From: Cada, Peter
To: Jessup, Benjamin; John, Forrest
Subject: RE: NM Catchment files
Date: Friday, December 13, 2013 10:55:14 AM
Attachments: imaae007.png
imaae008.png
imaae009.png
imaae010.png

I am available now, or anytime today until 4pm EST.

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From: Jessup, Benjamin
Sent: Friday, December 13, 2013 11:53 AM
To: John, Forrest; Cada, Peter
Subject: RE: NM Catchment files

I am around now also. Peter, I do not understand all the ins and outs of the problems you are seeing and would benefit from a call to discuss. Should we all conference now or does Forrest want to wait until Peter and I have a plan? If now works, I can do a quick conference.

Ben

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From: John, Forrest [mailto:John.Forrest@epa.gov]
Sent: Friday, December 13, 2013 11:16 AM
To: Cada, Peter; Jessup, Benjamin
Subject: RE: NM Catchment files

Peter –

Thank you. So that you know, I am not a GIS person per se…I know just enough to communicate with people like you and the GIS folks here in the regional office. So, I think it would helpful if we could convene sometime next week and walk through the details and decide what needs to be revised. We have a call scheduled for next Wednesday and perhaps this might be a good opportunity to go over this information. I or Ben can arrange for a webinar style connection allowing us to display the information. I will get with Ben on Monday to discuss.

Cheers

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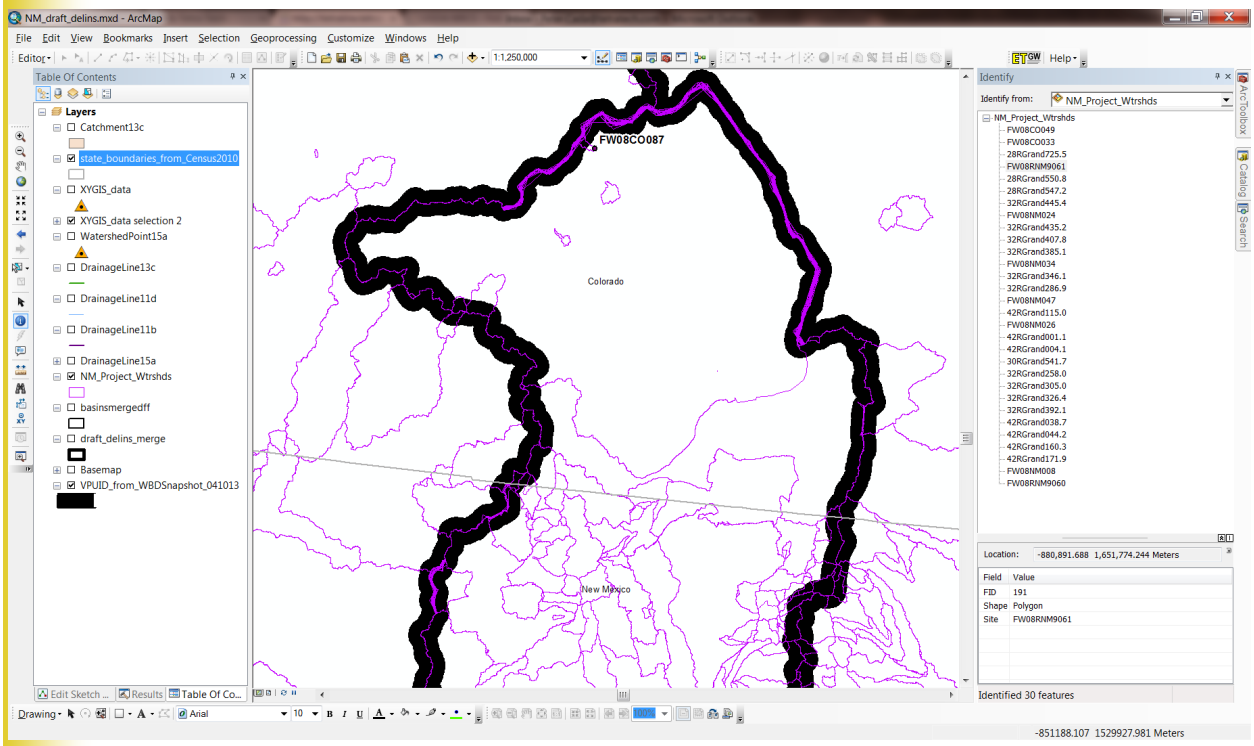
"In every free and deliberating society, there must, from the nature of man, be opposite parties and...dissensions and discords;..." ~ Thomas Jefferson, 1798

From: Cada, Peter [mailto:Peter.Cada@tetratech.com]
Sent: Friday, December 13, 2013 9:48 AM
To: John, Forrest; Jessup, Benjamin
Subject: RE: NM Catchment files

Forrest – thanks for the note. As I mentioned I will spend just a little more time exploring things while we wait for Ben's return. FYI, the extent of the major 'errors' I identified yesterday are somewhat limited. One more screenshot for now ((notice there is another shorter section of "noise" on the western edge of this group of watersheds within New Mexico directly left of the New Mexico label).

Regards,
Peter

p.s. I just shared your Teddy Roosevelt quote with my wife who has a big career decision to make in the next few days. Timely and appropriate!



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From: John, Forrest [mailto:John.Forrest@epa.gov]

Sent: Thursday, December 12, 2013 3:21 PM
To: Cada, Peter; Jessup, Benjamin
Subject: RE: NM Catchment files

Peter –

Thank you for the overview. Upon Ben's return to the office, we can convene and discuss your QA review and we can then decide how we will proceed.

Cheers

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From: Cada, Peter [mailto:Peter.Cada@tetratech.com]
Sent: Thursday, December 12, 2013 2:09 PM
To: John, Forrest; Jessup, Benjamin
Subject: RE: NM Catchment files

Hi Forrest,

Good news is that there is significant improvement. Most of the delineations that overlap with ones I had done in the past for the same point line up, if not exactly, very close. Not having the points in GIS that were used by the recent efforts limits my ability in some areas to QAQC all delins.

Bad news is that there was some noticeable differences in some of the outputs for nested watersheds' upper boundaries (in this case, 31 watersheds having slightly different boundaries for a part of their overall "upper watershed boundaries".

The screenshot below highlights an example area of both the good/bad news. My guess is that the setting used to create the outputs that are a part of the bad news known as "simplify polygons" was "turned on". This would result in the GIS (or ArcHydro) to smooth each polygon output's boundaries (usually uses a 'spline' method, as default) in a unique way that would produce something like in the screen shot below.

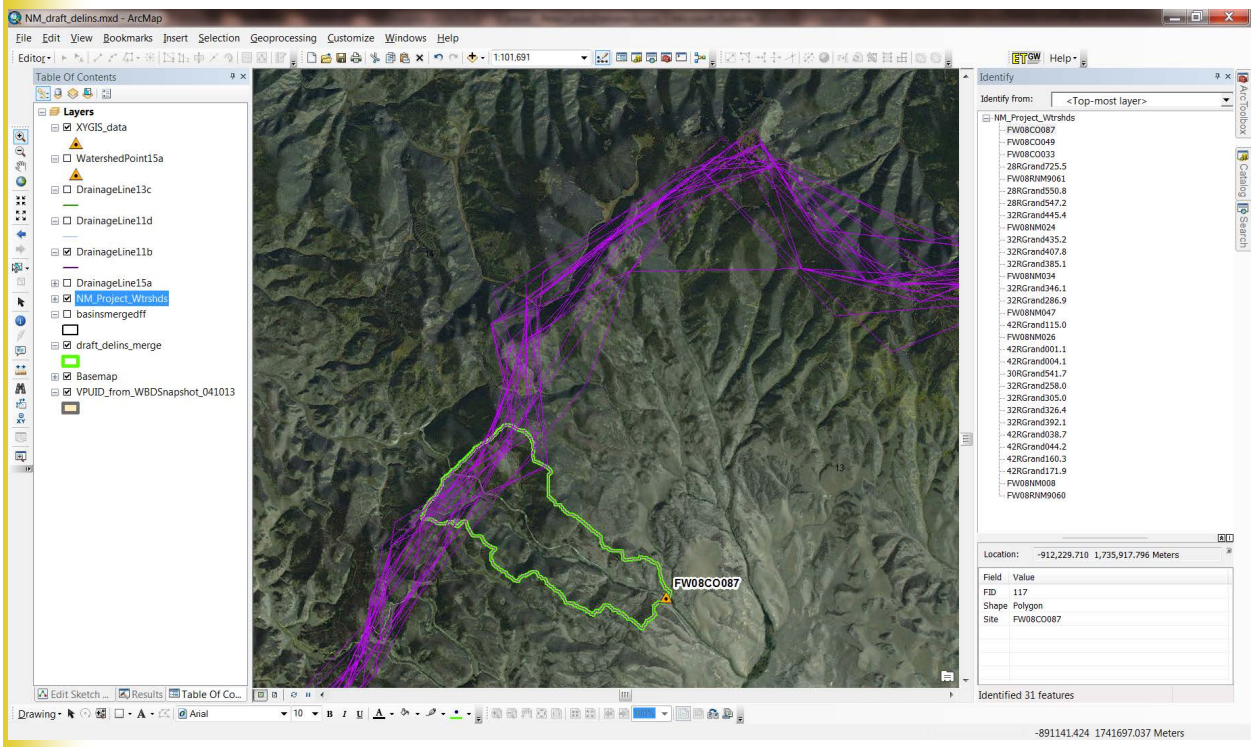
The second screen shot below shows an area further to the WSW from the first screenshot where these boundaries are for the most part in much more 'agreement' (black lines are my delin outputs I have been using for comparisons). I am unsure how this simplification of polygons could happen only to some parts of a polygon's output. I would need to review the full stream of methods followed to decipher exactly how and at what step(s) this occurred.

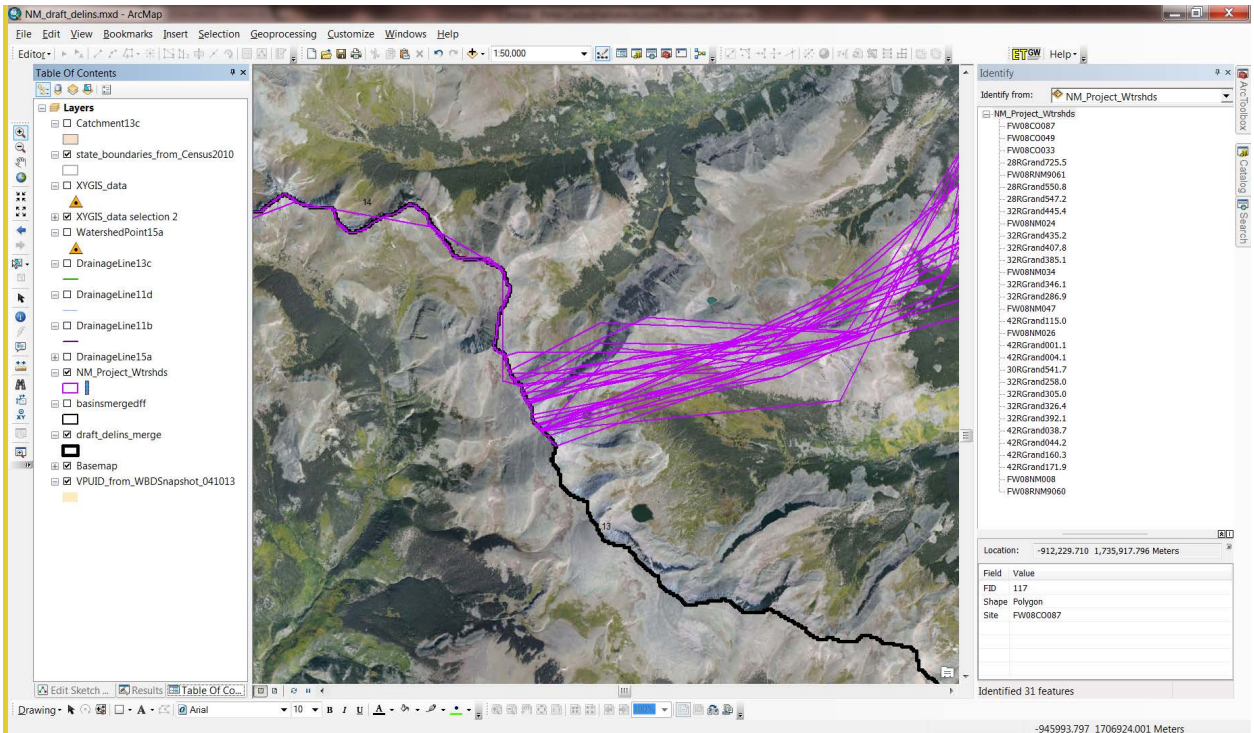
Neutral News – over the larger extent of the project I think that the differences/errors/inconsistencies may not be significant concern that needs to be addressed/fixed. See 3rd screen shot (again, where black lines are my delin outputs I have been using for comparisons) below for the full extent of ALL the watersheds used in the first two screen shots. While I would think that the 'relatively' minor differences that can be seen in both of the first two screen shots may not impact the overall outcome of subsequent analyses, I must admit that is less than ideal, and am unsure where else this sort of issue may have occurred. I can take more time to investigate but wanted to send along this preliminary review for you to see, and consider.

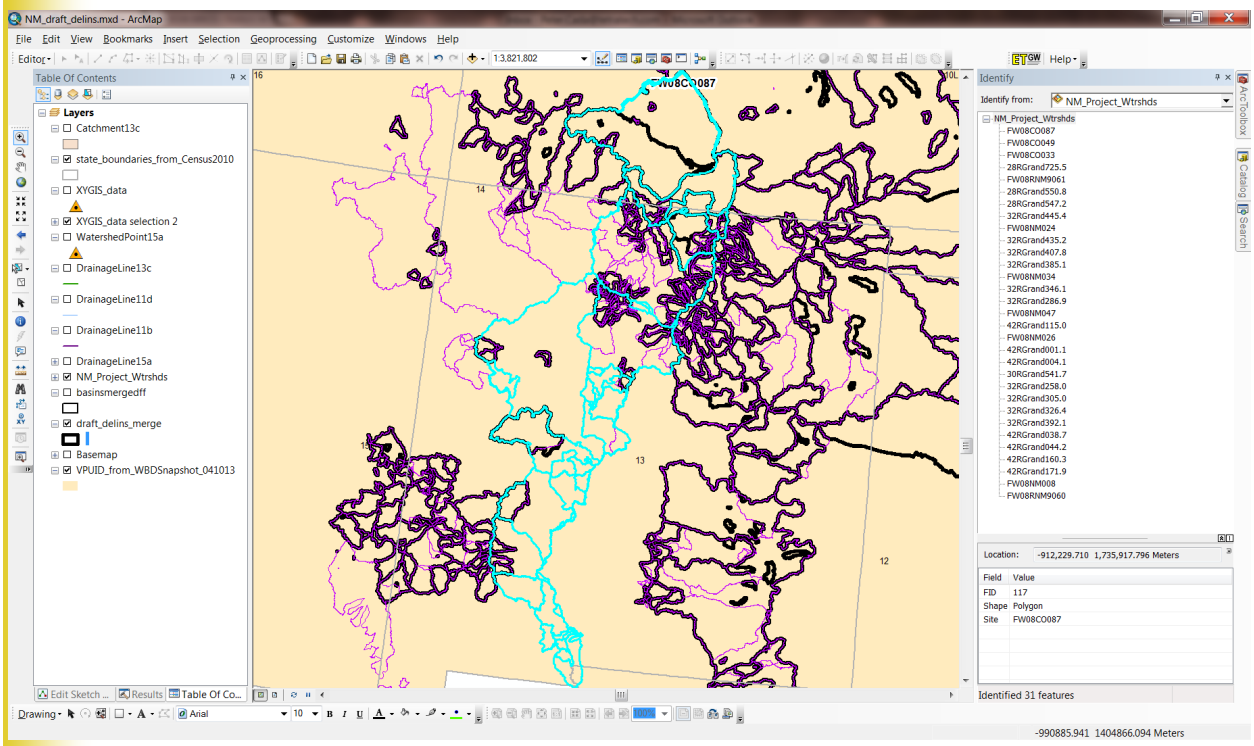
As always, feel free to give me a call or email with additional questions/requests.

I am going to 'zoom around' some more to see if there are any concerns for me.

Peter







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From: John, Forrest [mailto:John.Forrest@epa.gov]
Sent: Thursday, December 12, 2013 1:11 PM
To: Cada, Peter; Jessup, Benjamin
Subject: RE: NM Catchment files

Peter –

Please apprise me of any problems that you should find in the catchment delineations so that we can resolve as quickly as possible.

Cheers

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From: Cada, Peter [mailto:Peter.Cada@tetratech.com]
Sent: Wednesday, December 11, 2013 2:13 PM
To: Jessup, Benjamin
Cc: John, Forrest
Subject: RE: NM Catchment files

Thanks, Ben. I will start looking at things tomorrow morning first thing. Today just was diversions day....Hope all is well.

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From: Jessup, Benjamin
Sent: Wednesday, December 11, 2013 9:38 AM
To: Cada, Peter
Cc: 'Forrest John ' (john.forrest@epa.gov)
Subject: FW: NM Catchment files

Hi Peter;
Here is some information from Forrest about the delineations. Since I am in meetings all day, you could interact with him directly with any questions.
First steps would be to look over the delineations to see if they make sense. Then resolve any issues. Then move forward with the analysis.
Thanks!
Ben

From: John, Forrest [mailto:John.Forrest@epa.gov]
Sent: Tuesday, December 10, 2013 12:45 PM
To: Jessup, Benjamin
Subject: NM Catchment files

Ben –

I was able to load two catchment zip files to the Tt ftp site. The zip file "nm_watersheds.zip," which doesn't separate the catchment by production units, was loaded last Thursday. However, the second file "nm_watershed_by_prod_unit.zip," separating the catchments by production unit (which may make it easier during the analysis), was loaded today.

Cheers

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