Message

From: Tadesse, Haile [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=114D2E5F74BF4C958EFF767E15479552-TADESSE, HA]
Sent: 9/9/2019 5:33:11 PM
To: Washington, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fdc3e8ce9f1d45c4894881ff420ca104-Washington, John]
CC: Drew Pilant Ex. 6 Personal Privacy (PP)
Subject: RE: Updated data

Hi John,

For the IDW analysis, we can's use the lat/long and we have to project to UTM or NJ plane. Distance calculations based on lat/long has some assumption and may not be correct (https://www.thoughtco.com/degree-of-latitude-and-longitude-distance-4070616).

How proximity tools calculate distance (https://pro.arcgis.com/en/pro-app/tool-reference/analysis/how-near-analysis-works.htm)
How distance is defined
The distance between any two features is calculated as the shortest separation between them, that is, where the two features are closest to each other. This logic is applied by any geoprocessing tool that calculates distance, including tools such as Near, Generate Near Table, and Spatial Join (with CLOSEST match option).
Distance measurements will be most accurate when your input data is in an equidistance projected coordinate system. While distance calculations can always be performed regardless of coordinate system, the results may be inaccurate or even meaningless when your data is in a geographic coordinate system or an improperly selected projected coordinate system.

From: Washington, John <Washington.John@epa.gov>
Sent: Monday, September 9, 2019 12:24 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Drew Pilant Ex. 6 Personal Privacy (PP)
Subject: Re: Updated data

Hi Haile and Drew,

I suspect you both are better judges of the best way to calculate the distances. So do you think UTM, NJ plane or NAU is the best set of numbers?

Thanks,
John

From: Tadesse, Haile <tadesse.haile@epa.gov>
Sent: Monday, September 9, 2019 12:00 PM
To: Washington, John <Washington.John@epa.gov>
Cc: Drew Pilant < Ex. 6 Personal Privacy (PP) >
Subject: RE: Updated data

Hi John,

I have attached the updated distance values. The inverse distance (IDW) calculations are based on projected coordinates. I think it is better to use UTM or NJ State plane projection for IDW analysis and the distance calculations

from Solvay and Chemours. As you can see, the distance calculated using UTM and State plane are very close to your distance calculations using NAU (Northern Arizona University) method.

Lets talk at 1:30 PM for additional discussion.

Best,

Haile

From: Washington, John <Washington.John@epa.gov>
Sent: Monday, September 9, 2019 10:33 AM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Drew Pilant <Ex. 6 Personal Privacy (PP)>
Subject: Re: Updated data

Great Haile,

Ex. 5 Deliberative Process (DP)

How about if I call you at 1:30 PM at your 0125 number.

John

From: Tadesse, Haile <tadesse.haile@epa.gov>
Sent: Monday, September 9, 2019 10:21 AM
To: Washington, John <Washington.John@epa.gov>
Cc: Drew Pilant <Ex. 6 Personal Privacy (PP)>
Subject: RE: Updated data

Good morning John,

Ex. 5 Deliberative Process (DP)

Glad to have the updated soil data and I will do the analysis using the new data.

Haile

From: Washington, John <Washington.John@epa.gov>
Sent: Monday, September 9, 2019 10:13 AM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Subject: Re: Updated data

Hi Haile,

I also have the last (I think) update to the soil ClPFPECA data -- I just addressed QA review by Brittany Stuart. Sample 1 has a few changed values, but otherwise the values remain the same.

Ex. 5 Deliberative Process (DP) Other than the 3 PM meeting with Tim Buckley et al. I am available. It would be great to get this resolved so that all our data for the paper can be recorded in a single Excel file.

Let me know if you have a time to talk!

John

From: Washington, John <Washington.John@epa.gov>
Sent: Friday, September 6, 2019 5:08 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Subject: Re: Updated data

Here is my current spreadsheet.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Once we agree on all the distances, and I can go over the ClPFPECA QA review, I can redo my graphs.

Happy weekend Haile!
John

From: Washington, John <Washington.John@epa.gov>
Sent: Friday, September 6, 2019 4:58 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Subject: Re: Updated data

Hey Haile,

Ex. 5 Deliberative Process (DP)

Here is an image of my values and yours:

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

John

From: Tadesse, Haile <tadesse.haile@epa.gov>
Sent: Friday, September 6, 2019 4:37 PM
To: Washington, John <Washington.John@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: RE: Updated data

Hi John,

Ex. 5 Deliberative Process (DP)

Best,

Haile

From: Washington, John <Washington.John@epa.gov>
Sent: Friday, September 6, 2019 4:03 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: Re: Updated data

Great thanks Haile.

I am doing that too.

Ex. 5 Deliberative Process (DP)

From: Tadesse, Haile <tadesse.haile@epa.gov>
Sent: Friday, September 6, 2019 3:55 PM
To: Washington, John <Washington.John@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: RE: Updated data

Hi John,

I have attached distance and concentration graph for your review.

Nice weekend.

Haile

From: Washington, John <Washington.John@epa.gov>
Sent: Friday, September 6, 2019 3:19 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: Re: Updated data

This is great Haile! I already had calculated distances as well so this will be a great mutual check. Thanks very much!

From: Tadesse, Haile <tadesse.haile@epa.gov>
Sent: Friday, September 6, 2019 2:19 PM

To: Washington, John <Washington.John@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: RE: Updated data

Hi John,

I checked the lat/long of Industry stacks using Google earth and the values you have are correct. I also calculated the distance from each facility using GIS and I have attached the results.

Best,

Haile

From: Washington, John <Washington.John@epa.gov>
Sent: Wednesday, September 4, 2019 8:43 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: Updated data

Hi Haile,

I am attaching the most up-to-date data for soils PFAS that I know of.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

I just received an email from our QA person that she might have the soil ClPFPECA data QA'd this week or next week. I will keep you posted on this.

Thanks!

John

From: Washington, John <Washington.John@epa.gov>
Sent: Wednesday, September 4, 2019 2:45 PM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: Re: Introduction to GeoPlatform PFAS maps and brainstorm - email 2 of 2

Hi Haile,

Thanks for your time on the phone today.

As I mentioned, I understand that you probably have other pressing obligations/objectives, so I appreciate you entertaining trying to move the NJ mapping effort along during September. And I understand if other obligations preclude this.

So here are my thoughts (open to suggestions):

Ex. 5 Deliberative Process (DP)

Please do not hesitate to call me at all. It would be great if we can bang out a nice draft in September!

John

From: Washington, John
Sent: Tuesday, September 3, 2019 8:31:47 AM
To: Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Pilant, Drew <Pilant.Drew@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Subject: FW: Introduction to GeoPlatform PFAS maps and brainstorm - email 2 of 2

Hi Haile,

Do you have time to talk today? I have a meeting that will take my time from 12:45 until 2:15, but otherwise I am open.

John

From: Washington, John
Sent: Tuesday, September 3, 2019 8:29 AM
To: Buckley, Timothy <Buckley.Timothy@epa.gov>
Cc: Schumacher, Brian <Schumacher.Brian@epa.gov>; Tadesse, Haile <tadesse.haile@epa.gov>; Pilant, Drew <Pilant.Drew@epa.gov>
Subject: FW: Introduction to GeoPlatform PFAS maps and brainstorm - email 2 of 2

Hi Tim,

In response to your request, attached are recent working maps for New Jersey generated by Haile Tadesse. They are getting closer to our final product.

John

From: Tadesse, Haile <tadesse.haile@epa.gov>
Sent: Thursday, June 27, 2019 4:07 PM
To: Washington, John <Washington.John@epa.gov>; Pilant, Drew <Pilant.Drew@epa.gov>
Cc: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>
Subject: RE: Introduction to GeoPlatform PFAS maps and brainstorm

Dear All,

I have attached the modified maps for the soil data for your review. Please also verify the geographic coordinates for the water samples and let me know.

Best,

Haile

From: Washington, John
Sent: Wednesday, June 19, 2019 3:17 PM
To: Pilant, Drew <Pilant.Drew@epa.gov>; Tadesse, Haile <tadesse.haile@epa.gov>
Cc: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>
Subject: RE: Introduction to GeoPlatform PFAS maps and brainstorm

Hi Haile and Drew,

I am attaching Mark and James' NJ water ClPFPECA data (from Kate Sullivan's draft NJ report) and the lat/long data (NJ sent me).

Ex. 5 Deliberative Process (DP)

Haile don't feel pressure to process these water data for Monday unless you feel so inspired.

For general interest, I am attaching a News article from the journal Nature on nontargeted analyses for novel perfluoros, quoting Mark!

John

From: Pilant, Drew
Sent: Wednesday, June 19, 2019 3:04 PM
To: Washington, John <Washington.John@epa.gov>
Subject: RE: Introduction to GeoPlatform PFAS maps and brainstorm

Sounds good, John. Is Monday too soon for Haile to update his NJ maps?

-----Original Appointment-----
From: Washington, John
Sent: Wednesday, June 19, 2019 3:03 PM
To: Pilant, Drew
Cc: Lindstrom, Andrew
Subject: Accepted: Introduction to GeoPlatform PFAS maps and brainstorm
When: Monday, June 24, 2019 11:00 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: D340L

Hey Drew,
I am hoping we can spend most of this time on New Jersey unless it turns out to be easy. I am working intensively on a draft manuscript that I hope will include a version of this map and you as authors. I plan to send Haile and you Mark Strynar and James McCord's New Jersey water ClPFPECA data, as well as the lat/long NJ has reported for these samples. I just got off the phone with Mark and he is agreeable to all of this.

Thanks!
John