifier
Fisheries and Oceans Canada	544
Aboriginal Affairs and Northern Development Canada (Indian and Inuit Affairs Program)	282
National Defence	76
Royal Canadian Mounted Police	37
Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	33
Transport Canada	22
National Capital Commission	13
Parks Canada Agency	11
Environment Canada	10
Correctional Service of Canada	8
Agriculture and Agri-Food Canada	7
National Research Council	6
Veterans Affairs Canada	3
Public Works and Government Services Canada	3
Department of the Environment	2
National Research Council of Canada	2
Natural Resources Canada	1
Grand Total	1,060

26)   Now there is only one fisheries department.

27) Repeat the process for Aboriginal Affairs.

	A	B
3	**Row Labels**	**Count of FederalSiteIdentifier**
4	Fisheries and Oceans Canada	544
5	Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	315
6	National Defence	76
7	Royal Canadian Mounted Police	37
8	Transport Canada	22
9	National Capital Commission	13
10	Parks Canada Agency	11
11	Environment Canada	10
12	Correctional Service of Canada	8
13	Agriculture and Agri-Food Canada	7
14	National Research Council	6
15	Public Works and Government Services Canada	3
16	Veterans Affairs Canada	3
17	Department of the Environment	2
18	National Research Council of Canada	2
19	Natural Resources Canada	1
20	**Grand Total**	**1,060**

28) Now we have our top-five departments.

29) Return to the workingcopy worksheet.

30) Filter for the five departments on our top-five list, copy the filtered table, and paste it into a new worksheet, labeled "TopFive".

31) Insert a new column to the right of column D, DOB_Name.

32) Call the column FT_Colour (FT for Fusion Table).

33)   In this column, we will assign different coloured icons FT uses to distinguish the points it places on a map.

34)

35)   The "large_red" will represent the highest number; the "large_yellow" the second; the "large_green" the third; the "large_blue" the fourth; the "large_purple" the fifth.

36)   Filter your new worksheet, and assign the icons to each department as you can see in the next succession of screen shots.

	A	B	C	D	E
1	Federal ▾	Internal ▾	DOB_Id ▾	DOB_Name_EN	⛬ FT_Colour ▾
58	00000894	M S 02502	DFO	Fisheries and Oceans Canada	large_red
256	00012197	Q E 35750	DFO	Fisheries and Oceans Canada	large_red
257	00012208	Q E 60650	DFO	Fisheries and Oceans Canada	large_red
258	00012209	Q E 60660	DFO	Fisheries and Oceans Canada	large_red
259	00012268	Q E 33020	DFO	Fisheries and Oceans Canada	large_red
260	00012327	Q E 58290	DFO	Fisheries and Oceans Canada	large_red
261	00012329	Q E 58310	DFO	Fisheries and Oceans Canada	large_red
262	00012395	Q E 66130	DFO	Fisheries and Oceans Canada	large_red
263	00012396	Q E 83120	DFO	Fisheries and Oceans Canada	large_red
264	00012397	Q E 83130	DFO	Fisheries and Oceans Canada	large_red
265	00012429	P K 90047	DFO	Fisheries and Oceans Canada	large_red
266	00012432	Q E 35780	DFO	Fisheries and Oceans Canada	large_red
267	00012433	Q E 36340	DFO	Fisheries and Oceans Canada	large_red
268	00012436	Q E 42720	DFO	Fisheries and Oceans Canada	large_red
269	00012468	Q S 03509	DFO	Fisheries and Oceans Canada	large_red
270	00012494	Q S 03650	DFO	Fisheries and Oceans Canada	large_red
271	00012501	Q S 03709	DFO	Fisheries and Oceans Canada	large_red
272	00012502	Q S 03710	DFO	Fisheries and Oceans Canada	large_red
273	00012511	Q S 03755	DFO	Fisheries and Oceans Canada	large_red
274	00012515	Q S 03784	DFO	Fisheries and Oceans Canada	large_red
275	00012518	Q S 03797	DFO	Fisheries and Oceans Canada	large_red
276	00012537	Q S 03981	DFO	Fisheries and Oceans Canada	large_red
277	00012542	M S 01092	DFO	Fisheries and Oceans Canada	large_red
278	00012554	N S 00400	DFO	Fisheries and Oceans Canada	large_red
279	00012577	N S 00033	DFO	Fisheries and Oceans Canada	large_red
280	00012585	N S 00344	DFO	Fisheries and Oceans Canada	large_red
281	00012623	M S 01345	DFO	Fisheries and Oceans Canada	large_red
282	00012626	M S 01241	DFO	Fisheries and Oceans Canada	large_red
283	00012629	M S 01234	DFO	Fisheries and Oceans Canada	large_red

	A	B	C	D	E
	Federal ▾	Internal ▾	DOB_Id ▾	DOB_Name_EN ▾	FT_Colour ▾
2	00000017	SM293	NOR	Aboriginal Affairs and Northern De	large_yellow
3	00000020	WK054	NOR	Aboriginal Affairs and Northern De	large_yellow
4	00000042	WK169	NOR	Aboriginal Affairs and Northern De	large_yellow
5	00000051	WK184	NOR	Aboriginal Affairs and Northern De	large_yellow
6	00000062	WK209	NOR	Aboriginal Affairs and Northern De	large_yellow
7	00000202	SM335	NOR	Aboriginal Affairs and Northern De	large_yellow
8	00000222	WK192	NOR	Aboriginal Affairs and Northern De	large_yellow
9	00000264	NB002	NOR	Aboriginal Affairs and Northern De	large_yellow
0	00000267	NB008	NOR	Aboriginal Affairs and Northern De	large_yellow
1	00000272	NB015	NOR	Aboriginal Affairs and Northern De	large_yellow
2	00000278	NB028	NOR	Aboriginal Affairs and Northern De	large_yellow
3	00000281	NB033	NOR	Aboriginal Affairs and Northern De	large_yellow
4	00000290	NB049	NOR	Aboriginal Affairs and Northern De	large_yellow
5	00000293	NB054	NOR	Aboriginal Affairs and Northern De	large_yellow
6	00000308	SB020	NOR	Aboriginal Affairs and Northern De	large_yellow
7	00000315	WK022	NOR	Aboriginal Affairs and Northern De	large_yellow
8	00000322	WK060	NOR	Aboriginal Affairs and Northern De	large_yellow
9	00000324	WK062	NOR	Aboriginal Affairs and Northern De	large_yellow
0	00000374	NB006	NOR	Aboriginal Affairs and Northern De	large_yellow
1	00000384	WK202	NOR	Aboriginal Affairs and Northern De	large_yellow
2	00000406	WK106	NOR	Aboriginal Affairs and Northern De	large_yellow
3	00000421	3000086695	IIA	Aboriginal Affairs and Northern De	large_yellow
4	00000441	7000104295	IIA	Aboriginal Affairs and Northern De	large_yellow
5	00000444	3000106695	IIA	Aboriginal Affairs and Northern De	large_yellow
6	00000454	05011542(	IIA	Aboriginal Affairs and Northern De	large_yellow
7	00000474	09020996(	IIA	Aboriginal Affairs and Northern De	large_yellow
8	00000477	09021043(	IIA	Aboriginal Affairs and Northern De	large_yellow
9	00000488	09021136(	IIA	Aboriginal Affairs and Northern De	large_yellow

	A	B	C	D	E
1	Federal	Internal	DOB_Id	DOB_Name_EN	FT_Colour
59	00000917	0465-C014	DND	National Defence	large_green
60	00000940	0091-C006	DND	National Defence	large_green
61	00000990	0335-C025	DND	National Defence	large_green
62	00000992	0335-C027	DND	National Defence	large_green
63	00000994	0335-C029	DND	National Defence	large_green
64	00000995	0335-C030	DND	National Defence	large_green
65	00001007	0214-C001	DND	National Defence	large_green
66	00001008	0156-C001	DND	National Defence	large_green
67	00001009	0280-C016	DND	National Defence	large_green
17	00008340	0412-C042	DND	National Defence	large_green
18	00008350	0398-C010	DND	National Defence	large_green
19	00008354	0449-C064	DND	National Defence	large_green
20	00008363	0448-C017	DND	National Defence	large_green
21	00008364	0291-C003	DND	National Defence	large_green
22	00008365	0448-C018	DND	National Defence	large_green
23	00008395	0366-C016	DND	National Defence	large_green
24	00008396	0366-C017	DND	National Defence	large_green
25	00008398	0224-C022	DND	National Defence	large_green
26	00008408	0159-C029	DND	National Defence	large_green
27	00008450	0366-C020	DND	National Defence	large_green
28	00008460	0465-C020	DND	National Defence	large_green
29	00008465	0398-C017	DND	National Defence	large_green
30	00008472	0398-C018	DND	National Defence	large_green
31	00008474	0398-C020	DND	National Defence	large_green
32	00008495	0186-C001	DND	National Defence	large_green
33	00008501	0412-C046	DND	National Defence	large_green
34	00008522	0176-C027	DND	National Defence	large_green
35	00008523	0423-C003	DND	National Defence	large_green
36	00008544	0398-C022	DND	National Defence	large_green
37	00008550	0096-C003	DND	National Defence	large_green

	A	B	C	D	E
1	Federal ▾	Interna ▾	DOB_Id ▾	DOB_Name_EN ▾	FT_Colour ▾
58	00001051	PR C/24	RCM	Royal Canadian Mounted Police	large_blue
59	00001058	PR F/80	RCM	Royal Canadian Mounted Police	large_blue
56	00022271	PR K/40	RCM	Royal Canadian Mounted Police	large_blue
57	00022382	PR D/176	RCM	Royal Canadian Mounted Police	large_blue
58	00022390	PR D/199	RCM	Royal Canadian Mounted Police	large_blue
59	00022391	PR D/20	RCM	Royal Canadian Mounted Police	large_blue
60	00022423	PR D/68	RCM	Royal Canadian Mounted Police	large_blue
61	00022431	PR D/84	RCM	Royal Canadian Mounted Police	large_blue
62	00022453	PR F/124	RCM	Royal Canadian Mounted Police	large_blue
63	00022455	PR F/128	RCM	Royal Canadian Mounted Police	large_blue
64	00022463	PR F/140	RCM	Royal Canadian Mounted Police	large_blue
65	00022467	PR F/145	RCM	Royal Canadian Mounted Police	large_blue
66	00022500	PR F/232	RCM	Royal Canadian Mounted Police	large_blue
67	00022501	PR F/245	RCM	Royal Canadian Mounted Police	large_blue
68	00022508	PR F/26	RCM	Royal Canadian Mounted Police	large_blue
69	00022514	PR F/27	RCM	Royal Canadian Mounted Police	large_blue
70	00022527	PR F/3	RCM	Royal Canadian Mounted Police	large_blue
71	00022528	PR F/328	RCM	Royal Canadian Mounted Police	large_blue
72	00022557	PR F/56	RCM	Royal Canadian Mounted Police	large_blue
73	00022574	PR F/91	RCM	Royal Canadian Mounted Police	large_blue
74	00022583	PR K/113	RCM	Royal Canadian Mounted Police	large_blue
75	00022585	PR K/116	RCM	Royal Canadian Mounted Police	large_blue
76	00022591	PR K/126	RCM	Royal Canadian Mounted Police	large_blue
77	00022596	PR K/132	RCM	Royal Canadian Mounted Police	large_blue
78	00022603	PR K/142	RCM	Royal Canadian Mounted Police	large_blue
79	00022613	PR K/171	RCM	Royal Canadian Mounted Police	large_blue
80	00022616	PR K/180	RCM	Royal Canadian Mounted Police	large_blue
81	00022617	PR K/182	RCM	Royal Canadian Mounted Police	large_blue
82	00022618	PR K/183	RCM	Royal Canadian Mounted Police	large_blue

	A	B	C	D	E
1	Federal ▾	Interna ▾	DOB_Id ▾	DOB_Name_EN ⊤	FT_Colour ▾
89	00022904	00022904	MOT	Transport Canada	large_purple
90	00022908	00022908	MOT	Transport Canada	large_purple
20	00023477	00023477	MOT	Transport Canada	large_purple
26	00024086	00024086	MOT	Transport Canada	large_purple
27	00024087	00024087	MOT	Transport Canada	large_purple
28	00024089	00024089	MOT	Transport Canada	large_purple
36	00024672	00024672	MOT	Transport Canada	large_purple
37	00024677	00024677	MOT	Transport Canada	large_purple
45	00025774	00025774	MOT	Transport Canada	large_purple
38	05337003	05337003	MOT	Transport Canada	large_purple
39	05337004	05337004	MOT	Transport Canada	large_purple
59	08240001	08240001	MOT	Transport Canada	large_purple
60	09820056	09820056	MOT	Transport Canada	large_purple
61	09820058	09820058	MOT	Transport Canada	large_purple
84	20146009	20146009	MOT	Transport Canada	large_purple
85	20146023	20146023	MOT	Transport Canada	large_purple
89	N0017006	N0017006	MOT	Transport Canada	large_purple
90	N0281007	N0281007	MOT	Transport Canada	large_purple
91	N0281010	N0281010	MOT	Transport Canada	large_purple
92	N0281015	N0281015	MOT	Transport Canada	large_purple
93	N0281018	N0281018	MOT	Transport Canada	large_purple
94	N0281020	N0281020	MOT	Transport Canada	large_purple

37)   Double check to make sure all the rows in column E are filled in. The easiest way to do this is apply the filter, and check that column E's drop-down menu contains no blanks. If it does, they will have to be filled in with the appropriate coloured icons.

38)   Clear the filter, copy the table and paste it into a new file we'll call "TopFiveContaminatedSitesToBeAssessed.xlsx"

39)   Go to your Google Drive.

40) Import our new workbook into the Fusion Table.

T_markers	SiteNameEN	InvolvementType	InvolvementEN	Latitude	Longitude	EstCubicMe...	EstHectares...	EstTonsCont...	Pro
arge_yellow	THOMPSON-LUNDMARK MINE (WACO, KIM)	9	Other Canada Lands	62.606667	-113.465556	1100		0	
arge_yellow	CORONATION GULF	9	Other Canada Lands	67.828889	-115.006389	0	0	0	
arge_yellow	COPPERMINE/... LAKE	9						0	0
arge_yellow	CORONATION GULF #14	9	Other Canada Lands	67.831111	-115.000833	0	0	0	
arge_yellow	COPPERMINE/... LAKE #2	9	Other Canada Lands	67.448056	-117.199167	0	0	0	

Importing

Your rows are being imported

14%

TopTenContaminatedSitesforFT

sported at Thu Oct 16 20:55:27 PDT 2014 from TopTenContaminatedSitesforFT.xlsx
dited at 11:56 PM

ile Edit Tools Help   Rows 1 ▾   Cards 1   Map of Latitude

Filter ▾   No filters applied

◂◂ ◂ 1-100 of 906 ▸ ▸▸

ederalSiteIdentifier	InternalIdentifier	DOB_Identifier	DOB_Name_EN	FT_markers	SiteNameEN	InvolvementType	InvolvementEN	Latitude	Longitude	EstCubicMe...	EstHectares...	EstTonsCont...	ProtectedData	SiteDelete
00000017	SM293	NOR	Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	large_yellow	THOMPSON-LUNDMARK MINE (WACO, KIM)	9	Other Canada Lands	62.606667	-113.465556	1100	0	0	0	
00000020	WK054	NOR	Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	large_yellow	CORONATION GULF	9	Other Canada Lands	67.828889	-115.006389	0	0	0	0	
00000042	WK169	NOR	Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	large_yellow	COPPERMINE/... LAKE	9	Other Canada Lands	67.213333	-117.470556	0	0	0	0	
00000051	WK184	NOR	Aboriginal Affairs and Northern Development Canada (Northern Affairs Program)	large_yellow	CORONATION GULF #14	9	Other Canada Lands	67.831111	-115.000833	0	0	0	0	
00000062	WK209	NOR	Aboriginal Affairs and Northern	large_yellow	COPPERMINE/... LAKE #2	9	Other Canada Lands	67.448056	-117.199167	0	0	0	0	

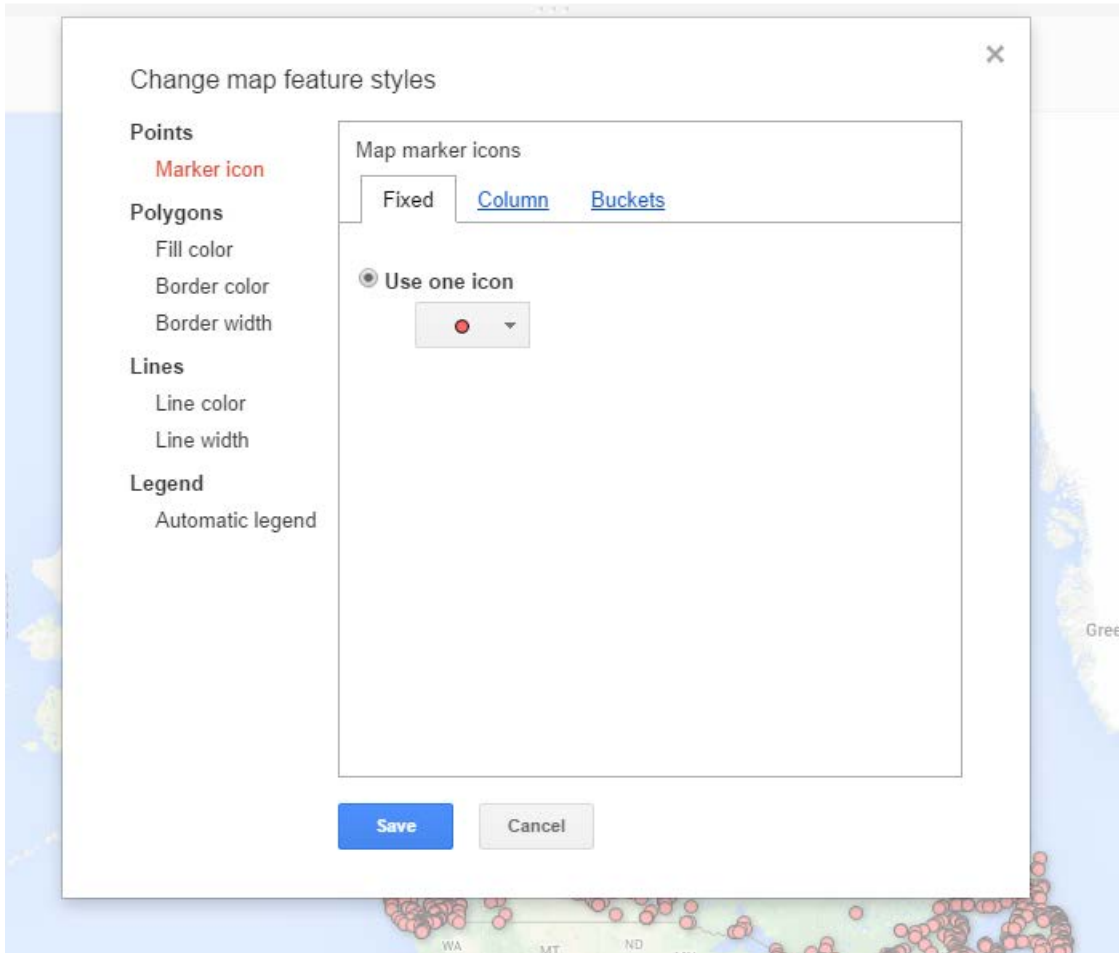41) Select the "Map of Latitude" tab to see the result.
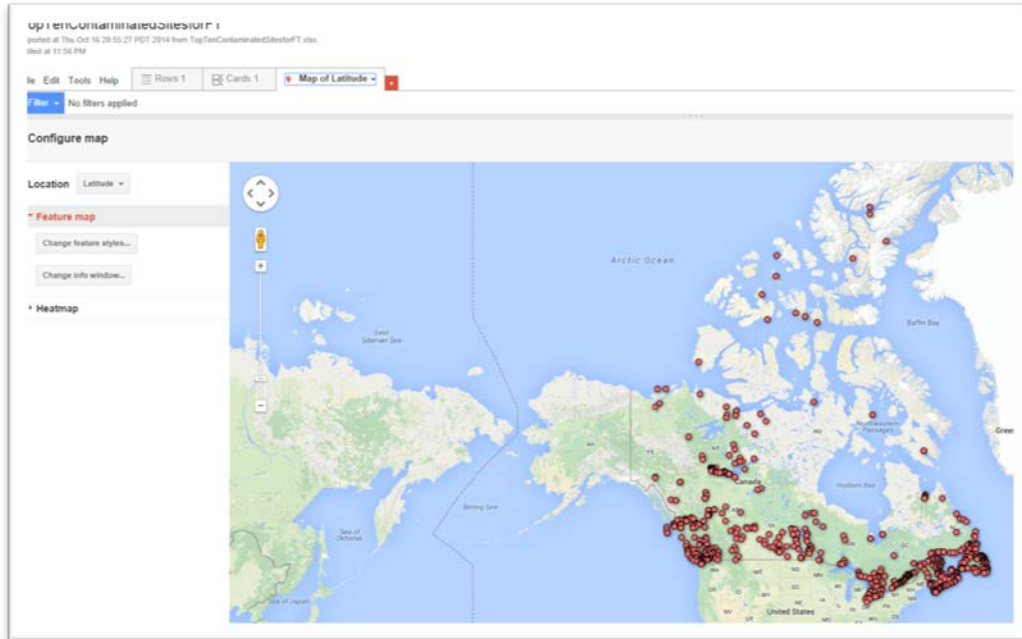
42) Now we'll have to get the Fusion Table to recognize the colours we've assigned to each department.

43) Select the "Change feature styles" tab.
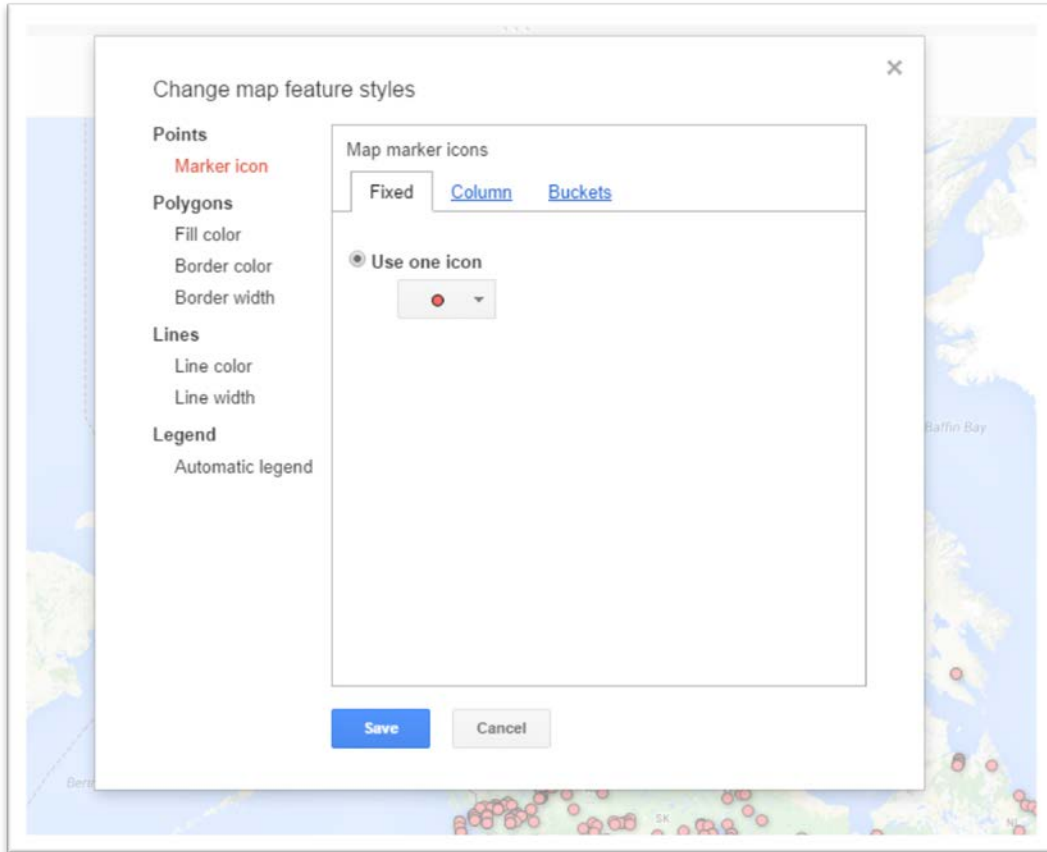
44)   The "Marker icon" section under the "Points" section.

45)   Select the "Column" tab, and then the column –
FT_markers" – that contains the icons.

Change map feature styles

Points
Marker icon

Polygons
Fill color
Border color
Border width

Lines
Line color
Line width

Legend
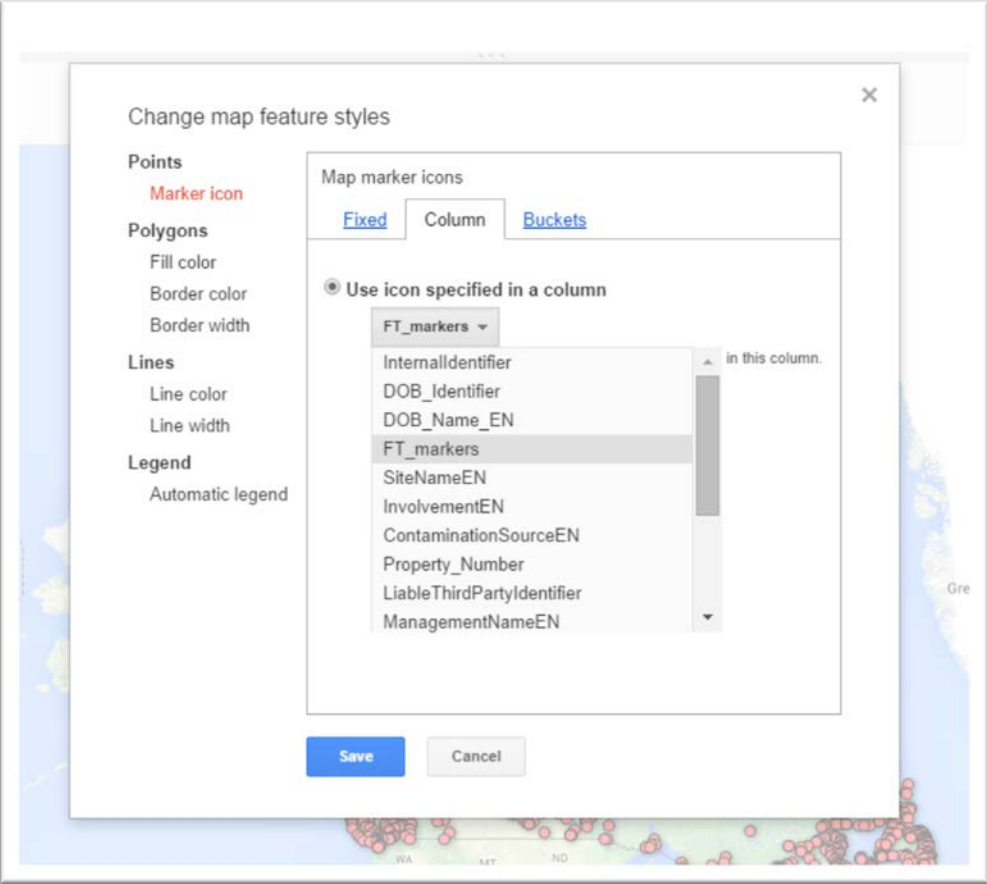Automatic legend

Map marker icons

Fixed   Column   Buckets

○ **Use icon specified in a column**

Select ▾

Each row should have a marker icon name specified in this column.
Example: large_red. Learn more

Save   Cancel

WA   MT   ND   MN

Change map feature styles

Points

Marker icon

Polygons

Fill color

Border color

Border width

Lines

Line color

Line width

Legend

Automatic legend

Map marker icons

<u>Fixed</u>   Column   <u>Buckets</u>

◉ **Use icon specified in a column**

FT_markers ▾

InternalIdentifier
DOB_Identifier
DOB_Name_EN
FT_markers
SiteNameEN
InvolvementEN
ContaminationSourceEN
Property_Number
LiableThirdPartyIdentifier
ManagementNameEN

in this column.

Save   Cancel

46)   Save the result.

47) Click on one of the icons to read the contents in the pop-up box.
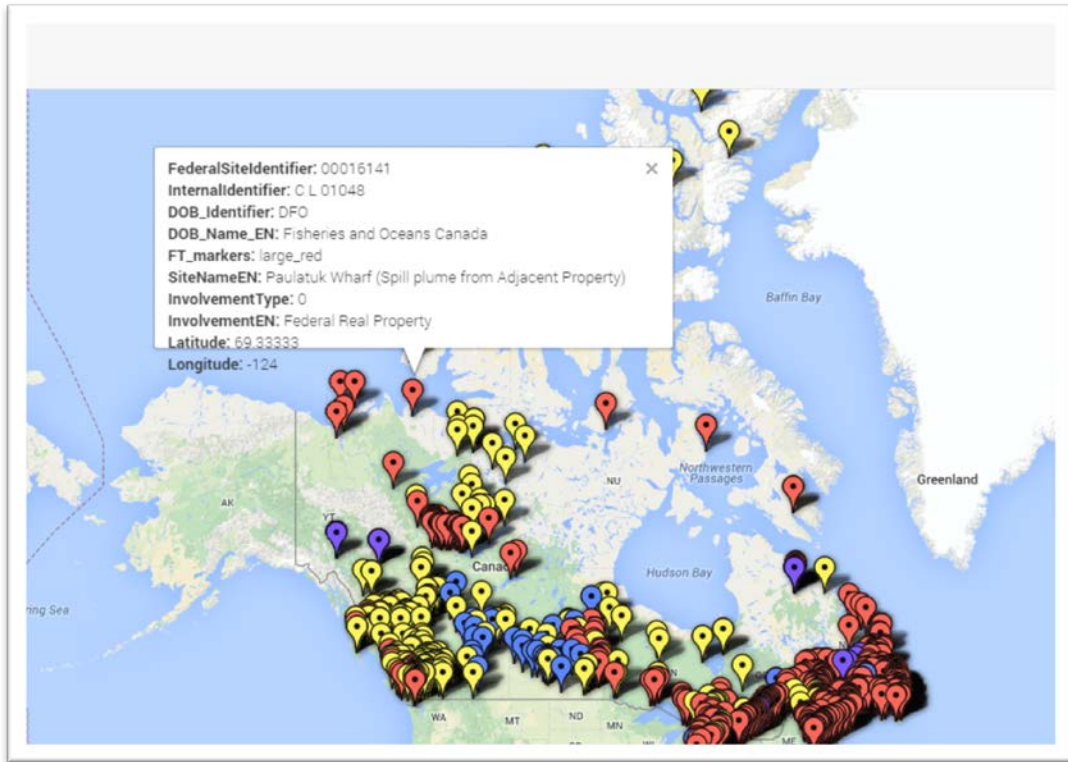
48) It's too busy!!! Click on the "Change info window" tab to de-select the information we don't need.
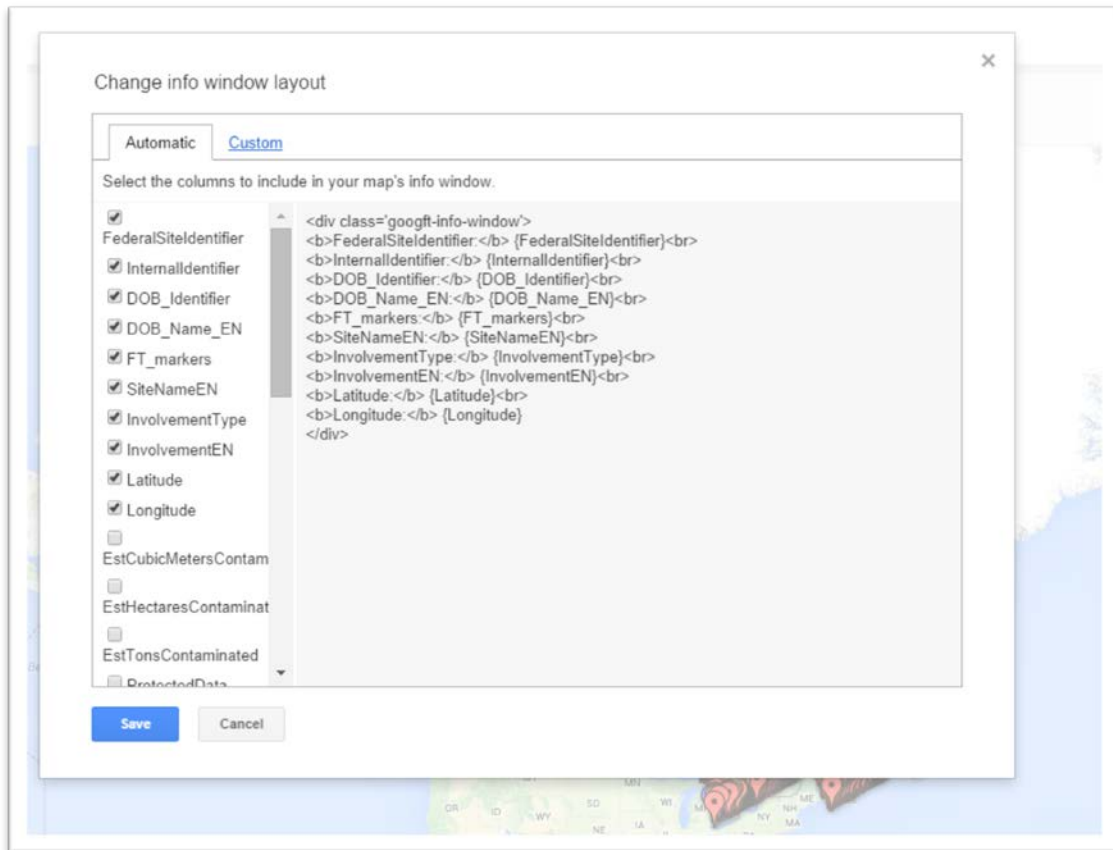
49)   Let's stick with two columns: the department "DOB_Name_EN" and "SiteNameEN".
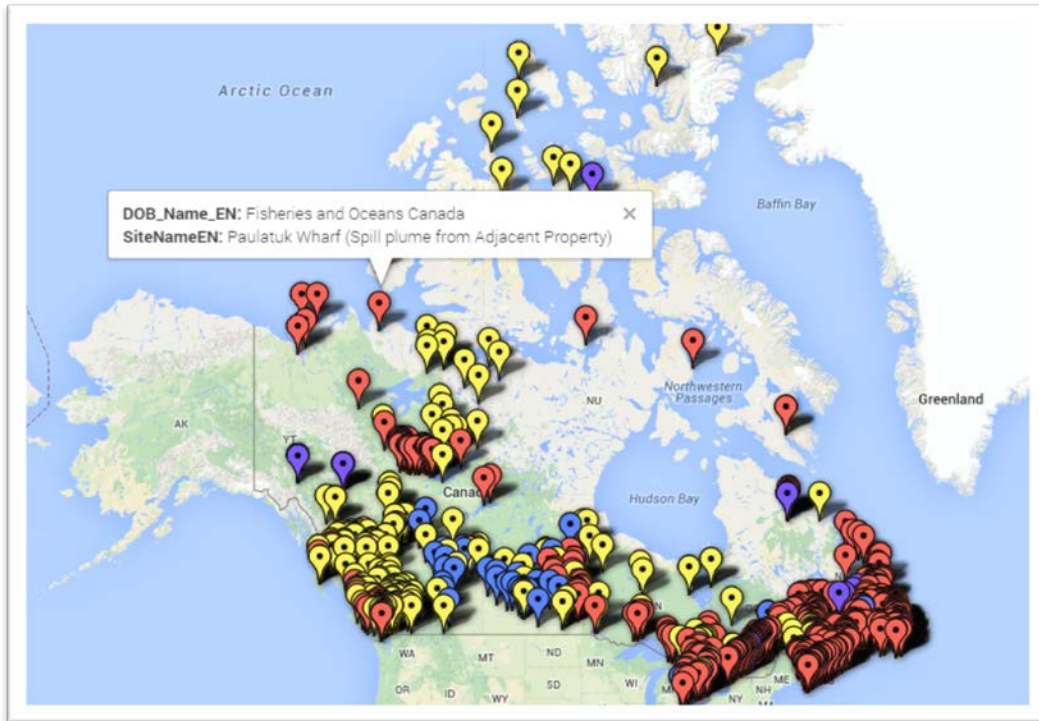
50)   You could also Select the "ContaminationSourceEN" field, which describes the nature of the site: landfill, industrial, military site, etc.

51)   If you wanted to create a map with one department, you can simply filter the map by selecting the "Filter" option from the menu at the top, selecting the column you want to filter – just like

in Excel – which in this case is the "FT_markers".
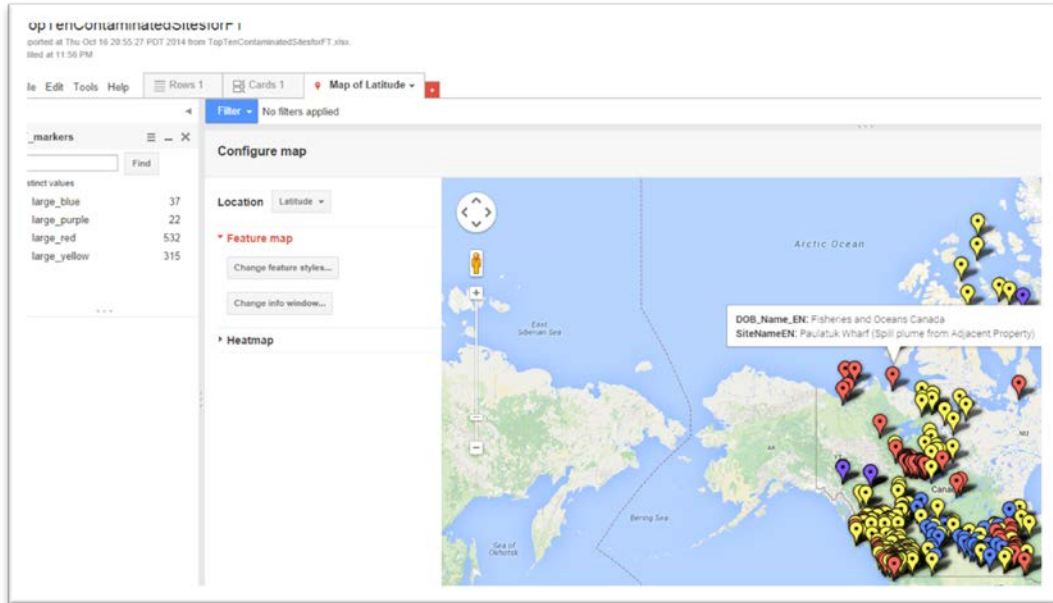
52)   Choose the top department.
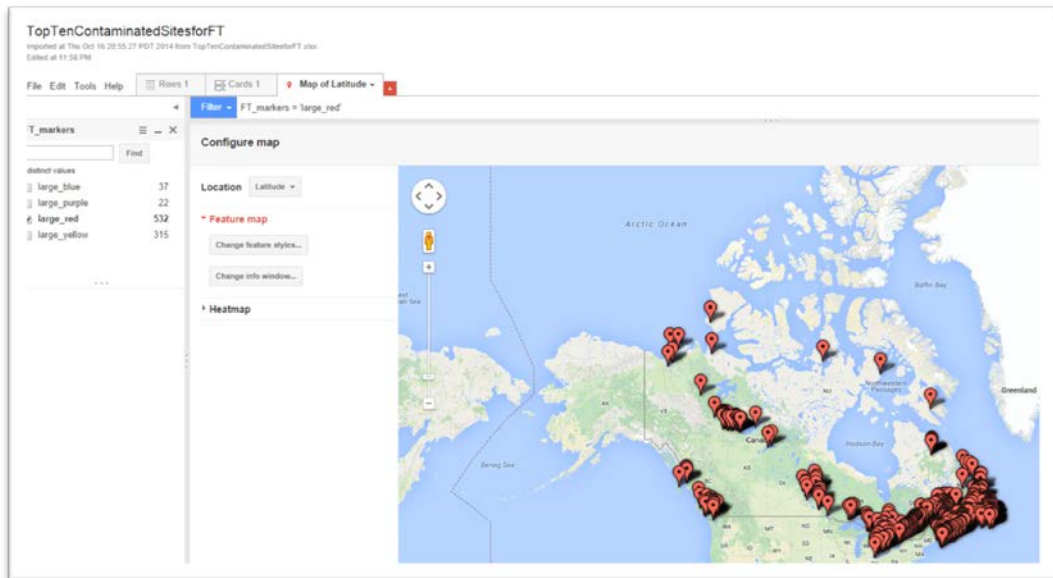
53)   Since we want people to select from all departments, let's clear the filter and share the result.

Sharing settings

Link to share (only accessible by collaborators)

https://www.google.com/fusiontables/DataSource?docid=1ISxey4M6xi-QRMazCFEOl

Who has access

🔒 Private - Only you can access   Change...

👤 David McKie (you) david.mckie@cbc.ca   Is owner

Invite people:

Enter names or email addresses...

Editors will be allowed to add people and change the permissions. [Change]

Done

Link sharing

◯ 🌐 **Public on the web**
Anyone on the Internet can find and access. No sign-in required.

◉ 👤 **Anyone with the link**
Anyone who has the link can access. No sign-in required.

◯ 🏢 **CBC Radio-Canada**
People at CBC Radio-Canada can find and access.

◯ 🏢 **People at CBC Radio-Canada with the link**
People at CBC Radio-Canada who have the link can access.

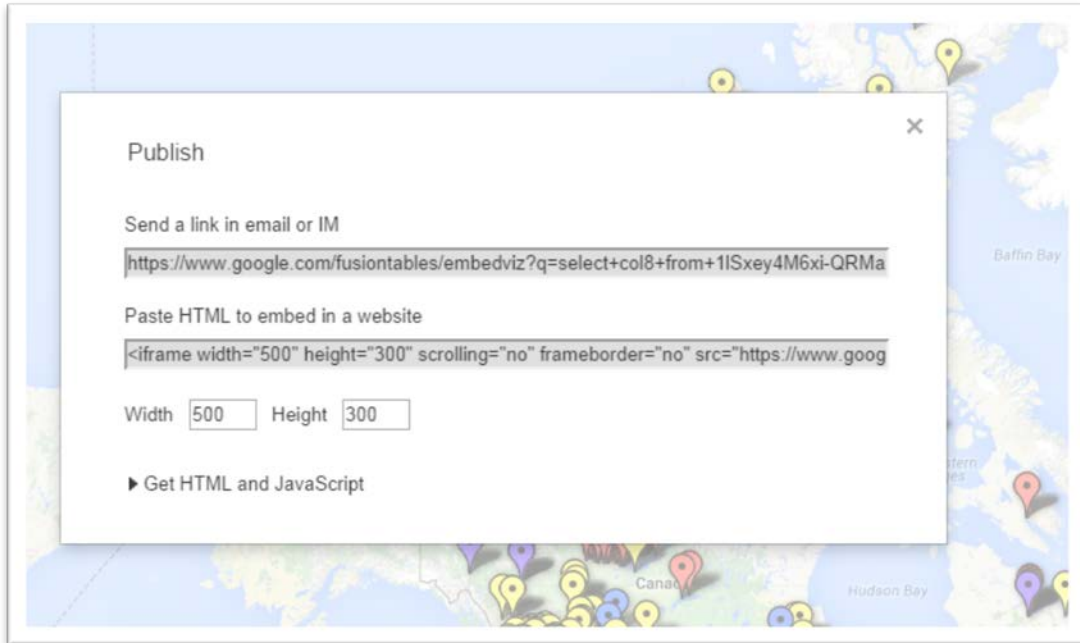◯ 👥 **Specific people**
Shared with specific people.

Access: Anyone (no sign-in required)   Can view

[Save]   [Cancel]
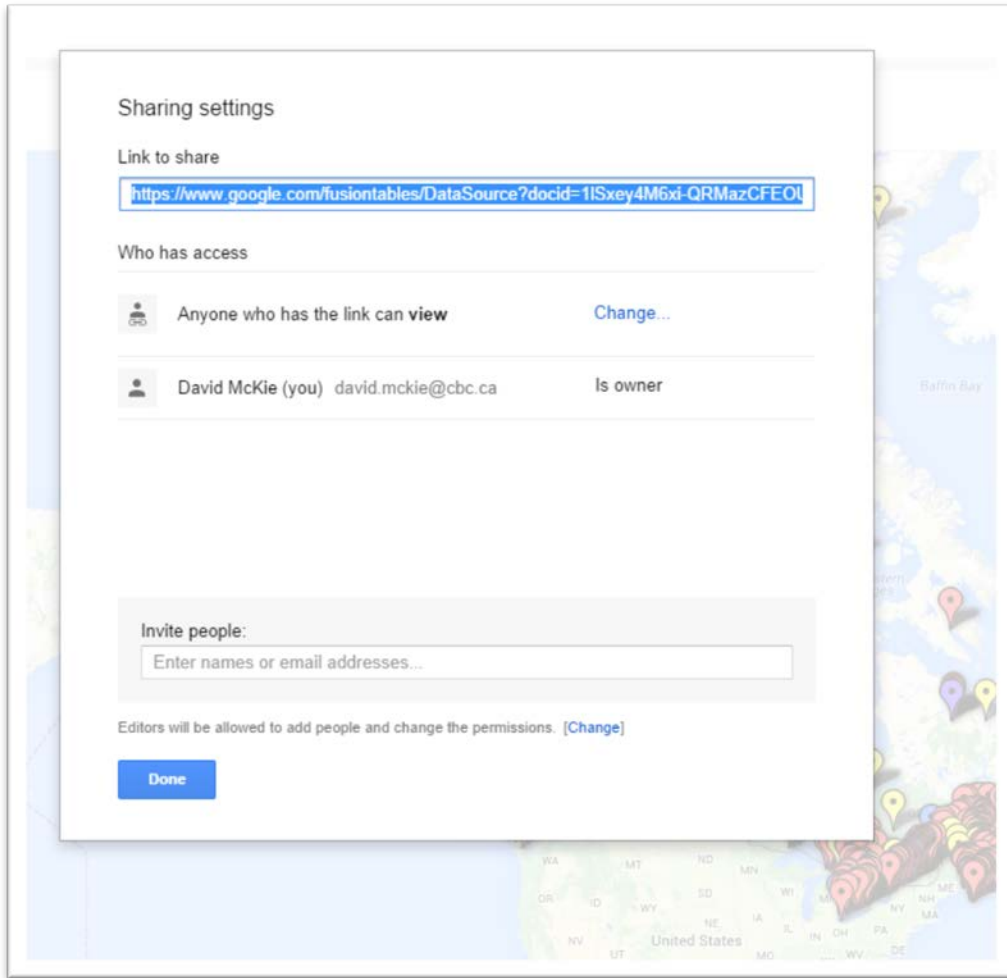
54) To get the embed code, go to "Tools"…
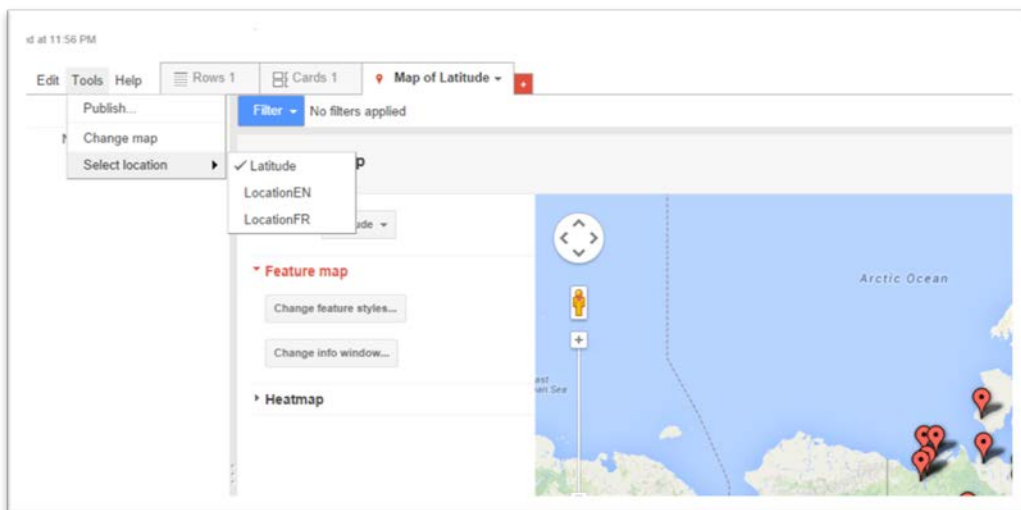
55)   …and "Publish".

56)   If you're happy with the dimensions, highlight the code in the bottom triangle and paste it into your Wordpress HTLM view.