STATE OF NORTH CAROLINA

IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION 18 CVS 014001

COMMON CAUSE, et al.,

COUNTY OF WAKE

Plaintiffs,

v.

DAVID LEWIS, IN HIS OFFICIAL CAPACITY AS SENIOR CHAIRMAN OF THE HOUSE SELECT COMMITTEE ON REDISTRICTING, et al.,

Defendants.

PLAINTIFFS' OPPOSITION
TO LEGISLATIVE
DEFENDANTS' MOTION
TO EXCLUDE FILES AND
MATERIALS PRODUCED
BY STEPHANIE LIZON

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INTRODUCTION

The Court should deny Legislative Defendants' motion to exclude, both for the reasons explained in Plaintiffs' motion in limine to admit the relevant Hofeller files and for the additional reasons explained below. Plaintiffs can readily establish authentication and chain of custody for the relevant Hofeller files, and the testimony of Plaintiffs' experts about those files properly rebuts the opinions offered by Legislative Defendants' experts. Although Legislative Defendants complain that they have not had long enough to review the Hofeller files, they are accountable for the delay in the files being made available. All of these files are public records under state law and Dr. Hofeller's contract to draw the 2017 Plans, and Legislative Defendants are responsible for failing to ensure that the records were made public in August 2017 when they should have been. Moreover, Legislative Defendants have had the files for nearly two months, and they would have had these particular files months earlier had they been willing to accept them while litigating the copying of personal files. In any event, Legislative Defendants attached to their motion in limine a rebuttal report by their expert Dr. Johnson analyzing the Hofeller files. Although that report is untimely, to eliminate any conceivable claim of unfairness, Plaintiffs will not object to testimony by Dr. Johnson based on that late-filed expert report.

To aid the Court in its evaluation of this motion and Plaintiffs' own motion *in limine*, Plaintiffs attach in Exhibits 1 and 2 images from the specific Hofeller which Plaintiffs' experts relied upon and which Plaintiffs will seek to introduce into evidence at trial.

ARGUMENT

I. Plaintiffs Have Adequately Established Authenticity and Chain of Custody for the Relevant Hofeller Files Relied Upon by Plaintiffs' Experts

Legislative Defendants argue that "the chain of custody of the Hofeller documents is in doubt, as is their authenticity." Mot. to Exclude at 12. But Legislative Defendants notably do

not address the relevant Rules of Evidence, legal standards, or case law to support their position that the relevant files should be excluded for authenticity or chain of custody reasons. For good reason: the relevant rules, legal standards, and case law make clear that Plaintiffs can sufficiently establish authenticity and chain of custody to admit the relevant Hofeller files at trial.

With respect to authenticity, "the burden to authenticate under Rule 901 is not high—only a prima facie showing is required." *State v. Ford*, 245 N.C. App. 510, 519, 782 S.E.2d 98, 105 (2016) (quoting *United States v. Hassan*, 742 F.3d 104, 133 (4th Cir. 2014)). "Indeed, the prima facie showing may be accomplished largely by offering circumstantial evidence that the documents in question are what they purport to be." *Id.* Circumstantial and other evidence that the proponent may offer to authenticate materials include "[t]estimony that a matter is what it is claimed to be," and "[a]ppearance, contents, substance, internal patterns, or other distinctive characteristics, taken in conjunction with circumstances." N.C. R. Evid. 901(b)(2),(4).

As for chain of custody, "[a] detailed chain of custody need be established only when the evidence offered is not readily identifiable or is susceptible to alteration and there is reason to believe that it may have been altered." *State v. Snead*, 368 N.C. 811, 815, 783 S.E.2d 733, 737 (2016) (internal quotation marks omitted). Even where establishing chain of custody is necessary, "any weak links in a chain of custody relate only to the weight to be given evidence and not to its admissibility." *Id.* (internal quotation marks omitted); *accord McLean v. Mech.*, 116 N.C. App. 271, 279, 447 S.E.2d 459, 463 (1994).

Here, Plaintiffs have easily met their burden to establish prima facie authenticity of the relevant Hofeller files relied. To the extent demonstrating chain of custody is even necessary, see id., Plaintiffs have done so through evidence including the testimony of Ms. Hofeller and the

attached affidavit of Jon Matthews from Plaintiffs' vender Stroz Friedberg. If necessary, Mr. Matthews can also testify at trial to establish chain of custody.

A. Plaintiffs Have Established Authenticity

Plaintiffs' own motion in limine to admit the relevant Hofeller files sets forth in detail multiple reasons why those files are authentic. 6/21/19 Mot. in Limine to Admit Certain Files of Dr. Thomas B. Hofeller at 6-9. Among those reasons: Ms. Hofeller recognized the storage devices as belonging to her father; she confirmed through photographs that the devices possessed by Plaintiffs' vendor are the ones she sent; the contents of the files on the devices could only have belonged to Dr. Hofeller and his wife; and the specific files that Plaintiffs will introduce at trial have metadata connecting those files to Dr. Hofeller. See id. In addition, Jon Matthews from Plaintiffs' vendor, Stroz Friedberg, attests in the attached affidavit—and can testify at trial, if needed—that all of the Hofeller files relied upon by Plaintiffs' experts come from the devices sent by Ms. Hofeller and have the names, files paths, and "last modified" and "last accessed" dates provided in the spreadsheet accompanying Mr. Matthews' affidavit. See Ex. 3 ¶¶ 11-12 & Ex. B. Since Plaintiffs filed their June 21 motion in limine, moreover, a federal district court in Maryland in the census litigation has found the Hofeller files authentic. The court found that the plaintiffs properly "authenticate[d] the documents found on Dr. Hofeller's computer" through "the deposition testimony of Dr. Hofeller's daughter taken in [the] North Carolina litigation." *Kravitz v. Dep't of Commerce*, 2019 WL 2576353, at *6 (D. Md. June 24, 2019).

Legislative Defendants attempt to cast doubt on the authenticity of the Hofeller files by noting that a tiny percentage of the files apparently were copied onto the backup devices or opened from the backup devices after Dr. Hofeller's death. *See* Mot. to Exclude at 12-13. But critically, Legislative Defendants make no claim that *any* of the files relied upon by Plaintiffs' experts were modified, accessed, or copied onto the storage devices after Dr. Hofeller's death.

They were not. As Mr. Matthews details in his affidavit and an accompanying chart, all of the Hofeller files relied upon by Plaintiffs' experts were last modified, accessed, and backed up to the storage devices on or before *September 8*, 2017. Ex. 3 ¶ 12. As such, the finding of Legislative Defendants' vendor that certain files may have been opened or backed up after Dr. Hofeller's death cuts against Legislative Defendants for present purposes. It shows that, if a file was opened or backed up after Dr. Hofeller's death, it would be discernible from the metadata, but the metadata reveals that is not the case for *any* of the files relied upon by Plaintiffs' experts.

Regarding the files that were purportedly backed up or opened after Dr. Hofeller's death, Legislative Defendants misrepresent the meaning of this data. The data does nothing to show, as Legislative Defendants claim, "that many documents on Dr. Hofeller's files were tampered with and potentially changed." Mot. to Exclude at 12. The "Last Written" and "Entry Modified" timestamps cited by Legislative Defendants' vendor correspond to the time when the file was copied onto the storage device, not when the file itself was opened or modified. Ex. 3 ¶ 13. Indeed, all of the files backed up on August 25, 2018 were "Last Written" onto the device within several minutes of one another, indicating a bulk and/or automated backup. *Id.** With respect to the several files that Legislative Defendants' vendor asserts were "interacted with" starting on October 13, 2018, that is fully consistent with Stephanie Hofeller's deposition testimony. She testified that, after she obtained the devices on October 11, 2018, she opened some personal and family-related files like "trust documents." Ex. 4 at 30:24-31:6, 82:20-85:23. She did not, however, "spend a lot of time looking at [her] father's work files," and more importantly, she did not "change or manipulate any of the files on the storage devices." *Id.** at 30:24-31:6, 82:20-

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 $^{^1}$ Of note, almost all of the files backed up on this date appear to have been in a folder on Dr. Hofeller's computer titled "Transfer." Ex. $3 \ 13$.

85:23. Again, there is not a scintilla of evidence that Ms. Hofeller or anyone else modified—or even opened—any of the files that Plaintiffs' experts relied upon and will address at trial.

While the facts above should end the matter, it bears noting how fanciful any allegation that Ms. Hofeller modified the relevant files would be. Ms. Hofeller has no mapmaking or computer forensics expertise. To establish that any of the files were altered by Ms. Hofeller, Legislative Defendants would have to show not only that she somehow opened up the Maptitude program and manipulated the data within the Maptitude files on the storage devices, but also that she was somehow backdated all of the metadata associated with the files, including the last modified date, to make it appear that the files were last modified around the time when Dr. Hofeller was creating the relevant districts in 2011 and 2017. There is obviously no evidence of any of this, and Ms. Hofeller testified that she modified no files. Anyway, "the possibility" of such a sequence of events is far "too remote" to render "this evidence inadmissible." *State v. Campbell*, 311 N.C. 386, 390-91, 317 S.E.2d 391, 393 (1984). Plaintiffs' burden is "not high" and requires only a "prima facie showing" that "the documents in question are what they purport to be." *Ford*, 245 N.C. App. at 519, 782 S.E.2d at 105 (2016) (internal quotation marks omitted). Plaintiffs have provided more than enough evidence to make that showing.

B. Plaintiffs Have Adequately Established Chain of Custody

Because there is no "reason to believe" that the relevant Hofeller files that Plaintiffs will use at trial "have been altered," there is no requirement to establish "[a] detailed chain of custody." *Snead*, 368 N.C. at 815, 783 S.E.2d at 737 (internal quotation marks omitted). But regardless, Plaintiffs have adequately established chain of custody and can do so at trial through live testimony if the Court finds it necessary.

First, Stephanie Hofeller's deposition testimony establishes that she obtained the storage devices from her father's room in her parents' home, and that she sent those devices in a FedEx

package to Plaintiffs' counsel in compliance with the subpoena. Ex. 4 at 14:18-25:9. Ms. Hofeller further testified, using photographs shown to her at the deposition, that the FedEx package and the devices inside received by Stroz Friedberg are the same ones that she sent. *Id.*The affidavit of Mr. Matthews—who can also testify live at trial, if needed—establishes that Stroz Friedberg received the sealed, unopened FedEx package from Plaintiffs' counsel, found the 22 storage devices inside, and have forensically preserved and maintained control of the files on the devices since receiving. Ex. 3 ¶ 6-9. As Mr. Matthews states in his affidavit and can testify at trial, each of the files relied upon by Plaintiffs' experts was saved onto one of the storage devices sent by Ms. Hofeller, and Stroz sent each of those files directly to one or more of Plaintiffs' experts on specific dates from April to June 2019. *Id.* ¶ 11-12 & Ex. B. (Plaintiffs believe that Mr. Matthews' testimony can be put on through his affidavit rather than taking up the parties' and Court's time at trial, but are prepared to have him take the stand to testify live if needed.) Plaintiffs' experts, Dr. Chen and Dr. Cooper, will testify that each file analyzed in their reports was sent to them by Stroz Friedberg. All of this clearly establishes chain of custody.

Legislative Defendants' assertion that Plaintiffs "refus[ed] to produce a chain of custody accounting" of the devices, Mot. to Exclude at 13, is false. Before Stroz Friedberg shipped complete copies of all of the files on the devices to each set of Defendants pursuant to the Court's direction, Legislative Defendants requested that Plaintiffs provide "chain of custody forms," "descriptions, names and photos of all media drives," an "excel version of the PDF 'index' [that Plaintiffs] previously produced" but adding "the file size, and file extension," and clarification regarding the file paths on the index that Plaintiffs had sent. Ex. 5 (5/2/19 email from P. Strach). Intervenor Defendants separately requested that Stroz Friedberg provide the

following information prior to shipping: "Hard Drive Description," Serial Number," "Passcode (if password protected)," "Client Matter," and "Data Size." Ex. 6 (5/2/19 email from J. Branch).

While Plaintiffs were under no obligation to do so,² Plaintiffs voluntarily provided the requested information in order to ensure full transparency. In the shipments to all three sets of Defendants, Stroz Friedberg included descriptions, names, and photos of all the original media. *See* Exs. 7, 8. Stroz Friedberg further provided all of the other detailed information that Intervenor Defendants requested, and Plaintiffs voluntarily provided Defendants an Excel version of the index listing over 75,000 files names, now including the file extensions and file sizes as Legislative Defendants had requested. Ex. 6 (5/2/19 email from D. Jacobson). While Plaintiffs notified Legislative Defendants that the specific Stroz *forms* they were seeking were proprietary work product, Plaintiffs advised that Stroz would provide an attestation to chain of custody in the shipment with the media. *Id.* Stroz Friedberg did just that in a cover letter included with the shipments, attesting that "[t]he media was received in a sealed FedEx box with no sign of tampering." Ex. 7. Stroz also provided to each set of Defendants a spreadsheet with detailed information on each of the 22 devices that Ms. Hofeller had produced. Ex. 8.

In the two months since all Defendants received that documentation of the chain of custody from Stroz Friedberg, neither Legislative Defendants nor anyone else ever suggested that that documentation was insufficient—until Legislative Defendants' June 21 motion. Nor do Legislative Defendants offer any legal support for the notion that a litigant must establish chain of custody through some specific type of "form" as opposed to simply having the custodian attest to the chain of custody, which is what Plaintiffs have previously provided to Legislative Defendants, are providing with this response, and can establish through live testimony if needed.

² Neither Legislative Defendants nor Intervenor Defendants ever issued any actual discovery request for this or any related information, and Rule 45(d1) on its face does not require that such information be provided.

II. Dr. Chen's and Dr. Cooper's Rebuttal Reports Properly Rebut Legislative Defendants' Experts, and Legislative Defendants Cannot Claim Unfair Prejudice

Legislative Defendants argue that the portions of Dr. Chen's and Dr. Cooper's rebuttal reports that address the Hofeller files at issue "is not properly rebuttal material" because Dr. Chen and Dr. Cooper rely on "dozens of files that were not produced in the initial reports." Mot. to Exclude at 14-15. Legislative Defendants further claim that they will suffer "prejudice" if Dr. Chen and Dr. Cooper are permitted to testify regarding this evidence. *Id.* at 16.

Legislative Defendants are wrong on both the facts and the law. "Rebuttal evidence is defined as evidence given to explain, repel, counteract, or disprove facts given in evidence by the opposing party." *Charleston Med. Therapeutics, Inc. v. AstraZeneca Pharm. LP*, 2015 WL 12805687, at *2 (D.S.C. July 8, 2015) (internal quotation marks omitted). Thus, "rebuttal and reply reports may cite new evidence and data so long as the new evidence and data is offered to directly contradict or rebut the opposing party's expert." *Id.* (internal quotation marks omitted). A "Plaintiff is . . . permitted to respond to [a] Defendant's report with new evidence that rebuts and counteracts the theory posed by Defendant." *Stowers v. 529900 Ontario Ltd.*, 2018 WL 1528215, at *4 (W.D. Va. Mar. 28, 2018); *accord Teledyne Instruments, Inc. v. Cairns*, 2013 WL 5781274, at *17-18 (M.D. Fla. Oct. 25, 2013). Even where a rebuttal report exceeds the scope of the other party's report, the analysis should not be excluded unless it would result in "unfair surprise" or prejudice. *State v. Jackson*, 810 S.E.2d 397, 402-03 (N.C. Ct. App. 2018).

Here, Dr. Chen's and Dr. Cooper's analyses relying upon the Hofeller files directly rebut the opinions of Legislative Defendants' experts regarding Dr. Hofeller's ability to use partisanship in drawing the 2017 Plans, and about whether and how the 2017 Plans comply with the General Assembly's "Adopted Criteria." Furthermore, Legislative Defendants cannot claim any unfair prejudice because they bear responsibility for the delay in their obtaining the files, and

because they have cured any purported prejudice through the submission of a further rebuttal report from their own expert which was submitted with their motion *in limine*.

A. Dr. Chen and Dr. Cooper Properly Rebutted the Opinions of Legislative Defendants' Experts Regarding Partisan Intent and the Use of Partisanship

On April 30, Legislative Defendants served expert reports that set forth three primary theories regarding the question of partisan intent. Specifically, Legislative Defendants' experts Dr. Johnson, Dr. Hood, and Dr. Brunell offered analyses and opinions that: (1) North Carolina's redistricting rules, and in particular the Whole County Rule, constrained Dr. Hofeller's ability to use partisanship in drawing the 2017 Plans; (2) purported natural clustering of Democratic voters in large metropolitan areas, and not an intentional effort by Dr. Hofeller to pack Democrats into districts, might be responsible for the overwhelmingly Democratic districts that exist in the 2017 Plans; and (3) discerning the partisan intent of a mapmaker is difficult and not established here.

The following are examples of some of the opinions and analyses offered by Legislative Defendants' experts in support of these three theories:

• Dr. Johnson stated as follows:

- o "[T]he 'county groupings' requirement significantly limits the legislature's ability to draw lines based exclusively on partisanship." Ex. 9 at 13.
- o "Focusing on Mecklenburg County is a good way to see at a glance the impact of the restraint on districting imposed by the 'county grouping' rule and the Legislature's criteria to minimize VTD and city splits and avoid extremely noncompact districts." *Id.* at 10.
- o "An analysis of House districts in Wake County also demonstrates the limitations on partisan gerrymandering imposed by the 'county grouping' rule and by the Legislature's criteria to minimize VTD and city splits and to avoid extremely noncompact districts." *Id.* at 17.
- o "Once again, the state's 'county grouping' rule, and the legislature's desire to minimize city splits, acted as limit on the potential partisan motivations of legislators in North Carolina." *Id.* at 24.

o "The state's county groupings rule acts as a significant restriction on the discretion, and potential excesses, of legislators when they are in charge of redistricting." *Id*.

Dr. Hood stated as follows:

- o "North Carolina relies on a unique system to draw state legislative districts that is based on multiple rigid criteria. To a large extent, these criteria make drawing state legislative districts in the Tar Heel state a formulaic exercise." Ex. 10 at 2.
- o "As indicated in my discussion of the legislative redistricting in North Carolina, the process is quite constrained, which greatly limits the ability of map drawers to create districts where partisan motives predominate." *Id.* at 9-10
- o "To recap, this section has demonstrated that North Carolina's political geography can affect the manner in which legislative districts are created. Geographically speaking, Republican areas tend to cluster with other Republican areas and Democratic areas tend to be located alongside other Democratic areas. . . The presence of such spatial patterns can lead to the phenomenon where voters with similar voting patterns are more likely to be placed together in the same district, sometimes referred to as *natural* packing." *Id.* at 20.

• Dr. Brunell stated as follows:

- O "Divining the intent of the map-maker is extraordinarily difficult because the process of redistricting is complex. There are a multitude of competing demands at work when lines are being drawn districts have to be nearly equally populated; districts need to be compact and contiguous; incumbents' districts can be preserved; city and county splits need to be minimized; North Carolina's county grouping rules must be complied with, and so on. Beyond these requirements there can be various other factors that affect where the boundaries are placed. . . . The complex process of redistricting makes drawing conclusions about the intent of the map-maker through statistical analyses incredibly difficult." Ex. 11 at 7-8.
- o "North Carolina's redistricting process is one of the most constrained in the nation due to the county groupings requirements." *Id.* at 9.
- o "Democratic support is largely concentrated in the most heavily populated counties." *Id.* at 10.

In their rebuttal reports, Dr. Chen and Dr. Cooper relied on certain of the Hofeller files to rebut these "conclusions" offered by Legislative Defendants' experts. *Stowers*, 2018 WL 1528215, at *2. Each expert explained that the relevant Hofeller files show that Dr. Hofeller did

have discretion—and did use partisanship as his predominant motivation—in drawing districts within county clusters and within metropolitan areas with many Democratic voters.

As Dr. Chen reported, certain of Dr. Hofeller's Excel spreadsheets show that, "[w]ithin each county grouping, . . . Dr. Hofeller's consideration and analysis of different district boundaries was clearly focused primarily on partisan considerations." 6/21/19 Mot. in Limine to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 68 (emphasis added). "Aside from verifying that the districts adhere to county grouping boundaries, Dr. Hofeller's spreadsheets analyze only the partisan characteristics of each district and the identities and partisanship of the incumbents in each district." *Id.* Dr. Chen presented the following Excel spreadsheet as an example, showing how Dr. Hofeller considered alternative configurations within the Senate county grouping containing Johnston County, with an exclusive focus on partisanship:

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³ Plaintiffs attached Dr. Chen's and Dr. Cooper's rebuttal reports to Plaintiffs' own motion *in limine* to admit the Hofeller files, and cross-reference the exhibits attached to that filing.

Chen Figure 46: Dr. Hofeller's Draft Plan File: "Johnston Senate Switch.xlsx" (December 11, 2016).

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5		10	30852	43836	58.69%	29718	38740	56.59%	-2.10%	30495	37897	55.41%	-3.28%	
5		11				38421	47921	55.50%	-3.57%	37654	48764	56.43%	-2.64%	
7		12	30006	41821	58.22%	30006	41821	58.22%	0.00%	30006	41821	58.22%	0.00%	
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Columns H and L of this spreadsheet reflect the Republican vote share for two potential configurations of the draft districts in this cluster using Dr. Hofeller's partisanship formula, and Column I and M reveal how that vote share compared to the Republican vote share in these districts under the 2011 Plan (reflected in Column E).

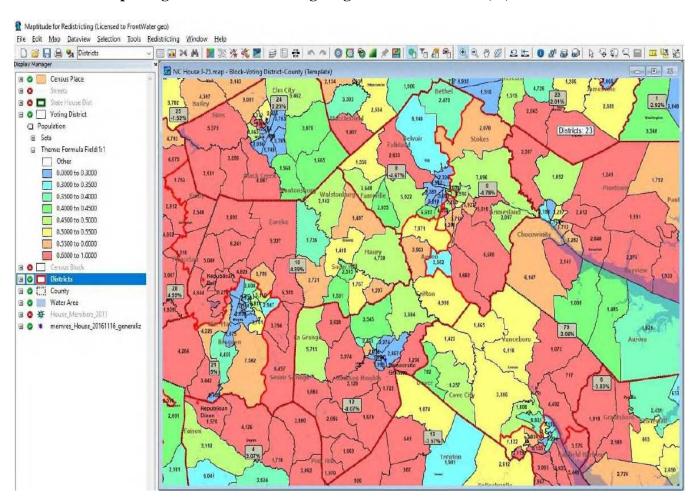
Dr. Chen described how other Excel files from the Hofeller files show Dr. Hofeller's singular focus on maximizing partisan gain at the district-level within county groupings, including groupings in large metropolitan areas such as Wake and Mecklenburg Counties. The following figure from Dr. Chen's rebuttal report is one example of these files:

Chen Figure 39: Dr. Hofeller's Draft Plan File: "NC Senate Minimum Partisan J-2" (June 13, 2017)

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	New	1	47.94%	52.31%	Cook	R		53.54%	-5.60%		
	Old	2	60.16%	63.13%	Sanderson	R		60.16%	0.00%		
	New	3	40.10%	43.10%	Smith-Ingram	D		34.18%	5.93%		
	New	4	37.39%	39.24%	Horner	R	##	31.88%	5.51%		
	New	5	45.94%	48.68%	Davis	D		36.80%	9.15%		
,	Old	7	59.16%	64.83%	Brown	R		59.16%	0.00%		
)	New Old	8	50.94% 54.69%	53.60% 56.14%	Pate Rabon	R		59.37% 54.69%	-8.43% 0.00%		
	Old	9	53.05%	51.05%	Lee	R		53.05%	0.00%		
3	New	10	54.75%	57.91%	Jackson	R		57.13%	-2.38%		
1	New	11	54.47%	56.42%	Bryant	D	##	57.61%	-3.13%		
5	New	12	57.19%	58.83%	Rabin	R		57.19%	0.00%		
5	Old	13	41.09%	47.12%	Britt	R	##	41.09%	0.00%		
7	Wake-Franklin	14	25.37%	22.89%	Blue	D		25.54%	-0.17%		
3	Wake-Franklin	15	53.04%	49.97%	Alexander	R		53.32%	-0.28%		
9	Wake-Franklin	16	39.77%	35.22%	Chaudhuri	D		38.80%	0.97%		
ו	Wake-Franklin	17	54.36%	51.52%	Barringer	R		53.45%	0.91%		
L L	Wake-Franklin	18	52.57%	53.26%	Barefoot	R		52.76%	-0.19%		
2	Cumberland	19	50.79%	53.27%	Meredith	R		49.30%	1.48%		
3	New	20	20.93%	18.06%	McKissick	D		24.15%	-3.23%		
4 5	Cumberland New	21	29.52% 40.57%	29.98% 39.77%	Clark Woodard	D D		30.53% 37.71%	-1.01% 2.86%		
5	Old	23	34.84%	39.77%	Foushee	D		34.84%	0.00%		
,	New	24	56.91%	58.10%	Gunn	R		59.06%	-2.14%		
3	New	25	51.51%	54.18%	McInnis	R		55.19%	-3.68%		
,	New	26	59.18%	62.59%	Berger	R		57.51%	1.67%		
)	New	27	57.95%	56.89%	Wade	R		55.06%	2.90%		
L	New	28	22.97%	22.18%	Robinson	D		18.65%	4.32%		
2	New	29	60.90%	64.77%	Tillman	R		67.04%	-6.14%		
3	New	30	60.87%	63.71%	Randleman, Ballard	_	#	66.15%	-5.28%		
1	New	31	64.87%	65.07%	Brock, Krawiec	R,R	#	62.71%	2.16%		
5	New	32	30.42%	29.53%	Lowe	D		31.20%	-0.78%		
5	Old	33	65.39%	68.87%	Dunn	R		65.39%	0.00%		
7	New	34	66.29%	67.96%	Vacant	R	#	63.53%	2.76%		
3	Old Old	35 36	65.63% 61.81%	65.84% 60.28%	Tucker Newton	R		65.36% 62.18%	0.27% -0.38%		
,	Mecklenburg	35	31.35%	29.21%	Vacant	D	#	37.87%	-6.52%		
Ĺ	Mecklenburg	38	28.06%	23.76%	Jackson	D		23.36%	4.70%		
2	Mecklenburg	39	63.96%	59.63%	Bishop	R		61.93%	2.03%		
3	Mecklenburg	40	29.05%	25.80%	Waddell	D		20.96%	8.09%		
1	Mecklenburg	41	49.59%	45.44%	Ford, Tarte	D,R	# ##	57.53%	-7.94%		
5	Old	42	65.81%	67.05%	Wells	R		65.81%	0.00%		
5	New	43	62.82%	63.14%	Jarromgtpm	R		62.82%	0.00%		
-	Sheet	She	CO 000/	et3	(+)			CE CC0/	0.050/		

Similarly, Dr. Cooper analyzed certain of Dr. Hofeller's Maptitude files from the storage devices to demonstrate that, "within a single region," Dr. Hofeller acted to "maximize partisan advantage." 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. G at 2. For example, Dr. Cooper analyzed the screenshot below from one of Dr. Hofeller's Maptitude files for the 2017 Pitt-Lenoir county grouping in the state House. In the image below, the color coding of VTDs using the partisanship formula on the left side of the screen, as well as the draft

district lines and labels, existed in the file when Dr. Hofeller's last closed this file. Dr. Cooper explained that this file shows how Dr. Hofeller knowingly packed "all of the bluest VTDs" in this cluster "into HD-8," allowing the other two districts in the cluster (HD-9 and HD-12) to favor Republicans. *Id.* at 16.



Cooper Figure 11: Partisan Targeting in House Districts 8, 9, and 12

Dr. Cooper presented similar analyses for the other relevant House and Senate county groupings, including those in large metropolitan areas where Legislative Defendants' experts opined there is purported "natural" packing of Democrats. For instance, Dr. Cooper analyzed the screenshot below from Dr. Hofeller's Maptitude files for the Wake-Franklin county grouping in the Senate. As Dr. Cooper explained, this screenshot shows that the overwhelmingly Democratic

districts in this grouping do not result from natural clustering, but rather from Dr. Hofeller "drawing the district lines with precision" to pack "all of the most Democratic VTDs [shaded red] . . . into Senate Districts 14, 15, and 16," thereby allowing "Senate Districts 17 and 18 [to] grab[] every Republican VTD (shaded green) that is available." *Id.* at 9.

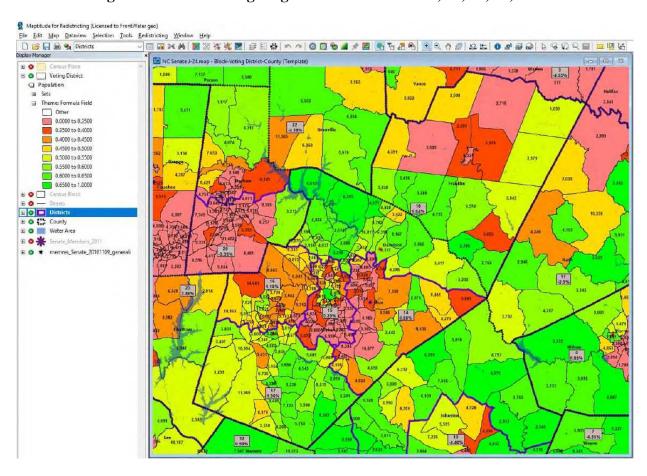


Figure 4: Partisan Targeting in Senate Districts 14, 15, 16, 17, and 18

The Hofeller files relied upon by Dr. Cooper and Dr. Chen thus directly rebut the opinions offered by Legislative Defendants' experts that the Whole County Rule constrained Dr. Hofeller's ability to act with partisan intent, and that purported natural clustering of Democratic voters explains the skew of the districts in certain geographic areas. These Hofeller files also show that, contrary to Dr. Brunell's claim, "[d]ivining the intent of the map-maker" is not "extraordinarily difficult" in this case. Ex. 11 at 7. The relevant Hofeller files establish

conclusively that Dr. Hofeller created the 2017 Plans with an overriding partisan intent, and Drs. Chen and Cooper properly relied on the files to rebut Legislative Defendants' experts..

B. Dr. Chen Rebutted the Opinions of Legislative Defendants' Experts Regarding Purported Compliance with the Adopted Criteria

Dr. Chen analyzed other Hofeller files to rebut the opinions of two of Legislative Defendants' experts, Dr. Hood and Dr. Thornton, that the "Adopted Criteria" passed by the House and Senate Redistricting Committees on August 10, 2017 constrained Dr. Hofeller in drawing the 2017 Plans, and that the 2017 Plans purportedly comply with the Adopted Criteria. Below are some of Dr. Hood's and Dr. Thornton's statements offering these opinions:

• Dr. Hood stated as follows:

- O "In addition to the county group rules discussed above, in 2017, the General Assembly also imposed other criteria on the drawing of legislative districts. These criteria include population equalization, contiguity, goals for compactness and VTD splits, the consideration of municipal boundaries, and incumbency protection. Taking into account all the criteria discussed, a map drawer creating district boundary lines within a county group is quite constrained as to the amount of discretion they may exercise. This is especially the case in county groups containing only a few districts." Ex. 10 at 2-3 (emphases added).
- o "The 2017 House and Senate plans met the goals stated in the adopted redistricting criteria." *Id.* at 9.

• Dr. Thornton stated as follows:

- o "The following summarizes the actual criteria utilized by the legislature in constructing the enacted map." Ex. 12 at 12.
- o "If Dr. Chen had applied the actual criteria utilized by those who constructed the enacted map, he presumably would have generated a different set of maps." *Id.* at 15.
- o "None of the three Plaintiffs' experts apply the same criteria that were used to construct the enacted map." *Id.* at 36.

These opinions were not just passing statements, but central themes of these experts' reports. The majority of Dr. Hood's report attempts to establish that the Adopted Criteria "constrained" the "map drawer," and that the 2017 Plans comply with the Adopted Criteria. *See* Ex. 10.

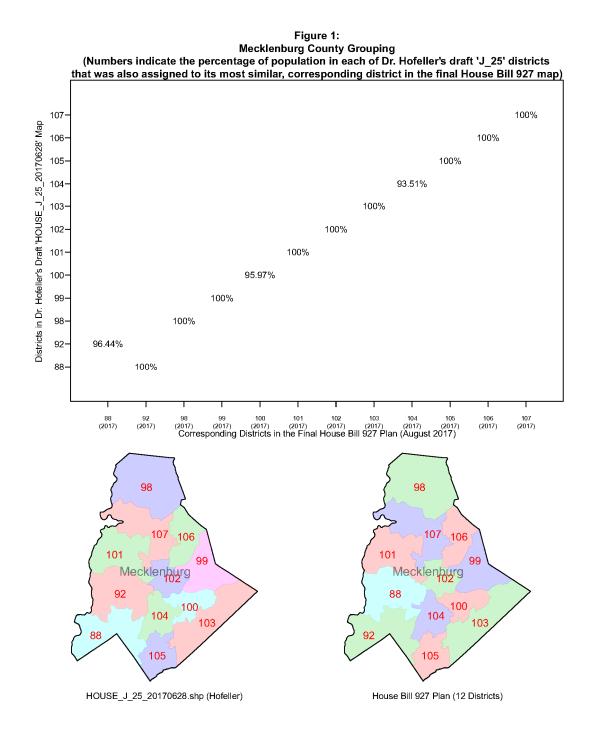
In his rebuttal report, Dr. Chen offered "two responses" "to this claim by Dr. Hood and Dr. Thornton." 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 1. Dr. Chen's first "response is that Dr. Hofeller logically could not have been following the 2017 Adopted Criteria in June 2017, which is when he drafted much of the General Assembly's eventually enacted House and Senate districts." *Id.* The "second response to Dr. Hood's and Dr. Thornton's argument," Dr. Chen wrote, "is that at all times in drawing the 2017 Plans, including after the 2017 Adopted Criteria were passed on August 10, 2017, Dr. Hofeller appeared to violate the Adopted Criteria's prohibition against any 'consideration of racial data." *Id.* Dr. Chen then "explain[ed] both of these findings in detail" using the Hofeller files. *Id.*

To establish his "first response," Dr. Chen "examined and analyzed draft maps prepared by Dr. Thomas Hofeller" in June 2017. *Id.* at 2. Dr. Chen "found that many of the new districts that the General Assembly enacted in the 2017 Plans are identical or nearly identical to drafts of those districts that Dr. Hofeller had drawn by June 2017—approximately 1.5 months before the House and Senate Redistricting Committees passed the Adopted Criteria on August 10, 2017." *Id.* Specifically, Dr. Chen found that "in a June 24, 2017 draft Senate map, Dr. Hofeller had already finished assigning [97.6%] of North Carolina's census blocks (containing [95.6%] of the state's population) into their final [Senate] districts," and that "in a June 28, 2017 draft House map, Dr. Hofeller had already finished assigning 90.9% of North Carolina's census blocks (containing 88.2% of the state's population) into their final [House] districts." *Id.* at 2.

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⁴ Dr. Chen's rebuttal report inadvertently flipped the Senate statistics based on Census blocks and population; it listed the overlap percentage based on Census blocks as the percentage based on population, and vice versa.

Legislative Defendants critique Dr. Chen's analysis, claiming that the "similarity between Dr. Hofeller's draft maps and the enacted plans" can purportedly be explained by the Whole County Rule. Mot. to Exclude at 26. This dispute can and should be litigated on the merits at trial, but it provides no basis whatsoever to exclude the relevant expert testimony. In any event, even a quick review of Dr. Chen's analysis demonstrates that Legislative Defendants' critique does not hold water. Dr. Chen demonstrated that, by June 2017, Dr. Hofeller had already completed drawing districts *within* counties in which the Whole County Rule imposed little to no constraints. For instance, Dr. Chen presented the following figure to show that Dr. Hofeller had already completed or nearly completed all 12 House districts within Mecklenburg County (the map on the left is Dr. Hofeller's June draft map and the map on the right is the enacted plan):



Dr. Chen presented similar analyses for numerous other counties and county groupings where districts were redrawn in 2017 and the Whole County Rule did not constrain Dr. Hofeller's discretion. 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 2-38. Dr. Chen in fact found extraordinarily high overlap in nearly every Senate county

grouping redrawn in 2017. *Id.* at 25-38. As. Dr. Chen explained in his rebuttal report, "Dr. Hofeller logically could not have been following the 2017 Adopted Criteria in June 2017" when he drew these districts, since the Adopted Criteria were not passed until a month and a half later. *Id.* at 2. Dr. Chen's analysis thus directly rebuts the opinions offered by Dr. Hood and Dr. Thornton—particularly Dr. Hood—that the Adopted Criteria "constrained" the "map drawer" in "creating districting boundary lines," and that the 2017 Plans were drawn to comply with the Adopted Criteria. Ex. 10 at 2-3, 9-10.

Dr. Chen's analysis of the incorporation of racial data in Dr. Hofeller's files also rebuts Dr. Hood's and Dr. Thornton's conclusions that Dr. Hofeller complied with the Adopted Criteria. One of the Adopted Criteria provided that "[d]ata identifying the race of individuals or voters shall not be used in the drawing of legislative districts in the 2017 House and Senate plans," and Legislative Defendants clarified that this criterion meant that racial data could not be "loaded into the computer used by the map drawer to construct the districts." 6/21/19 Mot. in Limine to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 39 (quoting the Adopted Criteria). But, as Dr. Chen explained in his rebuttal report, "analysis of Dr. Hofeller's Maptitude backup folders reveals that district-level racial calculations were clearly contained within Dr. Hofeller's draft House and Senate maps, including drafts produced after the August 10, 2017 passage of the Adopted Criteria." Id. As one example, Dr. Chen presented the following screenshots from one of Dr. Hofeller's draft House maps last modified on August 14, 2017, which showed that Dr. Hofeller sorted the districts from highest to lowest African-American voting age population (BVAP) in his Maptitude "Dataview" window, and that he labeled each district in the same Maptitude file with each district's BVAP.

Figure 26: Screenshot of Dataview Window for Dr. Hofeller's "NC House J-25003.bak.zip" Draft Plan (August 14, 2017)

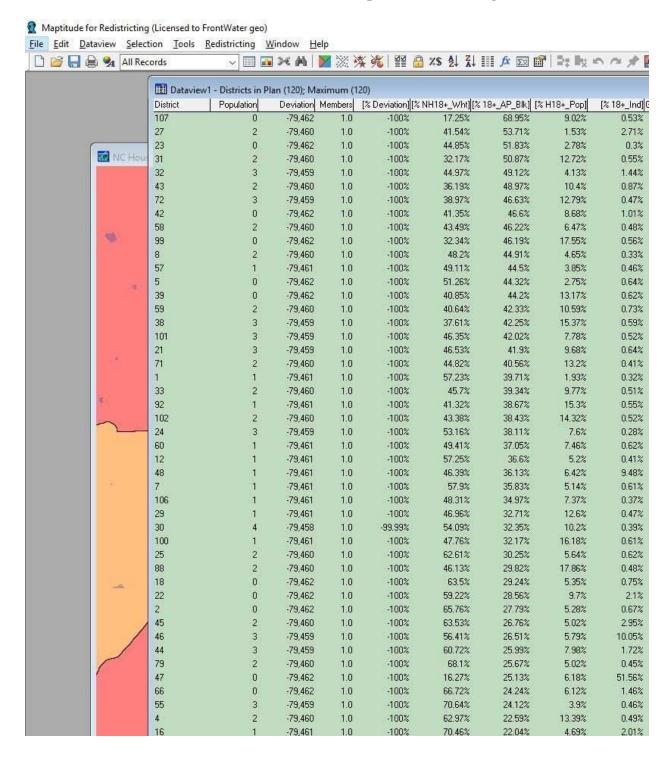
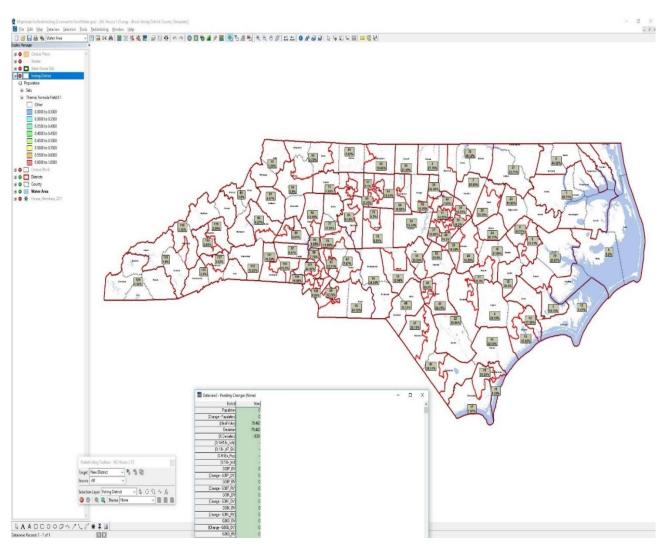


Figure 28: Screenshot of District Labels Reporting Racial Characteristics of Dr. Hofeller's "NC House J-25003.bak.zip" Draft Plan (August 14, 2017)



Id. at 40-44.

Based on this analysis, Dr. Chen concluded that "Dr. Hood's and Dr. Thornton's rebuttal reports were again wrong to claim that the General Assembly's mapdrawer followed the Adopted Criteria." *Id.* at 45. Dr. Chen further explained: "Clearly, contrary to the assertions of Dr. Hood and Dr. Thornton that the 2017 Plans strictly adhered to the 2017 Adopted Criteria, Dr. Hofeller did not follow the Adopted Criteria's prohibition on having racial data on the new

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districts being developed." *Id.* at 47-48. Dr. Chen's opinions based on these Hofeller files specifically rebut opinions offered by Legislative Defendants' experts.

C. Legislative Defendants Cannot Claim Any Unfair Prejudice

Dr. Chen's and Dr. Cooper's analyses of the Hofeller files are independently admissible, regardless of whether the rebuttal reports exceed the scope of Legislative Defendants' expert reports, because Legislative Defendants cannot claim any "unfair surprise" or prejudice.

**Jackson*, 810 S.E.2d at 402-03.

First, Legislative Defendants are accountable for the delay in the parties obtaining the relevant Hofeller files, because all of those files are public records that should have been made public to the people of North Carolina long ago. Consistent with N.C. Gen. Stat. § 120-133(a), Dr. Hofeller's contract with Legislative Defendants to draw the 2017 Plans provided that "all drafting and information requests to [Dr. Hofeller] and documents prepared by [Dr. Hofeller] concerning redistricting shall no longer be confidential and *shall become public records* upon the act establishing the relevant district plan becoming law." Ex. 15 at 1 (emphasis added). This provision contains no time limitation or exceptions—it provides that "all . . . documents prepared by Dr. Hofeller concerning" the 2017 Plans "shall become public records" upon the passage of the 2017 Plans. *Id.* Consequently, as soon as the General Assembly enacted the 2017 Plans in August 2017, all of Dr. Hofeller's work product in creating the 2017 Plans became public records. This encompasses all of Dr. Hofeller's drafts of the 2017 Plans and analyses of those drafts that Dr. Chen and Dr. Cooper relied upon in their expert reports.

Thus, all of the Hofeller files at issue should have been made public back in the Fall of 2017, while Dr. Hofeller was serving as Legislative Defendants' agent. It does not matter whether, as Legislative Defendants claim, they did not know that Dr. Hofeller created and possessed these files or that these files were not loaded onto the legislative computer. It is

blackletter law that "[a] principal is chargeable with and bound by the knowledge of or notice to his agent." *Great Am. Ins. Co. v. C.G. Tate Const. Co.*, 315 N.C. 714, 723, 340 S.E.2d 743, 749 (1986) (internal quotations marks omitted); *accord Morpul Research Corp. v. Westover Hardware, Inc.*, 263 N.C. 718, 721, 140 S.E.2d 416, 418 (1965). Legislative Defendants are accountable for the failure to make these files public in the Fall of 2017, after the 2017 Plans were enacted. They cannot now claim unfair prejudice from the fact that it took a year-and-a-half for these public records to see the light of day.

Second, Legislative Defendants also cannot claim unfair prejudice because they were responsible for the timeline under which they received copies of the files after Ms. Hofeller produced them. Legislative Defendants first requested copies of the storage devices on March 26, 2017. The next day, Plaintiffs told all Defendants that, based on file and folder names, it was apparent that the devices included medical, tax, and other sensitive personal information. Ex. 16 at 11-12 (3/27/19 email from E. Theodore). Plaintiffs offered to have their vendor use keyword searches to "pull out these personal files *and then make a copy of everything that remains, and provide you with that copy.*" *Id.* at 11 (emphasis added). After waiting five days to respond, Legislative Defendants rejected this offer. *Id.* at 8-9 (4/1/19 email from P. Strach).

Needless to say, Plaintiffs' experts have not relied on any of the sensitive personal files that Plaintiffs refrained from sharing with Legislative Defendants pending this Court's resolution of Plaintiffs' motion for clarification. Legislative Defendants could have had access to every single file that Plaintiffs' experts relied on by late March, but they declined.

And they declined repeated offers to get copies of these files in April. On April 11, while Plaintiffs' motion for clarification was pending, Plaintiffs sent Legislative Defendants a list of the specific 1,001 files that Plaintiffs proposed to filter out, along with the keywords used to

generate that list, and asked whether Legislative Defendants would consent to filtering just these specific files given that all of them were obviously sensitive and personal in light of their file names. Ex. 17 at 1-2, 4 (4/11/19 and 4/12/19 emails from S. Jones). Legislative Defendants declined this offer. Then, on April 18, Plaintiffs emailed Legislative Defendants "to again give [them] the opportunity to receive the materials that we do not propose to filter." *Id.* at 1 (4/18/19 email from S. Jones). Plaintiffs indicated that they would immediately send Legislative Defendants copies of all of the files other than the 1,001 personal files, and Plaintiffs would even absorb the costs of doing so if the Court later declined to allow for filtering. *Id.* Legislative Defendants never responded to that offer.

In these circumstances, Legislative Defendants cannot claim unfair prejudice based on the date on which they received the Hofeller files. At any time on or after March 27, Legislative Defendants could have agreed to accept copies of all of the files except for the small number of sensitive personal files that were in dispute, while still litigating access to those small number of files. But Legislative Defendants chose not to do so.

Third, Legislative Defendants are wrong to suggest that Plaintiffs engaged in "sandbagging." Mot. to Exclude at 15, 17. For the reasons already explained, Dr. Chen's and Dr. Cooper's rebuttal reports were directly responsive to Legislative Defendants' experts' opinions. And Plaintiffs did not and would not intentionally withhold materials from their opening expert reports in the hopes that Legislative Defendants' experts may offer opinions for which the Hofeller files would be responsive. Plaintiffs received the FedEx package containing the devices on March 13, just nine days before their experts' opening reports were originally due. Indeed, there are additional North Carolina-related documents in the Hofeller files that Plaintiffs'

experts may have included in their opening reports but did not include in their rebuttal reports because those files were not responsive to Legislative Defendants' experts.

Finally, any possible prejudice to Legislative Defendants has been cured. As of this filing, they have had the Hofeller files for nearly two months, and their motion *in limine* includes a 12-page "Expert Rebuttal Report" from their expert Dr. Johnson attempting to counter Dr. Chen's analysis of the Hofeller files. Plaintiffs disagree with Dr. Johnson's analysis in his Rebuttal Report, and ordinarily would object to the addition of new expert analysis after the expert's deposition. In fact, just four days before he submitted his 12-page Rebuttal Report, Dr. Johnson was asked at his deposition whether he had been "asked to do any analysis . . . responsive to what is in plaintiffs' rebuttal expert reports, and Dr. Johnson answered: "No, I haven't had a chance to look at them in enough detail yet." Ex. 18 at 44:22-45:1.

Notwithstanding this testimony, to eliminate any possible claim of prejudice, Plaintiffs will consent to Dr. Johnson testifying about the analysis in his June 21 "Rebuttal Report" if Dr. Chen and Cooper are permitted to testify about their analysis of the relevant Hofeller files. (Plaintiffs do not consent to any new or revised analysis of the Hofeller files, or any other analysis on any undisclosed subject, from Legislative Defendants' experts.) Legislative Defendants cannot claim any prejudice where their expert is permitted to offer opinions on the Hofeller files based on an analysis that he prepared nearly two months after Legislative Defendants came into possession of the files.

Legislative Defendants could not claim unfair prejudice even without Dr. Johnson's rebuttal report. Any prejudice in relation to the timing of an expert's analysis is mitigated where "the defense was afforded the opportunity to fully examine" the expert about the relevant analysis before trial, *State v. Jackson*, 810 S.E.2d 397, 404 (N.C. Ct. App. 2018), in particular

through a deposition. *See Leaks v. Target Corp.*, 2015 WL 4092450, at *4 (S.D. Ga. July 6, 2015) (no prejudice where defendant "received notice that [the rebuttal expert would be called and took his deposition on the penultimate day of discovery"). Here, Legislative Defendants deposed Dr. Chen and Dr. Cooper at length about their analyses of the Hofeller files.

III. Dr. Chen's and Dr. Cooper's Expert Analyses Are Reliable

Legislative Defendants next argue that Dr. Chen's and Dr. Cooper's analyses of the relevant Hofeller files do not meet the reliability standards for expert testimony under North Carolina Rule of Evidence 702. The test for reliability under Rule 702 is not "rigid"; "the factors articulated in *Daubert* are part of a flexible inquiry" and "do not form a definitive checklist or test." *State v. Barker*, 809 S.E.2d 171, 175 (N.C. Ct. App. 2017) (internal quotation marks omitted). Rule 702 does not "require the expert's testimony to be proven conclusively reliable or indisputably valid before it can be admitted into evidence," *State v. Howard*, 803 S.E.2d 870 (N.C. Ct. App. 2017), nor does the Rule "mandate that the witness always have a particular degree or certification, or practice a particular profession," *State v. McGrady*, 368 N.C. 880, 889-90, 787 S.E.2d 1, 9 (2016). At bottom, the question is "[d]oes the witness have enough expertise to be in a better position than the trier of fact to have an opinion on the subject?" *Id.* Dr. Chen and Dr. Cooper easily satisfy that threshold with respect to their analyses of the Hofeller files.

1. Legislative Defendants argue that Dr. Chen and Dr. Cooper "lack the requisite specialization" in Maptitude, the software application Dr. Hofeller used to draw maps. Mot. to Exclude at 19. Legislative Defendants describe Dr. Chen and Dr. Cooper, along with Plaintiffs' consulting expert Blake Esselstyn who assisted these two experts, as "several people with generic computer skills bumbling through a program they barely knew." *Id.* at 17. This characterization does not withstand even minimal scrutiny.

Dr. Chen, who programs his own computer algorithms to generate computer-simulated districting plans, is an expert in redistricting and "geographic information systems," or "GIS." Dr. Chen has worked extensively with a number of different GIS software programs, all of which have shared features and ways of incorporating redistricting-related data. Maptitude is one of the GIS software programs with which Dr. Chen has experience. While Dr. Chen testified at deposition that he does not currently own a Maptitude license, he testified that he has had "Maptitude on [his] computer before" and that he has used it to analyze redistricting plans. Ex. 19 at 321:16-25. Dr. Chen then testified at length about the Maptitude features relevant to his analysis here, answering every Maptitude-related question posed to him in detail. *See id.* at 330:4-357:3. He explained, for example, how a user operates Maptitude's formula fields such as those that Dr. Hofeller had for partisan and racial data (*id.* at 330:12-20), that Maptitude allows a mapmaker "to dynamically see updates of partisan data [or] racial data]" as the mapmaker is drawing districts (*id.* at 333:2-10), and "the way a Maptitude backup works." (*id.* at 335:23-25).

Moreover, most of Dr. Chen's analysis of the relevant Hofeller files does not require any detailed knowledge of Maptitude. To compare Dr. Hofeller's June 2017 draft House and Senate plans to the enacted 2017 Plans, Dr. Chen directed Plaintiffs' consulting expert Blake Esselstyn to export a "shapefile" of the draft plans out of Maptitude. 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 2 n.*; Ex. 19 at 366:8-11. A "shapefile," which contains data on the geographic boundaries of each draft district, is not specific to Maptitude. Dr. Chen works with shapefiles in virtually all of his redistricting work, and to analyze the overlap between Dr. Hofeller's June 2017 draft plans and the enacted plans, Dr. Chen "wrote [his] own code" using a programming language called "R." Ex. 19 at 364:8-14. This analysis required no detailed knowledge of Maptitude. Likewise, Dr. Chen obviously

needed no Maptitude knowledge to analyze the Microsoft Excel spreadsheets presented on pages 43-75 of his rebuttal reports. 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 43-75. The only analysis by Dr. Chen that involved Maptitude was his analysis of the racial data loaded into Dr. Hofeller's Maptitude files, and most of this requires merely viewing how the data are sorted and presented. *Id.* at 41-45.

As for Dr. Cooper, he relied on Plaintiffs' consulting expert Blake Esselstyn to process and open the Maptitude files. Legislative Defendants seek to disparage Mr. Esselstyn's Maptitude knowledge, *see* Mot. to Exclude at 21, but Mr. Esselstyn has enormous Maptitude and GIS experience. He has worked professionally with GIS systems for the last 25 years, has had a Maptitude license for years, and specifically lists Maptitude on his Curriculum Vitae as one of the GIS programs in which he specializes. Ex. 20 at 5. Mr. Esselstyn has even taught graduate students at Yale on the use of Maptitude. *Id.* at 3.

Dr. Cooper relied upon Mr. Esselstyn to process and open the Maptitude files, but once Mr. Esselstyn opened those files (with Dr. Cooper watching in real time), Dr. Cooper did not need any specialized Maptitude knowledge to perform his analysis. All Dr. Cooper needed to know is that Maptitude files save the display screens within the files exactly as they existed when the user last saved and closed the file, which is undisputed. From there, Dr. Cooper used his expert knowledge in redistricting and North Carolina's political geography to evaluate how the files reveal Dr. Hofeller's use of partisanship in constructing the districts. *See* 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. G at 2-35.

2. Legislative Defendants contend that Dr. Chen's and Dr. Cooper's analyses are "not based on sufficient facts or data" because the files they reviewed were purportedly "curated for them (i.e., cherry-picked) by Plaintiffs' counsel." Mot. to Exclude at 21-22. Legislative

Defendants repeat this assertion several times, stating that "Dr. Chen and Dr. Cooper relied entirely on Plaintiffs' counsel to provide them" with files, and that "Plaintiffs' counsel, not the experts, chose which maps would be reviewed." *Id.* at 22. This would not be a basis to exclude the experts' testimony even if true, but it is in fact demonstrably false.

Plaintiffs' counsel did not "curate" or "choose" the Maptitude files that Dr. Cooper analyzed in his rebuttal report. Dr. Cooper selected and analyzed the files presented in his report in consultation with Mr. Esselstyn, Plaintiffs' consulting expert. Legislative Defendants cite no evidence for their incorrect statements to the contrary, and there is none.

With respect to Dr. Chen, Legislative Defendants asked him at his deposition, "Who decided what information you received? Was that your decision or was it someone else's decision?" Ex. 19 at 323:8-10. Dr. Chen answered: "sometimes it's the former and sometimes it's the latter." *Id.* at 323:11-20. Dr. Chen then detailed that he—not counsel—selected for review the six Maptitude files described on pages 40-46 of his rebuttal report. *Id.* at 325:13-329:6. Dr. Chen also explained that the Excel files he analyzed were in "two folders called NC 2017 Redistricting and 2017 Redistricting" that Plaintiffs' counsel had Stroz Friedberg send to him. *Id.* at 347:24-348:25. Plaintiffs' counsel did not "curate" these files for Dr. Chen. Counsel had Stroz Friedberg send Dr. Chen two complete folders from Dr. Hofeller's filed that plainly concerned the 2017 Plans, and Dr. Chen analyzed all the files inside. 6/21/19 Mot. *in Limine* to Admit Certain Files of Dr. Thomas B. Hofeller, Ex. F at 76. The only two remaining files are the June 2017 draft maps for which Dr. Chen evaluated their overlap with the final enacted plans. Plaintiffs' counsel had these files sent to Dr. Chen, but without any idea what they would show.

Again, it would be irrelevant to the question of admissibility whether Plaintiffs' counsel selected the files for their experts to review. But Legislative Defendants' claim that Plaintiffs' counsel "cherry-picked" the files that Dr. Chen and Dr. Cooper analyzed is simply not true.

- 3. Legislative Defendants' argument that Dr. Chen's and Dr. Cooper's analyses are "not based on reliable methodology" can be rejected without difficulty. Mot. to Exclude at 23-24. They presented thorough analyses of the files based on their distinct areas of expertise.
- 4. Legislative Defendants' final argument, that "the reports are a mismatch for the facts of the case," is clearly without merit. Mot. to Exclude at 24. Legislative Defendants contend that "[a]n analysis of Dr. Hofeller's computer is not linked to the relevant case issues because Dr. Hofeller had no ability to pass a map." *Id.* While Dr. Hofeller had no ability to "pass" the map, he did have the ability to draw maps, and Legislative Defendants hired him to do just that. His actions and intent in drawing the 2017 Plans are of central relevance to this case.

IV. The Relevant Hofeller Files Are Admissible Even Apart From the Expert Testimony

Once Plaintiffs authenticate the relevant Hofeller files through the testimony of Ms. Hofeller and Mr. Matthews and related evidence, those files will be admissible for the reasons explained in Plaintiffs own motion *in limine* to admit the files, regardless of expert testimony about the files. Although the Court would benefit from expert analysis of the files and such analysis is admissible, the content of the relevant Hofeller files—such as the Excel spreadsheets that show partisan scoring for the districts, or the Maptitude screenshots that show color-coding for the partisanship of VTDs—is also admissible simply as fact evidence. *See, e.g., Peach v. McGovern*, 2019 IL 123156, ¶¶ 40-43 (Ill. 2019) (admitting "postaccident photographs . . . without requiring expert testimony").

V. The Court Should Reject Legislative Defendants' Request to Delay the Trial

This Court should reject Legislative Defendants' alternative request to "continue the trial and allow another 45 days for expert discovery." Mot. to Exclude at 28. Legislative Defendants' complaints regarding the timing of when they received the Hofeller files are without merit for the reasons already explained. Indeed, it would be particularly perverse for Legislative Defendants to obtain the benefit of delay when they are responsible for failing to ensure that these public records were gathered and made public back in 2017. Moreover, Legislative Defendants have already prepared and submitted the "Rebuttal Report" of their expert Dr. Johnson analyzing the relevant Hofeller files, which Legislative Defendants discuss at length in their motion. *See id.* at 26-28. As mentioned, Plaintiffs will not object to Dr. Johnson testifying about the contents of his Rebuttal Report.

Legislative Defendants' request is just the latest in their series of efforts to delay and derail this case. Just weeks after Plaintiffs filed this case, Legislative Defendants passed a bill that purported to significantly extend the time that General Assembly must be afforded to developing remedial districting plans if the current plans are struck down. *See* HB 1029 § 4.7.5 Then, on December 14, 2018, Legislative Defendants baselessly removed this exclusively state-law challenge to federal court. After the federal district court remanded the case several weeks later, Legislative Defendants filed a frivolous motion asking the district court to delay sending the certified remand order back to this Court. *See Common Cause v. Lewis*, No. 18-cv-589, ECF Nos. 46, 53 (E.D.N.C.). Thereafter, Legislative Defendants requested a trial date that would have made it impossible to implement remedial plans in time for the next election.

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⁵ This amendment cannot be lawfully applied to this case that was already-filed when the bill was passed, and the provision is unconstitutional in any event if it would prevent the implementation of remedial plans.

Legislative Defendants' new request is just their latest effort to run out the clock. This

Court should deny the request, deny Legislative Defendants' motion to exclude, and hold that the
relevant Hofeller files are admissible.

CONCLUSION

For the reasons stated above, Plaintiffs request that the Court deny Legislative

Defendants' motion to exclude the Hofeller files at trial.

Respectfully submitted this the 1st day of July, 2019

POYNER SPRUILL LLP

By: /s/Edwin M. Speas, Jr.
Edwin M. Speas, Jr.
N.C. State Bar No. 4112
Caroline P. Mackie
N.C. State Bar No. 41512
P.O. Box 1801
Raleigh, NC 27602-1801
(919) 783-6400
espeas@poynerspruill.com

Counsel for Common Cause, the North Carolina Democratic Party, and the Individual Plaintiffs

ARNOLD AND PORTER KAYE SCHOLER LLP

R. Stanton Jones*
David P. Gersch*
Elisabeth S. Theodore*
Daniel F. Jacobson*
601 Massachusetts Avenue NW
Washington, DC 20001-3743
(202) 954-5000
stanton.jones@arnoldporter.com

PERKINS COIE LLP

Marc E. Elias* Aria C. Branch* 700 13th Street NW Washington, DC 20005-3960 (202) 654-6200 melias@perkinscoie.com

Abha Khanna*
1201 Third Avenue, Suite 4900
Seattle, WA 98101-3099
(206) 359-8000
akhanna@perkinscoie.com

Counsel for Common Cause and the Individual Plaintiffs

*Admitted Pro Hac Vice

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the foregoing *by email*, addressed to the following persons at the following addresses which are the last addresses known to me:

Amar Majmundar Phillip J. Strach
Stephanie A. Brennan Michael McKnight
Paul M. Cox Alyssa Riggins

NC Department of Justice Ogletree, Deakins, Nash, Smoak & Stewart,

P.O. Box 629 P.C.

114 W. Edenton St. 4208 Six Forks Road, Suite 1100

Raleigh, NC 27602 Raleigh, NC 27609

amajmundar@ncdoj.gov Phillip.strach@ogletree.com sbrennan@ncdoj.gov Michael.mcknight@ogletree.com pcox@ncdoj.gov Alyssa.riggins@ogletree.com

Counsel for the State Board of Elections and Counsel for the Legislative Defendants

its members

John E. Branch III

Nathaniel J. Pencook

Andrew Brown

Shanahan Law Group, PLLC

E. Mark Braden

Richard B. Raile

Trevor M. Stanley

Baker & Hostetler, LLP

128 E. Hargett Street, Suite 300 Washington Square, Suite 1100 Raleigh, NC 27601 1050 Connecticut Ave., N.W.

jbranch@shanahanlawgroup.com Washington, DC 20036-5403 npencook@shanahanlawgroup.com rraile@bakerlaw.com

abrown@shanahanlawgroup.com mbraden@bakerlaw.com

Counsel for the Defendant-Intervenors tstanley@bakerlaw.com

Counsel for the Legislative Defendants

This the 1st day of July, 2019.

/s/Edwin M. Speas, Jr.

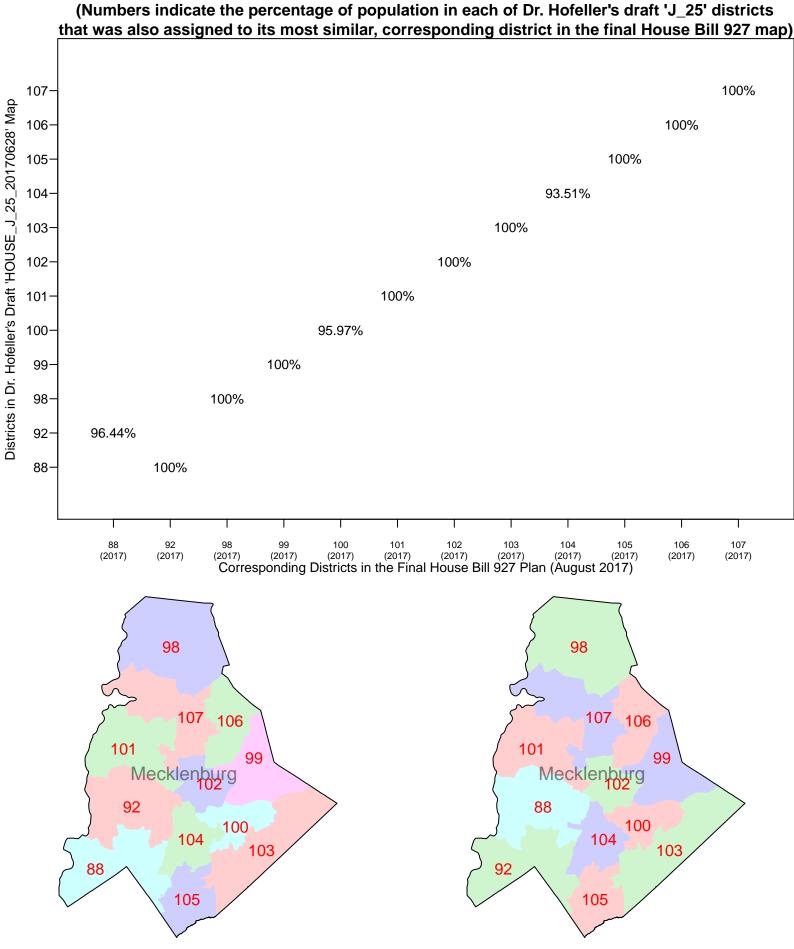
Edwin M. Speas, Jr.

EXHIBIT 1

Figure 1:

Mecklenburg County Grouping

(Numbers indicate the percentage of population in each of Dr.

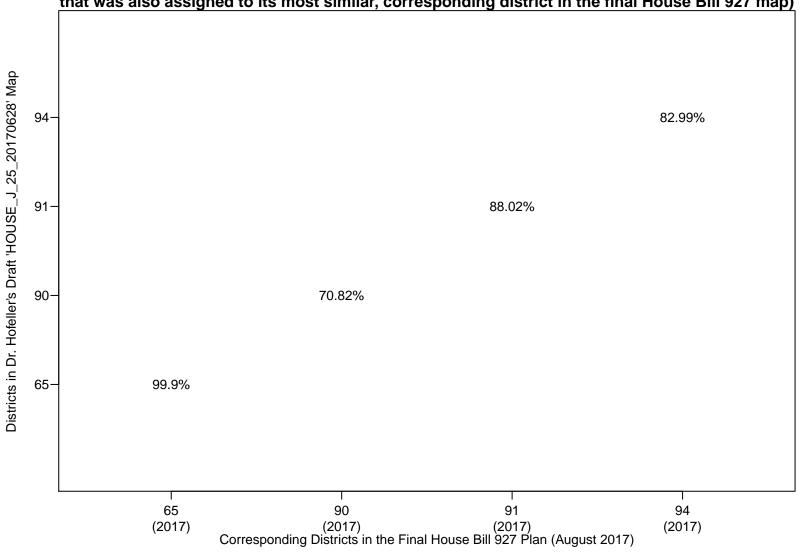


House Bill 927 Plan (12 Districts)

HOUSE_J_25_20170628.shp (Hofeller)

Figure 2:

Alexander-Alleghany-Rockingham-Stokes-Surry-Wilkes County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts that was also assigned to its most similar, corresponding district in the final House Bill 927 map)



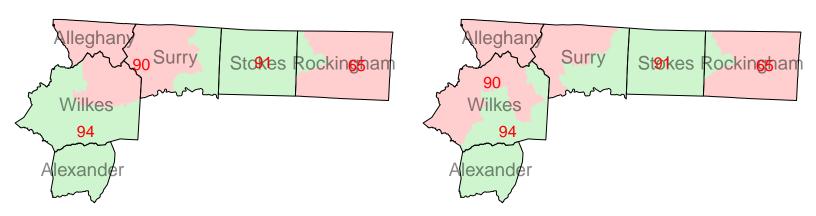


Figure 3:

Bladen-Greene-Harnett-Johnston-Lee-Sampson-Wayne County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts that was also assigned to its most similar, corresponding district in the final House Bill 927 map)

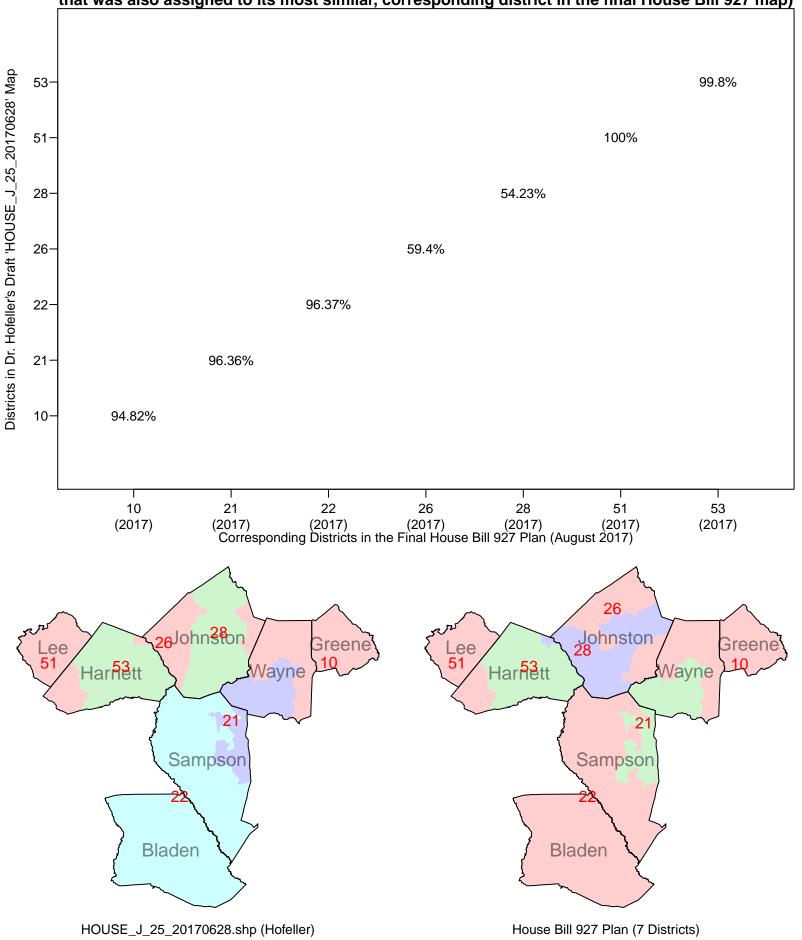
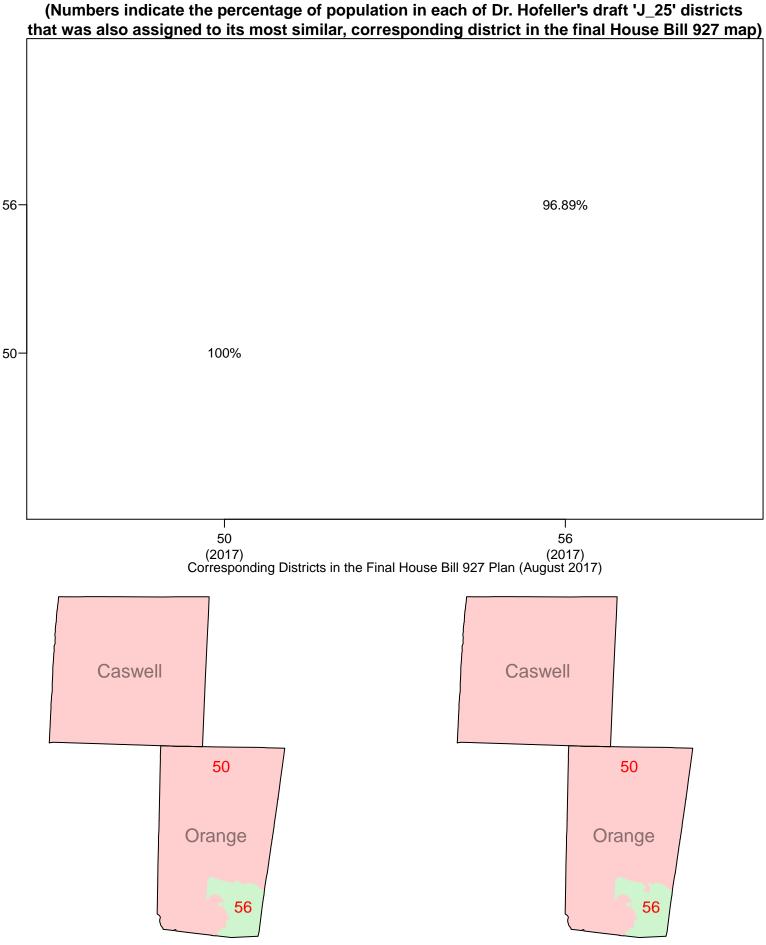


Figure 4:

Caswell–Orange County Grouping

(Numbers indicate the percentage of population in each of Dr. H

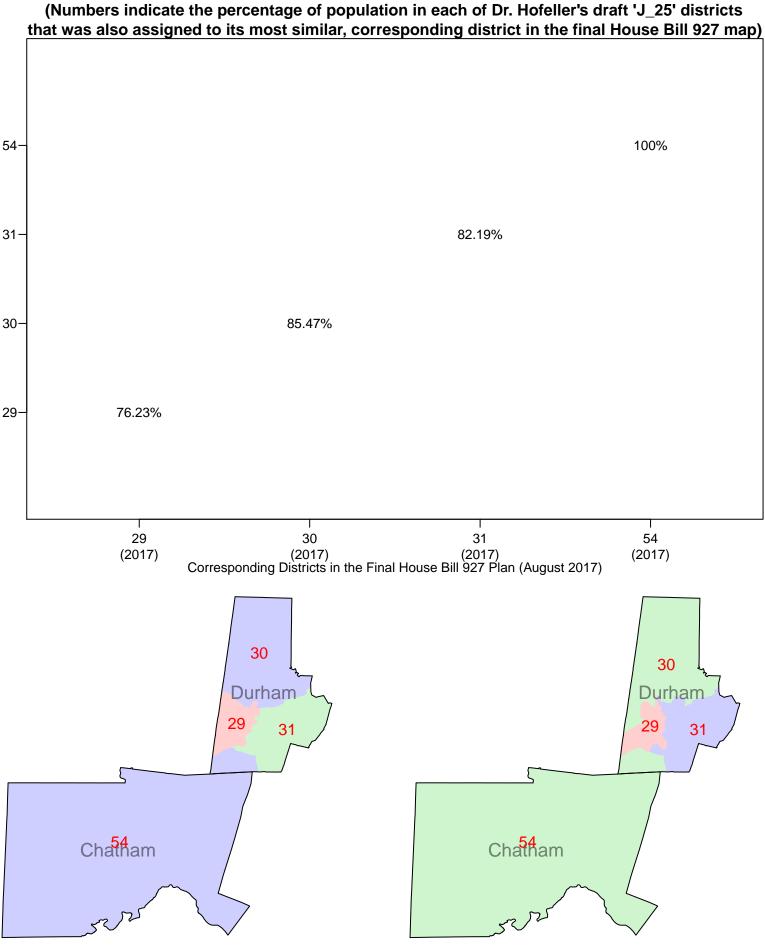


Districts in Dr. Hofeller's Draft 'HOUSE_J_25_20170628' Map

House Bill 927 Plan (2 Districts)

Figure 5:
Chatham–Durham County Grouping
(Numbers indicate the percentage of population in each of Dr. He

Districts in Dr. Hofeller's Draft 'HOUSE_J_25_20170628' Map

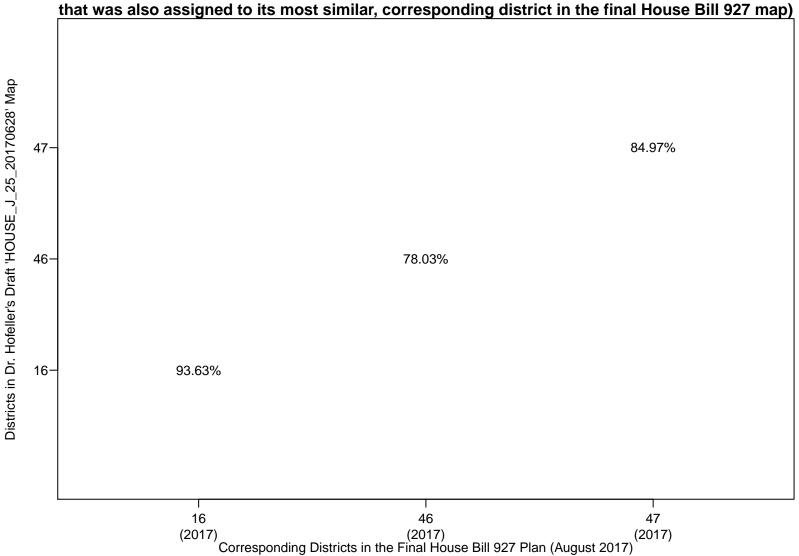


House Bill 927 Plan (4 Districts)

Figure 6:

Columbus-Pender-Robeson County Grouping

(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts



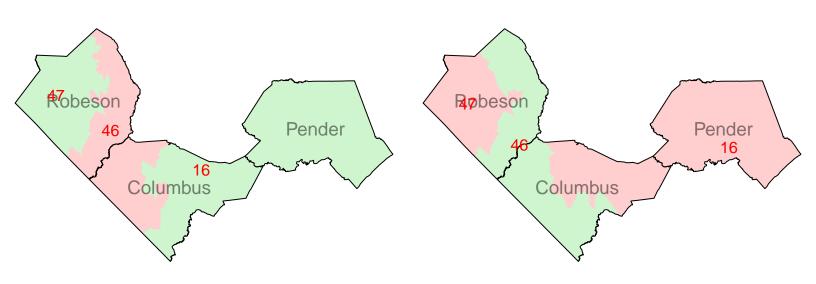
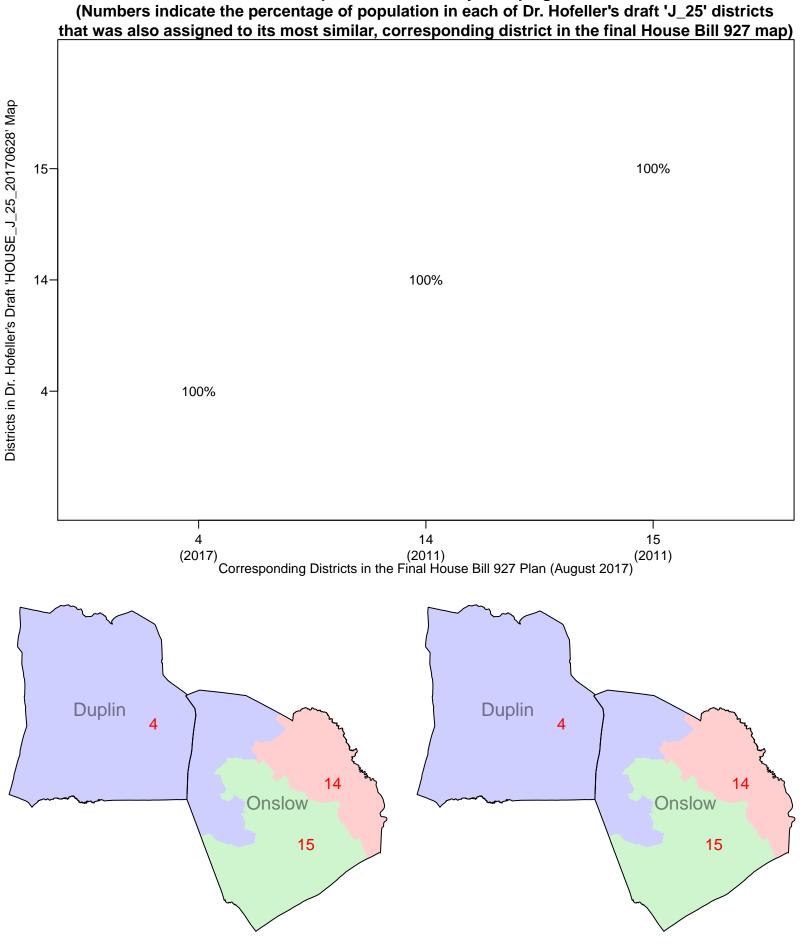


Figure 7:

Duplin-Onslow County Grouping

(Numbers indicate the percentage of population in each of Dr. I



House Bill 927 Plan (3 Districts)

HOUSE_J_25_20170628.shp (Hofeller)

Figure 8:

Forsyth-Yadkin County Grouping

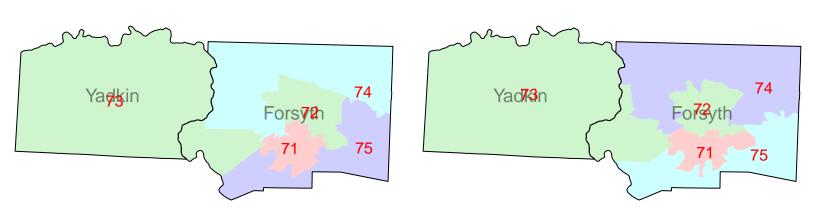
(Numbers indicate the percentage of population in each of Dr. Ho

(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts that was also assigned to its most similar, corresponding district in the final House Bill 927 map)

75
93.13%

75
94.88%

75
94.88%



73

(2017) (2017) (2017) Corresponding Districts in the Final House Bill 927 Plan (August 2017)

72

71

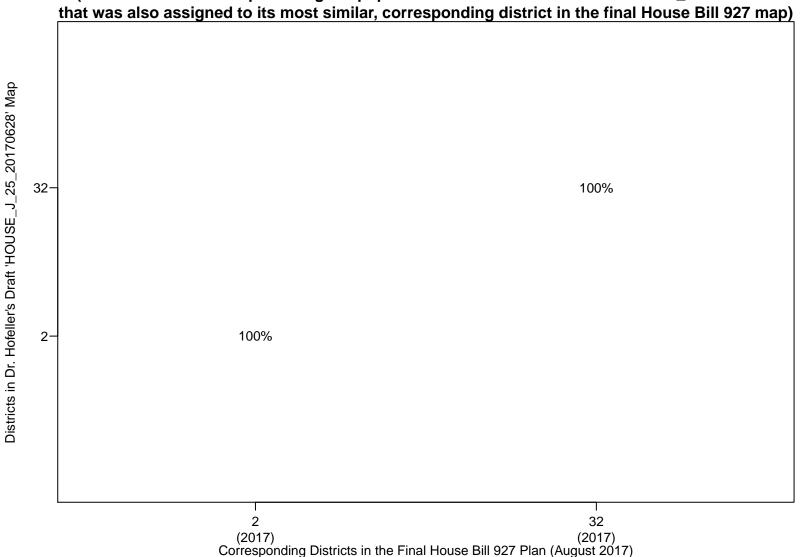
(2017)

74

75

(2017)

Figure 9:
Granville–Person–Vance–Warren County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts
that was also assigned to its most similar, corresponding district in the final House Bill 927 ma



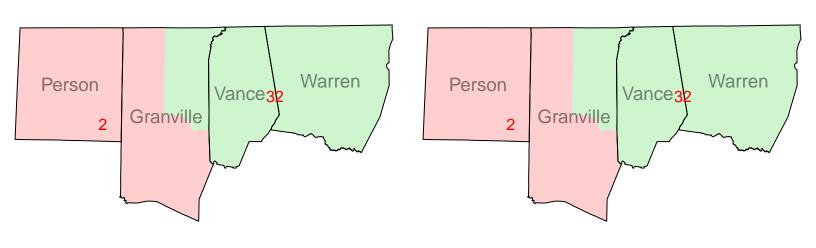
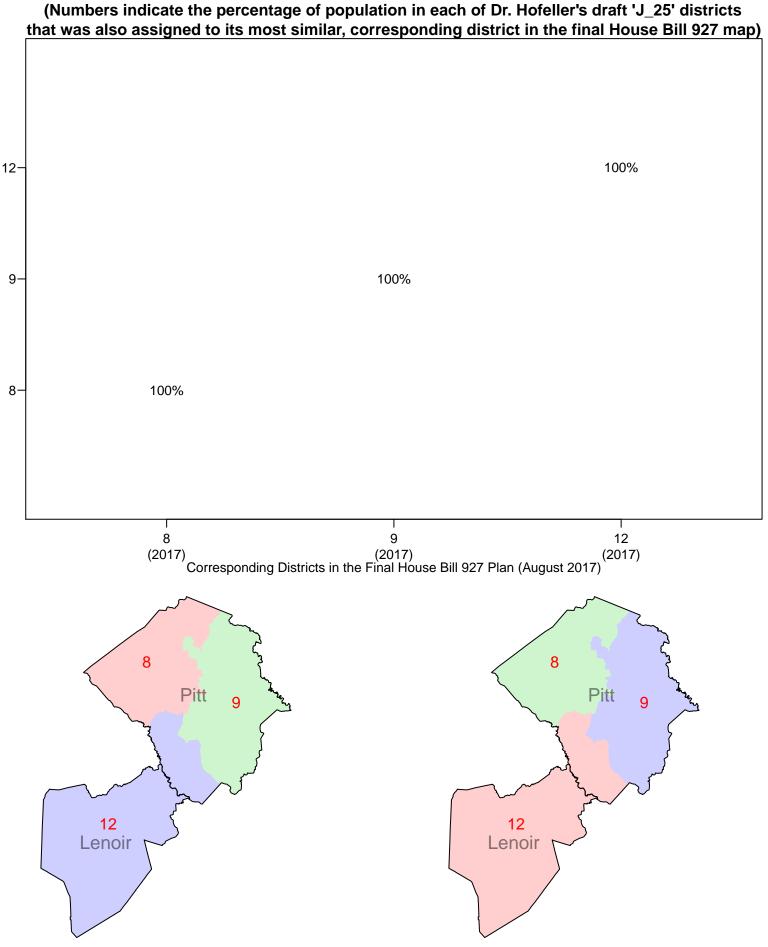


Figure 10:

Lenoir-Pitt County Grouping

(Numbers indicate the percentage of population in each of Di

Districts in Dr. Hofeller's Draft 'HOUSE_J_25_20170628' Map

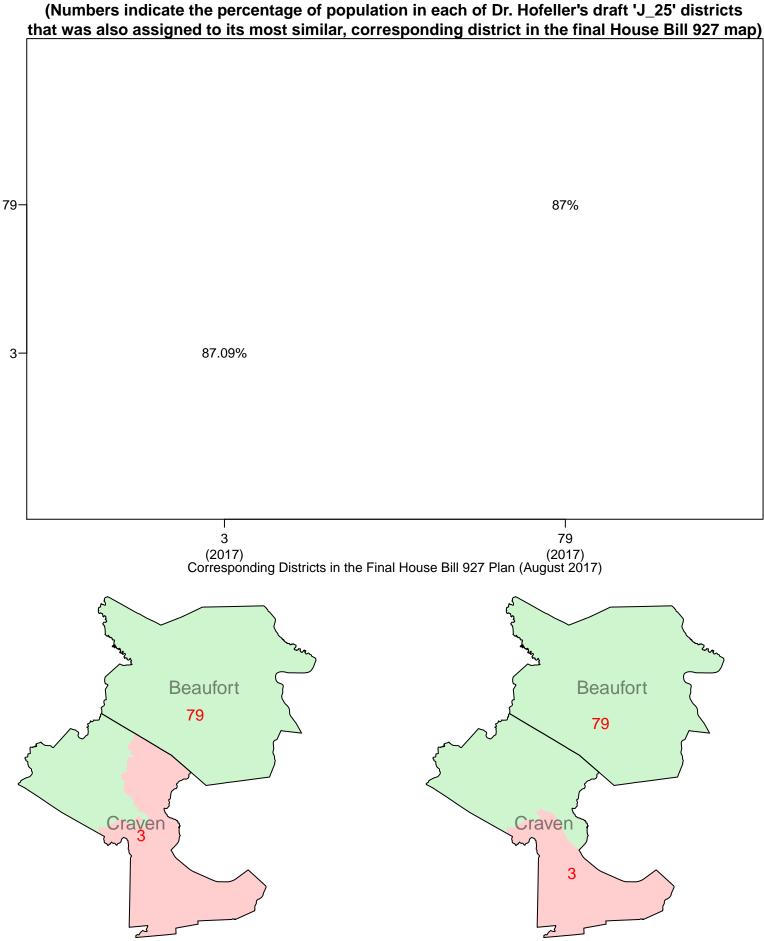


House Bill 927 Plan (3 Districts)

Figure 11:

Beaufort–Craven County Grouping

(Numbers indicate the percentage of population in each of Dr. He



House Bill 927 Plan (2 Districts)

Figure 12:

Cabarrus-Davie-Montgomery-Richmond-Rowan-Stanly County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts that was also assigned to its most similar, corresponding district in the final House Bill 927 map)

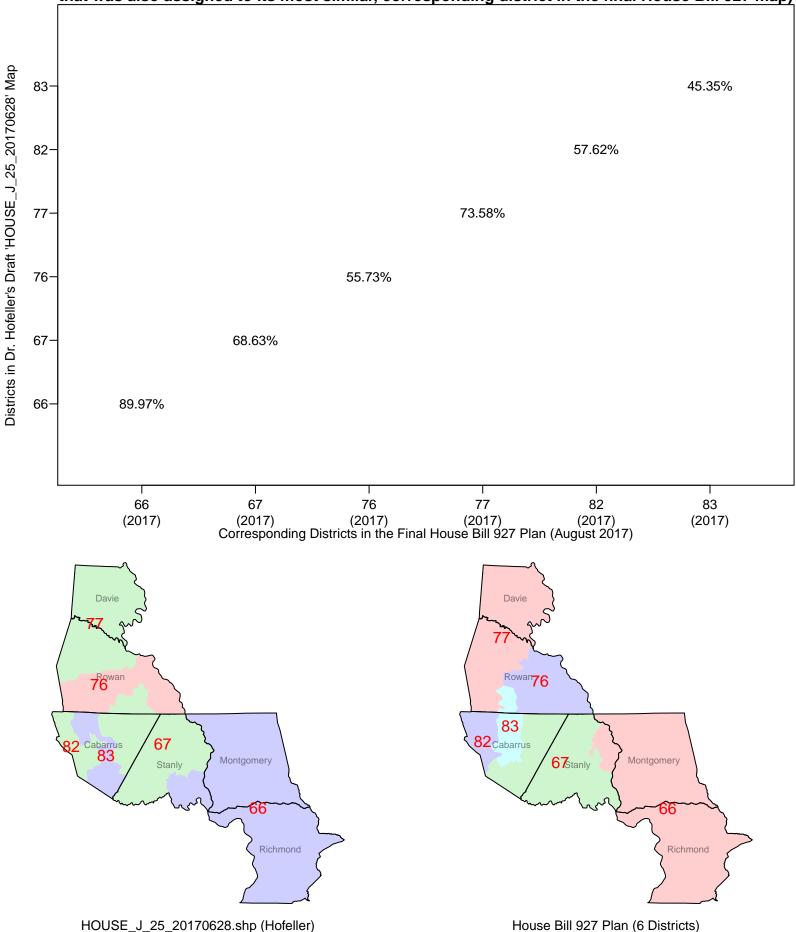
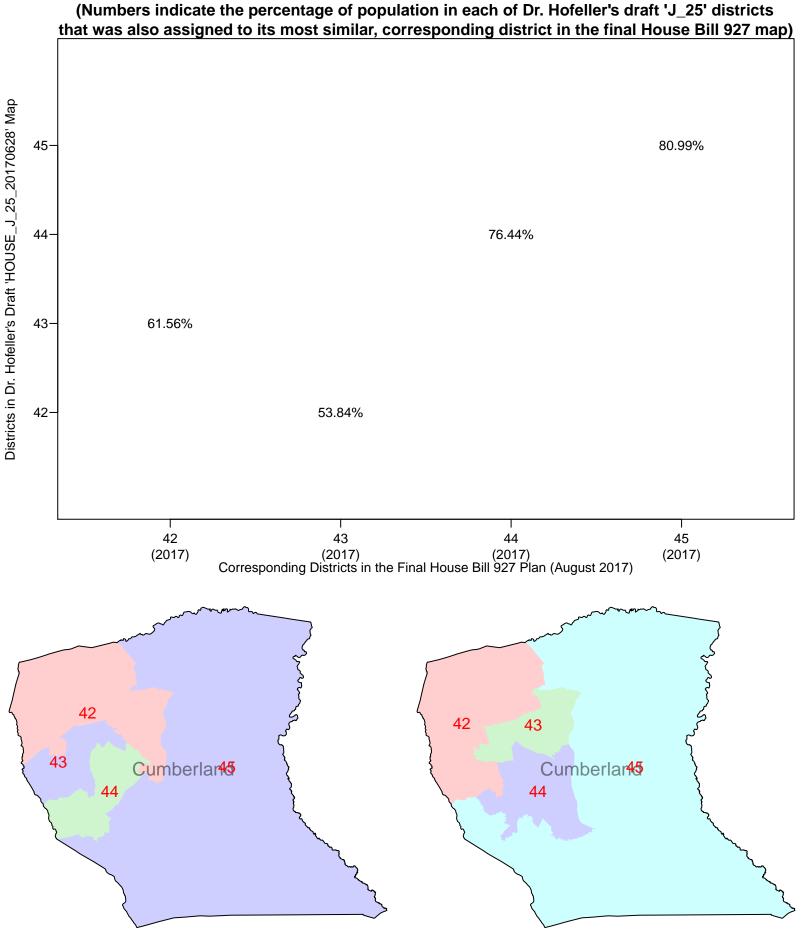


Figure 13:

Cumberland County Grouping

(Numbers indicate the percentage of population in each of Dr. Hofeller)



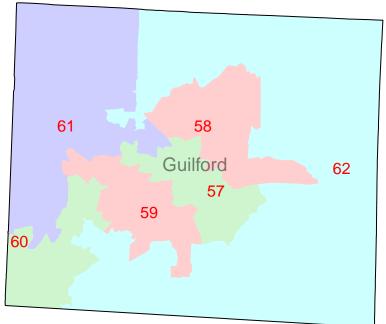
House Bill 927 Plan (4 Districts)

Figure 14:
Franklin–Nash County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts

that was also assigned to its most similar, corresponding district in the final House Bill 927 map) Districts in Dr. Hofeller's Draft 'HOUSE_J_25_20170628' Map 25-76.45% 7-75.02% 7 25 (2017)
Corresponding Districts in the Final House Bill 927 Plan (August 2017) Franklin Franklin 25 Nash Nash 25

Figure 15: **Guilford County Grouping**

(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_25' districts that was also assigned to its most similar, corresponding district in the final House Bill 927 map) Districts in Dr. Hofeller's Draft 'HOUSE_J_25_20170628' Map 62-73.27% 61-68.06% 60-80.35% 59-82.15% 58-49.6% 57 51.47% 57 62 58 59 60 61 (2017) (2017) (2017) (2017) Corresponding Districts in the Final House Bill 927 Plan (August 2017) (2017)(2017)62 61 58 Guilford Guilford 62



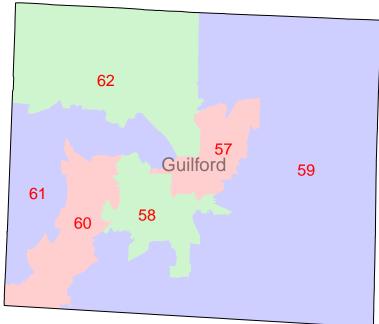
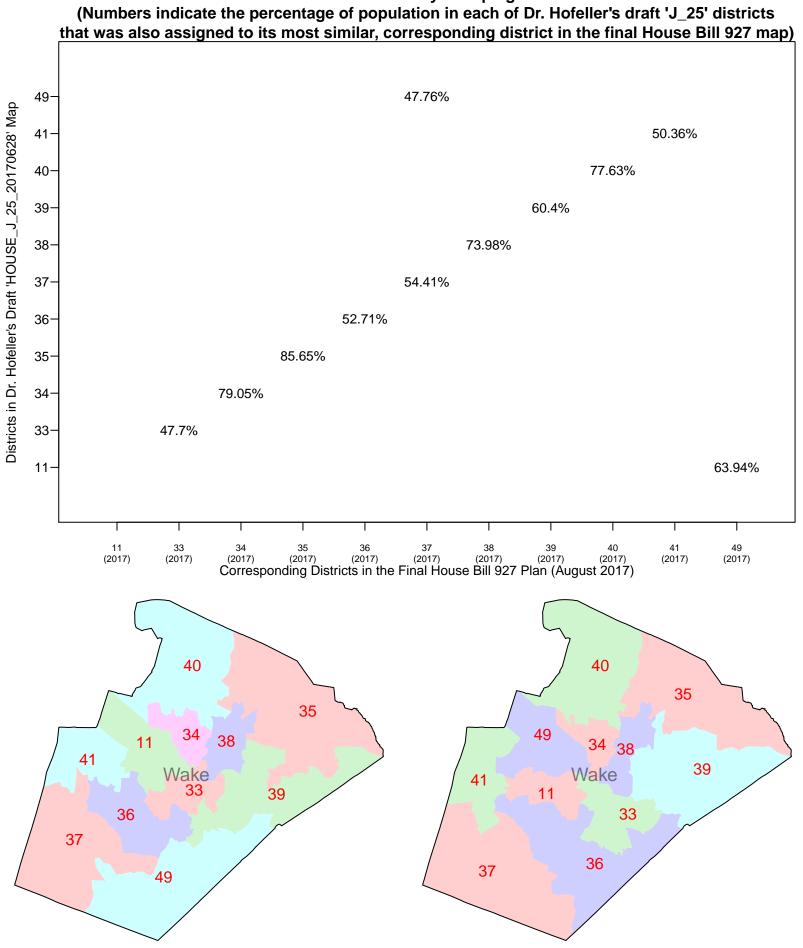


Figure 16:

Wake County Grouping

(Numbers indicate the percentage of population in each of



House Bill 927 Plan (11 Districts)

Figure 17

Alamance–Guilford–Randolph County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_24' districts that was also assigned to its most similar, corresponding district in the final Senate Bill 691 map)

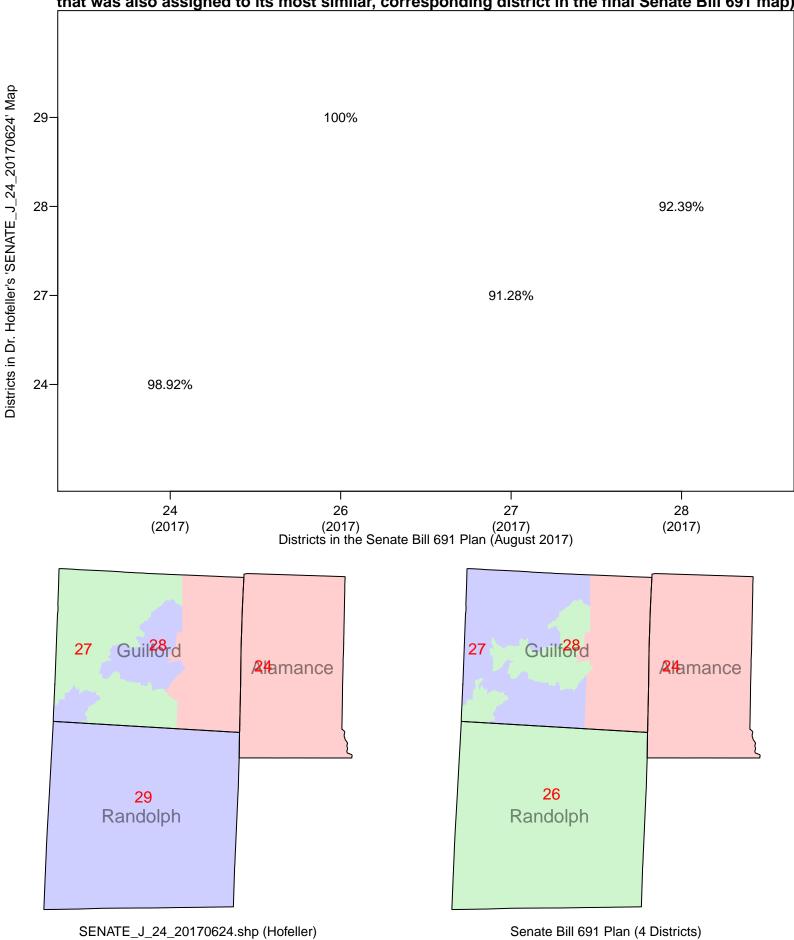
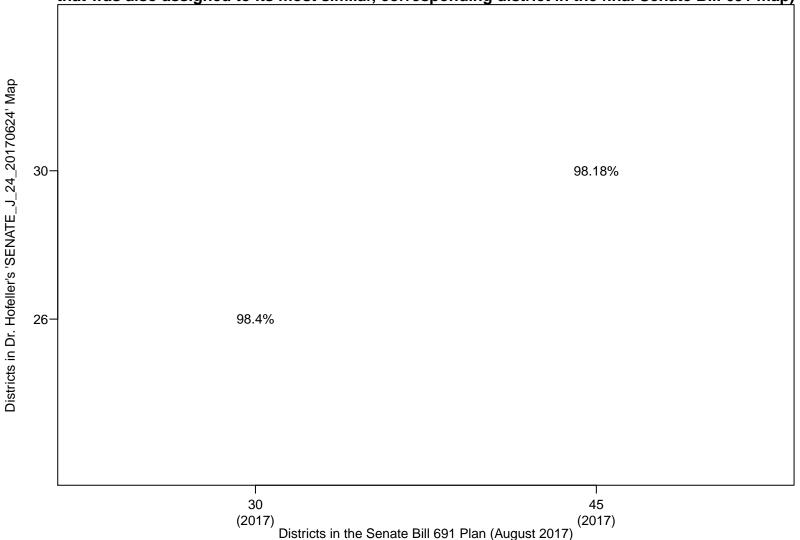


Figure 18 Alleghany-Ashe-Caswell-Rockingham-Stokes-Surry-Watauga-Wilkes County Grouping (Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_24' districts that was also assigned to its most similar, corresponding district in the final Senate Bill 691 map)



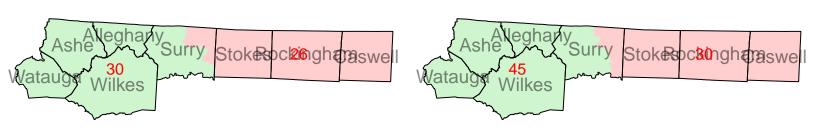
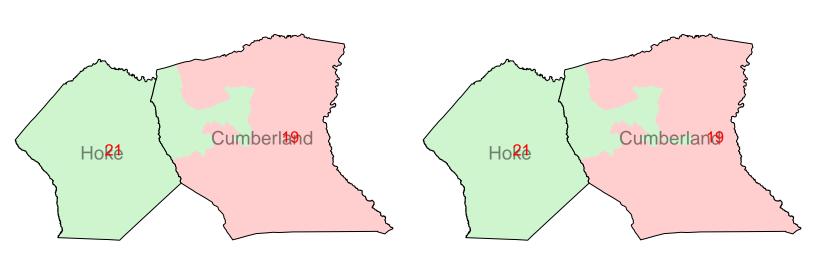


Figure 19 **Cumberland-Hoke County Grouping**

(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_24' districts that was also assigned to its most similar, corresponding district in the final Senate Bill 691 map) Districts in Dr. Hofeller's 'SENATE_J_24_20170624' Map 21-100% 19-99.42%



Districts in the Senate Bill 691 Plan (August 2017)

19

(2017)

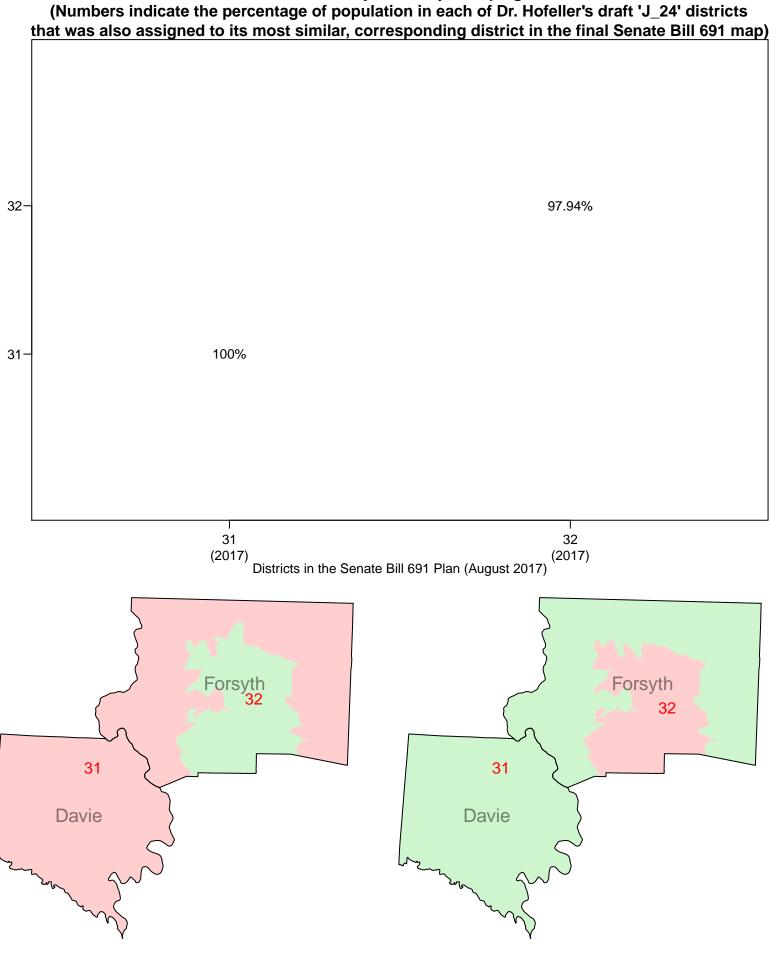
21

(2017)

Figure 20
Davie–Forsyth County Grouping

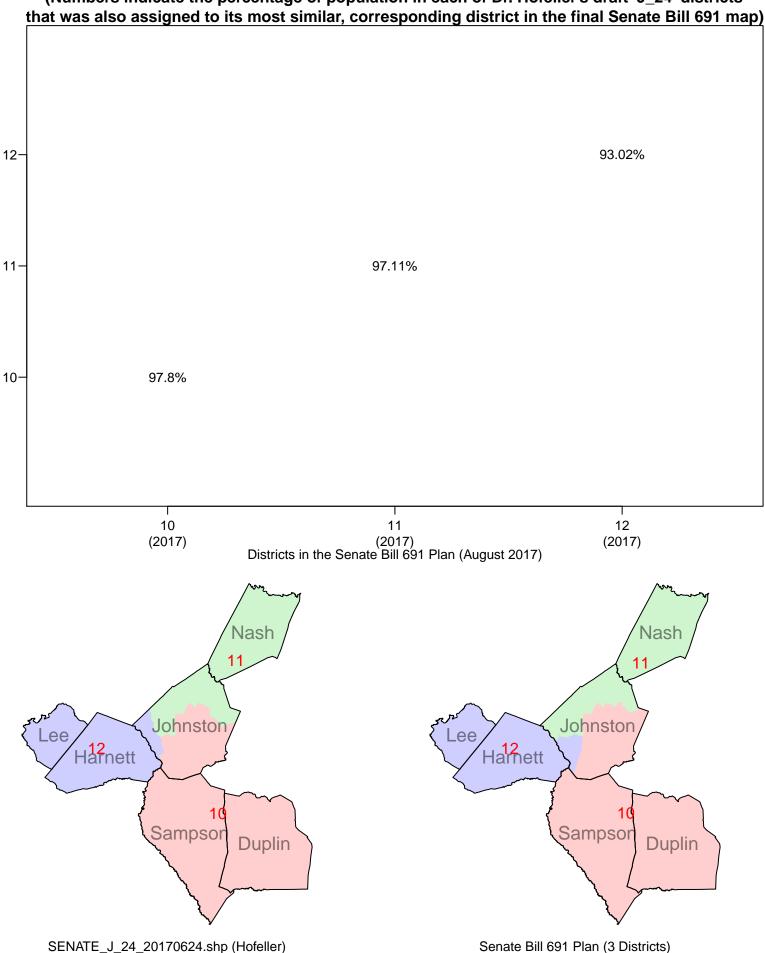
SENATE_J_24_20170624.shp (Hofeller)

Districts in Dr. Hofeller's 'SENATE_J_24_20170624' Map



Senate Bill 691 Plan (2 Districts)

Figure 21
Duplin–Harnett–Johnston–Lee–Nash–Sampson County Grouping
(Numbers indicate the percentage of population in each of Dr. Hofeller's draft 'J_24' districts
that was also assigned to its most similar, corresponding district in the final Senate Bill 691 map

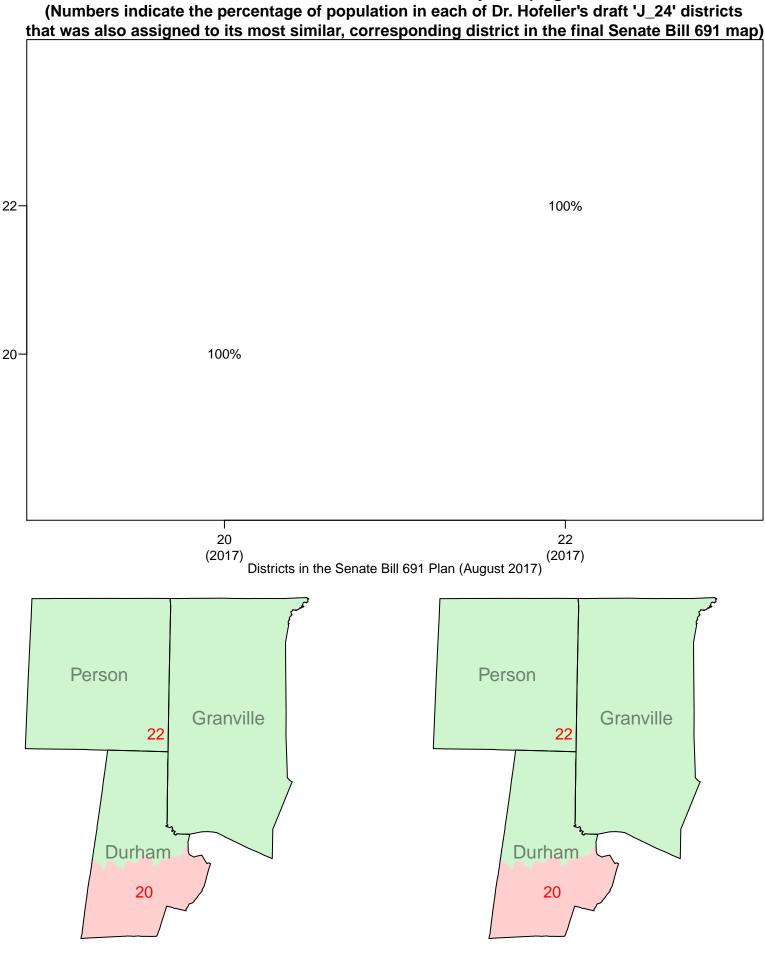


Districts in Dr. Hofeller's 'SENATE_J_24_20170624' Map

Figure 22

Durham–Granville–Person County Grouping

(Numbers indicate the percentage of population in each of Dr. Hofelle



SENATE_J_24_20170624.shp (Hofeller)

Districts in Dr. Hofeller's 'SENATE_J_24_20170624' Map

Senate Bill 691 Plan (2 Districts)

Figure 23
Franklin-Wake County Grouping

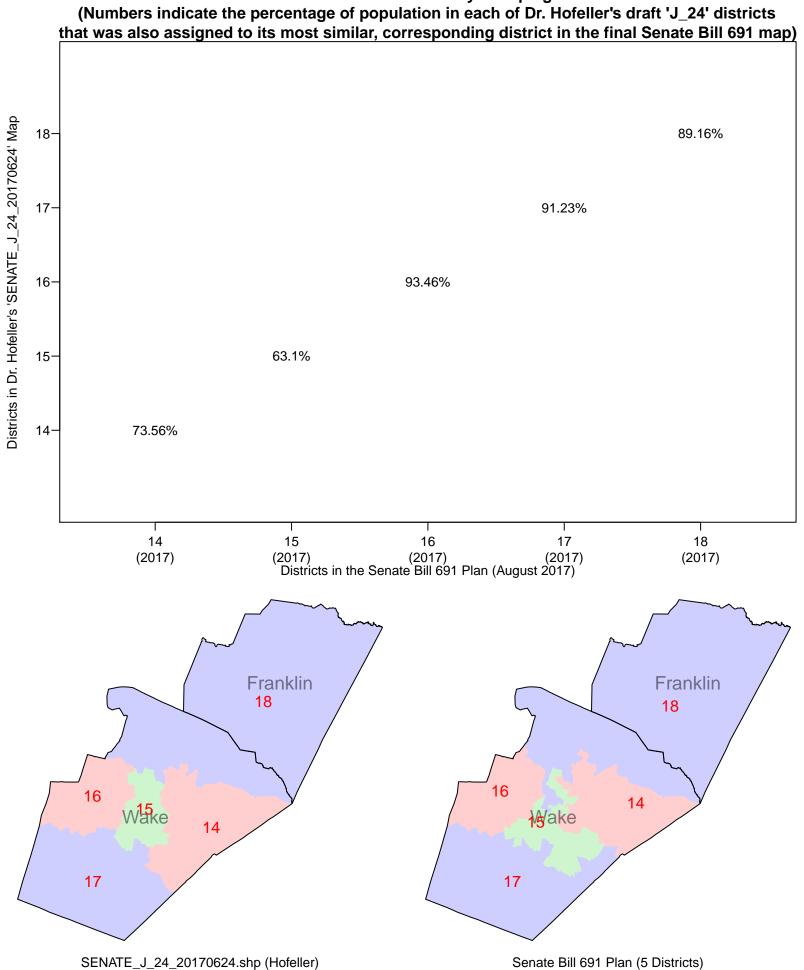
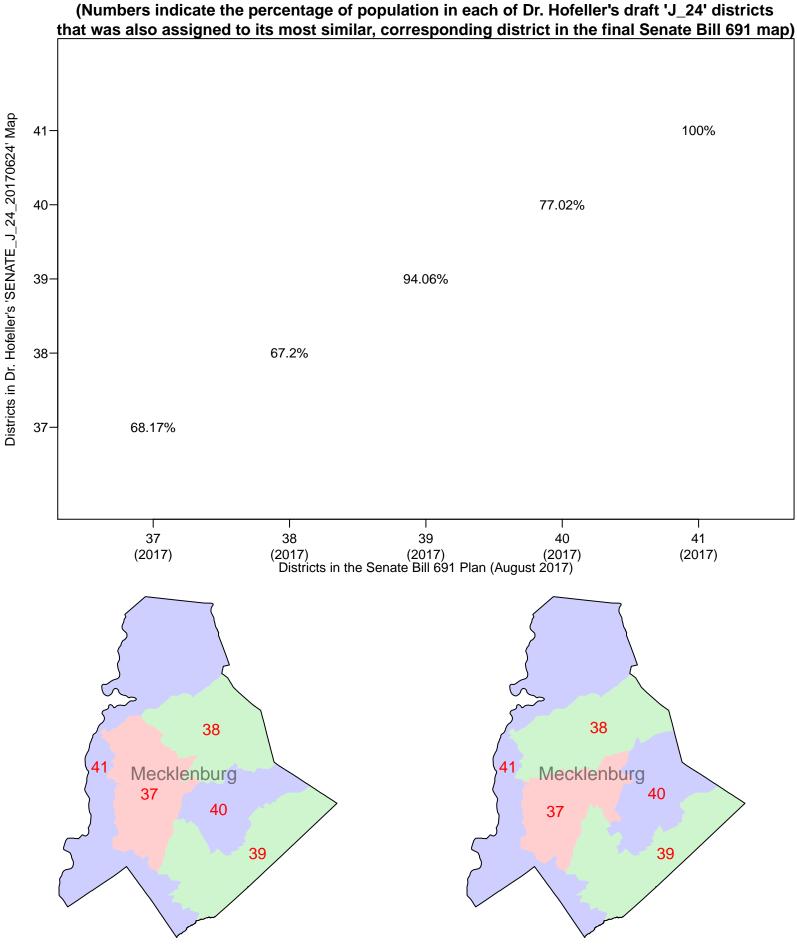


Figure 24

Mecklenburg County Grouping



Senate Bill 691 Plan (5 Districts)

SENATE_J_24_20170624.shp (Hofeller)

Figure 25: Screenshot of Dataview Window For Dr. Hofeller's "NC House J-25003.bak.zip" Draft Plan (August 14, 2017)

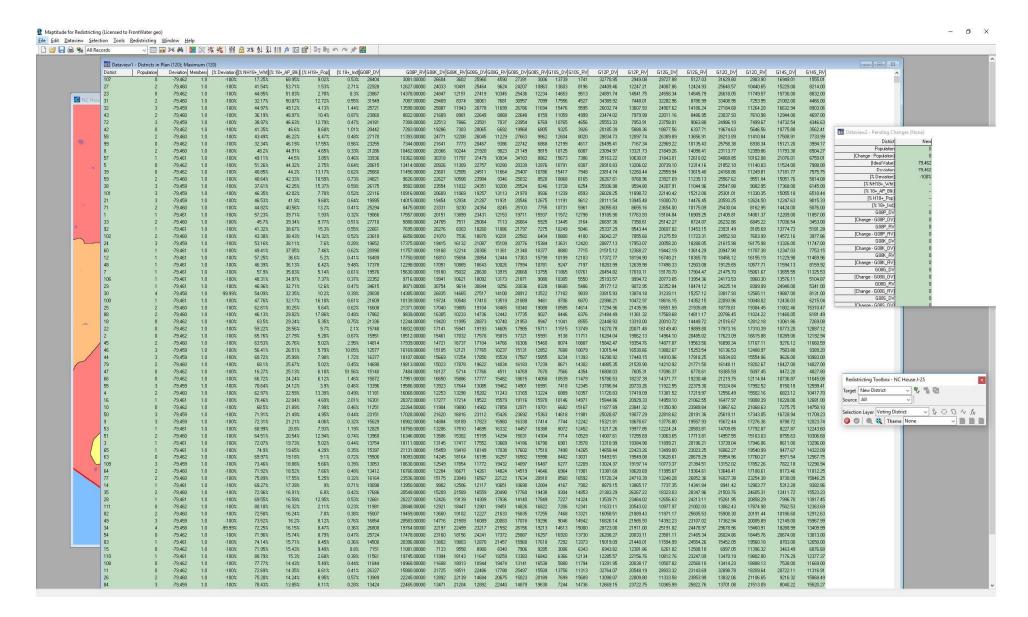


Figure 26: Screenshot of Dataview Window For Dr. Hofeller's "NC House J-25003.bak.zip" Draft Plan (August 14, 2017)

All Re	cords	~ III I	M X	X X X	% ¥ 6	3 × 8 2	fx Σx 🔝	□t Bt	n n A
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	District	Population				NH18+_Wht][%	18+ AP BIKI I%	H18+ Popil	[% 18+_Ind]
	107	0	-79,462	1.0	-100%	17.25%	68.95%	9.02%	0.53%
	27	2	-79,460	1.0	-100%	41.54%	53.71%	1.53%	2.71%
	23	0	-79,462	1.0	-100%	44.85%	51.83%	2.78%	0.3%
MC Hau		2	-79,460	1.0	-100%	32.17%	50.87%	12.72%	0.55%
	32	3	-79,459	1.0	-100%	44.97%	49.12%	4.13%	1.44%
	43	2	-79,460	1.0	-100%	36.19%	48.97%	10.4%	0.87%
	72	3	-79,459	1.0	-100%	38.97%	46.63%	12.79%	0.47%
	42	0	-79,462	1.0	-100%	41.35%	46.6%	8.68%	1.01%
	58	2	-79,460	1.0	-100%	43.49%	46.22%	6.47%	0.48%
10	99	0	-79,462	1.0	-100%	32.34%	46.19%	17.55%	0.56%
	8	2	-79,460	1.0	-100%	48.2%	44.91%	4.65%	0.33%
	57	1	-79,460	1.0	-100%	49.11%	44.5%	3.85%	0.46%
	5	0	-79,461	1.0	-100%	51.26%	44.32%	2.75%	0.46%
- 40	39	0	-79,462	1.0	-100%	40.85%	44.32%	13.17%	0.62%
	59	2	-79,460	1.0		40.64%	42,33%	10.59%	0.62%
	NY 1970				-100%				
	38	3	-79,459	1.0	-100%	37.61%	42.25%	15.37%	0.59%
	101	3	-79,459	1.0	-100%	46,35%	42.02%	7.78%	0.52%
160	21	3	-79,459	1.0	-100%	46.53%	41.9%	9.68%	0.64%
11.600	71	2	-79,460	1.0	-100%	44.82%	40.56%	13.2%	0.41%
	1	1	-79,461	1.0	-100%	57.23%	39.71%	1.93%	0.32%
27	33	2	-79,460	1.0	-100%	45.7%	39.34%	9.77%	0.51%
	92	1	-79,461	1.0	-100%	41.32%	38.67%	15.3%	0.55%
~	102	2	-79,460	1.0	-100%	43.38%	38.43%	14.32%	0.52%
-	24	3	-79,459	1.0	-100%	53.16%	38.11%	7.6%	0.28%
	60	্র	-79,461	1.0	-100%	49,41%	37.05%	7.46%	0.62%
	12	1	-79,461	1.0	-100%	57.25%	36.6%	5.2%	0,41%
	48	7	-79,461	1.0	-100%	46.39%	36.13%	6.42%	9.48%
**	7	1	-79,461	1.0	-100%	57.9%	35,83%	5.14%	0.61%
	106	া	-79,461	1.0	-100%	48.31%	34.97%	7.37%	0.37%
	29	1	-79,461	1.0	-100%	46.96%	32.71%	12.6%	0,47%
	30	4	-79,458	1.0	-99.99%	54.09%	32,35%	10.2%	0.39%
	100	1	-79,461	1.0	-100%	47.76%	32.17%	16.18%	0.61%
	25	2	-79,460	1.0	-100%	62.61%	30.25%	5.64%	0.62%
	88	2	-79,460	1.0	-100%	46.13%	29.82%	17.86%	0,48%
	18	0	-79,462	1.0	-100%	63.5%	29.24%	5.35%	0.75%
	22	0	-79,462	1.0	-100%	59,22%	28.56%	9.7%	2.1%
	2	0	-79,462	1.0	-100%	65.76%	27.79%	5.28%	0.67%
	45	2	-79,460	1.0	-100%	63.53%	26.76%	5.02%	2,95%
	46	3	-79,459	1.0	-100%	56.41%	26.51%	5.79%	10.05%
	44	3	-79,459	1.0	-100%	60.72%	25.99%	7.98%	1.72%
	79	2	-79,460	1.0	-100%	68.1%	25,67%	5.02%	0.45%
	47	0	-79,462	1.0	-100%	16.27%	25.13%	6.18%	51.56%
	66	0	-79,462	1.0	-100%	66.72%	24.24%	6.12%	1.46%
	55	3	-79,459	1.0	-100%	70.64%	24.12%	3.9%	0.46%
	4	2	-79,460	1.0	-100%	62.97%	22.59%	13.39%	0.49%
	16	1	-79,461	1.0	-100%	70.46%	22.04%	4.69%	2.01%

Figure 27: Screenshot of "Formula" Window and District Labels For Dr. Hofeller's "NC House J-25003.bak.zip" Draft Plan (August 14, 2017)

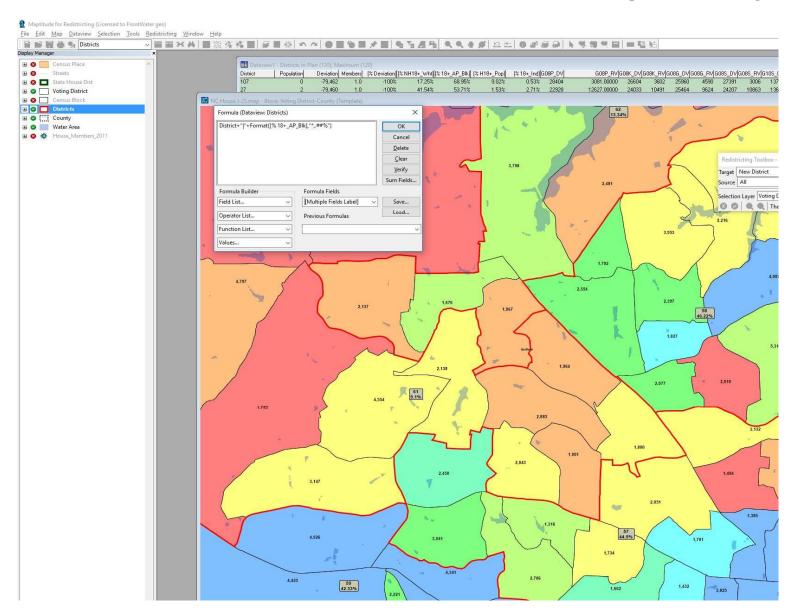


Figure 28: Screenshot of District Labels Reporting Racial Characteristics of Dr. Hofeller's "NC House J-25003.bak.zip" Draft Plan (August 14, 2017)

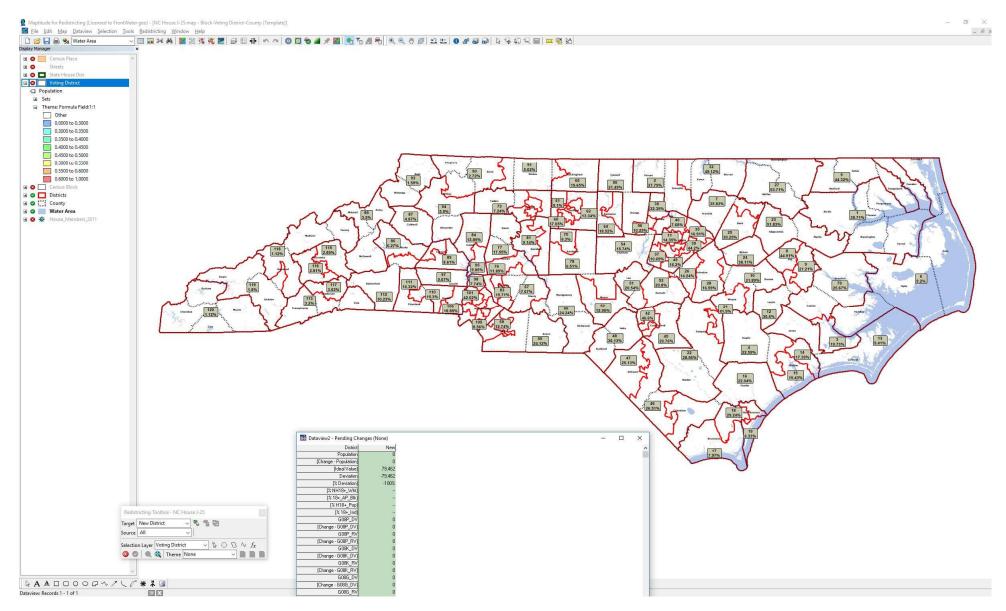


Figure 29: Screenshot of Dataview Window For Dr. Hofeller's "NC Senate J-23005.bak.zip" Draft Plan (August 13, 2017)

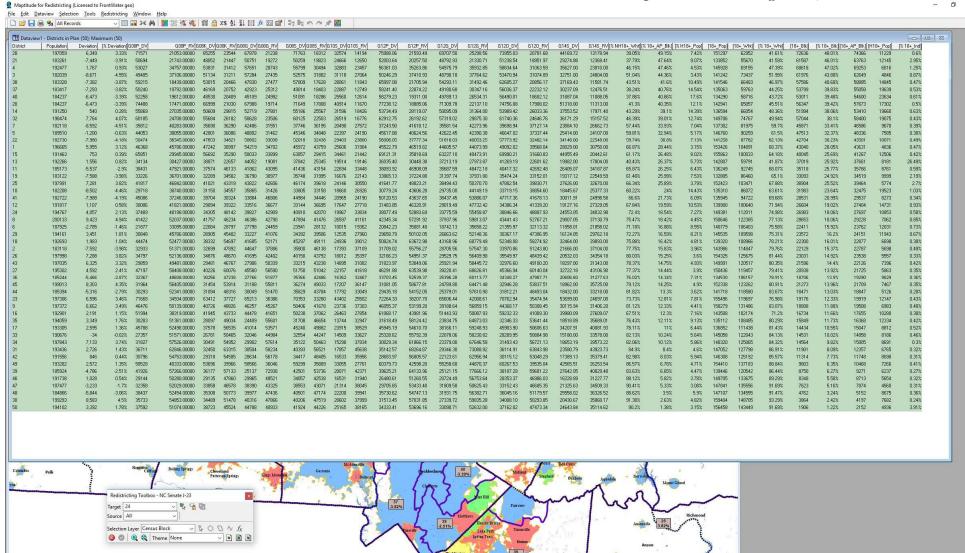


Figure 30:

Dr. Hofeller's "FORMULA FOR POLITICAL ANALYSIS OF LEGISLATIVE DISTRICTS.doc"

FORMULA FOR POLITICAL ANALYSIS OF LEGISLATIVE DISTRICTS USING 2-PARTY VOTE

(G08P_RV+G08G_RV+G08S_RV+G08K_RV+G12P_RV+G12G_RV+G12O_RV+G10S_RV+G14S_RV)/(G08P_DV+G08P_RV+G08G_DV+G08G_RV+G08S_DV+G08S_RV+G08K_DV+G08K_RV+G12P_DV+G12P_RV+G12G_DV+G12G_RV+G12O_DV+G12O_RV+G10S_DV+G10S_RV+G14S_DV+G14S_RV)

2008 President
2008 Governor
2008 U. S. Senate
2008 insurance Commissioner
2010 U. S. Senate
2012 President
2012 Governor
2012 Commissioner of Labor
2014 U. S. Senate

Note: The full filepath location of this file is:

"C\C\Seagate Dashboard 2.0\TOSHIBA-PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b-ea77894bb5b2\20161025_151544_toshibaInc1350\C\Users\toshiba\Documents\Tom\2017 Redistricting\FORMULA FOR POLITICAL ANALYSIS OF LEGISLATIVE DISTRICTS.docx"

Figure 31: Screenshot of Dr. Hofeller's Draft Plan File: "NC House Plan June 7.xls"

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196	,421	271,714	72.29%	9261	23181	8859	22615	11084	1 20486	11435	19795	4029	14213	8662.72	27236.36	7851.95	27897.23	9481.84	25565.66	4628.4541	15431.368	,
218	,982	306,185	71.52%	10655	26663	10734		10613			22826	6222	17732	10098.75	28047.94	7716.87	30321	11761.33		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17119.999	j
168	,461	236,467	71.24%	8939	21173			10289	18905	10762	18244	3558	12749	7463.86	21078.91	6346.6		7916.02			13549.006	j
	,540	280,147	70.51%	10239	23827	9778		12055				4779	15452	9534.17	25996.84	8260.95	26890.01	10330.9			15617	
	,582	290,677	68.32%	11713	23631	11503		10691			20333	6958	15653	11024.15	25266.02	8229.03					15860	
	,709	268,964	67.19%	10987	22714			12848			19452	6014	15873	9751.89	23342.98	8724.28		10488.8				
	,836	292,985	67.18%	11574	24764	12034		13664				7929	17024	10173.05	24586.91	8567.38	26251.5				15914.529	
	,235	283,345	67.14%	11767	23134			11433				6077	14252	11501.98	23984.96	8873.76				6909	14193	
	,233	277,260	66.45%	12222	22076			11194			1 - 10963334	6177	13998	11353.09	22956.02	8620.75				6521	13868	
	,312	278,080	65.92%	12065	22497	11996						6908	14382	10896.96	23228.13	8402.69					13308	
197		300,006	65.90%	13876	22652	12706		10950				5680	14174	13403.15	25566.11	9674.09	28752.67	13236.14			15724.949	
	,959	290,025	65.84%	12526	22938	11250		13932				5955	16659	11769.23	24151.26	9836.05				7283	15763	
- 6000	,438	290,607	65.53%	12128	23731	12333		15433		1		6348	16177	10687.99	24897.2	9666.79		12220.61	22366.49			
	,216	284,385 269,653	65.48% 65.39%	10507 12177	21952 19306	11090 10711		13507 9041			A	5922 5344	15031 12791	12085.58 13194.91	25970.45 23130.82	11504.52 9628.34	26148.82 26155.27	14174.64 12965.29			16023.489 14616.223	
		281,112	64.99%	11601	22659	12002		15102				6952	15362	10309.66	24646.23	9149.18		12219.67				
	.410	327.376	64.27%	13483	25901	13850		19215			22775	7638	18590	12653.08	27610.63	11362.35	28510.31	14032.84			18537.023	
	,046	259,963	64.26%	12072	19438	11202		9811				5446	12148	12511.55	21410.2	9447.68	24123.48				12760.379	
	.694	275.368	64.17%	12192	21589	11869		14344				6468	13884	11089.36	23389.46	9497.76	24611.02				13656	
	.054	293,740	63.68%	13424	22465		21204					7244	14736	12669.15	23722.75	10365.99						
	,585	321,421	63.65%	15897	22644	13940		10280			20934	7849	16157	15866.63	25172.45	10509.04	30140.97	15348.72		10815.11	15821.99	
	.163	278,435	63.63%	13429	20913							6470	13705	12715.17	21581.14	9731.01	24286.86			7777	13576	
	.589	320.052	63.61%	13384	25471	14406		16904				9909	19081	11788.6	26835.88	12098.94	25147.32			9369.9995		
	,388	369,674	63.13%	16781	27428	14632		17381			23654	8409	18738	16754.97	30084.64	14308.58	31868.16					
	,317	308,283	63.03%	14458	22261	13194		11650				7356	15163	15397.59	24785.72	11112.33				9796.5973		-
193	,484	308,291	62.76%	15686	20276	13218	20613	10169	25153	15799	18894	6849	14098	16290.21	25350.92	10977.3	29855.78	15107.85	23979.09	10711.213	15263.924	1
226,	,912	363,262	62.46%	19744	24442	16923	24402	11119	32536	19712	23216	9634	18842	17836.17	27193.2	11025.8	33642.41	17194.94	24968.99	13165.615	17669.205	i
183	,894	294,589	62.42%	13640	22071	12683	21857	14523	20334	14763	19938	7523	15490	13129.78	23159.62	11441.84	24139.22	13994.73	21310.13	8997.5299	15594.568	j
163,	,707	262,403	62.39%	11561	19745	11994	18143	11647	19259	13383	16842	6366	12134	12285.57	22156.76	10812.76	23247.09	13470.19	19802.8	7176.2885	12377.369	j
	,637	366,577	62.37%	17504	26248			16994				8423	19081	17108.63	29089.36	14257.07	31142.23					i
192	,271	309,554	62.11%	16536	20519							7111	14618	16402.55	24061.05	10692.16	29291.72			10112.375	14382.193	j
		331,072	61.97%	15838	23957	14243		15540				8130	16852	15151.61	26340.63	13535.11	27253.88	15589.49				
	,950	256,119	61.67%	11844	18968	11608					16538	5880	11794	13291.95	20038.17	10507.82	22568.1	13414.23		7537.9999	11669	
	,152	260,866	61.39%	10995	21169			13475				6370	14175	10644.16	21463.69	13175.53						
	,023	367,964	61.15%	18136	26265	16160		18383				8978	19345	17321.79	28490.81	14576.83	30730.4					
	,034	296,820	60.99%	14579	21731	13254		15378				8152	16500	13636.77	22884.26	12154.59	23457.1	13737.83				
	,058	338,757	60.83%	15538	24326	15596	22017	17177				9560	20050	15610.48	27141.06	13034.29	28822.17	15856.64			18270.43	
159	,693	262,704	60.79%	11981	20848	12921	18447	12901	19451	14826	16822	7206	12341	11633.11	20543.02	10977.97	21002.03	13062.43	1/8/4.98	7502.5267	12363.689	1
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Figure 32: Dr. Hofeller's Draft Plan File: "House Minimum-Partisan-Members D.xlsx" (December 6, 2016)

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		l	New 2016	House Pl	an - December 5						
	Group Type	Dist	Avg R	Off Year	Incumbent	Pty	Note	Old Avg.	New -		
	New	1	44.49%	50.90%	Steinburg	R	##	56.77%	Old Avg -12.28%		
	Gra-Per-Van-War	2	52.41%		Yarborough	R	""	51.84%	0.57%		
	New	3	59.57%		Speciale	R		56.36%	3.21%		
	New	4	55.22%	60.24%	Dixon	R		61.60%	-6.38%		
	New	5	37.17%		Hunter	D					
	New	6	57.79%	62.46%	Boswell	R		54.96%	2.83%		
)	Fran-Nash	7	43.21%		Richardson	D	##	38.61%	4.60%		
L	New	8	34.79%	37.03%	Vacant	D	#				
2	New	9	54.96%	59.58%	Murphy	R		53.89%	1.07%		
3	New	10	62.11%	66.57%	Bell	R		62.82%	-0.71%		
1	Wake	11	40.34%		Hall/Ball	D-D	#				
5	New	12	47.60%		Graham	D		40.79%	6.81%		
5	Old	13	64.27%		McElraft	R		64.27%	0.00%		
7	Old	14	58.00%		Cleveland	R		58.00%	0.00%		
В	Old	15	60.31%		Shepard	R		60.31%	0.00%		
9	New	16	52.95%	57.51%		R		59.57%	-6.62%		
0	Old	17	60.83%	64.70%		R		60.83%	0.00%		
2	Old	18	37.12%		Hamilton	D		E0 049/	0.00%		
3	Old Old	19 20	58.04% 58.55%	60.71% 61.15%	Davis	R R		58.04% 58.55%	0.00%		
4	New	21	38.92%	42.84%	Grange	D		36.3376	0.00%		
5	New	22	54.03%	57.09%		D	##	52.47%	1.56%		
5	Old	23	34.23%		Willingham	D	""	32.4770	1.5070		
7	New	24	45.20%		Martin/Butterfield	R-D	#	53.20%	-8.00%		
3	Fran-Nash	25	54.99%		Collins	R	##	59.22%	-4.23%		
9	New	26	62.42%	65.30%		R		58.67%	3.75%		
)	Old	27	32.28%	36.27%		D					
L	New	28	60.67%		Strickland	R		52.47%	8.20%		
2	New	29	15.07%	14.99%	Hall	D					
3	New	30	34.76%		Lehman	D					
4	New	31	22.26%	21.17%	Michaux	D					
5	Gra-Per-Van-War	32	33.08%		Garrison	D					
5	Wake	33	20.83%	17.84%		D					
7	Wake	34	45.21%		Martin	D		37.99%	7.22%		
3	Wake	35	55.97%		Malone	R		54.92%	1.05%		
)	Wake	36	53.02%	53.44%		R		54.94%	-1.92%		-
)	Wake	37	53.64%		Williams	R		56.45%	-2.81%		
1	Wake	38	28.48%		Holley	D					
2	Wake	39 40	32.72% 57.05%		Jackson John	D D	##	5/1 600/	2 420/		-
4	Wake Wake	41	45.86%		Adcock	D	****	54.63% 50.53%	2.42% -4.67%		
5	Cumb	42	32.06%	34.49%		D		30.3370	7.07/0		
	Cumb	42	26 720/			0					+

Figure 33: Dr. Hofeller's Draft Plan File: "House Minimum-Partisan-Members.xlsx" (December 3, 2016)

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П			New 2016		an - December 2						
П	Group Type	Dist	Avg R	Off Year	Incumbent	Pty	Note	Old Avg.	New -		
Н			_						Old Avg		
Н	New Gra-Per-Van-War	2	44.49% 52.41%	50.90% 55.17%	Steinburg Yarborough	R R	##	56.77% 51.84%	-12.28% 0.57%		
Н	New	3	54.37%	61.02%	Speciale	R		56.36%	-1.99%		
H	New	4	54.77%	59.69%	Dixon	R		61.60%	-6.83%		
	New	5	37.17%	42.20%	Hunter	D		22.0070	2.0070		
H	New	6	57.79%	62.46%	Boswell	R		54.96%	2.83%		
	Fran-Nash	7	51.17%	56.15%	Richardson	D	##	38.61%	12.56%		
	New	8	35.06%	37.15%	Vacant	D	#				
Ц	New	9	53.40%	57.78%	Murphy	R		53.89%	-0.49%		
Ц	New	10	62.11%	66.57%	Bell	R		62.82%	-0.71%		
Н	Wake	11	40.34%	39.63%	Hall/Ball	D-D	#				
Н	New	12	48.98%	53.19%	Graham	D		40.79%	8.19%		
Н	Old Old	13	64.27%	68.75% 64.41%	McElraft	R R		64.27%	0.00%		
Н	Old	14 15	58.00% 60.31%	67.92%	Cleveland Shepard	R		58.00% 60.31%	0.00%		
Н	New	16	53.53%	58.08%	Millis	R		59.57%	-6.04%		
H	Old	17	60.83%	64.70%	Iler	R		60.83%	0.00%		
П	Old	18	37.12%	39.63%	Hamilton	D					
П	Old	19	58.04%	60.71%	Davis	R		58.04%	0.00%		
	Old	20	58.55%	61.15%	Grange	R		58.55%	0.00%		
Ц	New	21	38.93%	42.84%	Bell	D					
Ц	New	22	54.02%	57.09%	Brison	D	##	52.47%	1.55%		
Н	Old	23	34.23%	37.64%	Willingham	D					
Н	New	24	45.20%	47.27%	Martin/Butterfield	R-D	#	53.20%	-8.00%		
Н	Fran-Nash	25	47.17% 62.42%	48.30% 65.30%	Collins While	R R	##	59.22% 58.67%	-12.05% 3.75%		
H	New Old	26 27	32.28%	36.27%	Wray	D		36.07%	5./5%		
Н	New	28	60.67%	64.85%	Strickland	R		52.47%	8.20%		
H	New	29	11.36%	14.99%	Hall	D		52.4770	512070		
H	New	30	37.17%	34.44%	Lehman	D					
	New	31	23.18%		Michaux	D					
	Gra-Per-Van-War	32	33.08%	36.55%	Garrison	D					
Ц	Wake	33	20.83%	17.84%	Gill	D					
Ц	Wake	34	45.21%	46.34%		D		37.99%	7.22%		
Н	Wake	35	55.97%	58.19%		R		54.92%	1.05%		
Н	Wake	36	53.08%	53.44%		R		54.94%	-1.86%		
Н	Wake	37	53.63% 28.48%	55.11%	Williams	R		56.45%	-2.82%		
Н	Wake Wake	38 39	28.48% 32.72%	28.51%	Jackson	D D					
H	Wake	40	57.05%	58.19%		D	##	54.63%	2.42%		
Н	Wake	41	45.85%	45.97%		D	im	50.53%	-4.68%		
Н	Cumb	42	32.49%	34.61%		D					
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Figure 36: Dr. Hofeller's Draft Plan File: "House Minimum-Partisan-Members D.xlsx" (June 12, 2017)

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3	Group Type	Dist	Avg R	Off Year	Incumbent	Pty	Note	Old Avg.	Old Avg		
	New	1	44.49%	50.90%	Steinburg	R	##	56.77%	-12.28%		
,	Gra-Per-Van-War	2	52.41%		Yarborough	R		51.84%	0.57%		
5	New	3	59.57%	65.68%	Speciale	R		56.36%	3.21%		
'	New	4	55.22%	60.24%	Dixon	R		61.60%	-6.38%		
	New	5	37.17%		Hunter	D					
	New	6	57.79%	62.46%	Boswell	R		54.96%	2.83%		
0	Fran-Nash	7	43.21%		Richardson	D	##	38.61%	4.60%		-
1	New	8	34.79%		Vacant	D	#	E0 000/	4.070/		+
2	New	9 10	54.96% 64.66%		Murphy	R R		53.89% 62.82%	1.07%		-
4	New Wake	10	40.34%	69.67%	Hall/Ball	D-D	#	02.82%	1.84%		-
5	New	12	47.60%		Graham	D-D	#	40.79%	6.81%		+
5	Old	13	64.27%		McElraft	R		64.27%	0.00%		-
7	Old	14	58.00%	64,58%	Cleveland	R		58.00%	0.00%		
8	Old	15	60.31%	67.14%	Shepard	R		60.31%	0.00%		
9	New	16	52.95%	57.51%	Millis	R		59.57%	-6.62%		
0	Old	17	60.83%	64.70%	ller	R		60.83%	0.00%		
1	Old	18	37.12%	39.63%	Hamilton	D					
2	Old	19	58.04%	60.71%	Davis	R		58.04%	0.00%		
3	Old	20	58.55%	61.15%	Grange	R		58.55%	0.00%		
4	New	21	44.04%	47.83%		D		FD 470/	0.420/		-
5 6	New Old	22	44.04% 34.23%	47.83%	Willingham	D D		52.47%	-8.43%		-
7	New	24	45.20%		Martin/Butterfield	R-D	#	53.20%	-8.00%		-
8	Fran-Nash	25	54.99%		Collins	R	##	59.22%	-4.23%		-
9	New	26	62.42%	65.30%		R		58.67%	3.75%		
0	Old	27	32.28%	36.27%		D					
1	New	28	60.67%	64.85%	Strickland	R		52.47%	8.20%		
2	New	29	15.07%	14.99%	Hall	D					
3	New	30	34.76%		Lehman	D					
4	New	31	22.26%		Michaux	D					
5	Gra-Per-Van-War	32	33.08%		Garrison	D					
6	Wake	33	20.83%	17.84%		D		27.000/	7.000/		-
7 8	Wake	34	45.21% 55.97%		Martin Malone	D		37.99% 54.92%	7.22%		
3	Wake Wake	35 36	53.02%	58.19%		R		54.92%	1.05% -1.92%		-
0	Wake	37	53.64%		Williams	R		56.45%	-2.81%		
1	Wake	38	28.48%		Holley	D		55.4578	2.01/0		+
2	Wake	39	32.72%		Jackson	D					
3	Wake	40	57.05%	58.19%		D	##	54.63%	2.42%		
4	Wake	41	45.86%		Adcock	D		50.53%	-4.67%		
5	Cumb	42	32.06%	34.49%							
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Figure 39: Dr. Hofeller's Draft Plan File: "NC Senate Minimum Partisan J-2" (June 13, 2017)

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				New 20	016 Senate Plan							
Ц	Group Type	Dist	Avg R	14 Sen%		Pty	Note	Old Ave R				
Н	New	1	47.94%	52.31%	Cook	R		53.54%	-5.60%			
Н	Old	2	60.16%	63.13%	Sanderson	R		60.16%	0.00%			
-	New	3	40.10%	43.10%	Smith-Ingram	D		34.18%	5.93%			
Н	New	4	37.39%	39.24%	Horner	R	##	31.88%	5.51%			
+	New Old	5 6	45.94% 59.16%	48.68% 64.83%	Davis Brown	D R		36.80% 59.16%	9.15% 0.00%			
H	New	7	50.94%	53.60%	Pate	R		59.10%	-8.43%			
	Old	8	54.69%	56.14%	Rabon	R		54.69%	0.00%			
Ħ	Old	9	53.05%	51.05%	Lee	R		53.05%	0.00%			
	New	10	54.75%	57.91%	Jackson	R		57.13%	-2.38%			
	New	11	54.47%	56.42%	Bryant	D	##	57.61%	-3.13%			
	New	12	57.19%	58.83%	Rabin	R		57.19%	0.00%			
	Old	13	41.09%	47.12%	Britt	R	##	41.09%	0.00%			
Ш	Wake-Franklin	14	25.37%	22.89%	Blue	D		25.54%	-0.17%			
	Wake-Franklin	15	53.04%	49.97%	Alexander	R		53.32%	-0.28%			
	Wake-Franklin	16	39.77%	35.22%	Chaudhuri	D		38.80%	0.97%			
Н	Wake-Franklin	17	54.36%	51.52%	Barringer	R		53.45%	0.91%			
Н	Wake-Franklin Cumberland	18 19	52.57% 50.79%	53.26% 53.27%	Barefoot Meredith	R R		52.76% 49.30%	-0.19% 1.48%			
	New	20	20.93%	18.06%	McKissick	D		24.15%	-3.23%			
	Cumberland	21	29.52%	29.98%	Clark	D		30.53%	-1.01%			
	New	22	40.57%	39.77%	Woodard	D		37.71%	2.86%			
	Old	23	34.84%	31.50%	Foushee	D		34.84%	0.00%			
	New	24	56.91%	58.10%	Gunn	R		59.06%	-2.14%			
	New	25	51.51%	54.18%	McInnis	R		55.19%	-3.68%			
	New	26	59.18%	62.59%	Berger	R		57.51%	1.67%			
	New	27	57.95%	56.89%	Wade	R		55.06%	2.90%			
	New	28	22.97%	22.18%	Robinson	D		18.65%	4.32%			
	New	29	60.90%	64.77%	Tillman	R		67.04%	-6.14%			
	New	30 31	60.87% 64.87%	63.71% 65.07%	Randleman, Balla	ard R,R	#	66.15% 62.71%	-5.28% 2.16%			
H	New New	32	30.42%	29.53%	Brock, Krawiec Lowe	D	#	31.20%	-0.78%			
Н	Old	33	65.39%	68.87%	Dunn	R		65.39%	0.00%			
	New	34	66.29%	67.96%	Vacant	R	#	63.53%	2.76%			
	Old	35	65.63%	65.84%	Tucker	R		65.36%	0.27%			
	Old	36	61.81%	60.28%	Newton	R		62.18%	-0.38%			
	Mecklenburg	37	31.35%	29.21%	Vacant	D	#	37.87%	-6.52%			
	Mecklenburg	38	28.06%	23.76%	Jackson	D		23.36%	4.70%			
	Mecklenburg	39	63.96%	59.63%	Bishop	R		61.93%	2.03%			
	Mecklenburg	40	29.05%	25.80%	Waddell	D		20.96%	8.09%			
	Mecklenburg	41	49.59%	45.44%	Ford, Tarte	D,R	# ##	57.53%	-7.94%			
	Old	42	65.81%	67.05%	Wells	R		65.81%	0.00%			
	New	43	62.82%	63.14%	Jarromgtpm	R		62.82%	0.00%			

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Figure 40: Dr. Hofeller's Draft Plan File: "House Minimum-Partisan-Members J-2.xlsx" (June 14, 2017)

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,	New	1	44.49%	49.27%	Steinburg	R	##	56.77%	-12.28%		+
,	Gra-Per-Van-War	2	52.41%		Yarborough	R		51.84%	0.57%		
	New	3	60.04%	63.52%	Speciale	R		56.36%	3.68%		
3	New	4	55.22%	60.42%	Dixon	R		61.60%	-6.38%		
)	New	5	37.17%	40.94%	Hunter	D		32.23%			
0	New	6	57.79%	60.48%	Boswell	R		54.96%	2.83%		
1	Fran-Nash	7	43.21%		Richardson	D		38.61%	4.60%		
2	New	8	34.82%		Vacant	D	#	53.20%			
3	New	9	54.66%		Murphy	R		53.89%	0.77%		
4	New	10	55.52%		Vacant	R		62.82%	-7.30%		
5	Wake	11	40.34%		Hall/Ball	D-D	#	39.02%			
5	New	12	47.66%		Graham	D		40.79%	6.88%		
7	Old	13	64.27%		McElraft	R		64.27%	0.00%		
8	Old	14	58.00%	63.85%	Cleveland	R		58.00%	0.00%		_
9	Old	15	60.31%		Shepard	R		60.31%	0.00%		
0	New	16	53.01%			R		59.57%	-6.56%		-
2	Old	17 18	60.83% 37.12%	61.69%	Iler Hamilton	R D		60.83% 37.12%	0.00%		-
3	Old	19	58.04%			R		58.04%	0.00%		-
4	Old	20	58.55%		Grange	R		58.55%	0.00%		
5	New	21	54.71%	57.18%	_	D	##	34.18%	20.52%		-
6	New	22	45.15%		Brison/Bell	D-D		52.47%	-7.32%		
7	Old	23	34.23%		Willingham	D		34.23%	710270		
8	New	24	45.20%		Martin/Butterfield	R-D	#	27.25%	17.95%		
9	Fran-Nash	25	54.99%	57.48%	Collins	R	##	59.22%	-4.23%		
0	New	26	62.42%	63.41%	While	R		58.67%	3.75%		
1	Old	27	32.28%	35.04%	Wray	D		32.28%			
2	New	28	60.67%	63.28%	Strickland	R		64.55%	-3.88%		
3	New	29	21.23%	17.64%		D		14.84%			
4	New	30	31.91%	29.02%	Lehman	D		30.09%			
5	New	31	19.37%		Michaux	D		18.28%			
6	Gra-Per-Van-War	32	33.08%		Garrison	D		33.37%			
7	Wake	33	20.83%	16.85%		D		19.72%			
3	Wake	34	45.21%		Martin	D		37.99%			-
9	Wake	35	56.07%		Malone	R		54.94%	1.13%		
0	Wake	36	53.02%	49.02%		R		54.92%	-1.90%		_
1	Wake	37	53.64%		Williams	R		56.45%	-2.81%		-
2	Wake	38	28.48%	26.13%	·	D		23.36%			-
3	Wake	39	32.87%		Jackson	D	***	44.88%	2.460/		-
4	Wake	40	57.09%		John Adcock	D	##	54.63% 50.53%	2.46% -4.68%		+
5 6	Wake Cumb	42	45.86% 27.35%			D D		27.32%	-4.08%		-
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Figure 49: Dr. Hofeller's Draft Plan File: "NC House CCNC Sample Plan - June 2017.xlsx" (July 5, 2017).

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2 1	75955 82634		-4.41% 3.99%	104,811 148,217	285,071 282,818	36.77% 52.41%	20936 15951	13820 18512	21872 15461	10975 17032	25001 17570	9161 15815	21887 17321	12166 15991	12838 9138		6284.04				39 22275.88 32 17623.09			9487.001 12192.94
4 3	75684	(3,778)	-4.75%	142,965	259,321	55.13%	13942	17368	13530	16568	17857	12786	14436	15989	7017						16 14308.88			12580
5 4	78712	(750)	-0.94%	118,847	216,743	54.83%	10923	15353	11941	12766	14752	10784	12827	12653	6745				10901.41				6615.899	9846.25
6 5 7 6	76148	(3,314)	-4.17%	161,294	292,218	55.20%	15356	20682	15944	17431	18643	15849	15239	19731	8747						35 17269.83			14143
7 6	78988 78432	(474) (1,030)	-0.60% -1.30%	145,836 158,334	301,079 297,198	48.44% 53.28%	19279 15495	18483 18191	18928 15305	16429 17267	21948 16955	14401 16024	18420 16994	18305 15860	9650 9576						12 19411.22 49 19223.46			12349 14442
9 8	75507	(3,955)	-4.98%	98,998	267,938	36.95%	20086	11341	19579	10815	21325	9457	20237	10508	10308						35 22311.53			7341.194
10 9	76141	(3,321)	-4.18%	146,002	274,139	53.26%	16563	18570	15389	18156	18183	16025	16998	17230	7422	11554 1	5603.93	17820.25	13782.62	18745.	77 15673.49	16531.05	8522.491	11369.5
11 10	83434	3,972	5.00%	128,020	280,034	45.72%	18284	16928	18098	15306	20500	13805	19063	15237	10542	11528 1		15344.5			18806.22			10521.3
12 11 13 12	83147 75995	3,685 (3,467)	4.64% -4.36%	162,296 135,255	376,499 284,385	43.11% 47.56%	25453 16755	17683 17203	21102 17092	20249 15156	21960 21089	19432 11945	24765 17615	17230 15290	13697 10338	13086 3 11867 1					25 31230.55 32 19257.31			12432.71 11287.29
14 13	76622	(2,840)	-3.57%	210,410	327,376	64.27%	13483	25901	13850	23728	19215	19352	15497	22775	7638						31 14032.84			18537.02
15 14	76496	(2,966)	-3.73%	97,578	182,201	53.56%	11549	13514	11181	12163	13530	10259	12049	11683	4887	7537	9070.9	11832.02	8197.02	12115	.9 8845.18	11026.83	5313.99	7446.996
16 15	81069	1,607	2.02%	103,601	157,860	65.63%	5958	12232	6166	10433	7937	9191	6885	10177	2430		7296.14					14062.54		9384.004
17 16 18 17	81821 81362	2,359 1,900	2.97%	158,259 211,976	293,458 348,798	53.93% 60.77%	15770 16080	20405 25296	16770 16291	17241 22832	19018 17962	15588 21622	18575 19673	16010 19950	9820 9869						57 15918.98 58 16243.84			12731 18448
19 18	75725	(3,737)	-4.70%	101,838	274,992	37.03%	22213	12681	19559	12809	21207	11614	22477	10664	10829						36 21498.42			6720.281
20 19	76030	(3,432)	-4.32%	199,077	326,620	60.95%	15993	23686	13858	22895	16240	21523	18193	19764	8415				12787.97			24038.76		
21 20	76981	(2,481)	-3.12%	165,179	297,200	55.58%	15885	19385	14358	18474	16438	17048	17872	15758	8947						25 16137.18			13302.18
22 21 23 22	83434 83434	3,972 3,972	5.00% 5.00%	171,554 136.008	277,877 291,190	61.74% 46.71%	11703 17723	20050 17717	11937 18904	18221 14945	14495 20927	16576 13662	13254 19693	17716 14800	6367 12644				12641.62		47 15258.71	21853.83 15185.04		14007.91 11550.04
24 23	81057	1,595	2.01%	108,290	316,316	34.23%	23867	14378	24847	12151	27419	10345	25436	12234	14653						79 26618.05		15736	8832
25 24	81234		2.23%	140,584	311,022	45.20%	19652	17375	19415	16132	21087	15109	20776	15384	13631		0877.13				05 21615.98			11747
26 25	78027	(1,435)	-1.81%	143,470	317,395	45.20%	20689	18810	20915	17570	22779	16356	22014	16983	12874						37 21030.85		14061	12194
27 26 28 27	83429 76790	3,967 (2,672)	4.99% -3.36%	195,324 95,128	302,484 294,730	64.57% 32.28%	11525 22928	22275 12627	11690 24033	21052 10491	13579 25464	19685 9624	13320 24207	19735 10863	7095 13603						79 15776.59 33 25640.57	24966.16 10440.65	7848.426 15229	15637.58 8214
29 28	83433	3,971	5.00%	164,294	281,004	58.47%	15011	20560	13802	20474	15488	19251	15906	18633	8107	14708 1		18815.86			1.9 13674.68			14776.1
30 29	82395	2,933	3.69%	51,050	344,178	14.83%	36464	5575	33197	6809	33058	6534	35014	5856	19276		8242.97		36101.98		37097.99	5719.01		3395
31 30	83137	3,675	4.62%	120,647	371,559	32.47%	29771	14692	26840	15478	27602	14941	29222	14117	17829						19 33635.07			8676
32 31 33 32	83248	3,786	4.76%	81,397	321,234	25.34%	29359	9276	26961	10366	27762	9562	28669	8976	16313						39 30718.96	9685.95		5867
34 33	83140 79012	3,678 (450)	4.63% -0.57%	106,491 77,823	321,896 313,073	33.08% 24.86%	25721 29792	13598 7629	25887 26421	11943 9528	26778 26527	11699 9272	26786 28746	11694 7698	15476 15184		26032.74 80064.97				24 27184.68 36 29957.99	11264.28 9585.15	16632.94 20149.96	8903.059 5449.997
35 34	82964	3,502	4.41%	183,386	387,448	47.33%	25716	20256	20762	23045	21905	22134	24973	19667	13245	15288					02 28138.07	20942.88		13680
36 35	82988	3,526	4.44%	160,726	329,096	48.84%	20151	17669	17979	18569	19301	17436	20286	16486	11228		2316.71	21547.13	20075.28	232	36 22716.99			13256.99
37 36	81453	1,991	2.51%	182,051	341,246	53.35%	20246	20933	16627	22848	18094	21692	20075	19850	10452						74 20997.59			
38 37 39 38	82293 79266	2,831 (196)	3.56% -0.25%	169,478 98.492	350,790 282,770	48.31% 34.83%	23099 23255	19485 11659	18487 20560	21996 13187	19909 21411	20779 12338	22464 22835	18659 11202	12377 12325						22 23605.02 35 23452.84	18366.1 10407.88		13731.73 7509
40 39	82432	2,970	3.74%	88,978	296,326	30.03%	26587	10233	24389	11487	25259	10668	26239	9726	16089						04 24181.79	9810.98		7182.004
41 40	82621	3,159	3.98%	227,323	390,073	58.28%	19357	24015	15674	25728	16901	24835	19125	23085	10109	17938 2	3801.97	31033.95	19625.87	33741.	06 23857.9	28817.93	14298.01	18129.01
42 41	82978	3,516	4.42%	145,095	303,007	47.89%	19343	15809	15388	17762	16325	17171	18650	15310	9713						55 21298.06		16134.31	
43 42 44 43	81775 77782	2,313 (1,680)	2.91% -2.11%	69,654 86,114	212,279 238,603	32.81% 36.09%	18129 18937	9284 11073	17132 17857	9138 10944	17984 19187	8430 9669	17921 18975	8527 9946	8481 8990				16890.81		39 17903.08 12 19602.86	7796.85 10027.04	10010 10889	4597 6197.001
45 44	78272		-1.50%	116,185	260,911	44.53%	18106	15171	17315	14513	19212	13083	18998	13341	8964						16 18046.92	12554	10200	
46 45	81602	2,140	2.69%	132,873	295,591	44.95%	19521	16623	19061	15680	21285	13883	20615	14465	10257						.2 20984.87			11029
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Figure 41: Dr. Hofeller's Draft Plan File: "House Minimum-Partisan-Members J-2.xlsx" (June 14, 2017)

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	Group Type	Dist	Avg R	Off Year	Incumbent	Pty	Note	Old Avg.	New - Old Avg			
5	New	1	44.49%	49.27%	Steinburg	R	##	56.77%	-12.28%			
	Gra-Per-Van-War	2	52.41%		Yarborough	R		51.84%	0.57%			
	New	3	60.04%		Speciale	R		56.36%	3.68%			
	New	4	55.22%	60.42%	Dixon	R		61.60%	-6.38%			
	New	5	37.17%	40.94%	Hunter	D		32.23%				
)	New	6	57.79%	60.48%	Boswell	R		54.96%	2.83%			
1	Fran-Nash	7	43.21%		Richardson	D		38.61%	4.60%			
2	New	8	34.82%		Vacant	D	#	53.20%				
3	New	9	54.66%		Murphy	R		53.89%	0.77%			
4	New	10	55.52%		Vacant	R		62.82%	-7.30%			
5	Wake New	11 12	40.34% 47.66%	35.32%	Hall/Ball Graham	D-D D	#	39.02% 40.79%	6.88%			
5 7	Old	13	64.27%		McElraft	R		64.27%	0.00%			
в	Old	14	58.00%	63.85%	Cleveland	R		58.00%	0.00%			_
9	Old	15	60.31%		Shepard	R		60.31%	0.00%		_	_
0	New	16	53.01%	55.35%		R		59.57%	-6.56%			
1	Old	17	60.83%	61.69%	ller	R		60.83%	0.00%			
2	Old	18	37.12%	35.75%	Hamilton			37.12%				
3	Old	19	58.04%	55.14%		R		58.04%	0.00%			
4	Old	20	58.55%		Grange	R		58.55%	0.00%			
5	New	21	54.71%	57.18%		D	##	34.18%	20.52%			
5	New	22	45.15%		Brison/Bell	D-D		52.47%	-7.32%			
7	Old	23	34.23%		Willingham	D		34.23%	17.050/			
9	New Fran-Nash	24 25	45.20% 54.99%		Martin/Butterfield Collins	R-D	#	27.25% 59.22%	17.95% -4.23%			
	New	26	62.42%	63.41%	While	R	""	58.67%	3.75%			
1	Old	27	32.28%	35.04%		D		32.28%	5.7570			
2	New	28	60.67%	63.28%	Strickland	R		64.55%	-3.88%			
3	New	29	21.23%	17.64%	Hall	D		14.84%				
4	New	30	31.91%	29.02%	Lehman	D		30.09%				
5	New	31	19.37%	17.54%	Michaux	D		18.28%				
5	Gra-Per-Van-War	32	33.08%		Garrison	D		33.37%				
7	Wake	33	20.83%	16.85%		D		19.72%				
8	Wake	34	45.21%		Martin	D	-	37.99%	7.23%			
9	Wake	35	56.07%		Malone	R		54.94%	1.13%			
1	Wake Wake	36 37	53.02% 53.64%	49.02%	Williams	R R	-	54.92% 56.45%	-1.90% -2.81%			
2	Wake	38	28.48%		Holley	D		23.36%	-2.01%			
3	Wake	39	32.87%		Jackson	D	-	44.88%				
4	Wake	40	57.09%	53.97%		D	##	54.63%	2.46%			
5	Wake	41	45.86%		Adcock	D		50.53%	-4.68%			
6	Cumb	42	27.35%	26.64%		D		27.32%				

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Figure 42: Dr. Hofeller's Draft Plan File: "NC Senate Minimum-Partisan J-2.xlsx" (June 13, 2017)

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3	Group Type	Dist	Avg R	14 Sen%	Incumbent	Pty	Note	Old Ave R	11 ti 17		
1	New	1	52.70%		Cook	R					
5	Old	2	60.16%		Sanderson	R					
5	New	3	35.11%		Smith-Ingram	D					
7	New	4	37.39%		Horner	R	##				
3	New	5	45.94%		Davis	D					
)	Old	6	59.16%		Brown	R					
0	New	7	50.94%		Pate	R					
1	Old	8	54.69%		Rabon	R					
2	Old	9	53.05%		Lee	R					
3	New	10	55.32%		Jackson	R					
4	New	11	54.35%		Bryant	D	##				
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7		14	24.66%		Blue	D	****				
.8	Wake-Franklin Wake-Franklin	15	52.46%		Alexander	R					
9	Wake-Franklin	16	40.50%		Chaudhuri	D					
0	Wake-Franklin	17	54.36%		Barringer	R					
1	Wake-Franklin	18	52.70%		Barefoot	R					
2	Cumberland	19	50.64%		Meredith	R					
3	New	20	27.50%		McKissick	D					
4	Cumberland	21	29.64%		Clark	D					
5	New	22	33.39%		Woodard	D					
6	Old	23	34.84%		Foushee	D					
7	New	24	56.91%		Gunn	R					
8	New	25	51.51%		McInnis	R					
9	New	26	59.18%		Berger	R					
0	New	27	58.05%		Wade	R					
1	New	28	23.67%		Robinson	D					
2	New	29	60.90%		Tillman	R	<u></u>	<u> </u>			
3	New	30	60.87%		Randleman,Ballard	R,R	#				
5	New	31 32	64.87% 30.42%		Brock, Krawiec	R,R D	#	-			
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6 7	New	34	66.29%		Vacant	R	#				
8	Old	35	65.63%		Tucker	R					
9	Old	36	61.81%		Newton	R					
0	Mecklenburg	37	32.84%		Vacant	D	#	1			
1	Mecklenburg	38	26.55%		Jackson	D					
2	Mecklenburg	39	63.97%		Bishop	R					
3	Mecklenburg	40	28.50%		Waddell	D					
4	Mecklenburg	41	49.66%		Ford, Tarte	D,R	###				
5	Old	42	65.81%		Wells	R					
6	New	43	62.82%		Jarromgtpm	R	I	I	ı T		

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Figure 43:
Dr. Hofeller's Draft Plan File: "Senate Minimum-Partisan-Members.xlsx" (November 26, 2016)

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3	Group Type	Dist	Avg R	Incumbent	Pty	Note	Old Ave R		
4	New	1	52.70%	Cook	R				
5	Old	2	60.16%	Sanderson	R				
6	New	3		Smith-Ingram	D				
7	New	4		Horner	R	##			
8	New	5	45.94%		D				
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14	New	11	54.35%	Bryant	D	##			
15	New	12	56.83%	Rabin	R				
16	Old	13	41.09%	Britt	R	##			
17	Wake-Franklin	14	24.66%	ACCES 100	D				
18	Wake-Franklin	15		Alexander	R				
19	Wake-Franklin	16		Chaudhuri	D				
20	Wake-Franklin Wake-Franklin	17 18		Barringer Barefoot	R R				
22	Cumberland	19		Meredith	R				
23	New	20		McKissick	D				
24	Cumberland	21	29.64%	The state of the s	D				
25	New	22	33.39%	Woodard	D				
26	Old	23	34.84%	Foushee	D				
27	New	24	56.91%	D-120000000	R				
28	New	25		McInnis	R				
29	New	26	_	Berger	R				
30	New	27	58.05%		R				
31	New New	28		Robinson Tillman	D R				
33	New	30		Randleman, Ballard	R,R	#			
34	New	31		Brock, Krawiec	R,R	#			
35	New	32	30.42%	Committee of the Commit	D				Ť
36	Old	33	65.39%	Dunn	R				
37	New	34	66.29%	Vacant	R	#			
38	Old	35	65.63%	Tucker	R				
39	Old	36		Newton	R				
40	Mecklenburg	37	-	Vacant	D	#			
41	Mecklenburg	38	1	Jackson	D				
42	Mecklenburg	39		Bishop Waddall	R				
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Figure 44: Dr. Hofeller's Draft Plan File: "Senate Minimum-Partisan-Members J-2.xlsx " (June 13, 2017)

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	Old	2	60.16%		Sanderson	R					
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-	New	5	45.94%		Davis	D					
+	Old	6	59.16%		Brown	R					
	New Old	7	50.94%		Pate Rabon	R R					
2	Old	9	54.69% 53.05%		Lee	R					
	New	10	55.32%		Jackson	R					
	New	11	54.35%		Bryant	D	##				
,	New	12	56.83%		Rabin	R					
,	Old	13	41.09%		Britt	R	##				
7	Wake-Franklin	14	24.66%		Blue	D					
3	Wake-Franklin	15	52.46%		Alexander	R					
9	Wake-Franklin	16	40.50%		Chaudhuri	D					
	Wake-Franklin	17	54.36%		Barringer	R					
L	Wake-Franklin	18	52.70%		Barefoot	R					
2	Cumberland	19	50.64%		Meredith	R					-
3	New	20	27.50%		McKissick	D					-
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5	New	32	30.42%	<u> </u>	Lowe	D					
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3	New Old	34 35	66.29% 65.63%	\vdash	Vacant Tucker	R R	#				
,	Old	36	61.81%		Newton	R					
	Mecklenburg	37	32.84%		Vacant	D	#				
	Mecklenburg	38	26.55%		Jackson	D	"				
2	Mecklenburg	39	63.97%		Bishop	R					
3	Mecklenburg	40	28.50%		Waddell	D					
1	Mecklenburg	41	49.66%	<u> </u>	Ford, Tarte	D,R	###				
5	Old	42	65.81%		Wells	R					
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Figure 45: Dr. Hofeller's Draft Plan File: "PPI Indicator Votes for New 2017 Legislative Districts.xlsx" (June 24, 2017).

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6	Year		Democrat	% 2 Party	Republican	% 2 Party		Tot. 2-Pty	Rep. + Lib.				
7	2010	U. S. Senate	1,145,074	43.99%	1,458,046	56.01%	55,687	2,603,120	1,513,733	56.93%	2,658,808	2,700,383	1.54%
8	2012	President	2,178,391	48.97%	2,270,395	51.03%	44,515	4,448,786	2,314,910	51.52%	4,493,302	4,542,488	1.08%
9	2012	Governor	1,931,580	44.18%	2,440,707	55.82%	94,652	4,372,287	2,535,359	56.76%	4,466,940	4,542,488	1.66%
10	2012	Lt. Governor	2,180,087	49.91%	2,187,728	50.09%	100 100	4,367,815	2,187,728	50.09%	4,367,816	4,542,488	3.85%
11	2014	U. S. Senate President	1,377,651	49.19% 48.10%	1,423,251	50.81%	109,100	2,800,902	1,532,351	52.66% 53.24%	2,910,003	2,939,767	1.01%
12	2016	U. S. Senate	2,189,316 2,128,165	47.05%	2,362,631 2,395,376	52.95%	130,126 167,592	4,551,947 4,523,541	2,492,757 2,562,968	54.63%	4,682,074 4,691,134	4,769,640 4,769,640	1.65%
13	2016	Governor	2,309,157	50.11%		49.89%	102,977	4,608,037	2,362,968	50.98%	4,711,015	4,769,640	1.23%
14	2016	Lt. Governor		46.66%	2,298,880	53.34%	132,641	4,486,750		54.68%	4,619,392		3.15%
15	2016	Atty. Gen.	2,093,375 2,303,619	50.27%	2,393,375 2,279,006	49.73%	132,041	4,582,625	2,526,016 2,279,006	49.73%	4,519,592	4,769,640 4,769,640	3.92%
16	All	All Votes	19,836,415	30.2770	21,509,395	49.7370	837,290	41,345,810	22,346,685	49.7370	42,183,110	43,115,814	2.16%
17	All	 		47.98%		52.02%	 			53.47%			2.16%
18	All	Average Vt.	1,983,642	47.98%	2,150,940	52.02%	104,661	4,134,581	2,255,601	55.47%	4,218,311	4,311,581	2.16%
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Figure 45b: Dr. Hofeller's Draft Plan File: "House Minimum Renumbered.xls" (December 3, 2016).

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	55.17% 61.02%		3172 -3881		1 -0.04884	5 23903.941 11 23801 771	43330.997 39005.297	13901	18512 16459		17032 15844	17570	15815 12222	17321 14193	15991 15287	9138 6688	11711 11942	16284.04 13181.77	19862.13 17256.95	14964.1 12099.16	20485.02 17873.28	17623.09 13674.67	16615.88	10289.056 8515.5254	
	59.69%		-750		1 -0.009438		33147.149	10923	15353		12766	14752	10784	12827	12653	6745	9940	11176.76	16488.98	10901.41	16302.92	12013.9	14712.88		
	42.20%		-1935		1 -0.024351				13414		11309	22757	10280	20339	12876	10791	8307	20910.83	13206.02	20739.1	12314.16	21852.1	11140.83	11524	
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	56.15%		-1030		1 -0.012962			15495	18191	15305	17267	16955	16024	16994	15860	9576	12410	17641.98	21926.78	16276.18	22816.49	19223.46	19396.95	11397	7 1
	37.15%		-3765		1 -0.047381			20986	10535		10242	21682	9038	20906	9835	9929	6061	22697.84	13601.24	21515.06	14320.26	22724.02	12674.29	11446	
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J I	39.63%		3973			7 28981.387 4 22629.909		26327	15880		18511	22486	17388	13342 25497	15509	13756	11313	11761.34 32764.07	20548.19	11170.89 28933.32	22121.47	32898.78		20722.112	
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	68.75%		-2840			14 37127.023		13483	25901	13850	23728	19215	19352	15497	22775	7638	18590	12653.08	27610.63	11362.35	28510.31	14032.84		9235.0067	
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	67.92%		-1409			7 13717.008		7003	11330		9653	8909	8412	7835	9436	2971	6497	7216.15	12958.11	6493.39	13061.04	7283.02		3507.0108	
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	39.63% 60.71%		-1781 -2796			15824.078		21336 16239	12244 21773		11995 21063	20873 16507	10740 19600	21953 18260	9947 18022	11041 8459	8555 16677	22448.93 16301.13	13310 23121.14	20010.72	14449.72 24684.22	21516.67 15799.94		13061.864	
	61.15%		-2796 -974			6 30706.058 4 32042.432		17058	22705		21935	17290	20503	19023	18951	9000	17209	16344.69	24555	13581.23 13657.26	26059.64	15837.49		11412.055 11358.863	
	42.84%		3965		1 0.049898			20274	13383		12350	21489	11401	20819	12074	11513	9252	20543.28	13439.36	19755.38	13950.81	20941.12		12516.871	
!	57.09%		3973			7 28043.067			19947		16940	18498	15558	17317	16657	10982	14492	15747.95	22534.94	15646.02	22399.26	17867.89		10093.826	
}	37.64%	81057	1595		1 0.020072				14378	24847	12151	27419	10345	25436	12234	14653	9513	24891.74	14541.75	24558.34	14545.79	26618.05	11749.57	15736	
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5	48.30%		-1435		1 -0.018058			20689	18810		17570	22779	16356	22014	16983	12874	12965	20107.8	16519.28	19454.11	17023.87	21030.85	15049.17	14061	
i -	65.30%		3971		1 0.049973			13640	22071	12683	21857	14523	20334	14763	19938	7523	15490	13129.78	23159.62	11441.84	24139.22	13994.73	21310.13		
	36.27%		-2672		1 -0.033626			22928	12627	24033	10491	25464	9624	24207	10863	13603	8196	24409.46	12247.21	24087.86	12424.93	25640.57	10440.65	15229	
	64.85% 14.99%		3969 2976			9 6912.0001		13045 31807	20546 5695		19548 6367	14568 29769	18326 6035	14428 30880	18185 5696	7370 17226	14604 3621	13720.85 36488.64	23051.61 5415.86	12781.56 35159.6	23825.57 6387.85	15258.22 35743.83		8277.1712 21987.007	
	34 44%		3564		1 0.037451		55755	28499	15116		15738	26050	15171	27911	14422	16627	10436	3115411	151691	28184 06	16615.24	310641	13717.07	19927	
	21.17%		3854		1 0.048501		55156.993	35288	8732		10548	32603	9831	34114		19565	5795	35740.22	9810.18	32531.25	11515.14	34644.09		23914.993	
	36.55%		3678		1 0.046286			25721	13598		11943	26778	11699	26786	11694	15476	9595	26032.74	13607.93	24907.62	14186.24	27184.68		16632.944	
	17.84%		3834		1 0.048249		37098.541	27710	5888		7511	25064	7113	26664	5925	13445	3164	26697.36	7358.61	25142.27	8724.07	26232.86		17036.543	
	46.34%		2730			6 28409.989		26800	19764		22499	23217	21592	26156	19213	14613	15000	28723	21911	25191.82	24478.97	29678.96	19460.91		
	58.19%		2685		1 0.033789		51988.042	17715	20519		21552	16611	20439	17793	19399	9345	14817	21285.81	26074.01	18263.67	28131.33	21427.95		12392.474	
	53.44%		1342			6 34138.502		22419	22938		25449	19262	24417	22020	22004	12519	17571	23015.11	23146.4	19046.08	25644.59	22965.53		17230.151	
	55.11% 28.51%		3426 3950			9 29508.008 13 12399.001		19588 26175	19598 9582		21513 11032	17124 24351	20294 10200	18978 25524	18716 9246	9540 13728	14213 6254	19530.12 25936.98	20921.93 9594.8	15995.01 24207.91	22972.02 11044.96	18816.97 25547.88		14500.004 17368.001	
	32.10%		1451			13 15242.311		25376	11238		12273	24243	11446	25126	10585	15249	7798	23546.9	12058.72	22318.44	13392.3	23898.61		16987.554	
	58.19%		3389			3 39871.293		22064	26011	17348	28471	18689	27523	21791	25056	11953	20319	25844.59	31288.6	21030.66	34498.85	26287.83		16697.416	
	45.97%		2909		1 0.036608				15000		16970	16896	16349	19207	14479	10130	11141	23087.88	17132.28	19297.76	19446.12	22049.42	16092.18		
	34.61%		3098		1 0.038987			18657	9337		9137	18542	8437	18463	8557	8666	5174	18353.11	8235.16	17087.81	8672.08	18107.08	7788.78	9992	
	43.01%		-3363		1 -0.042322			20607	13123		12700	21314	11432	21094	11684	10025	8292	20277.65	12221.06	18920.75	12681.21	20445.99		11382.002	
	33.67%		1994			8 11352.501		21600	10323		10355	21588	9168	21 491	9319	10254	5856	22166.38	9400.36	20676.46	9911.41	21888.12		12114.171	
	59.43%		-146			4 24725.498		13829	19368		18083	16224	16028	15461	16719	7747	11883	14995.66	20806.68	13992.53	21041.77	16096.54		9133.8278	
,	55.40% 36.41%		2128 2069		1 0.026780	11 19689.205 16 9181.795	35539.009	13159 15140	16490 7484		12405 5714	18381 17766	10493 4511	15801 14769	13058 7670	8043 7566	10273 4354	13382.4 16808.03	16487.61 7605.31	14202.6 17096.37	15209.53 6770.61	16386.56 18365.59		7806.8044 8472.1955	
3	42.42%		3647		1 0.026037		36198.053	17378	12298		10865	18643	10026	17994	10781	9247	7197	18283.99	12639.98	17498.33	12503.08	19125.65		11594.133	
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Figure 46: Dr. Hofeller's Draft Plan File: "Johnston Senate Switch.xlsx" (December 11, 2016).

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		12	30006	41821	58.22%	30006	41821	58.22%	0.00%	30006	41821	58.22%	0.00%	

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Figure 47: Dr. Hofeller's Draft Plan File: "NC Senate CCNC Sample Plan - June 2017.xlsx" (July 8, 2017).

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J.,	196665		0.031225	356.060	742,716	47.94%	46368	45786	47242	38997	54219	34702	45972	43759	25606						9 49092.02		28029	307
	183118	-7592		422,047	701,571	60.16%	32933	51371	32699	47892	44647	37886	35800	46138	17393			55756.27			.3 33970.86		21666	
	182039	-8671	-0.04547	285,752	712,527	40.10%	49405	37106	51134	31211	57284	27435	52575	31882	31118	27064 5	50246.29	37410.93	48790.18	37764.8	2 53470.94	31074.89	32751	248
	192477			274,133	733,123	37.39%	53027	34757	53831	31412	57651	28743	55799	30494	32883						58834.64		35627	230
	189510	-1200	-0.00629	309,100	672,801	45.94%	44053	38055	42801	36086	48802	31462	45346	34848	22397						8 46647.02		25414	
	187925	-2785	-0.0146	258,556 319,573	437,069	59.16%	21877	33095	22084 35690	28797	27798 42486	24459	23941 37746	28132 36195	10015 20490						2 21355.97			
	182118 199397	-8592 8687	-0.04505 0.045551	438,008	627,405 781,551	50.94% 56.04%	35812 39755	40283 53018	40313	36290 47038	44983	31551 43533	46496	42206	25658						16 39698.94 18 41659.64		28133	
	198108	7398	0.045551	407,679	788,253	51.72%	48143	49158	42170	48022	47660	44524	51804	40948	24675		47963.83				4 46149.96		30990	308
	186168	-4542	-0.02382	334,378	600,488	55.68%	29889	40583	31389	36271	36265	33031	34194	34774	18858		31591.01	46439.1			4 34801.96			
	185809	-4901	-0.0257	382,427	707,621	54.04%	38823	47567	37942	45779	42219	42760	41775	42824	22942			46333.07			7 40621.01		26604	339
	187221	-3489	-0.01829	330,956	582,353	56.83%	29443	40332	29287	37962	32759	35407	32416	35409	17201	26602	30439.18	44063.11	28027.2	45451.1	8 33099.84	39342.67	18725	263
	192266	1556	0.008159	215,484	524,397	41.09%	34134	30427	38871	22657	44052	19081	37842	25345	19514		36035.4	30448.38	37213.19	27973.8	7 41269.19	22601.62	19982	178
	188986	-1724	-0.00904	245,023	689,714	35.53%	56661	28834	50976	31924	53130	29944	55963	27429	32360			28797.67			1 54133.57			
	190212	-498	-0.00261	297,349	819,109	36.30%	64669	31914	55409	37285	56671	35956	62759	31300	33983		59421.42	38332.3						
	197978	7268	0.03811	392,898	829,182	47.38%	54011	43136	43187	48949	45789	46881	52190	41753	27838		61388.1				7 59519.11			310
	193237 191199	2527 489	0.01325	435,525 424,763	791,717 791,586	55.01% 53.66%	45495 43140	49922 46468	37297 38287	53986 47926	40809 41530	50932 45380	44820 44086	47421 43134	23057 24133			52751.44			9 46256.56	48960.36 53038.11		
	182470	-8240	-0.04321	282,819	635,389	44.51%	42939	36164	41410	34453	46077	30745	44992	31739	22009						12 44999.88			224
	183182	-7528	-0.03947	155,365	761,418	20.40%	74512	17100	67065	20350	67742	19260	71805	17372	40591		30484.09				5 77996.03		51540	107
	183913	-6797	-0.03564	172,280	500,226	34.44%	40981	22280	38931	21576	41464	19504	41015	20079	19333			21559.21					23243	
	183785	-6925	-0.03631	295,874	716,173	41.31%	50450	36716	47587	35501	50848	33492	51862	32874	29726	24171 5	52760.08	37540.14	48607.96	39858	.1 54533.97	32574.05	33924	231
	197306	6596	0.034587	308,217	884,598	34.84%	71668	34934	63412	37727	65213	36386	70353	33280	43402	25502	72264.33	38207.7	65606.44	42008.6	1 70762.94	35474.94	53699	246
	197106		0.033538	401,980	723,281	55.58%	38976	47709	35736	47691	41267	42442	42299	41647	21069		39919.69				7 40641.94			
	197991		0.038178	374,630	727,254	51.51%	41817	46842	41021	43319	43822	42606	46174	39618	24146				38494.43		.7 47882.54		27626	326
	197998	7288	0.038215	416,552	703,860	59.18%	34797	52136	34876	48670	41695	42402	40150	43792	18012						8 35549.97			
	197286 197917	7207	0.034482	383,351 228,801	767,066 795,720	49.98% 28.75%	48759 71547	44718 26545	43040 64349	46046 29378	47488 67190	42718 27326	51510 72589	39203 22985	21333 32286				43160.93		3 48044.9 2 72411.35		31021.91 44671.47	
	188980	-1730	-0.00907	453,676	675,584	67.15%	27823	54473	25566	54049	30567	49327	32417	47095	12545						12 72411.35 18 27437.61		16040.57	
	199293			442,736	727,374	60.87%	35733	54853	34489	51478	40316	47866	40206	47519	20602				27339.72				20430.67	
	191778	1068	0.0056	434,610	775,754	56.02%	42749	50965	38216	51996	43394	47576	45316	45992	20599						15 43326.59		27569.18	
	200132		0.049405	310,613	738,852	42.04%	54147	36589	49918	37501	53738	34164	55202	33032	23777						7 54528.68			
	190676		-0.00018	423,380	647,504	65.39%	27357	51571	26781	50465	32046	44984	32554	44247	14509						28289.95			335
	197843	7133	0.037402	484,196	730,391	66.29%	31827	57526	30491	54952	29902	57614	35122	50463	15298			61866.15			8 31493.43			39573.
	197197	6487	0.034015	458,688	695,459	65.95%	30576	52634	28387	50228	24656	56897	32057	47825	13891			59526.39			11 32642.27			
	182106	-8604	-0.04512	403,831	657,791	61.39%	32074	47335	29966	46044	27519	50581	35017	41315	16215		33457.43				9 34052.33			
	183195	-7515	-0.03941	191,909	602,729	31.84%	50729	20513	46585	21384	43000	26351	49647	18977	23464			23798.87			.1 56899.99		31711.94	
	188399	-2311 -7136	-0.01212	217,917	658,158	33.11% 58.92%	57227	22836	51394 37216	24173 48857	44974 27793	32741 62238	55192 42988	21890 45313	27018 19465						2 58375.77		34968	22124
	183574 182572	-/13b -8138	-0.03742 -0.04267	444,757 260,436	754,873 638,637	58.92% 40.78%	43119 47543	48142 29430	43342	48857 30143	39011	36354	42988 47168	27163	23257		42854.75 53082.13	31013			4 40826.76	29627.86		
	181888	-8822	-0.04267	293,905	690,861	42.54%	50107	31434	45058	32527	40105	39841	49604	29156	24340						9 53443.87			
	191556		0.004436	458.067	696,077	65.81%	30796	54753	29318	54585	28634	56178	34417	48405	16533			56805.57			30115.12			
	189586	-1124		392,125	627,739	62.47%	29192	47577	28582	45230	27015	48673	32164	41787	14426	30085	30562				5 31219.53			
	192843		0.011185	443,154	702,031	63.12%	30960	54245	31993	49853	30940	53136	36880	45235	18261						7 33569.28		19016	
	199013		0.043537	464,022	719,888	64.46%	31964	56405	31454	53914	31188	55811	36274	49033	17207			58677.81			18 32946.28		18962	
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Figure 48a: Screenshot (Upper Half) of Dr. Hofeller's Draft Plan File: "NC Senate CCNC PPI" (July 8, 2017).

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7	1	196,665	5,955	3.12%	356,060	742,716	No		Vacant (L.D.)										
8	2	183,118	(7,592)	-3.98%	422,047	701,571	No		Sanders (R.)										
9	3	182,039	(8,671)	-4.55%	285,752	712,527	No	Maria Control of the	Cook (R.)										
10	4	192,477	1,767	0.93%	274,133	733,123	No	37.39%	Horner (R.)										
11	5	189,510	(1,200)	-0.63%	309,100 258,556	672,801 437,069	No No		Davis (D)										
12 13	7	187,925 182,118	(2,785) (8,592)	-1.46% -4.51%	319,573	627,405	No No	59.16% 50.94%	Brown (R.) Pate (R.)	-									
14	8	199,397	8,687	4.56%	438,008	781,551	Little		Rabon (R.)										
15	9	198,108	7,398	3.88%	407,679	788,253	Little		Lee (R.)										
16	10	186,168	(4,542)	-2.38%	334,378	600,488	Little	55.68%	Jackson (R.)										
17	11	185,809	(4,901)	-2.57%	382,427	707,621	Little	54.04%	Bryant (D)										
18	12	187,221	(3,489)	-1.83%	330,956	582,353	Little	56.83%	Robin (R.)										
19	13	192,266	1,556	0.82%	215,484	524,397	No		Britt (R.)										
20	14 15	188,986 190,212	(1,724) (498)	-0.90% -0.26%	245,023 297,349	689,714 819,109	Yes Yes		Blue (D) Chaudhuri (D)/Alexander (R.)										
22	16	190,212	7,268	3.81%	392,898	829,182	Yes		Barringer (R.)										
23	17	193,237	2,527	1.33%	435,525	791,717	Yes	55.01%	Vacant (R.)										
24	18	191,199	489	0.26%	424,763	791,586	Yes	53.66%	Barfoot (R.)										
25	19	182,470	(8,240)	-4.32%	282,819	635,389	Yes		Merideth (R.)										
26	20	183,182	(7,528)	-3.95%	155,365	761,418	Yes	20.40%	McKissick (D)/Woodard (D)										
27	21	183,913	(6,797)	-3.56%	172,280	500,226	Yes	34.44%	Clark (D)										
28	22	183,785	(6,925)	-3.63%	295,874	716,173	Yes		Vacant (D)										
29	23	197,306	6,596	3.46%	308,217	884,598	No	34.84%	Foushee (D)										
30 31	24 25	197,106 197,991	6,396 7,281	3.35%	401,980 374,630	723,281 727,254	Yes No	55.58% 51.51%	Gunn (R.) McInnis (R.)										
32	26	197,991	7,281	3.82%	416,552	703,860	Little	59.18%	Berger (R.)										
33	27	197,286	6,576	3.45%	383,351	767,066	Yes		Robinson (D)										
-	-		heet2 She		+)	· ·			` '		: 1)
Ready		31	Sile																

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Figure 48b: Screenshot (Lower Half) of Dr. Hofeller's Draft Plan File: "NC Senate CCNC PPI" (July 8, 2017).

	5 • ∂								١	NC Senate CCNC PPI - E	xcel								西 -	o ×	
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A	В	С	D	E	F	G	Н	1		j	K	L	М	N	0	Р	Q	R	S	т [•
34	28	197,917	7,207	3.78%	228,801	795,720	Yes	28.75%	Vacant (D)												
35	29	188,980	(1,730)		453,676	675,584	Yes	A STATE OF THE PARTY OF THE PAR	Tillman (R.	,											
36	30	199,293	8,583		442,736	727,374	Little			/Rendleman ®											
37	31	191,778	1,068	12.00 (CONT.)	434,610	775,754	Yes		Davis ®												
38	32	200,132	9,422	The state of the s	310,613	738,852	Yes		Lowe (D)/K	rawiec (R.)											
39 40	33 34	190,676	(34)	100760100000000000000000000000000000000	423,380	647,504	No		Dunn(R.)	,											Ĺ
41	35	197,843 197,197	7,133 6,487	3.74%	484,196 458,688	730,391 695,459	No		Vacant (R.) Tucker (R.)		-										
42	36	182,106	(8,604)		403,831	657,791	No No		Newton (R		+										H
43	37	183,195	(7,515)	-	191,909	602,729	Yes		Ford (D)	•)	-										ľ
44	38	188,399	(2,311)		217,917	658,158	Yes	production of the last of the)/Bishop (R.)	-										
45	39	183,574	(7,136)	5,000,000,000,000	444,757	754,873	Yes		Vacant (R.)	CONTRACT CONTRACT											
46	40	182,572	(8,138)	100/27/21/20/20/20	260,436	638,637	Yes		Wadell (D)	91											
47	41	181,888	(8,822)		293,905	690,861	Yes	42.54%	Tarte (R.)												
48	42	191,556	846	0.44%	458,067	696,077	No	65.81%	Wells (R.)												
49	43	189,586	(1,124)	-0.59%	392,125	627,739	Little	62.47%	Harrington	(R.)											
50	44	192,843	2,133		443,154	702,031	Little		Curtis (R.)												٦
51	45	199,013	8,303	4.35%	464,022	719,888	No		Vacant (R.)												
52	46	191,738	1,028		407,367	637,986	No		Daniel (R.)												
53	47	187,477	(3,233)		408,302	688,768	No		Hise (R.)												
54	48	190,126	(584)		447,235	762,284	Little		Edwards (F	,											
55	49	188,022	(2,688)		322,431	794,686	Little		Van Dyne (D)											ш
56 57	50	194,102	3,392	1.78%	408,838	726,260	No	56.29%	Davis (R.)												
58			% Range	Num.	Cumm.																
59			60-100	12	12																-
60			55-60	12	24																
61			53-55	2																	
62			50-53	3																	
63			45-50	4																	
64			40-45	8	41																
65			0-40	9	50																
66				50																	
67			.	-																	Ŧ
4	-	Sheet1 S	heet2 She	eet3 (+)							: •					m)	
Ready																	Ш			+ 1159	b

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EXHIBIT 2

Figure 1

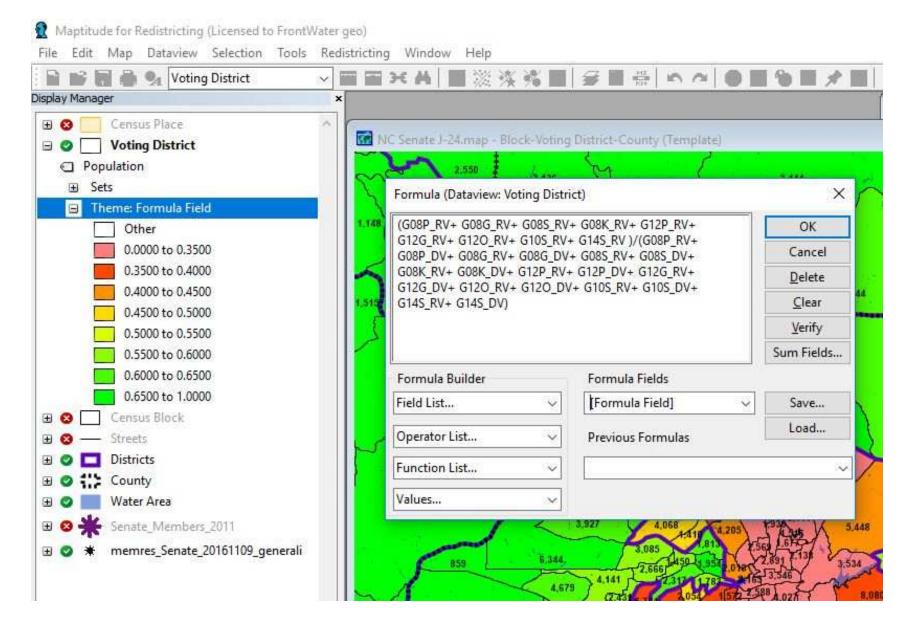


Figure 2

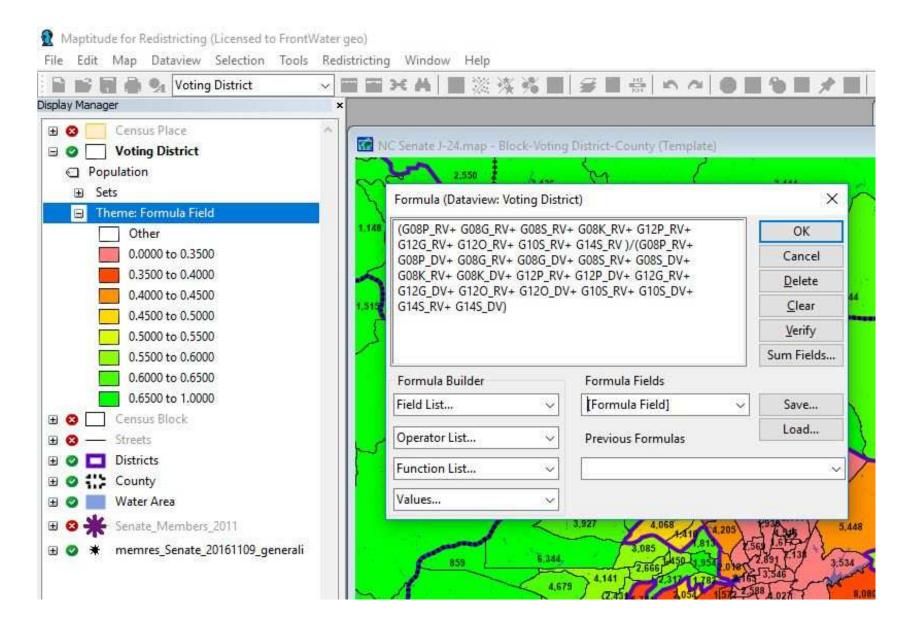


Figure 3

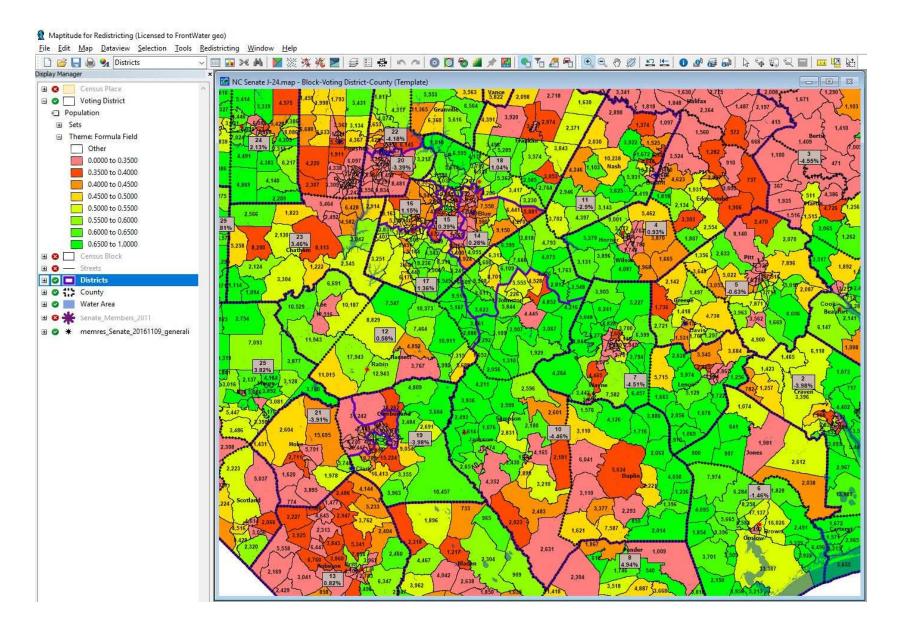


Figure 4

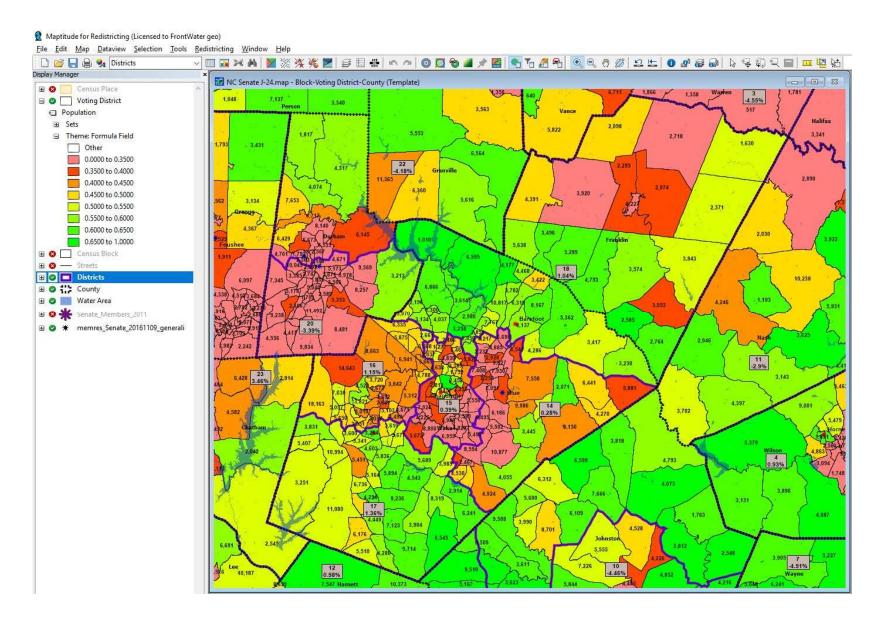


Figure 5

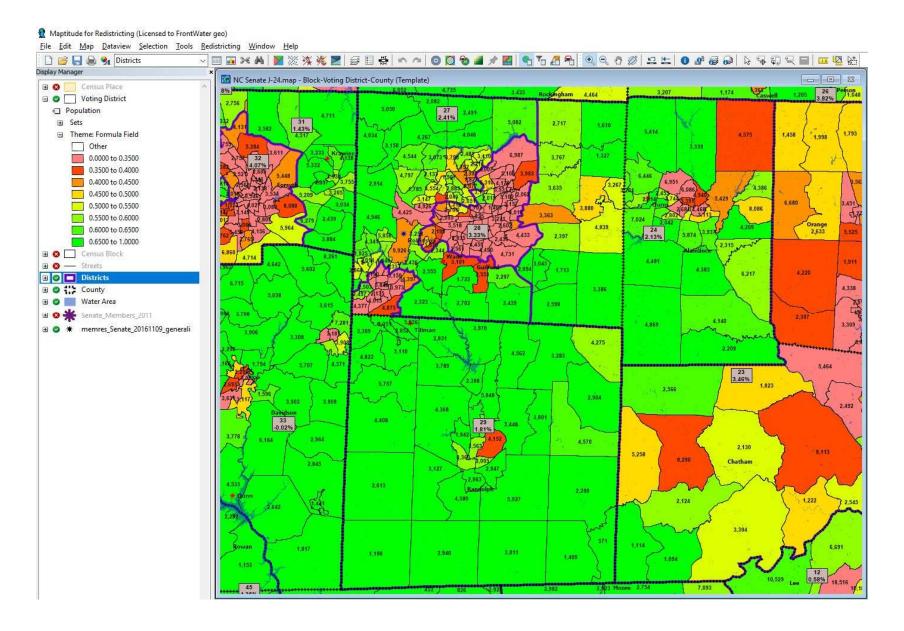


Figure 6

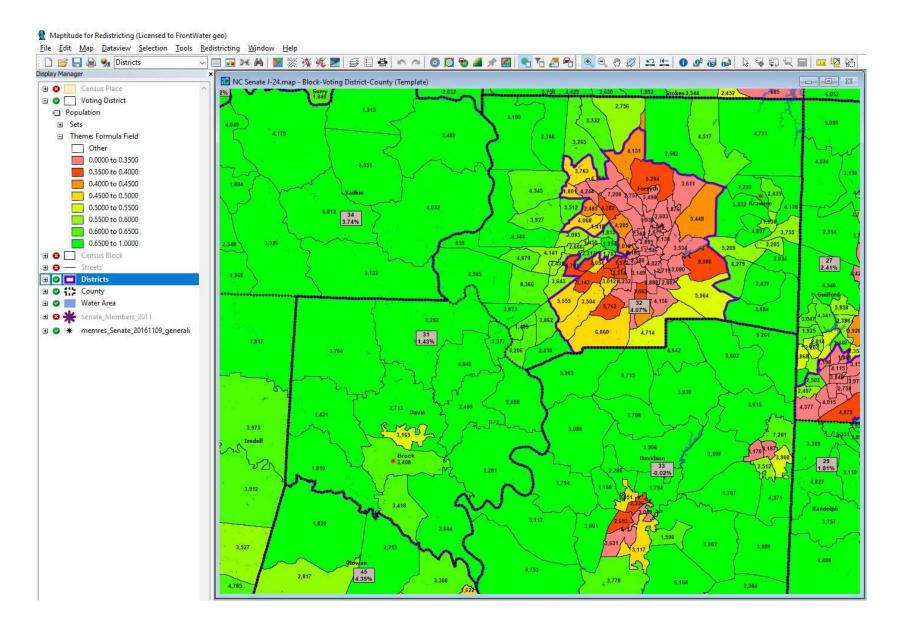


Figure 7

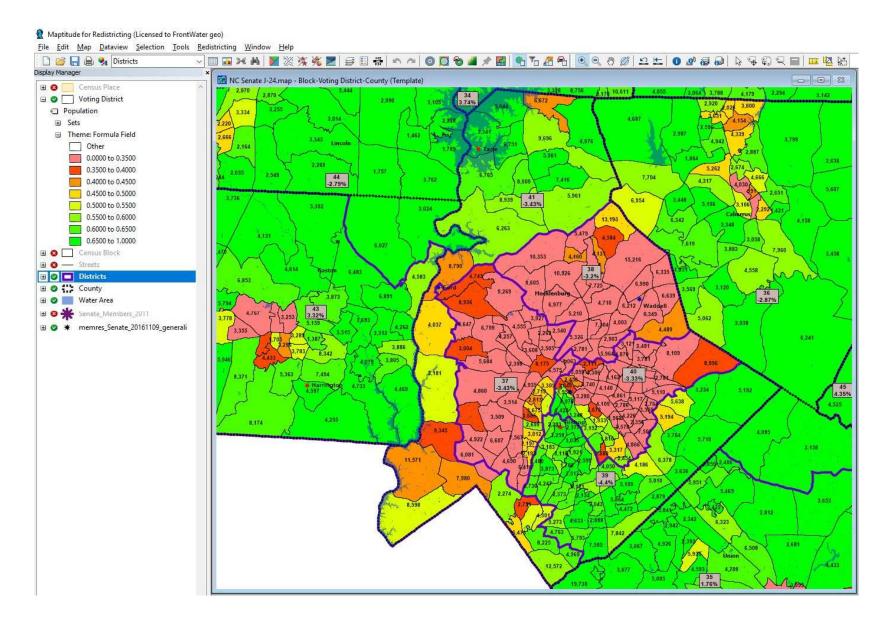


Figure 8

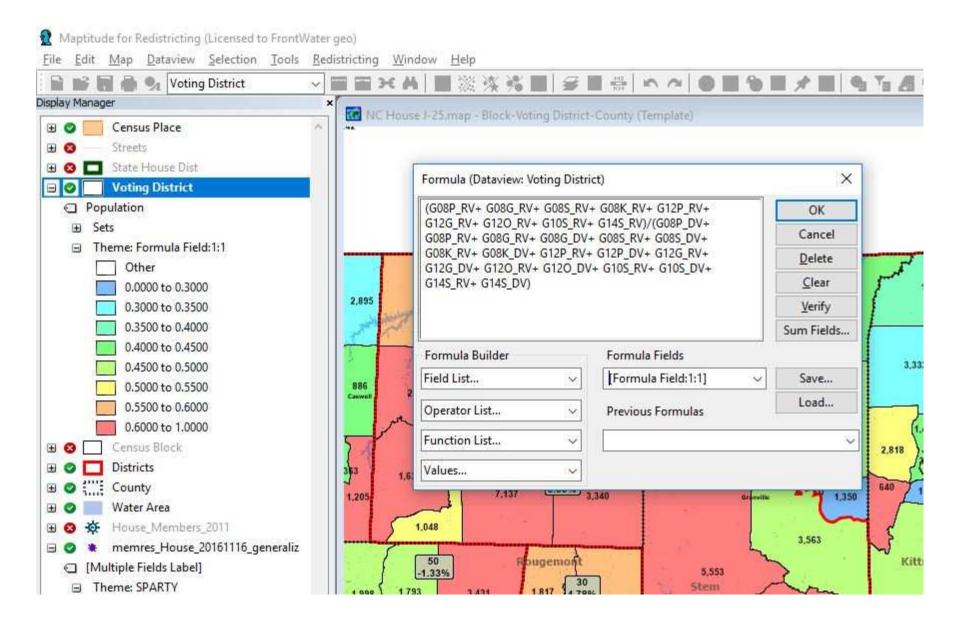


Figure 9

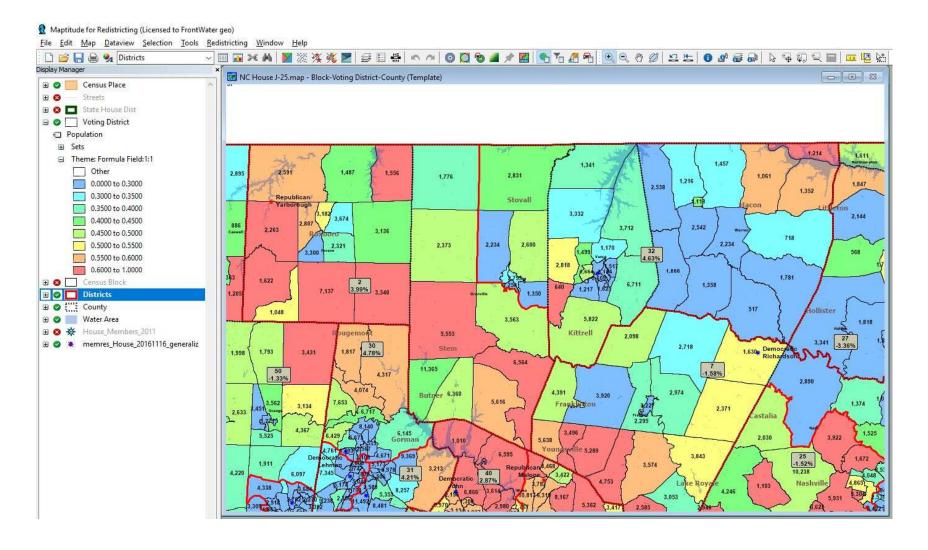


Figure 10

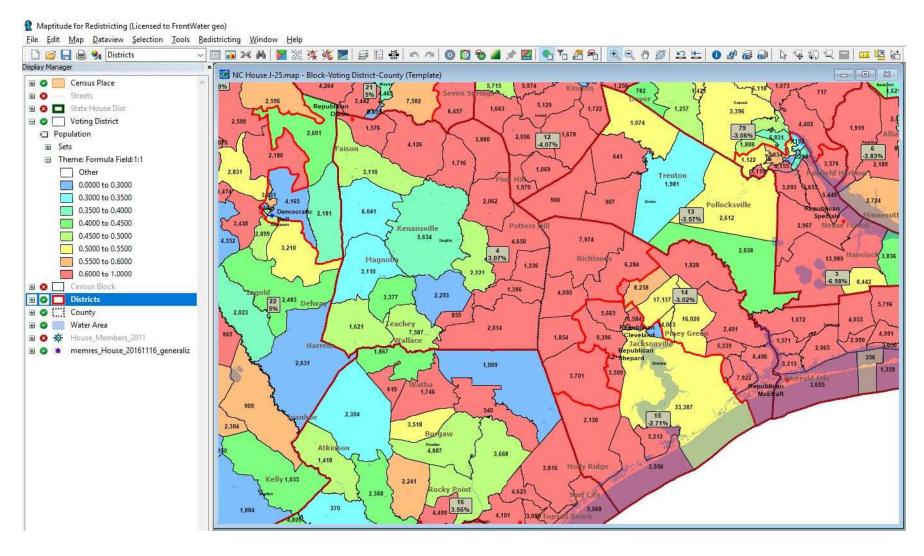


Figure 11

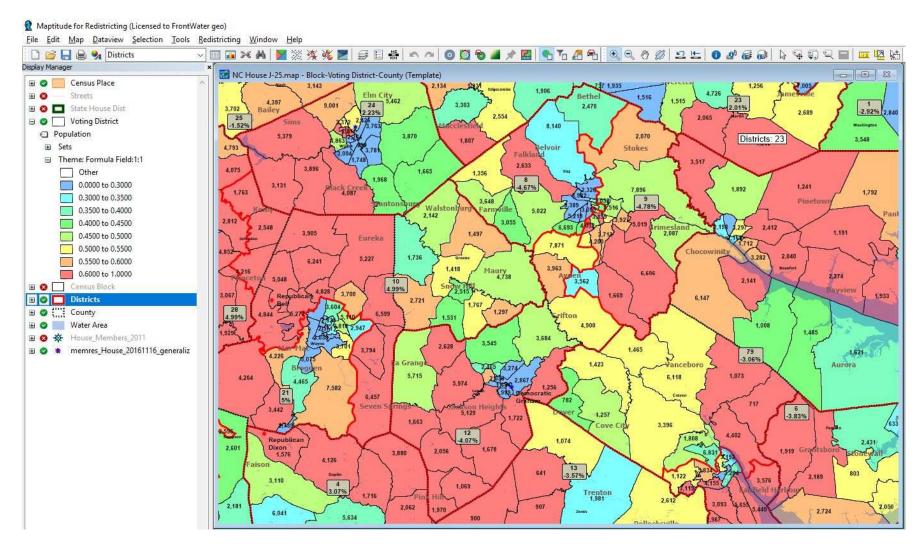


Figure 12

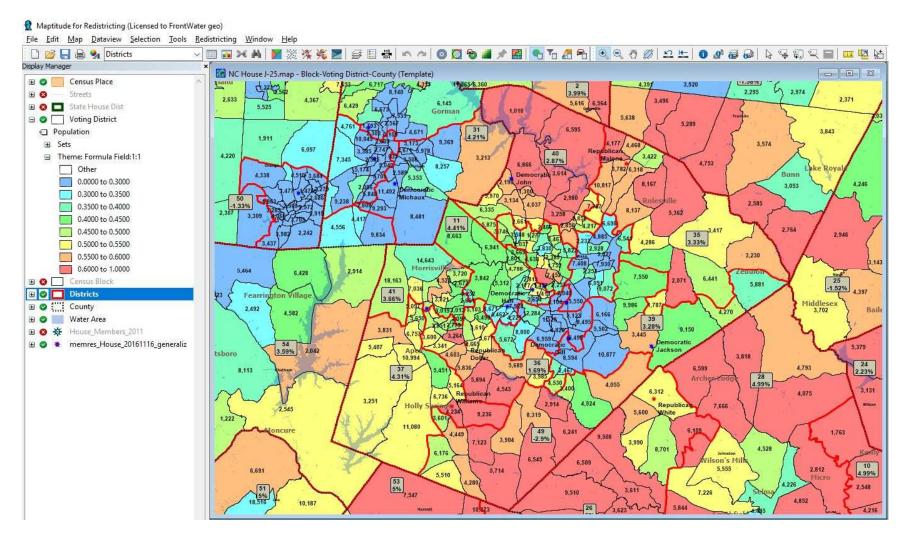


Figure 13

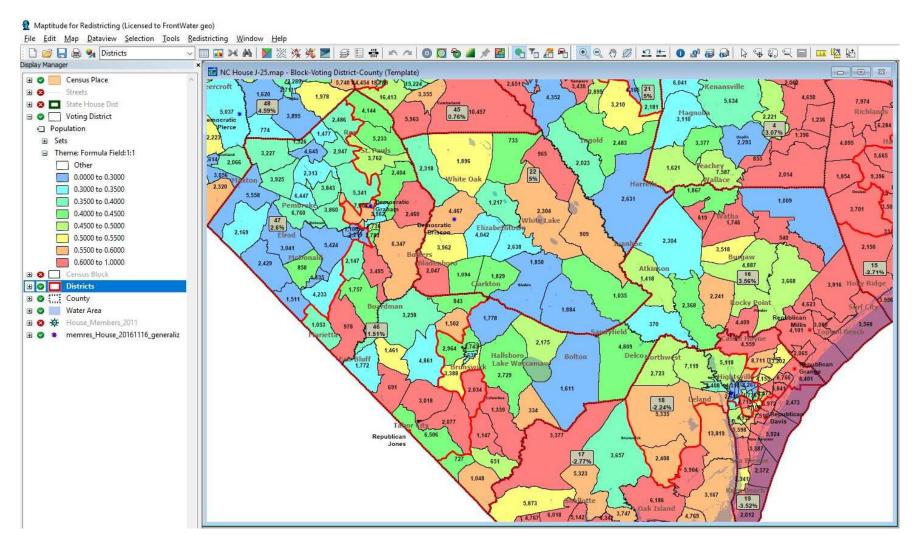


Figure 14

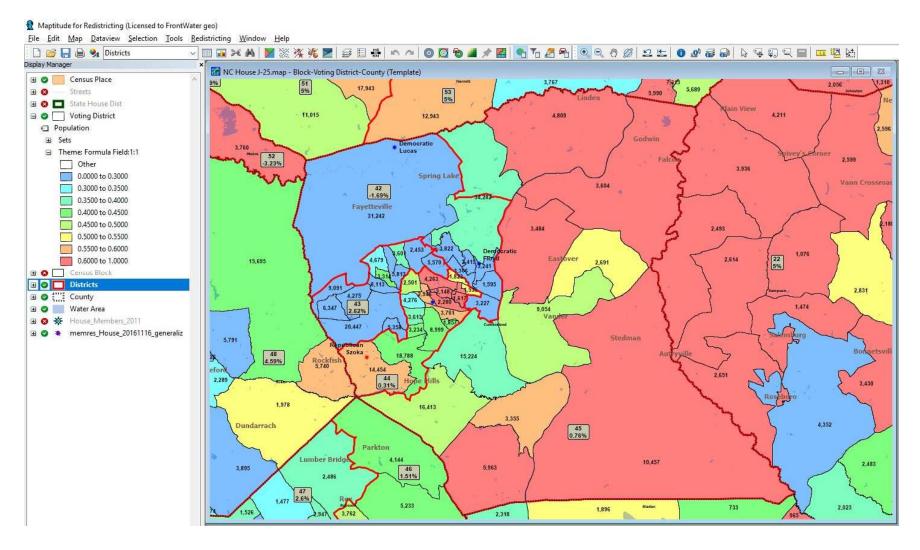


Figure 15

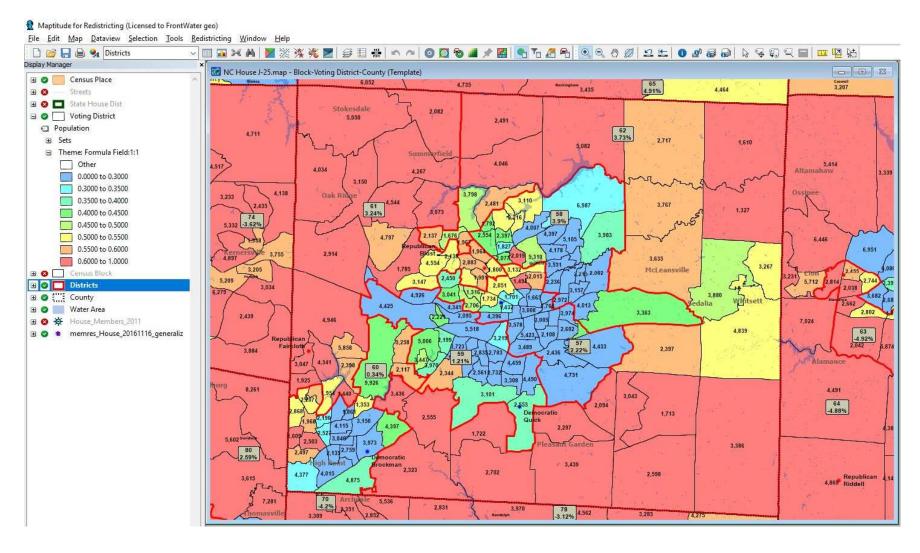


Figure 16

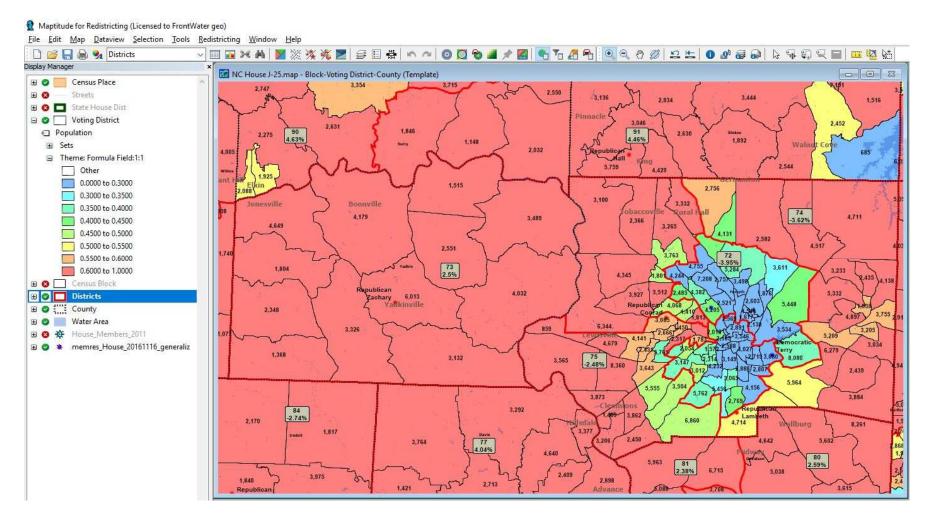


Figure 17

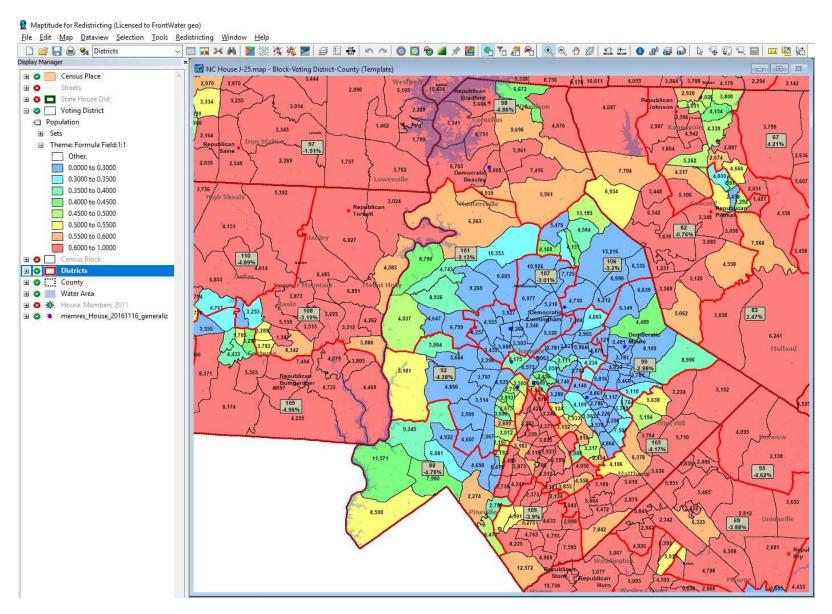


Figure 18

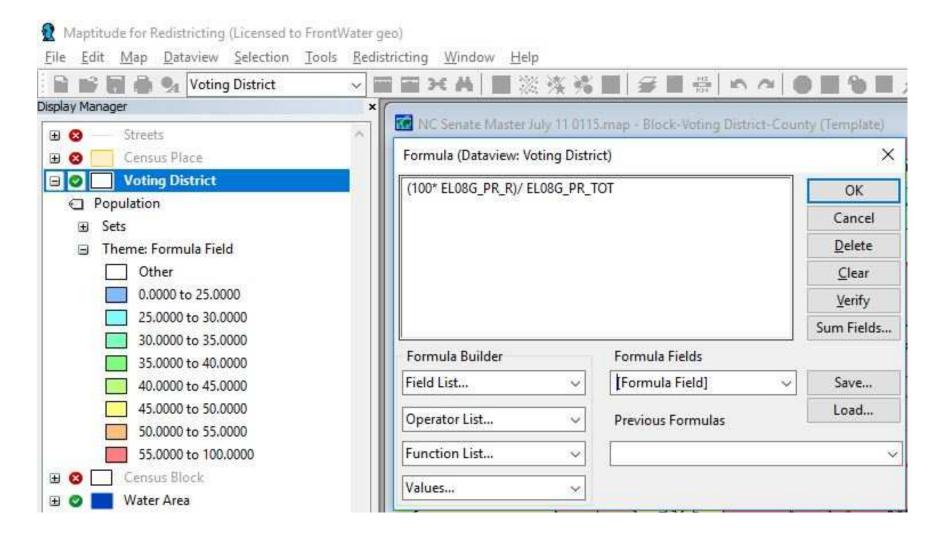


Figure 19

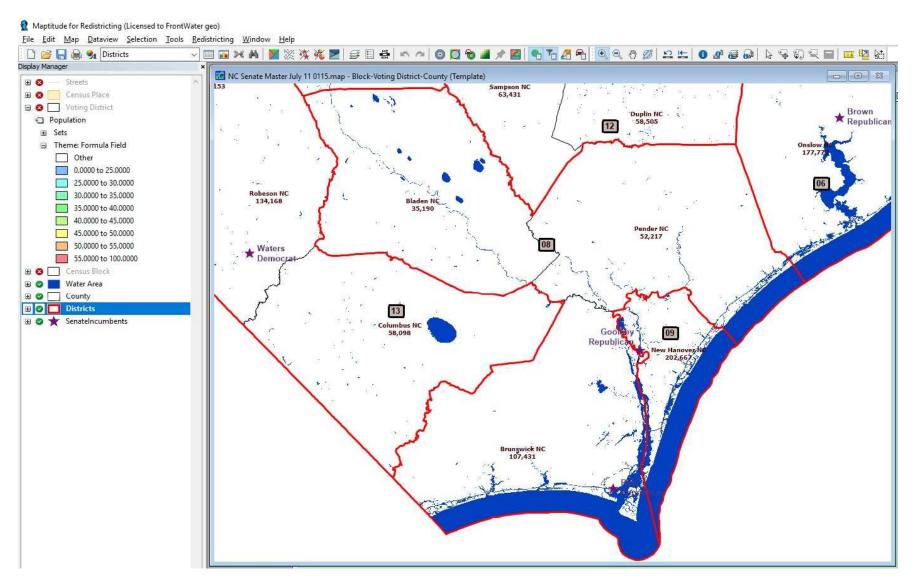


Figure 20

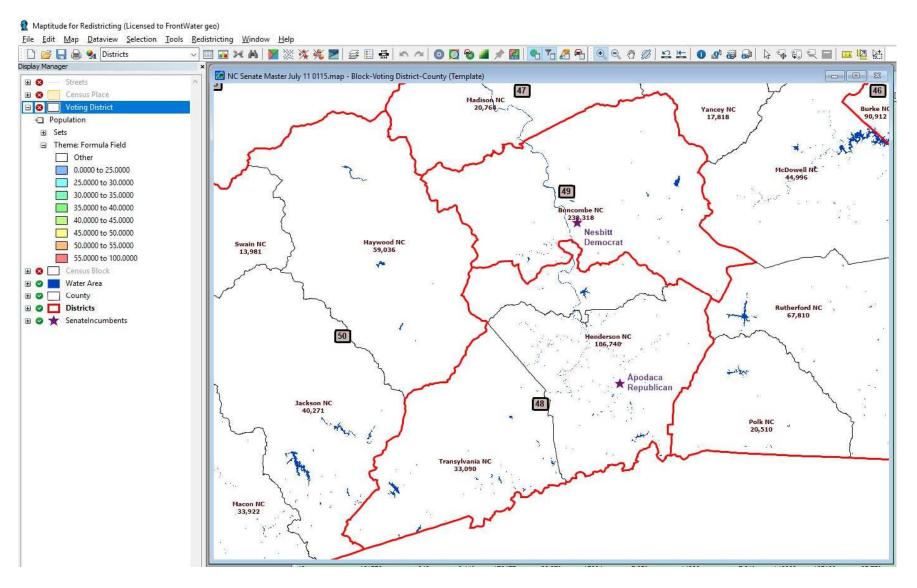


Figure 21

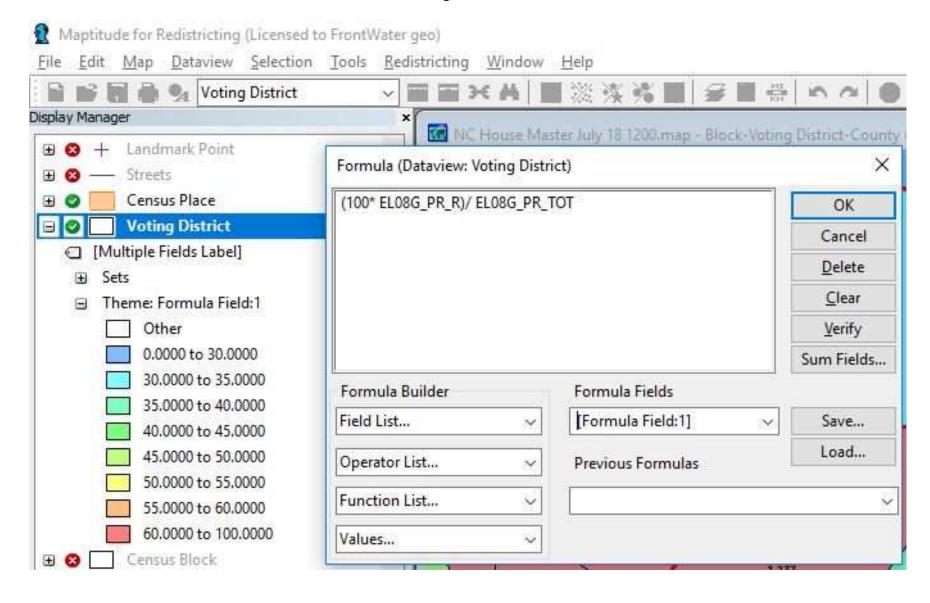


Figure 23

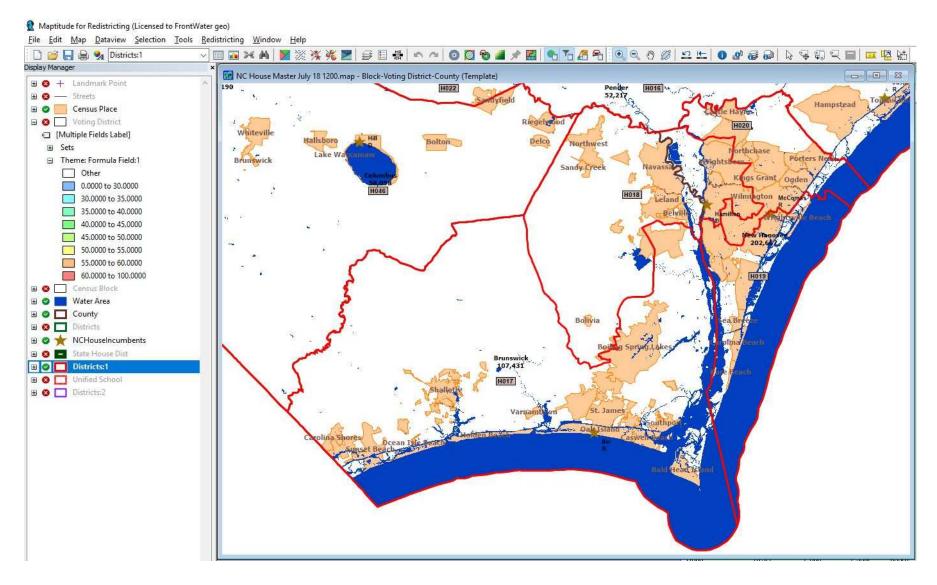


Figure 24

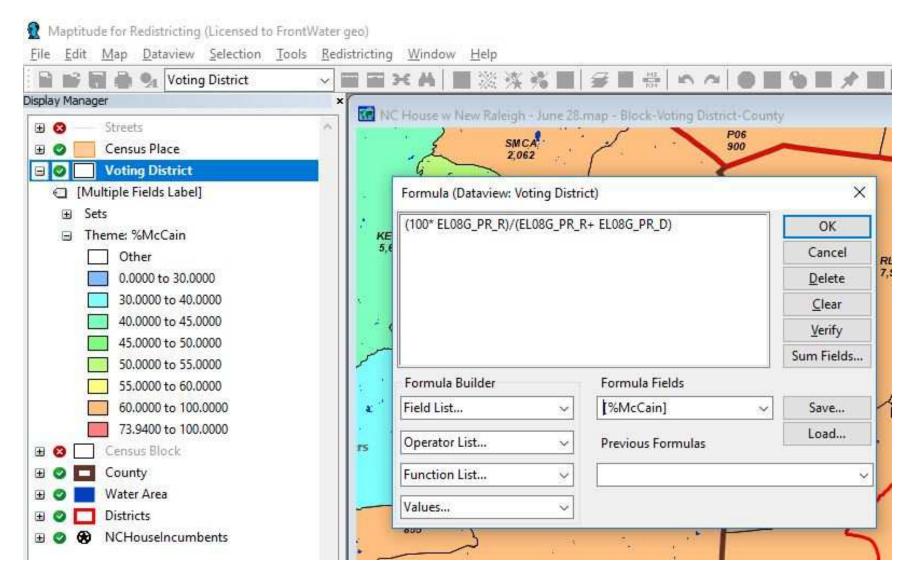


Figure 25

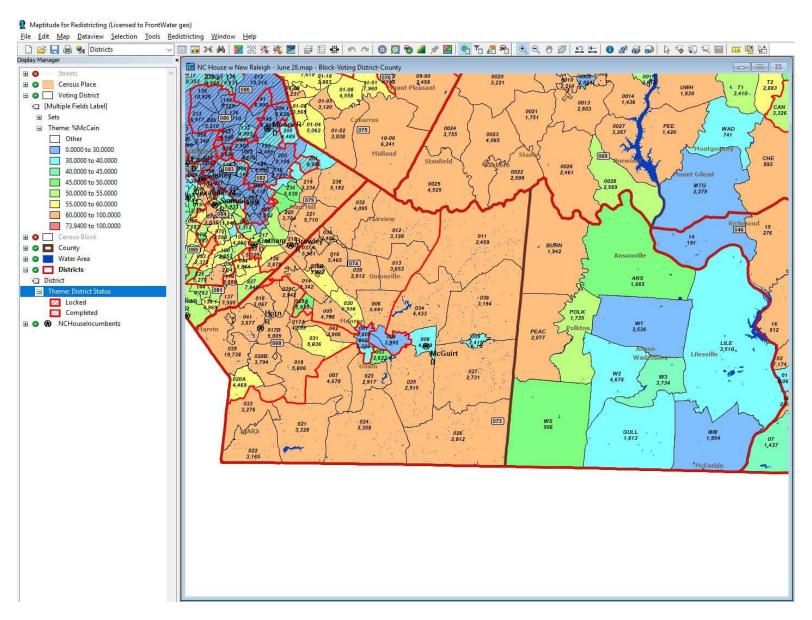


Figure 26

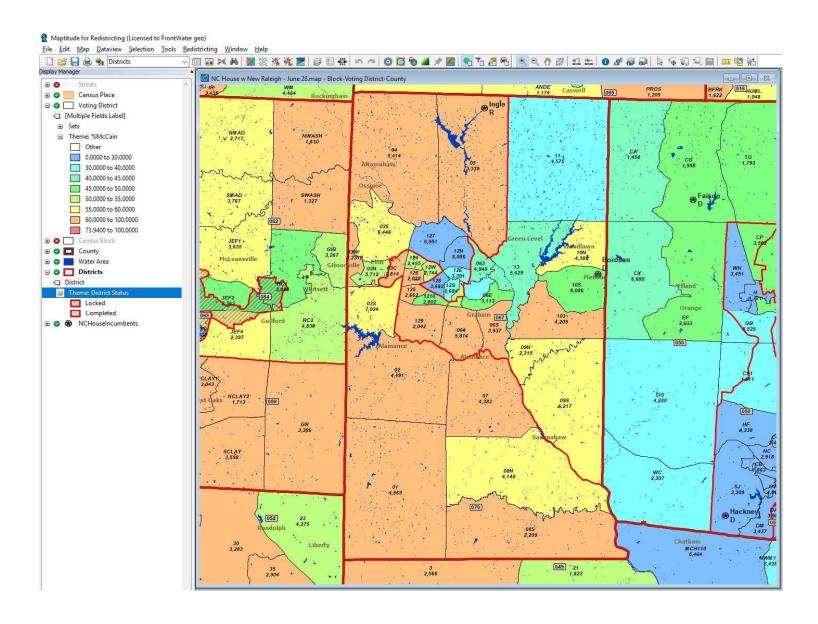


Figure 27

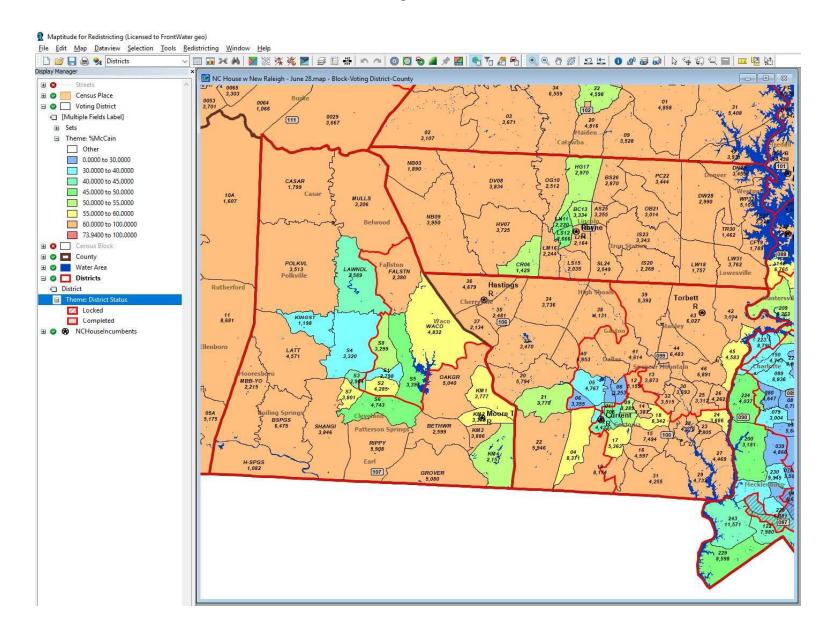


Figure 28

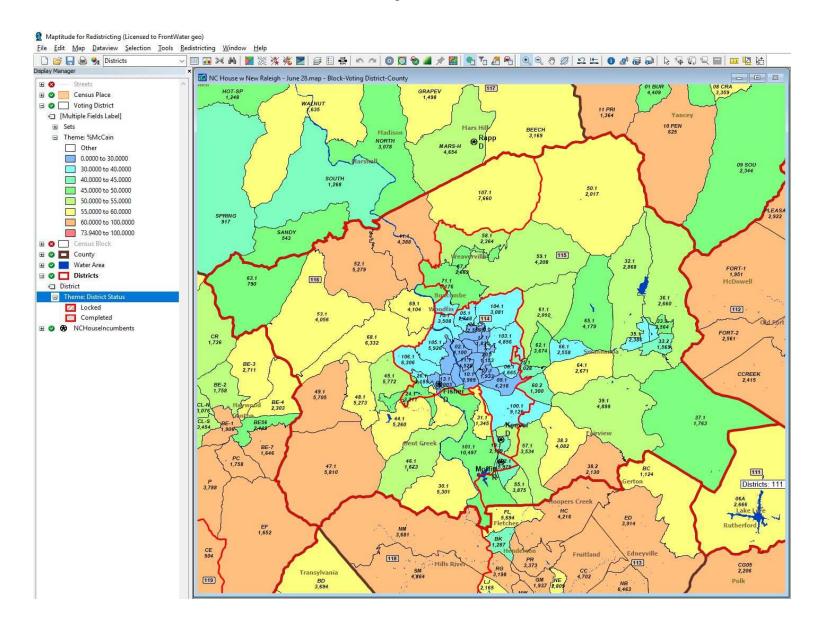


EXHIBIT 3

IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION

STATE OF NORTH CAROLINA)
WAKE COUNTY)
COMMON CAUSE, et al. Plaintiffs,)) Case No. 18-CVS-014001
\mathbf{V}_{\star})
Representative DAVID R. LEWIS,)
in his official capacity as Senior)
Chairman of the House Select)
Committee on Redistricting, et al.,)
Defendants.	

DECLARATION OF JON G. MATTHEWS

- 1. I, Jon G. Matthews, declare under the penalty of perjury that the following is true, based upon my personal knowledge. If called to do so, I can and will testify as follows:
- 2. I am currently employed by Stroz Friedberg, an Aon company ("Stroz Friedberg"), in their Washington D.C. office. My title is Vice President, Digital Forensics and Incident Response. I am responsible for conducting digital forensic acquisitions and analysis; performing comprehensive immediate response functions for network and data breach incidents; conducting electronic discovery and data production operations involving preservation, processing, and production of electronic data from a variety of digital sources; conducting technical security reviews; and providing expert testimony regarding the methods, results, and accuracy of forensic findings. In my career, I have forensically imaged and analyzed hundreds of pieces of digital media to include desktop computers, laptops, servers, external storage devices, and mobile devices. I have been involved in hundreds of computer forensic cases for the United States government and Stroz Friedberg involving espionage, insider threats, nation state cyber intrusions, ransomware attacks, business email compromises, and other various engagements for digital investigations.
- 3. I hold a Bachelor of Science in Computer Networks Security with a Minor in Cybersecurity and certificate in Computer Networking from the University of Maryland University College. In addition, I have a graduate certificate from the SANS Technology Institute. I hold the following certifications: Certified Information Systems Security Professional (ISC2), Global Information Assurance Certification (GIAC) Certified Incident Handler, GIAC Certified Forensic Analyst, GIAC Network Forensic Analyst, GIAC

Reverse Engineering Malware, GIAC Advanced Smartphone Forensics, and Certified Ethical Hacker. Previously, I was in the United States Army as a Counterintelligence Special Agent. I have attended over 500 hours of digital forensics training on evidence collection and digital investigations through the Defense Cyber Investigations Training Academy and the Joint Counterintelligence Training Academy. I was a Department of Defense Cyber Crime Investigator, Computer Forensic Examiner, and Digital Media Collector.

- 4. I was an instructor at the United States Army Intelligence Center of Excellence in Fort Huachuca, AZ, where I was the Senior Faculty Advisor for the Counterintelligence Officer Course. I designed and delivered training programs for Officers, Warrant Officers, and Military Intelligence Civilian Excepted Career Program (MICECP) personnel in Counterintelligence investigations, military Counterintelligence collections, surveillance, cyber, and evidence collection. I also developed specialized training on collection of digital evidence collected from hard drives, mobile devices, network logs, and witness devices. Attached as Exhibit A is my Curriculum Vitae.
- 5. On March 7, 2019, Stroz Friedberg was engaged by Arnold & Porter Kaye Scholer LLP, on behalf of Common Cause in the matter of Common Cause v. Lewis, 18-CVS-014001.
- 6. On March 13, 2019, Stroz Friedberg's Washington DC office took custody of a sealed package from R. Stanton Jones of Arnold & Porter Kaye Scholer LLP. The package was sent to R. Stanton Jones from a Stephanie Hofeller in Lexington, KY via FedEx standard overnight shipping.
- 7. Upon receipt of this package, Stroz Friedberg opened the package and logged receipt of twenty two (22) pieces of digital media via our chain of custody process. This process includes photographing each device, noting identifying information such as serial number, receiving signatures for the provider and recipient of the device, and subsequent logging of all access to, and further material transfer of the device.
- 8. Once logged into evidence, each device was then imaged using industry standard methods and tools for digital forensic preservation, including write-blocking technology to preserve the sanctity of the data on the device. Two forensic duplicates of each piece of media were made for redundancy purposes. The hash value of the forensic image is then compared to the original device to ensure the forensic image is an exact bit-stream copy of the original.
- 9. Stroz Friedberg has maintained continuous and secure custody of all twenty-two (22) devices received from Arnold & Porter Kaye Scholer LLP, and there has been no change, alteration to, or tampering with the twenty-two (22) devices since taking them into our control.
- 10. On May 3, 2019, Stroz Friedberg provided the North Carolina Department of Justice, Setec Investigations¹, and Virtacore Systems² each with three internal SATA hard drives containing forensic images of the twenty-two (22) pieces of media that Stroz Friedberg received from Arnold & Porter Kaye Scholer LLP on March 13, 2019. The hard drives were provided with full-disk encryption and instructions on how to access the forensic images.

¹ Setec Investigations is a computer forensics and investigations company.

² Virtacore Systems is a cloud solutions company.

- 11. Attached as Exhibit B is a spreadsheet listing four hundred and ninety two (492) files Stroz Friedberg sent to Plaintiffs' experts, Blake Esselstyn, Jowei Chen, Christopher Cooper, and Wesley Pegden for analysis. The files were exported from two (2) different pieces of digital media referenced in paragraph nine (9) above, ES0004B³, a Seagate Backup Plus Portable, serial number NA7QGNQM , 1 TB, external hard disk drive, contained in a blue silicone case, labeled "#1" and ES0007C⁴ a Seagate Backup Plus Portable, serial number NA7J06GX, 1.5 TB, external hard disk drive, silver and black in color, labeled "#3.". The export contained one (1) file from ES0004B and four hundred and ninety one (491) files from ES0007C. The four hundred and ninety two (492) files listed in Exhibit B is not the total listing of files on the devices. Exhibit B lists the earliest dates Stroz Friedberg sent each of the files to the Plaintiffs' experts.
- 12. The metadata available for a file depends on the file system of the media on which the file resides and the application that was used to create the file. For each of the files referenced in paragraph eleven (11), Exhibit B also lists the Last Accessed, Created, and Last Modified dates as recorded in the file system of the external drive. Software applications may capture additional metadata information that is stored within the document itself and is commonly referred to as embedded metadata to distinguish it from the metadata reported by the file system. Microsoft Word and Microsoft Excel documents, typically contain embedded metadata such as when the document was first created on any computer, when it was last modified, or when it was last printed. Exhibit B also lists the embedded Created, Last Modified and Last Printed dates for Microsoft Office files when available. Stroz Friedberg analyzed the underlying files listed in Exhibit B and all of the files have file system and embedded metadata time stamps, in files that have embedded metadata, on or before September 8, 2017.
- 13. I have reviewed and analyzed the affidavit and findings of Michael Kunkel written on June 20, 2019. In paragraph 12 of Mr. Kunkel's affidavit, Mr. Kunkel stated "...numerous files connected with the case and/or client were modified and/or transferred on August 25, 2018." My analysis showed the vast majority of the files were located in a folder named "...\C\Users\toshiba\Desktop\Transfer." Furthermore, of the files in the folder named "...\C\Users\toshiba\Desktop\Transfer", all had file system Last Accessed, Created, and Last Modified times within a three minute time period spanning from 16:34:42 to 16:37:48 (UTC) on August 25, 2018. The file system Last Accessed, Created, and Last Modified dates represent the time the files appeared on external hard drive. The large number of files created in this short time span suggests a mass move or copy event.
- 14. In paragraph 15 of Mr. Kunkel's affidavit, Mr. Kunkel stated "...files placed in the "recycle bin" on August 25, 2018, were not recovered, and the contents are unknown." I have analyzed ES0007C and twenty-nine (29) non system created files were placed in the Recycle Bin on August 25, 2018. These files are recoverable and can be reviewed for analysis. None of the files in the Recycle Bin are files that were sent to Plaintiffs' experts as part of the Exhibit B spreadsheet.

Executed on: 1 July 2019

Jon G. Matthews

³ ES0004B is a Stroz Friedberg internal evidence number.

⁴ ES0007C is a Stroz Friedberg internal evidence number.

EXHIBIT A

CURRICULUM VITAE

Jon Matthews

Vice President Digital Forensics and Incident Response



+1 202.971.3972



jon.matthews@strozfriedberg.com



1150 Connecticut Avenue, NW, Suite 700, Washington, DC 20036



PROFESSIONAL EXPERIENCE

Stroz Friedberg, an Aon Company

Vice President Digital Forensics and Incident Response, January 2019 to present Washington, DC

Responsible for assisting with the management of the firm's technical operations in the areas of computer forensics, cybercrime response, incident handling, and electronic discovery. Supervises and conducts digital forensic acquisitions and analyses of laptops, desktops, servers, and mobile devices in civil litigation, criminal matters, and internal investigations. Conducts cybercrime investigations, including those related to malware, hacks, and exfiltration of data, data destruction and trade secret theft. Supervises and performs electronic discovery assignments for major law firms and Fortune 500 firms. Submits reports for computer forensic and cybercrime cases.

US Army

Digital Forensic Examiner/Cyber Crime Investigator, February 2017 to December 2019 Senior Instructor – CI/Cyber/Evidence/Investigations, November 2014 to January 2017 Digital Forensic Examiner/Cyber Crime Investigator, March 2010 to November 2014 Fort Meade, MD

Collected, processed, and documented hundreds of gigabytes of digital evidence in cyber CI investigations. Sustained CI national security espionage, cyber intrusion, insider threat, and international terrorism investigations. Conducted damage assessments encompassing all aspects of network, including end point devices, witness devices, Windows and Linux servers, firewalls, and other network appliances. Captured volatile data and analyze memory forensics, malware extractions, malicious process identification, and network connection analysis. Researched and analyzed adversarial network exploitation methodologies to detect, exploit, and neutralize adversary threats. Created policies and procedures for forensic equipment setup and use, digital forensic workstation standards, and report writing criteria. Collaborated with highly sensitive organizations while briefing leadership on findings and recommendations to avoid threats and manage security, authoring detailed intelligence reports covering cyber intrusion and forensic findings.

Designed and implemented training programs for Officers, Warrant Officers, and Military Intelligence Civilian Excepted Career Program (MICECP) personnel in CI investigations, military CI collections, surveillance, cyber, and evidence collection. Developed specialized training on application of legal principles and collection of digital evidence collected from hard drives, mobile devices, network logs, and witness devices, with a focus on handling, packaging, and shipping of digital media and classified material.

About: Aon's Cyber Solutions offers holistic cyber risk management, unsurpassed investigative skills, and proprietary technologies to help clients uncover and quantify cyber risks, protect critical assets, and recover from cyber incident.



EDUCATION

SANS Technology Institute

Graduate Certificate: Incident Response, October 2016

University of Maryland University College (UMUC)

B.S. Computer Networks Security, December 2015

Minor: Cybersecurity

Certificate: Computer Networking

Certifications

GASF, GIAC, June 2018

ACE, AccessData, April 2018

MCFE, Magnet Forensics, May 2017

GREM, GIAC, October 2016

GNFA, GIAC, April 2016

GCFA, GIAC, October 2015

GCIH, GIAC, June 2015

CISSP, ISC2, September 2015

CEH, EC Council, October 2013

DoD-Cyber Crime Investigator, Defense Cyber Investigations Training Academy, June 2012

DoD-Digital Forensic Examiner, Defense Cyber Investigations Training Academy, February 2011

DoD-Digital Media Collector, Defense Cyber Investigations Training Academy, December 2010

Training

Stroz Friedberg Internal Cyber Training Program; Participate in regular in-house training presentations on current digital forensics, cybercrime response, computer security, desktop, and network forensic tools in conjunction with relevant legal and industry matters.

Defense Cyber Investigations Training Academy; Conducted over 500 hours of formal cyber investigative training in Networks and Computer Hardware, Incident Response, Windows Forensic Examinations, Forensics and Intrusions in a Windows Environment, Network Monitoring, Advanced Forensics, Wireless Forensics, Malicious Code Analysis, and Live Network Forensics.

United States Army Counterintelligence Special Agent Course; Credentialed as a Special Agent of the United States Government.

Mac Forensic Analysis, SANS Institute, 2019

Advanced Smartphone Forensics, SANS Institute, 2018

Magnet AXIOM Examinations (AX200), Magnet Forensics, 2017

Reverse Engineering Malware, SANS Institute, 2016

Advanced Network Forensics, SANS Institute, 2016

Advanced Incident Response, Threat Hunting, and Digital Forensics, SANS Institute, 2015

Hacker Tools, Techniques, Exploits, and Incident Handling, SANS Institute, 2015

Forensic Toolkit v4, AccessData, 2011



CURRICULUM VITAE

Clearances

TS/SCI Counterintelligence Polygraph

June 2019



EXHIBIT B



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted)

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
The Use of Citizen Voting Age Population in Redistricting.docx	docx	29,831	C\PC BackUp [Mar 8, 2016]\Documents\Toms Documents\TX House CVAP Study\The Use of Cltizen Voting Age Population in Redistricting.docx	ES0004B	External H DD	NA7QG NQM	In blue silicone case, labeled "#1"	03/08/2016 08:31:19 PM	08/30/2015 09:18:58 PM	03/08/2016 08:31:19 PM	08/17/2015 08:55:00 AM	08/30/2015 09:18:00 PM	08/30/2015 09:18:00 PM	N/A	N/A	06/03/2019	06/03/2019
ccBlock.bin	bin	365,279,568	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_bos hiba\C\MPR data\NC2011\cc8lock.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:16 PM	03/28/2015 04:08:20 PM	03/28/2015 04:08:16 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccBlock.Bx	Вх	32,845,824	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_tos hiba\C\MPR data\NC2011\cc8lock.8x	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:15 PM	03/28/2015 04:08:15 PM	03/28/2015 04:08:15 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccBlock.BxI	BxI	189	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc8lock.8xI	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:15 PM	03/28/2015 04:08:15 PM	03/28/2015 04:08:15 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccBlock.Cdf	Cdf	49,528,892	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccBlock.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:12 PM	03/28/2015 04:08:13 PM	03/28/2015 04:08:12 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
Chen	Cfs	5,940	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccBlock.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:12 PM	03/28/2015 04:08:12 PM	03/28/2015 04:08:12 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccBlock.DCB	DCB	64,132	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccBlock.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:12 PM	03/28/2015 04:08:12 PM	03/28/2015 04:08:12 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccBlock.Sty	Sty	19,074	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccBlock.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:12 PM	03/28/2015 04:08:12 PM	03/28/2015 04:08:12 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccCounty.bin	bin	152,800	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccCounty.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccCounty.Bx	Вх	9,216	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\P7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_tos hiba\C\MPR data\NC2011\ccCounty.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccCounty.Bxl	BxI	2,706	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccCounty.BxI	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccCounty.Cdf	Cdf	433,498	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccCounty.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccCounty.Cfs	Cfs	5,968	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccCounty.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
cc County .DCB	DCB	60,946	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccCounty.DC8	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccCounty.Sty	Sty	19,137	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccCounty\Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccLandmark.Bin	Bin	1,217,420	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccLandmark.Bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	03/28/2015 04:08:11 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccLandmark.Bx	Вх	345,088	C\Seagate Das hboard 2.0\TOSHBA- PC\ tos hiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_tos hiba\C\MPR data\NC2011\cct andmark.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccLandmark.Bxl	BxI	3,503	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc1andmark.BkI	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Las t Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccLandmark.Cdf	Cdf	172,521	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\ccLandmark.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccLandmark.Dcb	Dcb	386	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\ccLandmark.Dcb	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccLandmark.St0	StO	4,630	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc1andmark.5t0	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccLandmark.Sty	Sty	42,738	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccLandmark.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.bin	bin	990,260	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.Bx	Вх	62,976	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.8x	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.BxI	BxI	2,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.Bxl	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.Cdf	Cdf	1,618,012	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.Cfs	Cfs	5,964	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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LEGEND: * represent files extracted from zip file.

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccPlace.DCB	DCB	60,460	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\P7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_tos hiba\C\MPR data\NC2011\ccPlace.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.St2	St2	1,035	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.St2	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccPlace.Sty	Sty	19,164	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccPlace.Sty	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	03/28/2015 04:08:10 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStateH ous e.Bin	Bin	73,320	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccStateHouse.Bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStateH ous e.Bx	Вх	5,120	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccStateHouse.8x	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStateH ous e.Cdf	Cdf	728,682	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_poshiba\C\MPR data\NC2011\ccStatteHouse.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStateH ous e.Cfs	Cfs	5,976	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccStateHouse.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStateH ous e.Dcb	Dcb	52,280	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\ccStateHouse.Dcb	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStateH ous e.Sty	Sty	19,181	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\ccStateHouse.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	03/28/2015 04:08:07 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A

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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccStreet.Cdf	Cdf	44,825,841	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\P7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_tos hiba\C\MPR data\NC2011\ccStreet.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStreet.Cdn	Cdn	2,560,853	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccStreet.Cdn	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStreet.St1	St1	5,033	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccStreetStf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccStreet.Sty	Sty	995	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\ccStreetSty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	03/28/2015 04:08:05 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccU nifiedSchool.Bin	Bin	80,712	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\UnifiedSchool.Bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccU nifiedSchool.Bx	Bx	11,264	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_poshiba\C\MPR data\NC2011\cc UnifiedSchool.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccU nifiedSchool.Cdf	Cdf	522,232	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc UnifiedSchool.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccU nifiedSchool.Cfs	Cfs	5,984	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\UnifiedSchool.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccUnifiedSchool.Dc b	Dcb	52,259	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\UnifiedSchool.0cb	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccU nifiedSchool.Sty	Sty	18,948	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\P7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_ets hiba\C\MPR data\NC2011\cc UnifiedSchool.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVotingDistrict.bin	bin	3,599,204	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\cc\btimpGistrictbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVotingDistrict.Bx	Bx	110,080	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\cc\bingDistictBx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVotingDistrict.BxI	BxI	2,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\U01ftg\OstfictBkI	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	03/28/2015 04:07:40 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVotingDistrict.Cdf	Cdf	3,294,660	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\bingDistrict.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVoting District.Cfs	Cfs	5,956	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\U01ftgDstrictCfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVotingDistrict.DCB	DCB	61,188	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\VotingOt\sticLDCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccVotingDistrict.Sty	Sty	19,109	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\cc\bitingDistrictSty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccWaterArea.bin	bin	1,434,816	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\cc WaterArea.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccWaterArea.Bx	Вх	446,464	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\P7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_tos hiba\C\MPR data\NC2011\cc WaterArea.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccWaterArea.BxI	BxI	3,503	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\cc WaterArea.bxI	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccWaterArea.Cdf	Cdf	7,972,450	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\cc\WaterArea.Cdf	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccWaterArea.DCB	DCB	440	C\Seagate Dashboard 2.0\TOSHIBA- PC\toShiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toShiba\C\MPR data\NC2011\cc WaterArea.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccWaterArea.St2	St2	354	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc\WaterArea.St2	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
ccWaterArea.Sty	Sty	5,543	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\cc WaterArea.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
Hselncumbent.bin	bin	11,760	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\H.selncumbent.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
Hselncumbent.cdf	cdf	5,721	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\Hselncumbent.cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
H s elncumbent.DCB	DCB	468	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_oshiba\C\MPR data\NC2011\H.selncumbent.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
Hseincumbentsty	sty	1,021	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\H.seincumbent.sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	03/28/2015 04:07:39 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
nc2011hds_july12s amps on_etc.bin	bin	123,088	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\Sampson_etc\nc2011hds_july12sa mpson_etc.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
nc2011hds_july12s amps on_etc.cdf	cdf	889,028	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\Sampson_etc\nc2011hds_july12sa mpson_etc.cdf		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
nc2011hds_july12s amps on_etc.DCB	DCB	7,264	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\Sampson_etc\nc2011hds_july12sa mpson_etc.0C8	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
nc2011hds_july12s amps on_etc.s ty	sty	97,407	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7b:3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\Sampson_etc\nc2011hds_july12sa mpson_etc.sty		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	03/28/2015 04:08:34 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
SenIncumbent.bin	bin	5,000	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\Senincumbent.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
SenIncumbent.cdf	cdf	4,881	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\Senincumbent.cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
SenIncumbent.DCB	DCB	519	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR data\NC2011\SenIncumbent.DC8	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
SenIncumbent.sty	sty	1,018	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\c\MPR data\NC2011\Senincumbentsty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	03/28/2015 04:07:37 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



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July 1, 2019 | Easter n Time Zone (Unless Other wise Noted) LEGEND: * represent files extracted from zip file.

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
N C.rdl	rdl	20,311	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NC.rdl	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:19:57 PM	03/28/2015 03:19:57 PM	03/28/2015 03:19:57 PM	N/A	N/A	N/A	04/27/2019	N/A	N/A	N/A
NCH ous e Master July 18 1200001.bak.zip	zip	3,789,352	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\r\Proz.3748.d314-4cc2-a86b- ear7894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master.luly 18 1200 Backups\NC House Master.luly 18 1200001.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:35:28 PM	3/28/2015 3:35:28 PM (Files extracted from the zip have Last Modified dates in July 2011)	03/28/2015 03:35:28 PM	N/A	N/A	N/A	04/17/2019	05/14/2019	05/14/2019	N/A
NCH ous e Master July 18 1200.bdr	bdr	117,760	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Sackup\7bc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001_bak.zip\2IP Volume\NC House Master July 18 1200.bdr		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:04:00 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
N C House Master July 18 1200.bin	bin	18,056	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\ Backup\Trbc.3748.d314.4cc2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:07:22 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
N C H ous e Mas ter July 18 1200.bmp	bmp	88,374	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4c-2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.bmp		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 04:13:54 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
N C H ous e Mas ter July 18 1200.BX	BX	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314.4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.BX	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:59:44 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House Master July 18 1200.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_ushiba\C\MPR work\NCHans\NC House MasterJuly 18 1200 Backups\NC House MasterJuly 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.cdd		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001_bak.zip\ZIP Volume\NC House Master July 18 1200.cdk		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4c2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001_bak.zip\2IP Volume\NC House Master July 18 1200.dbd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.DCB	DCB	1,094	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.0CB		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4c.2+a86b- ea77884bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.z ip\ZIP Volume\NC House Master July 18 1200.ds c		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:50:06 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House MasterJuly 18 1200 Backups\NC House MasterJuly 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.ds k	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-01400

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House Master July 18 1200.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2/20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.grp		External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:50:06 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.lok	lok	45,056	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314.4cc2-a86b- ea77884bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001_bak.zip\ZIP Volume\NC House Master July 18 1200.lok		External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:04:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.map	map	313,596	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748.d314.4c.2+386b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 04:13:54 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pbc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.pnk		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:50:06 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.pts	pts	7,519,976	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4c.2+a86b- ea77884bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.z ip\ZIP Volume\NC House Master July 18 1200.pts		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:04:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.r0	rO	89,088	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House MasterJuly 18 1200 Backups\NC House MasterJuly 18 1200001.bak.zip\ZIP\Volume\NC House Master July 18 1200.d0	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:04:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-01400

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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House Master July 18 1200.r1	r1	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_ushiba\C\MPR work\NCHans\NC House MasterJuly 18 1200 Backups\NC House MasterJuly 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200.r1		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:04:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200.rdp	rdp	3,444	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001_bakzip\ZIP Volume\NC House Master July 18 1200.rdp		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 04:13:54 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\2IP Volume\NC House Master July 18 1200bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:04:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\\The 3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200bb.DCB		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4c.2+a86b- ea77884bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200ctbin		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200ct DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House MasterJuly 18 1200 Backups\NC House MasterJuly 18 1200001.bak.zip\ZIP Volume\NC House Master July 18 1200ctDCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest D ate Provided to Wesley Pegden
NC House Master July 18 1200vtbin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pro23788 d3144cc2=86b- ea77894bb5b2\20150328_151333_toshiba\c\MPR work\NCPlans\NC House Master July 18 1200 Backups\NC House Master July 18 1200 Backups\NC House Master July 18 1200001.bak.z ig\ZIP Volume\NC House Master July 18 1200vtbin		External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/21/11 03:02:18 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House Master July 18 1200vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748.d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\N CPlans\N C House Master July 18 1200 Backups\N C House Master July 18 1200001.bak.zip\2IP Volume\N C House Master July 18 1200vt DCB		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/18/11 11:37:44 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC House w New Raleigh - June 28005.bak.z ip	zip	3,624,928	C\Seagate Dashboard 2.0\TOSHIBA- PC\tshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:35:02 PM	3/28/2015 3:35:02 PM (Files extracted from the zip have Last Modified dates in June 2011)	03/28/2015 03:35:02 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House w New Raleigh - June 28ct.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZiP Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June		External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12-02:44 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZiP\Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

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NC House w New Raleigh - June 28vtbin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dcc2-a86b- ea77894bb5b2\20150328_151333_toshiba\c\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28vtbin		External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:39:56 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28bk. DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:40:12 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.rdp	rdp	2,796	C\Seagate Das hboard 2.0\TOSHIBA- PC\soshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZiP Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/30/11 02:00:30 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.bmp	bmp	88,854	C\Seagate Dashboard 2.0\TOSHIBA- PC\soshiba\Backup\7Dc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 25.bmp		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/30/11 02:00:30 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.map	map	280,409	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/30/11 02:00:30 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A



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July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House w New Raleigh - June 28.BX	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77884bb5b2\20150328_151333_toshiba\(\nmathred{\text{NCPians\NC}}\text{House w New Raleigh-June} 28 Backups\NC House w New Raleigh-June 28005.bak.zip\ZIP Volume\NC House w New Raleigh-June 28.BX		External HDD	N A7JD6G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.DCB	DCB	645	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.bin	bin	13,664	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:45:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.pts	pts	6,747,608	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\\The 3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:40:12 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\soshiba\Backup\7Dc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.dbd		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.lok	lok	40,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\T7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.0ok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:40:12 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-01400

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House w New Raleigh -June 28.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4c.2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.pnk		External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:06:04 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748.d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.0ck		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.ds k	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZiP Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.bdr	bdr	108,544	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\7bc3748.d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:40:12 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.r1	rl	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4c.2-a86b- ea77884bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:40:12 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.r0	rO	81,920	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/29/11 09:40:12 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-01400

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
N C House w New Raleigh - June 28.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\T7bc3748-d314-4cc2-a86b- ea77884bb5b2\20150328_151333_toshiba\C\MPR work\NCPians\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June 28.cdd		External H DD	N A7JD6G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12-02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12-02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House w New Raleigh - June 28.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House w New Raleigh - June 28 Backups\NC House w New Raleigh - June 28005.bak.zip\ZIP Volume\NC House w New Raleigh - June	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/11 12:02:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.bdr	bdr	122,880	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.bin	bin	16,482	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.bmp	bmp	112,374	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\T0c3748-d314-4c-2+986b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.BX	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\fackup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\tCPfans\NC House with Pitt Wilson Pod July 4.BX	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House with Pitt Wilson Pod July 4.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wils on Pod July 4.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\MCPlans\NC House with Pitt Wilson Pod July 4.dbd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wils on Pod July 4.DCB	DCB	1,007	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\MCPlans\NC House with Pitt Wilson Pod July 4.DCB	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wils on Pod July 4.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\KCPlans\NC House with Pitt Wilson Pod July 4.dsc	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wils on Pod July 4.ds k	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPians\NC House with Pitt Wilson Pod July 4.8pp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wils on Pod July 4.lok	lok	48,128	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.lok	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-01400

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N C House with Pitt Wilson Pod July 4.map	map	296,483	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.pts	pts	9,112,296	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\MCPlans\NC House with Pitt Wilson Pod July 4.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.r0	ю	93,184	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\MCPlans\NC House with Pitt Wilson Pod July 4.10	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.r1	n	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\KCPlans\NC House with Pitt Wilson Pod July 4.f1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4.rdp	rdp	3,293	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4.rdp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:51 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:50 PM	03/28/2015 03:30:51 PM	03/28/2015 03:30:50 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Tric3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4bb.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Time Zone (Unless Other wise Noted) LEGEND: * represent files extracted from zip file.

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House with Pitt Wilson Pod July 4ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4ctbin	ES0007C	External H DD	NA7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4ct DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4ctDCB	ES0007C	External H DD	NA7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4vtbin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\tackup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC House with Pitt Wilson Pod July 4vtbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC House with Pitt Wilson Pod July 4vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\\\ \actup\\\\ Tbc3748-d314-4cc2+a86b- ea77894bb5b2\\\\ 20150328_151333_toshiba\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	03/28/2015 03:30:50 PM	N/A	N/A	N/A	04/17/2019	N/A	N/A	N/A
NC Senate Master July 11 0115001.bak.zip	zip	1,342,588	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Bac\tup\r\Draz\7848d314-4cc2=86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master.July 11 0115 Bac\tup\NC Senate Master.July 11 0115001.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/28/2015 03:34:23 PM	3/28/2015 3:34:23 PM (Files extracted from the zip have a Last Modified date in July 2011)	03/28/2015 03:34:23 PM	N/A	N/A	N/A	04/17/2019	05/14/2019	05/14/2019	N/A
NC Senate Master July 11 0115.bdr	bdr	57,344	C\Seagate Das hboard 2.0\TOSHIBA- P\\toshiba\Backup\f7bc3748\d314-4cc2-a86b- ear7884bb5b2\20150328_151333_toshiba\C\MPR work\NCPlams\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.0dr		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.bin	bin	6,400	C\Seagate Das hboard 2.0\TOSHIBA- P\\toshiba\Backup\f7bc3748\d314-4cc2-a86b- ear7894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Mas ter July 11 0115 Backups\NC Senate Mas ter July 11 0115001.bak.zip\ZIP Volume\NC Senate Mas ter July 11 0115.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-01400

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate Master July 11 0115.bmp	bmp	76,854	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\Pbc3748.d314-4cc2-a86b- ear7894bb5b2\20150328_151333_coshiba\C\MPR work\NC/Barns\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.z ip\ZIP Volume\NC Senate Master July 11 0115.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:19:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate Master July 11 0115.8X	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.BX		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.cdd		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.0bd		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate Master July 11 0115.DCB	DCB	818	C\Seagate Dashboard 2.0\TOSHIBA- PC\DShiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_15333_toshiba\C\MPR work\RCPians\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.0CB		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate Master July 11 0115.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748.d314-4cc2-a86b- ear77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.z ip\ZIP Volume\NC Senate Master July 11 0115.ds c	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate Master July 11 0115.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toShiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_boshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.ds k	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.grp	gp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rbc3748-d314-dc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.lok	lok	21,504	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748 d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.map	map	259,443	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.map		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:19:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.pnk	pnk	4,096	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.pnk	ES0007C	External HDD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



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NC Senate Master July 11 0115.pts	pts	2,156,352	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\Pbc3748.d314-4cc2-a86b- ear7894bb5b2\20150328_151333_coshiba\C\MPR work\NCPians\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.z ip\ZIP Volume\NC Senate Master July 11 0115.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.r0	rO	43,008	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.00		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.r1	r1	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rbc3748-d314-dc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.rl		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115.rdp	rdp	2,963	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115.rdp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:19:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toShiba\Backup\f7bc3748 d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlarns\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.z ip\ZIP Volume\NC Senate Master July 11 0115bk.bin		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\DShiba\Backup\rDc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPians\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115bk.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A



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NC Senate Master July 11 0115ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\rDc3748.d314-4cc2-a86b- ear77894bb5b2\20150328_151333_toshiba\C\MPR work\NC/Brans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115ctbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115ctDCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_loshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115ctCC8	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115vtbin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_toshiba\C\MPR work\NCPlans\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115vtbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate Master July 11 0115vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7b:3748-d314-4cc2-a86b- ea77894bb5b2\20150328_151333_loshiba\C\MPR work\NCPlarns\NC Senate Master July 11 0115 Backups\NC Senate Master July 11 0115001.bak.zip\ZIP Volume\NC Senate Master July 11 0115vt.DCB		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/11/11 1:13:24 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/17/2019*	05/14/2019*	05/14/2019*	N/A
ccPlace.Cfs	Cfs	5,964	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150618_173717_tos hibalnc516\ C\MPRdata\NC2011\ccPlace.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/19/2015 09:35:35 AM	06/19/2015 09:35:35 AM	06/19/2015 09:35:35 AM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccPlace.bin	bin	1,223,784	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc.3748-d314-4cc2-a86b- ea77894bb5b2\20150619_095133_toshibalnc517\ C\MPRdata\NC2011\ccPlace.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/19/2015 09:51:53 AM	06/19/2015 09:51:53 AM	06/19/2015 09:51:53 AM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccPlace.Bx	Вх	62,976	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20150619_095133_toshibalnc517\ C\MPRdata\NC2011\ccPlace.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/19/2015 09:51:53 AM	06/19/2015 09:51:53 AM	06/19/2015 09:51:53 AM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccPlace.BxI	BxI	2,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Sackup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20151101_124418_toshibalnc822\ C\MPRdata\NC2011\ccPlace.Bxl	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	11/01/2015 01:39:15 PM	11/01/2015 01:39:15 PM	11/01/2015 01:39:15 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A



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July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

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ccPlace.St2	St2	1,035	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20151101_124418_toshibaInc822\ C\MPRdata\NC2011\ccPlace.St2	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	11/01/2015 01:39:15 PM	11/01/2015 01:39:15 PM	11/01/2015 01:39:15 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccPlace.Sty	Sty	19,164	C\Seagate Dashboard 2.0\TOSHIBA- PC\ toshiba\ Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20151101_124418_toshibalinc822\ C\MPRdata\NC2011\ccPlace.Sty	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	11/01/2015 01:39:15 PM	11/01/2015 01:39:15 PM	11/01/2015 01:39:15 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
FORMULA FOR POLITICAL ANALYSIS OF LEG ISLATIVE DISTRICTS.docx	docx	10,403	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7b:3748-d314-4cc2-486b- ea77894bb5b2\20161025_151544_toshibalnc1350 \C\Uses\toshiba\Documents\Tom\2017 Redistricting\FORMULAFOR POLITICAL ANALYSIS OF LEGISLATIVE DISTRICTS.docx	ES0007C	External HDD	N A7J06G X	Silver and black in color, labeled "#3"	12/01/2016 09:54:08 AM	12/01/2016 09:54:08 AM	12/01/2016 09:54:08 AM	11/07/2016 01:07:00 PM	11/07/2016 02:36:00 PM	N/A	04/17/2019	05/20/2019	05/20/2019	N/A
House Minimum- Partisan- Members.xlsx	xlsx	18,182	C\Seagate Dashboard 2.0\TOSHIBA- PC\Isshiba\Backup\Pro-S3788-d314-4cc2-a86b- ea77894bb5b2\20161025_151544_exb-bibainc1350 \Users\User\User\User\User\User\User\Use	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	12/01/2016 09:54:08 AM	12/01/2016 09:54:08 AM	12/01/2016 09:54:08 AM	11/21/2016 10:42:45 AM	11/24/2016 12:21:54 PM	11/24/2016 10:22:02 AM	04/17/2019	05/14/2019	05/14/2019	N/A
Senate Minimum- Partis an- Members .xls x	xlsx	13,709	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20161025_151544_toshibalnc1350 \C\U sers\toshiba\Documents\Tom\2017 Redistricting\Senate Minimum-Partisan- Members.xlsx	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	12/01/2016 09:54:04 AM	12/01/2016 09:54:04 AM	12/01/2016 09:54:04 AM	11/21/2016 10:42:45 AM	11/26/2016 12:44:12 PM	11/26/2016 10:46:10 AM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum Renumbered.xls	xls	61,952	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\\Backup\\Tots3748-d314-4c.2-a86b- ea77894bb5b2\20161201_112948_toshibaInc.1350 \C\Usen\toshiba\\Documents\Tom\2017 Redistricting\House Minimum Renumbered.xls	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	N/A	12/3/2016 02:42:30 PM (timezone not determined)	N/A	04/17/2019	05/22/2019	05/22/2019	N/A
House Minimum- Partis an-Members D.xlsx	xlsx	25,165	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20161201_112948_toshibalnc1350 \C\U sers\toshiba\Documents\Tom\2017 Redistricting\House Minimum-Partisan-Members Dxlsx	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	11/21/2016 10:42:45 AM	12/06/2016 07:39:07 PM	12/06/2016 07:37:45 PM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partisan- Members.xlsx	xlsx	24,246	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20161201_112948_toshibalnc1350 \C\Uses\toshiba\Documents\Tom\2017 Redistricting\House Minimum-Partisan- Members.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	11/21/2016 10:42:45 AM	12/03/2016 12:47:37 PM	12/03/2016 12:36:46 PM	04/17/2019	05/14/2019	05/14/2019	N/A



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Johns ton Senate Switch.xls x	xlsx	10,018	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20161201_112948_toshiba1cc1350 \C\U ses\toshiba\Documents\Tom\2017 Redistricting\Johnston Senate Switchxlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	01/03/2017 04:46:33 PM	12/10/2016 03:18:10 PM	12/11/2016 04:49:26 PM	N/A	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partis an-Members D.xls x	xlsx	25,165	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170105_164443_boshibaInc1385 \C\U sers\toshiba\Documents\Tom\NC 2017 Redistricting\House Minimum-Partisan-Members Dxlsx	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	01/05/2017 04:48:03 PM	01/05/2017 04:48:03 PM	01/05/2017 04:48:03 PM	11/21/2016 10:42:45 AM	12/06/2016 07:39:07 PM	12/06/2016 07:37:45 PM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partisan- Members.xlsx	xlsx	24,246	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170105_164443_toshibaInc1385 \C\U sers\toshiba\Documents\Tom\NC 2017 Redistricting\House Minimum-Partisan- Members.xlsx	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	01/05/2017 04:48:03 PM	01/05/2017 04:48:03 PM	01/05/2017 04:48:03 PM	11/21/2016 10:42:45 AM	12/03/2016 12:47:37 PM	12/03/2016 12:36:46 PM	04/17/2019	05/14/2019	05/14/2019	N/A
Senate Minimum- Partis an- Members .xls x	xlsx	13,709	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170105_164443_toshibalnc1385 \C\U sers\toshiba\Documents\Tom\NC 2017 Redistricting\Senate Minimum-Partisan- Members.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	01/05/2017 04:47:59 PM	01/05/2017 04:47:59 PM	01/05/2017 04:47:59 PM	11/21/2016 10:42:45 AM	11/26/2016 12:44:12 PM	11/26/2016 10:46:10 AM	04/17/2019	05/14/2019	05/14/2019	N/A
ccBlock.Bxl	BxI	189	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccBlock.Bxl	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:52 PM	03/12/2017 12:24:52 PM	03/12/2017 12:24:52 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlock.Cdf	Cdf	49,528,892	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccBlock.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:50 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlock.Sty	Sty	19,074	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccBlock.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlockGroup.bin	bin	6,511,990	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibainc1861 \C\MPRdata\NC2011\ccBlockGroup.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A



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ccBlockGroup.Bx	Вх	331,776	C\Seagate Das hboard 2.0\TOSHIBA- PC\tos hiba\Backup\r7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_tos hibainc1861 \C\MPRdata\NC2011\ccBlockGroup.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlockGroup.Cdf	Cdf	5,206,426	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\ccBlockGroup.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlockG roup.Cfs	Cfs	5,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccBlockGroup.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlockG roup.DCB	DCB	60,732	C\Seagate Dashboard 2.0\TOSHBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccBlockGroup.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlockGroup.Sty	Sty	19,118	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\ccBlockGroup.Sty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	03/12/2017 12:24:49 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccCounty.Bxl	BxI	2,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccCounty.8xl	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccCounty.Cdf	Cdf	433,498	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccCounty.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
cc County.Cfs	Cfs	5,968	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccCounty.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccCounty.DCB	DCB	65,442	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\N C2011\ccCounty.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccCounty.Sty	Sty	19,137	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\N C2011\ccCounty.Sty	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	03/12/2017 12:24:48 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A



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ccPlace.Cdf	Cdf	1,618,012	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccPlace.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:47 PM	03/12/2017 12:24:47 PM	03/12/2017 12:24:47 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccPlace.DCB	DCB	63,188	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\P7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\ccPlace.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:46 PM	03/12/2017 12:24:46 PM	03/12/2017 12:24:46 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccVotingDistrict.BxI	BxI	2,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\P7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\N C2011\ccVotingDistrict.8xl	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccVotingDistrict.Cdf	Cdf	3,294,660	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\ccVotingDistrict.Cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccVotingDistrict.Cfs	Cfs	5,956	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\ccVotingDistrict.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccVotingDistrict.DCB	DCB	65,684	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\ccVotingDistrict.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccVoting District.Sty	Sty	19,109	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\ccVotingDistrictSty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	03/12/2017 12:24:19 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
Hselncumbent.bin	bin	11,760	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\NC2011\HseIncumbent.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
Hseincumbent.cdf	cdf	5,721	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\N C2011\HseIncumbent.cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
H s elncumbent.DCB	DCB	468	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_boshibaInc1861 \C\MPRdata\NC2011\Hselncumbent.DC8	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A



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Hseincumbentsty	sty	1,021	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748:d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibainc1861 \C\MPRdata\NC2011\Hseincumbents.ty	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	03/12/2017 12:24:18 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
SenIncumbent.bin	bin	5,000	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backuy\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\SenIncumbent.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
Senincumbent.cdf	cdf	4,881	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backuy\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\NC2011\SenIncumbent.cdf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
SenIncumbent.DCB	DCB	519	C\Seagate Das hboard 2.0\TO SHIBA- PC\tos hiba\Backup\f7bc.3748-d314-4cc 2-a86b- ea77894bb5b2\20170312_111826_tos hibalnc1861 \C\MPRdata\N C2011\Senlnc umbent.0CB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
SenIncumbent.sty	sty	1,018	C\Seagate Dashboard 2.0\T05HiBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\N C2011\SenIncumbent.sty	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
memres_House_20 161116_generalized _SPM.CPG	CPG	5	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\r\Pc3748-d314-4cc2-a86b- ea77894bb5b2\2017312_111826_toshibalnc1861 \C\MP8ddsh\New Memben 2017\House 2017\memes_House_20161116_generalized_SP M.CPG	ES0007C	External HDD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_House_20 161116_generalized _SPM.prj	рij	523	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77884bb5k2\20170312_111826_toshibainc1861 (\MPRdafa\New Memben 2017\House 2017\memres_House_20161116_generalized_SP Mpg	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_H ouse_20 161116_generalized _SPM.sbn	s bn	1,252	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\r7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibaInc1861 \C\MPRdata\New Members 2017\House 2017\memres_House_20161116_generalized_SP Msbn	ES0007C	Extemal H DD	N A7306G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_H ous e_20 161116_generalized _SPMs bx	s bx	172	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314.4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Memben 2017\House 2017\memres_House_20161116_generalized_SP Ms.bx	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A



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memres_House_20 161116_generalized _SPM.shp.xml	xml	19,365	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Members 2017\House 2017\memres_House_20161116_generalized_SP Mshp.xml	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.CPG	CPG	5	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP MCPG	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.prj	prj	523	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Mprj	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.sbn	sbn	604	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Msbn	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.sbx	sbx	148	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Msbx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.shp.xml	xml	9,746	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Mshp.xml	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	03/12/2017 12:24:15 PM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
House Minimum- Partisan-Wembers D.xlsx	xlsx	25,165	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\U ses\toshiba\Document\\Tom\NC 2017 Redistricting\House Mrilmum-Partisan-Wembers Dxlsx	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 11:25:59 AM	03/12/2017 11:25:59 AM	03/12/2017 11:25:59 AM	11/21/2016 10:42:45 AM	12/06/2016 07:39:07 PM	12/06/2016 07:37:45 PM	04/17/2019	05/14/2019	05/14/2019	N/A



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H ous e Minimum- Partis an- Members .xls x	xlsx	24,246	C\Seagate Dashboard 2.0\TOSHIBA- PC\tsshiba\Backup\f7bc.3748-d314-4cc2+86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\Uses\\toshiba\Couments\\Tom\NC 2017 Redistricting\House Minimum-Partisan- Members xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 11:25:58 AM	03/12/2017 11:25:58 AM	03/12/2017 11:25:58 AM	11/21/2016 10:42:45 AM	12/03/2016 12:47:37 PM	12/03/2016 12:36:46 PM	04/17/2019	05/14/2019	05/14/2019	N/A
Senate Minimum- Partis an- Members .xls x	xlsx	13,709	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170312_111826_toshibalnc1861 \C\Uses\toshiba\Occuments\Tom\NC 2017 Redistricting\Senate Minimum-Partisan- Members.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	03/12/2017 11:25:54 AM	03/12/2017 11:25:54 AM	03/12/2017 11:25:54 AM	11/21/2016 10:42:45 AM	11/26/2016 12:44:12 PM	11/26/2016 10:46:10 AM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partis an-Members D.xlsx	xlsx	25,230	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170531_084929_toshibalnc2210 \C\Uses\toshiba\Document\\Tom\NC 2017 Redistricting\House Minimum-Partisan-Wembers Dxlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	05/31/2017 08:49:51 AM	05/31/2017 08:49:51 AM	05/31/2017 08:49:51 AM	11/21/2016 10:42:45 AM	05/31/2017 08:35:00 AM	12/06/2016 07:37:45 PM	04/17/2019	05/14/2019	05/14/2019	N/A
NC House Plan June 7.xls	xis	62,976	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\(7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170607_152743_toshibalnc2347 \C\Users\toshiba\Documents\Tom\NC 2017 Redistricting\NC House Plan June 7.xls	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/07/2017 03:28:05 PM	06/07/2017 03:28:05 PM	06/07/2017 03:28:05 PM	N/A	6/7/2017 07:17:15 PM (timezone not determined)	N/A	04/17/2019	05/22/2019	05/22/2019	N/A
House Minimum- Partis an-Members D.xlsx	xlsx	25,854	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170608_095810_toshibalnc2357 \C\User\toshiba\Documents\Tom\NC 2017 Redistricting\House Minimum-Partisan-Wembers Dxlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/08/2017 09:58:32 AM	06/08/2017 09:58:32 AM	06/08/2017 09:58:32 AM	11/21/2016 10:42:45 AM	06/08/2017 09:50:07 AM	06/08/2017 09:20:33 AM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partis an-Members D.xls x	xlsx	25,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170612_230105_toshibalnc2436 \C\Uses\toshiba\Documents\Tom\NC 2017 Redistricting\House Minimum-Partisan-Members Dxlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/12/2017 11:01:27 PM	06/12/2017 11:01:27 PM	06/12/2017 11:01:27 PM	11/21/2016 10:42:45 AM	06/12/2017 03:49:26 PM	06/08/2017 09:20:33 AM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partisan- Members.xlsx	xlsx	24,269	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170612_230105_toshibaInc2436 \C\User\toshiba\Document\\Tom\NC 2017 Redistricting\House Minimum-Partisan- Members.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/12/2017 11:01:27 PM	06/12/2017 11:01:27 PM	06/12/2017 11:01:27 PM	11/21/2016 10:42:45 AM	06/12/2017 10:55:12 PM	12/03/2016 12:36:46 PM	04/17/2019	05/14/2019	05/14/2019	N/A



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H ous e Minimum- Partis an-Members D.xls x	xlsx	25,706	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170613_101639_toshibalnc2441 \C\Users\toshiba\Cocuments\Tom\NC 2017 Redistricting\House Minimum-Partisan-Members Dxlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/13/2017 10:17:01 AM	06/13/2017 10:17:01 AM	06/13/2017 10:17:01 AM	11/21/2016 10:42:45 AM	06/12/2017 03:49:26 PM	06/08/2017 09:20:33 AM	04/17/2019	05/14/2019	05/14/2019	N/A
House Minimum- Partisan-Members J- 2.xlsx	xlsx	26,599	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170613_101639_toshibalnc2441 \C\Uses\toshiba\Document\\Tom\NC 2017 Redistricting\House Minimum-Partisan-Wembers J- 2.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/13/2017 10:17:01 AM	06/13/2017 10:17:01 AM	06/13/2017 10:17:01 AM	11/21/2016 10:42:45 AM	06/13/2017 10:10:50 AM	06/13/2017 10:07:14 AM	04/17/2019	05/14/2019	05/14/2019	N/A
Senate Minimum- Partis an- Members .xls x	xlsx	13,709	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170613_103309_toshibalnc2442 \C\U sers\toshiba\Documents\Tom\NC 2017 Redistricting\Senate Mnimum-Partisan- Members.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/13/2017 10:33:31 AM	06/13/2017 10:33:31 AM	06/13/2017 10:33:31 AM	11/21/2016 10:42:45 AM	11/26/2016 12:44:12 PM	11/26/2016 10:46:10 AM	04/17/2019	05/14/2019	05/14/2019	N/A
Senate Minimum- Partis an-Members J- 2.xls x	xlsx	15,028	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170613_104847_toshibalnc2443 \C\U sers\toshiba\Documents\Tom\NC 2017 Redistricting\Senate Minimum-Partisan-Wembers J- 2.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/13/2017 10:49:09 AM	06/13/2017 10:49:09 AM	06/13/2017 10:49:09 AM	11/21/2016 10:42:45 AM	06/13/2017 10:28:49 AM	11/26/2016 10:46:10 AM	04/17/2019	05/14/2019	05/14/2019	N/A
N C Senate Minimun- Partis an J-2.xls x	xlsx	18,598	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170613_171944_toshibalnc2453 \C\Users\toshiba\Documents\Tom\NC 2017 Redistricting\NC Senate Minimun-Partisan J-2.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/13/2017 05:20:06 PM	06/13/2017 05:20:06 PM	06/13/2017 05:20:06 PM	11/21/2016 10:42:45 AM	06/13/2017 05:15:03 PM	06/13/2017 04:59:52 PM	04/17/2019	05/22/2019	05/22/2019	N/A
House Minimum- Partis an-Members J- 2.xlsx	xlsx	26,593	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170615_103911_toshibalnc2461 \C\Users\toshiba\Documents\Tom\NC 2017 Redistricting\House Minimum-Partisan-Wembers J- 2.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/15/2017 10:39:40 AM	06/15/2017 10:39:40 AM	06/15/2017 10:39:40 AM	11/21/2016 10:42:45 AM	06/14/2017 09:52:01 AM	05/13/2017 10:07:14 AM	04/17/2019	05/14/2019	05/14/2019	N/A
Senate Minimum- Partis an-Members J- 2.xls x	xlsx	15,028	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dcc2-a86b- ea77894bb5b2\20170615_103911_toshibalnc2461 \C\Users\toshiba\Document\\Tom\NC 2017 Redistricting\Senate Minimum-Partisan-Members J- 2.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/15/2017 10:39:40 AM	06/15/2017 10:39:40 AM	06/15/2017 10:39:40 AM	11/21/2016 10:42:45 AM	06/13/2017 10:28:49 AM	11/26/2016 10:46:10 AM	04/17/2019	05/14/2019	05/14/2019	N/A



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House Minimum- Partis an-Members J- 2.xls x	xlsx	26,593	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170618_062153_toshibainc2502 \C\Users\toshiba\Documents\Tom\NC 2017 Redistricting\House Minimum-Partisan-Members J- 2.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/18/2017 06:22:13 AM	06/18/2017 06:22:13 AM	06/18/2017 05:22:13 AM	11/21/2016 10:42:45 AM	06/14/2017 09:52:01 AM	06/13/2017 10:07:14 AM	04/17/2019	05/14/2019	05/14/2019	N/A
Hselncumbent.bin	bin	10,320	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7b:3748-d314-4cc2-a86b- ea77894bb5b2\20170620_195750_toshibaInc2540 \C\MPRdata\N C2011\Incumbents-NCGA- ISD\H seincumbentbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 07:58:38 PM	06/20/2017 07:58:38 PM	06/20/2017 07:58:38 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
ccBlock.bin	bin	559,478,832	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_toshibalnc2542 \C\MPRdata\N C2011\ccBlock.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:14 PM	06/20/2017 08:33:19 PM	06/20/2017 08:33:14 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlock.Bx	Вх	32,845,824	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_toshibalnc2542 \C\MPRdata\N C2011\ccBlock.Bx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlock.Cfs	Cfs	5,940	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_oshibalnc2542 \C\MPRdata\NC2011\ccBlock.Cfs	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccBlock.DCB	DCB	68,865	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_oshibalnc2542 \C\MPRdata\NC2011\ccBlock.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccCounty.bin	bin	216,400	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_toshibalnc2542 \C\MPRdata\NC2011\ccCounty.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	06/20/2017 08:33:13 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccCounty.Bx	Bx	9,216	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_toshibalnc2542 \C\MPRdata\NC2011\ccCounty.8x	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:12 PM	06/20/2017 08:33:12 PM	06/20/2017 08:33:12 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
ccVotingDistrict.bin	bin	5,311,316	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_toshibalnc2542 \C\MPRdata\NC2011\ccVotingDistrict.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:12 PM	06/20/2017 08:33:12 PM	06/20/2017 08:33:12 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
ccVoting District.Bx	Вх	110,080	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170620_203251_toshibaInc2542 \C\MPRdata\NC2011\ccVotingDistrict.8x	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:12 PM	06/20/2017 08:33:12 PM	06/20/2017 08:33:12 PM	N/A	N/A	N/A	05/21/2019	N/A	N/A	N/A
SenIncumbent.bin	bin	4,300	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\\rbc3748-d314-4c.2+386b- ea77894bb5b2\20170620_203251_boshibalnc2542 \C\MPRdata\NCQD11\ncumbents-NCGA- ISD\Senincumbent.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/20/2017 08:33:37 PM	06/20/2017 08:33:37 PM	05/20/2017 08:33:37 PM	N/A	N/A	N/A	05/22/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.dbf	dbf	5,008	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_bshibalnc2590 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Mdbf	ES0007C	External H DD	N A7306G X	Silver and black in color, labeled "#3"	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.shp	shp	1,500	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Mshp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_Senate_20 161109_generalized _SPM.shx	s hx	500	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314.4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRdata\New Members 2017\Senate 2017\memres_Senate_20161109_generalized_SP Mshx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
NC Senate J- 24001.bak.zip	zip	3,930,007	C\Seagate Dashboard 2.0\TOSHIBA- PC\toShiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toShibaInc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	06/24/2017 09:39:58 AM	N/A	N/A	N/A	05/14/2019	05/14/2019	05/14/2019	N/A
NC Senate J-24.bdr	bdr	46,080	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate J-24.bin	bin	14,469	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20170624_093938_bshibalnc2590 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.bin	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:32:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.bmp	bmp	89,334	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.rip\ZIP Volume\NC Senate J-24.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:32:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.BX	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlaris\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.8X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate J-24.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pfc23788.d3144cc2=86b- ea77894bb5b2\20170624_09398_tshibalnc2590 \C\MPRwork\\NCPlans\MC Senate Js4 Backups\NC Senate J24001.bak.zip\ZiP Volume\NC Senate J240c1.bak.zip\ZiP	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_bshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.cdk	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_boshibainc2590 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-240Jbak.rip\ZIP Volume\NC Senate J-24.dbd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.DCB	DCB	2,081	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.0CB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate J-24.ds c	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.dsc	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.ds k	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.rip\ZIP Volume\NC Senate J-24.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate J-24.grp	gp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.lok	lok	19,456	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pro23788.d314-4cc2=86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\\VCPlarts\NC Senate J:24 Backups\NC Senate J:24001.bak.rip\ZiP Volume\NC Senate J:24.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.map	map	253,916	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pric-3788-d314-4cc2=86b- ea77894bb5b2\20170624_093938_toshibainc2590 \C\MPRwork\NCPiars\NC Senate J-24 Backups\NC Senate J-24001.bak.rip\ZiP Volume\NC Senate J-24.map	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/24/17 09:32:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J-24.pnk	pnk	4,096	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4c.2-a86b- ea77884bb5b2\20170624_09393_bshibainc2590 \C\MPRwork\\CPIns\\NC Senate J-24 Backups\\NC Senate J-2400Lbsk.zip\ZiP Volume\NC Senate J-24.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:23:56 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate J-24.pts	pts	7,553,864	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4c.2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate J-24.r0	rO	35,840	C\Seagate Dashboard 2.0\TOSHIBA- PC\tsshiba\Backup\f7bc.3748-d314-4cc2+a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24001.bak.rip\ZIP Volume\NC Senate J-24.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate J-24.r1	rı	7,168	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backup\NC Senate J-24001.bak.rip\ZIP Volume\NC Senate J-24.r1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timezone not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate J-24.rdp	rdp	3,688	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24.rdp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:32:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J- 24bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\7Pc23788-d314-4cc2=86b- ea77894bbbb2\20170624_093938_toshibalnc2590 \(\lambda\text{CMPRwork\NCPlans\NC Senate J-24}\) Backups\NC Senate J-2400Lbb.r.ip\ZIP Volume\NC Senate J-24bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:24:34 AM (timezone not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J- 24bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24bk.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
NC Senate J-24ct.bin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Ptb-23748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibainc2590 \((\)\MPRwork\NCPians\NC Senate J:24 Backups\NC Senate J:24001.bak.zip\ZiP \(\)Volume\NC Senate J:24ct.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J- 24ct DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlans\NC Senate J24 Backups\NC Senate J24001.bak.zip\ZiP Volume\NC Senate J24ctDCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate J-24vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4c2+366b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24001.bak.zip\ZIP Volume\NC Senate J-24vt.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J- 24vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_093938_toshibalnc2590 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24001.bak.rjp\ZIP Volume\NC Senate J-24vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	05/14/2019*	05/14/2019*	05/14/2019*	N/A
PPI Indicator Votes for New 2017 Legis lative Districts.xlsx	xlsx	13,784	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\77bc3748-d314-4cc2-a86b- ea77894bb5b2\20170624_121146_toshibalnc2595 \C\U sers\toshiba\Documents\Tom\NC 2017 Redistricting\PPI Indicator Votes for New 2017 Legislative Districts.xlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/24/2017 12:12:06 PM	06/24/2017 12:12:06 PM	06/24/2017 12:12:06 PM	06/24/2017 11:18:40 AM	06/24/2017 12:06:34 PM	06/24/2017 12:05:19 PM	04/17/2019	05/22/2019	05/22/2019	N/A
memres_House_20 161116_generalized _SPM.dbf	dbf	11,658	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170627_100447_toshibalnc2638 \C\MPRdata\New Members 2017\House 2017\memmes_House_20161116_generalized_SP Mdbf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/27/2017 10:05:09 AM	06/27/2017 10:05:09 AM	06/27/2017 10:05:09 AM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_House_20 161116_generalized _SPM.shp	shp	3,460	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170627_100447_toshibalnc2638 \C\MPRdata\New Members 2017\House 2017\memmes_House_20161116_generalized_SP Mshp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/27/2017 10:05:09 AM	06/27/2017 10:05:09 AM	06/27/2017 10:05:09 AM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
memres_House_20 161116_generalized _SPM.shx	shx	1,060	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20170627_100447_toshibalnc2638 \C\MPRdata\New Members 2017\House 2017\memmes_House_20161116_generalized_SP Mshx	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	06/27/2017 10:05:09 AM	06/27/2017 10:05:09 AM	06/27/2017 10:05:09 AM	N/A	N/A	N/A	05/10/2019	N/A	N/A	N/A
NC House J- 25003.bak.zip	zip		C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	06/28/2017 12:05:45 PM	06/28/2017 12:05:45 PM	06/28/2017 12:05:45 PM	N/A	N/A	N/A	04/28/2019	05/14/2019	05/14/2019	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J-25.bdr	bdr	101,376	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2+a86b- ea77894bb5b2\20170628_120524_bshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.bdr	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.bin	bin	43,318	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:44:34 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.bmp	bmp	81,654	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.0mp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/17 12:04:38 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.8X	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.8X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thz-3788.d314-4cc2-486b- ea77884b5562\20170628_120524_toshibainc2724 \C\MPRword\\\CPians\NC House J-25 Backups\NC House J-25003.bak.zip\ZiP Volume\NC House J-25.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC Hous e J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.dbd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J-25.DCB	DCB	1,775	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2+a86b- ea77894bb5b2\20170628_120524_bshibalnc2724 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.0CB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.dsc	dsc	2,048	C\Seagate Das hboard 2.0\TOSHIBA- PC\ tos hiba\ Bac kup\f7bc 3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_tos hibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Bac kups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.dsc	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.grp	gp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pta-27864314-4cc2=86b- ear7894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House 1-25 Backup\NC House 1-25003.bak.zip\ZiP Volume\NC House 1-25.0gp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
N C H ous e J-25.lok	lok	40,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pto278483144cc2=86b- ea77894bb5b2\20170628_120524_schibainc2724 \C\MPRwork\NCPIans\NC House J-25 Backup\ House J-2500.bak.zip\ZiP Volume\NC House J-25.1ok	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.map	map	596,179	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170628_120524_bshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/28/17 12:04:38 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC Hous e J-25 Backups\NC House J-25003.bak.zip\2IP Volume\NC House J-25.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:33:28 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A



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N C House J-25.pts	pts	19,525,328	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:06 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.r0	ъ	76,800	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.r1	п	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup/fbc.3784.6314-4cc2-886b- ear7894bb5b2\20170628_120524_toshibalnc2724 \C\MP8work\NCPlans\NC House k125 Backups\NC House k25003.bak.zip\2IP Volume\NC House k25.01	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25.rdp	rdp	3,458	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.rdp	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/28/17 12:04:38 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J- 25bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-2500.bak.zip\ZIP Volume\NC House J-25bk.bin	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
N C House J- 25bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894b55b2\20170628_120524_toshibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\2IP Volume\NC House J-25bb.DC8	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25ct.bin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibaInc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25Ctbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A



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N C House J- 25ctDCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170628_120524_bshibalnc2724 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25ct.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
NC House J-25vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25vtbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:41:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
N C House J- 25vt DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\tashiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170628_120524_toshibalnc2724 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	05/14/2019*	05/14/2019*	N/A
N C Senate J- 24003.bak.zip	zip		C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Back.up\\Thc:3748-d314-4c.2+a86b- ea77894bb5b2\20170705_130329_toshibalnc:2731 \C\MPRwork\NCPlare\NC Senate J-24 Back.ups\NC Senate J-24003.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/05/2017 01:04:01 PM	07/05/2017 01:04:01 PM	07/05/2017 01:04:01 PM	N/A	N/A	N/A	06/04/2019	06/04/2019	N/A	N/A
N C Senate J-24.bdr	bdr	46,080	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\PibaS4786.3184.4c.2=86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\N\CPlara\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.0dr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.bin	bin	14,469	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:32:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.bmp	bmp	89,814	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NCSenate J-24 Backups\NCSenate J-24003.bak.zip\ZIP Volume\NCSenate J-24.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/02/17 02:43:28 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC Senate J-24.BX	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.8X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibaInc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup/fbc.3788.d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRovor\\NCPlans\NC Senate J-24 Backup\NC Senate J-24003.bak.zip\ZiP Volume\NC Senate J-24.dbd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.DCB	DCB	2,081	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup/Tbc.3784.6314-4cc2-886b- ea77884bb5b2\20170705_130329_toshibainc2731 \C\MPRwork\C\Polars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZiP Volume\NC Senate J-24.0CB	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.ds c	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibaInc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.dsc	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\2IP Volume\NC Senate J-24.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC Senate J-24.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20170705_130329_boshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.grp	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.lok	lok	19,456	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.rip\ZIP Volume\NC Senate J-24.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.map	map	374,051	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlaris\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/02/17 02:43:28 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.pnk	pnk	4,096	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pfc23788.d3144cc2=86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\\NCPlants\MC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZiP Volume\NC Senate J-24.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:23:56 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.pts	pts	7,553,864	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\P\tas3788.d3144cc2=86b- ea77884bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backup\CSenate J-24003.bak.zip\ZiP Volume\NC Senate J-24.pts	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.r0	ю	35,840	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.rip\ZIP Volume\NC Senate J-24.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.r1	r1	7,168	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.r1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC Senate J-24.rdp	rdp	3,688	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4c.2+a86b- ea77894bb5b2\201170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24.rdp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/02/17 02:43:28 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J- 24bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.rip\ZIP Volume\NC Senate J-24bb.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:24:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 24bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24bb.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24ct.bin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24ct.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J- 24ctDCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24ct.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77884b55b2\20170705_130329_toshibainc2731 \C\MPRwork\\NCPiars\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZiP Volume\NC Senate J-240tbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 24vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24003.bak.zip\ZIP Volume\NC Senate J-24vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC House CCNC PPI.xlsx	xlsx	21,676	C\Seagate Das hboard 2.0\TOSHIBA- PC\ tos hiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_tos hibaInc2731 \C\U ses\ tos hiba\ Documents\Tom\NC 2017 Redistricting\ NC House CCNC PPLxIsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/05/2017 01:03:55 PM	07/05/2017 01:03:55 PM	07/05/2017 01:03:55 PM	07/02/2017 02:00:17 PM	07/04/2017 11:15:38 AM	07/04/2017 10:54:01 AM	04/17/2019	05/14/2019	05/14/2019	N/A
NC House CCNC Sample Plan - June 2017.xls	xis	56,320	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170705_130329_toshibalnc2731 \C\U sers\toshiba\Oocuments\Tom\NC 2017 Redistricting\NC House CCNC Sample Plan - June 2017.xls	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/05/2017 01:03:55 PM	07/05/2017 01:03:55 PM	07/05/2017 01:03:55 PM	N/A	7/4/2017 03:15:47 PM (timez one not determined)	N/A	04/17/2019	05/14/2019	05/14/2019	N/A
N C Senate CCN C PPI.xlsx	xlsx	17,941	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Sackup\f7bc3748\d3144cc2\u00e486b- ea77894bb5b2\20170708\u20016_toshibalnc2756 \(\cup \text{LS set}\) biba\Documents\tank\tank\tank\tank\tank\tank\tank\tank	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/08/2017 08:00:37 PM	07/08/2017 08:00:37 PM	07/08/2017 08:00:37 PM	07/08/2017 12:25:02 PM	07/08/2017 07:45:53 PM	07/08/2017 07:45:22 PM	04/17/2019	05/14/2019	05/14/2019	N/A
N C Senate J- 24005.bak.zip	zip	4,009,383	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_poshibaInc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24005.bak.rip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/12/2017 03:14:12 PM	07/12/2017 03:14:12 PM	07/12/2017 03:14:12 PM	N/A	N/A	N/A	06/04/2019	06/04/2019	N/A	N/A
N C Senate J-24.bdr	bdr	46,080	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\PtoS478643144cc2=86b- ea77894bb5b2\20170712_151351_ushibalnc2792 \C\MPRword\N\CPlara\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.0bf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.bin	bin	14,469	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:32:44 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.bmp	bmp	90,294	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/12/17 03:02:10 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
N C Senate J-24.8X	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibaInc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.8X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\fbc3788.d3144cc2=86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MP8work\NCPlans\NC Senate J24 Backups\NC Senate J24005.bak.zip\2IP Volume\NC Senate J24.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\fnz-3786.4314-4c.2-a86b- ea77884bb5b2\20170712_151351_toshibainc2792 \C\MPRwork\\CPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZiP Volume\NC Senate J-24.0bd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.DCB	DCB	2,081	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup/Tbc.3784.6314-4cc2-886b- ea77884bb5b2\20170712_151351_toshibainc2792 \C\MPRwork\C\Polans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZiP Volume\NC Senate J-24.005	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.ds c	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20170712_151351_boshibanc2792 \C\MPRwork\\CPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZiP Volume\NC Senate J-24.4.5c	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC Senate J-24.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_boshibaInc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.lok	lok	19,456	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibaInc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.map	map	324,864	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/12/17 03:02:10 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.pnk	pnk	4,096	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup/fbc.3788.d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRovor\\NCPlans\NC Senate J-24 Backup\NC Senate J-24005.bak.zip\2IP Volume\NC Senate J-24.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:23:56 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.pts	pts	7,553,864	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup/Tbc.3784.6314.4c.c2.a86b- ea77884bb5b2\20170712_151351_toshibainc2792 \C\MPRwork\C\Polans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZiP Volume\NC Senate J-24.pts	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-24.r0	ю	35,840	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_boshibaInc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24.r1	r1	7,168	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\2IP Volume\NC Senate J-24.r1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC Senate J-24.rdp	rdp	3,691	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\2011/0712_151351_toshibalnc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24.rdp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/12/17 03:02:10 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J- 24bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-240bS.bak.zip\ZIP Volume\NC Senate J-24bb.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:24:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 24bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-240bc.DcB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24ct.bin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24ctbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J- 24ctDCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24ct.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-24vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\201370712_151351_toshibalnc2792 \C\MPRwork\NCPlars\NC Senate J-24 Backups\NC Senate J-24U05.bak.zip\ZIP Volume\NC Senate J-24vt.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 09:30:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 24vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\MPRwork\NCPlans\NC Senate J-24 Backups\NC Senate J-24005.bak.zip\ZIP Volume\NC Senate J-24vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 08:50:08 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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N C Senate CCN C PPI.xlsx	xlsx	17,377	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748:d314-4cc2=86b- ea77894bb5b2\20170712_151351_toshibalnc2792 \C\User\toshiba\Documents\Tom\NC 2017 Redistricting\NC Senate CCNC PPLx1sx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/12/2017 03:14:12 PM	07/12/2017 03:14:12 PM	07/12/2017 03:14:12 PM	07/08/2017 12:25:02 PM	07/12/2017 03:01:53 PM	07/12/2017 01:42:37 PM	04/17/2019	05/14/2019	05/14/2019	N/A
N C House CCN C PPI.xlsx	xlsx	21,676	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170720_100441_toshibaInc2836 \C\Us ers\toshiba\Documents\Tom\NC 2017 Redis tricting\NC House CCNC PPLxlsx	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	07/20/2017 10:05:01 AM	07/20/2017 10:05:01 AM	07/20/2017 10:05:01 AM	07/02/2017 02:00:17 PM	07/04/2017 11:15:38 AM	07/04/2017 10:54:01 AM	04/17/2019	05/14/2019	05/14/2019	N/A
NC House J- 25003.bak.zip	zip		C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.rip	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	08/07/2017 09:12:51 PM	08/07/2017 09:12:51 PM	08/07/2017 09:12:51 PM	N/A	N/A	N/A	04/28/2019	06/04/2019	N/A	N/A
NC House J-25.bdr	bdr	101,376	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Bac\tup\r\Pc3788-d314-4cc2=86b- ea77894bbbb2\20170807_211230_toshibalnc3011 \(\lambda\text{MPRwork\NCPIars\NC House J-25}\) Bac\tup\NC House J-2503.bak.zip\ZiP Volume\NC House J-25.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.bin	bin	43,560	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:38:08 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.bmp	bmp	89,334	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rjp\ZIP Volume\NC House J-25.0mp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/07/17 08:59:12 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.BX	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.8X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:59:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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NC House J-25.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_bshibalnc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.cdd	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.cdk	cdk	2,048	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.0bd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.DCB	DCB	1,775	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pta-278843184-4c.2=86b- ear7894bb5b2\20170807_211230_toshibalnc3011 C\MPRwork\C\Ptans\NC House J-25 Backups\NC\House J-25003.bak_zip\ZiIP Volume\NC House J-25.0CB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pta-27884314-4cc2=86b- ea77894bb5b2\20170807_211230_toshibainc3011 \(\C\MPRwork\)\CPIans\NC House 1-25 Backup\Toksup\Diskstrip\ZiIP Volume\NC House 1-25.03.bak_zip\ZiIP	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170807_211230_boshibainc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\2IP Volume\NC House J-25.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J-25.lok	lok	40,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.lok	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.map	map	273,462	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/07/17 08:59:12 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.0nk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.pts	pts	20,374,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\P\Ea3788.d3144cc2=86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPIans\NC House J-25 Backups\NC House J-25003.bak.rip\ZiP Volume\NC House J-25.0tb	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:16 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.r0	ю	76,800	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pric-3748.d314-4c.c2=86b- ea77894bb5b2\20170807_211230_toshibainc3011 \C\MPRword\NCPIans\NC House J-25 Backups\NC House J-2500.bak.rip\ZiP Volume\NC House J-25.00	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.r1	r1	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77884bb5b2\20170807_211230_toshibainc3011 \C\MPRwork\\CPIns\ \NC House J-25 Backups\ \NC House J-2500.bak.rip\ZiP Volume\NC House J-25.r1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.rdp	rdp	3,453	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170807_211230_toshibalrc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.ndp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/07/17 08:59:12 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest D ate Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
N C H ous e J- 25bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-2500.bak.rip\ZIP Volume\NC House J-25bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
N C H ous e J- 25bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25bb.DB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\Isoshiba\Backup\Pica3788.d3144cc2=86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \(\L\)\MPNwork\\\\)\CPlans\\\\\ House J25 Backups\\\\\\\ CHouse J2500.bak.zip\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J- 25ctDCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25ct.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25vt.bin	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:16 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
N C H ous e J- 25vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170807_211230_toshibalnc3011 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A- 1001.bak.zip	zip	9,341,546	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\r/Dtb3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \(\t\)\PMPwork\\NCPlans\\NC House A-1 Backups\\NC House A-1001.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	08/11/2017 08:40:11 AM	08/11/2017 08:40:11 AM	08/11/2017 08:40:11 AM	N/A	N/A	N/A	04/28/2019	06/04/2019	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House A-1.bdr	bdr	101,376	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlars\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.bin	bin	43,076	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.bmp	bmp	95,574	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/11/17 08:24:02 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.BX	BX	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\tashiba\Backup\Pica3788-d314-4c22-886b- ea77894bb5b2\20170811_083948_tbshibalnc 3039 \(\L\)\Pi\Pikwar\N\CHars\\AC House A-1 Backups\\NC House A-1001.bak.zip\ZIP \(\text{Volume\\NC House A-1.BX}\)	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC Hous e A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.dbd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House A-1.DCB	DCB	1,775	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4c.2+a86b- ea77894bb5b2\20170811_083948_bshibalnc3039 \C\MPRwork\NCPlars\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.0CB	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.dsc	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pta-3788.d314-4cc2=86b- ear7894bb5b2\20170811_083948_ebshibainc3039 (C\MPRwoot\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZiP Volume\NC House A-1.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.lok	lok	40,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pta-27884314-4cc2=86b- ea77894bb5b2\20170811_083948_toshibain:3039 (\C\MPRwork\)\CPIans\NC House A-1 Backup\ToHouse A-1001.bak.zip\ZiP Volume\NC House A-1.lok	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.map	map	244,842	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_boshibainc3039 \C\MPRwork\NCPlars\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/11/17 08:24:02 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC Hous e A-1 Backups\NC House A-1001.bak.zip\ZiP Volume\NC House A-1.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted)

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest D ate Provided to Blake Esselstyn	Earliest D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House A-1.pts	pts	18,524,560	C\Seagate Dashboard 2.0\TOSHIBA- PC\tsshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlars\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.r0	ю	76,800	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC Hous e A1 Backups\NC Hous e A1:00\tbak.zip\ZIP Volume\NC Hous e A1:00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.r1	n	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC Hous e A1 Backups\NC Hous e A1001.bak.zip\ZIP Volume\NC Hous e A1.r1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1.rdp	rdp	3,461	C\Seagate Dashboard 2.0\TOSHIBA- PC\sshiba\Backupi/Pbz3788-d314-4c22-386b- ea77894bb5b2\20170811_083948_t-bshibalnc.3039 \(\chi\)MPNwork\\NCPlans\\NC House A-1 Backups\\NC House A-1.01\tdot\)bak.zip\ZIP Volume\\NC House A-1.ntp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/11/17 08:24:02 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZIP Volume\NC House A-1bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A- 1bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2=86b- ea77894bb5b2\20170811_083948_tshibainc3039 \C\MPRwork\NCPians\NC House A:1 Backups\NC House A:1001.bak.zip\ZiP Volume\NC House A:1bb.CB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170811_083948_toshibalnc3039 \C\MPRwork\NCPlans\NC House A-1 Backups\NC House A-1001.bak.zip\ZiP Volume\NC House A-1ctbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher	Earliest Date Provided to Wesley
NC House A-1ct DCR	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- P(loshiba\Backup\fbc3748.d314-4cc2-a86b-ea77894b55b2\20170811_083948_toshibalnc3039 \C\MPRword\NCPlars\NC House A-1 Backups\NC House A-1001.bak.zip\ZiP Volume\NC House A-1ctDCB	ES0007C	External HDD	N A7JD6G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	Esselstyn 04/28/2019*	06/4/2019*	Cooper N/A	Pegden N/A
NC House A-1vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\\Thc3748-d314-4c.2+a86b- ea77894bb5b2\20170811_083948_toshibainc3039 \C\MPRwork\NCPlans\NC Hous e A-1 Backups\NC Hous e A-1001.bak.zip\ZiP Volume\NC Hous e A-1vtbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House A-1vt.DCB	DCB	51	C\Seagate Deshboard 2.0\TOSHIBA- PC\Iss hiba\\\ factup\\\ PC\S3788-d314-4c.2\=86b- ea77894bb5b2\\\ 20170811\\\ 683948\\\\ exhiba\\\ 63094\\\ Ea77894bb5b2\\\\ 20170811\\\\ 683948\\\\\ exhiba\\\\ 63094\\\\\ Backups\\\\ NCHouse A-1001.bak.zip\\\ ZIP Volume\\\\ NC House A-1vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/22/17 09:14:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
N C Senate J- 23005.bak.zip	zip	3,994,272	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\\\\ Backup\\\\\\ Tbc3748-d314-4c.2-a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	08/13/2017 05:27:42 PM	08/13/2017 05:27:42 PM	08/13/2017 05:27:42 PM	N/A	N/A	N/A	06/04/2019	06/04/2019	N/A	N/A
N C Senate J-23.bdr	bdr	46,080	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Thc3748-d314-4c.2-a86b- ea77884bb5b2\20170813_172720_boshibainc3047 \C\MPRwork\\CPlans\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZiP Volume\NC Senate J-23.0bf	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:46:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23.bin	bin	14,469	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170813_172720_toshibainc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.rip\ZIP Volume\NC Senate J-23.bin	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:47:54 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.bmp	bmp	92,694	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\\Thc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibainc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.bmp	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/13/17 05:26:36 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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N C Senate J-23.BX	BX	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2+a86b- ea77894bb5b2\20170813_172720_boshibaInc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.8X	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.rip\ZIP Volume\NC Senate J-23.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlaris\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pfac3788.d3144cc2=86b- ea77894bb5b2\20170813_172720_bshibalnc3047 \C\MPRwork\NCPlans\NC Senate J-23 Backup\CSenate J-23005.bak.zip\ZiP Volume\NC Senate J-23.0bb	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.DCB	DCB	2,081	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_bshibalnc3047 \C\MPRwork\NCPlans\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.0CB	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timezone not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23.ds c	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170813_172720_boshibaInc3047 \C\MPRwork\NCPlans\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.dsc	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.ds k	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC Senate J-23.grp	gm	2,048	C\Seagate Das hboard 2.0\TOSH IBA- PC\sos hiba\ Backup\ Tbc 3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_tos hibainc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.lok	lok	19,456	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibaInc3047 \C\MPRwork\NCPlans\NC Senate J23 Backups\NC Senate J23005.bak.rjp\ZIP Volume\NC Senate J23.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:46:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23.map	map	415,925	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlans\NC Senate J23 Backups\NC Senate J23005.bak.rip\ZIP Volume\NC Senate J23.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/13/17 05:26:36 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.pnk	pnk	4,096	C\Seagate Dashboard 2.0\TOSH IBA- PC\toshiba\Bac\tup\\PC\ToSH\BA- PC\toshiba\Bac\tup\\PC\ToSH\BA- ea77894bb5b2\20170813_172720_toshibalnc 3047 \\\DMP\work\NCPlans\\NC Senate J23 Bac\tups\\NC Senate J23005.bak.zip\ZIP Volume\\NC Senate J23.pnk	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:55:06 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.pts	pts	7,288,456	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibaInc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.0ts	ES0007C	External H DO	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:46:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J-23.r0	Ф	35,840	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:46:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23.r1	rı	7,168	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibaInc3047 \C\MPRwork\NCPlans\NC Senate J23 Backups\NC Senate J23005.bak.zip\ZIP Volume\NC Senate J23.r1	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:46:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



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NC Senate J-23.rdp	rdp	3,629	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23.dp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/13/17 05:26:36 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 23bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibaInc3047 \C\MPRwork\NCPlans\NC Senate J23 Backups\NC Senate J23005.bak.zip\ZIP Volume\NC Senate J23bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:46:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 23bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibaInc3047 \C\MPRwork\NCPlans\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-230bc.DcB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23ct.bin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pre-3788-d314-4cc2=86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.rip\ZiP Volume\NC Senate J-23ctbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 23ct DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\P\Ea3788.4314-4c.2=86b- ea77894bb5b2\20170813_172720_toshibainc3047 \C\MPRwork\NCPiars\NC Senate J-23 Backups\NC Senate J-23005.bak.trj\ZiP Volume\NC Senate J-23ct.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
NC Senate J-23vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170813_172720_toshibalnc3047 \C\MPRwork\NCPlars\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZIP Volume\NC Senate J-23vt.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/24/17 07:44:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A
N C Senate J- 23vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170813_172720_toshibaInc3047 \C\MPRwork\NCPlare\NC Senate J-23 Backups\NC Senate J-23005.bak.zip\ZiP Volume\NC Senate J-23vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/23/17 03:01:32 PM (timez one not determined)	N/A	N/A	N/A	N/A	06/4/2019*	06/4/2019*	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J- 25003.bak.zip	zip	10,084,432	C\Seagate Dashboard 2.0\TOSHIBA- PC\tsshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170814_071931_toshbalnc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	08/14/2017 07:19:52 AM	08/14/2017 07:19:53 AM	08/14/2017 07:19:52 AM	N/A	N/A	N/A	04/28/2019	06/04/2019	N/A	N/A
NC House J-25.bdr	bdr	101,376	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.bin	bin	43,740	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/10/17 10:03:20 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.bmp	bmp	87,894	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dc2-a86b- ea77894bb5b2\20170814_071931_toshibainc3051 \(\APRwork\NCPiars\NC House 125 Backups\NC House 125003.bak.rip\ZiP Volume\NC House 1250.bak.rip\ZiP	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/14/17 07:07:28 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.8X	вх	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backupi/Ptc.37848d314-4cc2=86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \(\lambda\text{MPRwork\NCPIaris\NC House \cdot 25}\) Backups\NC House \cdot 225.0X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:59:16 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\tsshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZiP Volume\NC House J-25.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J25 Backups\NC House J25003.bak.zip\ZIP Volume\NC House J-25.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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NC House J-25.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Trbc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_bshibalnc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.0bd	ES0007C	Extemal H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:44 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.DCB	DCB	1,822	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlare\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.0CB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/09/17 09:07:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_oshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.dsc	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Ptos3788.d3144cc2=86b- ea77894bb5b2\20170814_071931_bshibalnc3051 \C\MPRwork\N\CPlans\NC House \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.grp	gp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.lok	lok	40,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170814_071931_toshibaInc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.map	map	257,186	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20170814_071931_oshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/14/17 07:07:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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NC House J-25,pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\fbc3748-d314-4c2+a86b- ea77894bb5b2\20170814_071931_toshibainc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.pts	pts	20,374,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314.4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:16 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.r0	rO	76,800	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170814_071931_noshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.00	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.r1	rı	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\tashiba\Backup\Pica3788.d314.4c.2=86b- ea77894bb5b2\20170814_071931_bshibalnc.3051 \(\Lamba\)\Picama\KC House \(\mu\)S Backups\NC House \(\mu\)S Backups\NC House \(\mu\)S Volume\NC House \(\mu\)S IT Volume\NC House \(\mu\)S IT	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25.rdp	rdp	3,487	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25.dp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/14/17 07:07:30 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J- 25bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-2500.bak.rip\ZIP Volume\NC House J-25bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:22 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
N C House J- 25bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_noshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25bb.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted)

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NC House J-25ct.bin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlars\NC House J-25 Backups\NC House J-25003.bak.zip\ZIP Volume\NC House J-25ct.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/20/17 09:51:34 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J- 25ct DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J25 Backups\NC House J25003.bak.rip\ZIP Volume\NC House J25ctDCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-25vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\Isshiba\Backup\PCb237884314-4cc2=88b- ea77894bb5b2\20170814_071931_bsr.bibalmc3051 \(\Lamba\)\PCb2\PCb2\PCb2\PCb2\PCb2\PCb2\PCb2\PCb2	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	07/23/17 05:35:16 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J- 25vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_071931_toshibalnc3051 \C\MPRwork\NCPlans\NC House J-25 Backups\NC House J-25003.bak.rip\ZIP Volume\NC House J-25UCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/25/17 04:30:42 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J- 3003.bak.zip	zip	8,947,656	C\Seagate Dashboard 2.0\TOSHIBA PC\toshiba\Backup\f7bc3748-d314-4cc2+366b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NCHouse J-3003.bak.zip		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	08/14/2017 08:31:39 PM	08/14/2017 08:31:39 PM	08/14/2017 08:31:39 PM	N/A	N/A	N/A	04/28/2019	06/04/2019	N/A	N/A
NC House J-3.bdr	bdr	101,376	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc 2+966b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NC House J-3003.bak.zip\ZIP Volume\NC House J- 3.bdr	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:43:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.bin	bin	42,350	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.zip\ZIP Volume\NC House J- 3.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:44:40 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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NC House J-3.bmp	bmp	92,214	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_203114_bshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NCHouse J-3003.bak.rip\ZIP Volume\NC House J-3.bmp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/14/17 08:21:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.BX	вх	2,048	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.8X	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.cdd	cdd	1,024	C\Seagate Dashboard 2.0\TOSHIBA- PC\tashiba\Backup\Pto=37884314-4cc2=86b- ea77894bb5b2\20170814_203114_toshibalnc3065 (C\MP8work\NCPlans\NC House ±3 Backups\NC House ±3003.bak.zip\ZIP Volume\NC House ± 3.cdd	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.cdk	cdk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pto23788.d3144.cc2=86b- ea77894bb5b2\20170814_203114_toshibalnc3065 (\CMPRwork\\CPIrans\NC House J-3 Backups\NC House J-3003.bak.rip\2iP Volume\NC House J- 3.cdk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.dbd	dbd	4,589	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748:d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.zip\2IP Volume\NC House J- 3.dbd	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.DCB	DCB	1,775	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.0CB	ES0007C	External H DD	NA7J06GX	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.dsc	dsc	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.dsc	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



In The Common Cause Matter/Case No: 18-CVS-014001

July 1, 2019 | Easter n Tim e Zone (Unless Other wise Noted)

Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last M odified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earlies t D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J-3.dsk	dsk	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NCHouse J-3003.bak.rip\ZIP Volume\NC House J- 3.dsk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.grp	grp	2,048	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.grp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.lok	lok	40,960	C\Seagate Dashboard 2.0\TOSHIBA- PC\tashiba\Backup\ProE37884314-4cc2=86b- ea77894bb5b2\20170814_203114_bshibalnc3065 (\text{\text{NPRwork\NCPlars\NC Hose} + 23 Backups\NC House J-3003.bak.zip\ZIP Volume\NC House J- 3.lok	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:43:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.map	map	246,382	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\Pro23788.d314-4cc2=86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlarts\NC House J-3 Backups\NC House J-3003.bak.rip\2iP Volume\NC House J- 3.map	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/14/17 08:21:00 PM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
N C House J-3.pnk	pnk	6,144	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748.d314-4cc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.pnk	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.pts	pts	17,410,000	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.pts	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:43:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.r0	Ю	76,800	C\Seagate Dashboard 2.0\TOSHIBA- PC\ToShiba\Backup\f7bc3748-d314-4cc2-a86b- ear7894bb5b2\20170814_203114_toshibalnc3065 \C\MPNwork\NCPlars\NC House ±3 Backups\NC House ±3003.bak.zip\ZIP Volume\NC House ±3.r0		External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:43:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last Modified (Embedded)	Last Printed	Earliest D ate Provided to Blake Esselstyn	Earliest D ate Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J-3.r1	r1	14,336	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NC House J-3003.bak.rip\2IP Volume\NC House J-3.11	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:43:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3.rdp	rdp	3,428	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3.rdp	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	08/14/17 08:21:00 PM (timezone not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3bk.bin	bin	3,467,844	C\Seagate Dashboard 2.0\TOSHIBA- PC\Isoshiba\Backup\Pro23788-d314-4cc2=86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \(\lambda\)\Prost\NCPlans\NC House & J Backups\NC House & J 3003.bak.rip\ZiP Volume\NC House & 3bk.bin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:42:40 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3bk.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\77bc3748-d314-4cc2-a86b- ea77884b55b2\20170814_203114_toshibainc:3065 \(\C\MP\Rvoxk\\NCPlans\NC House J-3\Backups\NC House J-3003.bak.rip\2iP Volume\NC House J- 3bb.DOB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3ctbin	bin	1,200	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\P\Ea3788.d3144.cc2=86b- ea77884b55e\2.0170814_203114_toshibainc3065 (\text{CMPRwork\NCPlars\NC House }1-3 Backups\NC House 3-3003.bak.rip\2iPVolume\NC House }- 3ctbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3ct.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2+a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlars\NC House J-3 Backups\NC House J-3003.bak.rip\ZIP Volume\NC House J- 3ctDCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
NC House J-3vt.bin	bin	32,304	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-486b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NCHouse J-3003.bak.rip\ZIP Volume\NC House J- 3vtbin	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/18/17 06:43:22 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A



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Name	File Ext	Logical Size (Bytes)	Full Path	ESN	Туре	Serial Number	Comments	Created (File System)	Last Modified (File System)	Last Accessed (File System)	Created (Embedded)	Last M odified (Embedded)	Last Printed	Earliest Date Provided to Blake Esselstyn	Earliest Date Provided to Jowei Chen	Earliest Date Provided to Christopher Cooper	Earliest Date Provided to Wesley Pegden
NC House J-3vt.DCB	DCB	51	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-dcc2-a86b- ea77894bb5b2\20170814_203114_toshibalnc3065 \C\MPRwork\NCPlans\NC House J-3 Backups\NC House J-3003.bak.zip\ZIP Volume\NC House J- 3vt.DCB	ES0007C	External H DD	N A7J06G X	Silver and black in color, labeled "#3"	N/A	06/17/17 10:58:46 AM (timez one not determined)	N/A	N/A	N/A	N/A	04/28/2019*	06/4/2019*	N/A	N/A
N C.rdl	rdl	31.443	C\Seagate Das hboard 2.0\TOSHIBA- PC\ toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170908_163144_toshibainc3247 \C\MPRwork\NC.rdl	ES0007C	External H DD		Silver and black in color, labeled "#3"	09/08/2017 04:32:05 PM	09/08/2017 04:32:05 PM	09/08/2017 04:32:05 PM	N/A	N/A	N/A	04/27/2019	N/A	N/A	N/A
Johns on-Samps on- Wayne Dist.pdf	pdf	358,119	C\Seagate Das hboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170601_122652_toshibalnc2218 \C\Users\toshiba\Documents\Tom\NC 2017 Redistricting\Johnson-Sampson-Wayne Dist.pdf	ES0007C	External H DD		Silver and black in color, labeled "#3"	06/01/2017 12:27:15 PM	06/01/2017 12:27:15 PM	06/01/2017 12:27:15 PM	N/A	N/A	N/A	04/17/2019	05/22/2019	05/22/2019	N/A
NC Senate CCNC Sample Plan - June 2017.xls	xls	32,768	C\Seagate Dashboard 2.0\TOSHIBA- PC\toshiba\Backup\f7bc3748-d314-4cc2-a86b- ea77894bb5b2\20170708_130532_toshibalnc2751 \C\Uses\toshiba\Document\\Tom\NC2017 Redistricting\NC Senate CCNC Sample Plan - June 2017.xls	ES0007C	External H DD		Silver and black in color, labeled "#3"	07/08/2017 01:05:52 PM	07/08/2017 01:05:52 PM	07/08/2017 01:05:52 PM	N/A	7/8/2017 04:58:28 PM (timezone not determined)	N/A	04/17/2019	05/22/2019	05/22/2019	N/A

EXHIBIT 4

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STATE OF NORTH CAROLINA
                                      GENERAL COURT OF JUSTICE
                                                                                      APPEARANCES (continued)
                                       SUPERIOR COURT DIVISION
                                                                          2
                                                                                 Counsel for the Defendant-Intervenors:
                                            18 CVS 014001
                                                                          3
     COUNTY OF WAKE
                                                                                     Shanahan Law Group
                                                                                     BY: John E. Branch, III
     COMMON CAUSE, ET AL.,
                                                                          4
                                                                                     128 E. Hargett Street, Suite 300
                                                                                     Raleigh, North Carolina 27601
                                                                          5
                   Plaintiffs,
                                                                                     (919) 856-9494
                                                                                     jbranch@shanahanlawgroup.com
                                                                                 Counsel for the Deponent:
     DAVID LEWIS, IN HIS OFFICIAL
     CAPACITY AS SENIOR CHAIRMAN
                                                                                     Fiduciary Litigation Group
                                                                                     BY: Tom Sparks
     OF THE HOUSE SELECT COMMITTEE
     ON REDISTRICTING, ET AL.,
                                                                                     223 South West Street, Suite 900
                                                                          9
                                                                                     Raleigh, North Carolina 27603
                   Defendants.
                                                                                     (919) 229-0845
                                                                         10
                                                                                     tom@fidlitlawgroup.com
                                                                         11
                                                                        12
                     VIDEOTAPED DEPOSITION OF
                                                                                 Also Present: Trae Howerton, Videographer
                                                                        13
                        STEPHANIE HOFELLER
                                                                         14
                                                                        15
                              9:38 A.M.
                                                                        16
                                                                                 Reported By: Discovery Court Reporters and Legal
                       FRIDAY, MAY 17, 2019
                                                                                            Videographers
                                                                         17
                                                                                          BY: Lisa A. Wheeler, RPR, CRR
                                                                                          4208 Six Forks Road, Suite 1000
                           POYNER SPRUILL
                                                                         18
                                                                                          Raleigh, North Carolina 27609
                                                                                          (919) 649-9998
               301 FAYETTEVILLE STREET, SUITE 1900
                                                                         19
                                                                                               --oOo--
                      RALEIGH, NORTH CAROLINA
                                                                        20
                                                                         21
                                                                         22
                                                                        2.3
     BY: LISA A. WHEELER, RPR, CRR
                                                                         24
                                                                         25
                                                                                                                                         3
                                                                1
                                                                          1
              APPEARANCES
                                                                                            INDEX
      Counsel for the Plaintiffs:
                                                                                                            PAGE
          Arnold & Porter Kaye Scholer
                                                                          2
         BY: R. Stanton Jones
601 Massachusetts Avenue, NW
                                                                                 EXAMINATION BY MR. JONES
         Washington, D.C. 20001-3743 (202) 942-5000
                                                                                 EXAMINATION BY MS. SCULLY
                                                                                                                                 44
          stanton.jones@arnoldporter.com
                                                                                 EXAMINATION BY MR. BRANCH
                                                                                                                                 195
            -and-
         Poyner Spruill
BY: Edwin M. Speas, Jr.
                                                                                          EXHIBITS
                                                                                 HOFELLER
         301 Fayetteville Street, Suite 1900
Raleigh, NC 27601
                                                                                 NUMBER
                                                                                                 DESCRIPTION
                                                                                                                           PAGE
          (919) 783-6400
      espeas@poynerspruill.com
Counsel for the Defendants State Board of Elections
                                                                                 EXHIBIT 1 Subpoena, Stephanie Hofeller
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                                                                                        Lizon
      and Ethics Enforcement and its members:
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                                                                                 EXHIBIT 2 Color Photocopied Photographs
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          North Carolina Department of Justice
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          Special Litigation
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         BY: Paul M. Cox
                                                                                        Hofeller
1.4
          114 West Edenton Street
                                                                        14
         Raleigh, North Carolina 27603 (919) 716-6900
                                                                                 EXHIBIT 5 Certificate of Service
                                                                                                                          174
                                                                        15
                                                                                        (Incompetent Proceeding), with
         pcox@ncdoj.gov
                                                                                        Attachments
16
                                                                        16
      Counsel for the Legislative Defendants:
                                                                                 EXHIBIT 6 Petition for Adjudication of
                                                                        17
         BakerHostetler
BY: Elizabeth A. Scully
                                                                                        Incompetence and Application
18
                                                                                         for Appointment of Guardian or
          Washington Square, Suite 1100
                                                                        18
                                                                                        Limited Guardian
19
         1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5403
                                                                        19
                                                                                 EXHIBIT 7 Interim Report of the Guardian 180
                                                                                        Ad Litem
          (202) 861-1500
                                                                        20
          escully@bakerlaw.com
                                                                                 EXHIBIT 8 Order on Motion for
                                                                                                                          184
            -and-
                                                                        21
                                                                                        Appointment of Interim
22
                                                                                        Guardian
          Ogletree, Deakins, Nash, Smoak & Stewart
                                                                        22
23
         BY: Thomas A. Farr
4208 Six Forks Road, Suite 1100
                                                                                 EXHIBIT 9 Report of the Guardian Ad
                                                                                                                             188
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24
          Raleigh, North Carolina 27609
                                                                                        Litem
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          (919) 787-9700
                                                                                 EXHIBIT 10 Motion to Dismiss
                                                                                                                          192
                                                                        25
          thomas.farr@ogletree.com
                                                                2
                                                                                                                                         4
```

1 I first saw them I knew that they were all containing the storage devices in --2 2 belonging to my father and mother. I wasn't A. Yes. 3 really sure which of them, if any, would have 3 -- response to the subpoena? 4 4 anything involving his work in North Carolina A. Yes, that does appear to be the box that I 5 5 or elsewhere. sent them in, exactly. 6 6 Q. Got it. Let -- let's focus on the time when Q. Great. And -- and on the first page, if you you received the subpoena and you -look at that top picture, it's addressed to 8 8 R. Stanton Jones at Arnold & Porter, LLP, at A. Oh, at that point, yes, I did know that it 9 9 contained -- that all of those devices had at an address in Washington, D.C. Is that the 1.0 1.0 least -- at least one or two -- at least one address where you sent the package? 11 11 or two files that would -- that were labeled A. Yes. 12 12 in a -- in a way that it was obvious that Q. Great. And if you flap -- flip to the second 13 13 they pertained to my father's work page, do you recognize those as additional 14 14 redistricting in North Carolina. photographs of the outside of the package 15 15 Q. And did you send the storage devices -- those that you sent with the storage devices in 16 16 storage devices that we've been discussing to response to the subpoena? 17 17 the plaintiffs' lawyers in response to the A. Yes. 1.8 1.8 subpoena? Q. If you flip to the third page, if you'll 19 19 A. Yes, I did. focus on the bottom image, do you recognize 20 20 Q. Okay. Do you recall roughly when you sent that as a photograph of the -- the interior 21 21 them? of the box that you sent to the plaintiffs' 22 22 A. I remember it was about a month after I lawyers with the storage devices in response 23 23 received the subpoena. Originally, I -- my to the subpoena? 24 intention was to -- to bring them physically 24 A. Yes. 25 25 to Raleigh, but I got delayed and it was then Q. Okay. If you flip to Page 4, do you 13 15 1 1 decided that it would be best for preserving recognize the image there as being one of the 2 2 the integrity of -- of the evidence that it thumb drives that you put in the -- in the 3 3 would be going straight to a third party. package and sent to the plaintiffs' lawyers 4 Q. Great. And I'll represent to you that I in response to the subpoena? 5 A. Yes. received the materials you sent on March 6 6 13th. Does that sound about right in terms Q. Okay. Do you remember offhand how many 7 of -external hard drives there were and how many A. That does. 8 thumb drives there were? 9 Q. -- the time? A. I know there were four external hard drives. 10 10 A. That does, actually. Where -- where I was in I honestly don't remember exactly how many --11 11 Kentucky, I couldn't even find a FedEx you know, there were -- I -- I -- there were 12 office. I had to go -- I had to go down the a couple of empty thumb drives in my -- in 13 13 highway. I was surprised. my, you know, possession so I -- I was making 14 MR. JONES: Can we mark this? 14 sure that I wasn't, you know, sending 15 (HOFELLER EXHIBIT 2 was marked for 15 anything wrong. These were all the ones 16 16 identification.) that -- that I got from my father, but I 17 17 BY MR. JONES: don't remember exactly -- from his room, but 18 18 Q. I'm showing you what's been marked as Exhibit I don't remember exactly how many there were. 19 19 2. On the -- you can take a moment to -- to Like eight or nine, maybe, was it, or seven? 20 20 flip through. That's fine. Go ahead. Q. So if I -- I'll represent to you that inside 21 21 A. That's... the package that we received that we're 22 22 Q. So my first question is, if you look at the looking at photographs of there were -- there 23 very first page, do you -- do you recognize 23 were four external hard drives, as you said, 24 24 the -- the photograph -- the photographs and also 18 thumb drives. 25 25 there as images of the package that you sent A. 18, yeah. Okay.

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Q. Does that seem right? A. No. 2 2 Q. Okay. A. Yeah. 3 Q. Great. 3 A. No. 4 4 A. Yeah. Q. Did you -- did you delete any files that were 5 MR. FARR: Excuse me. I don't mean to on any of the storage devices? 6 interrupt and I'm new to the game, but what A. No. I was careful not to add or take were the stipulations about objections in anything away. 8 8 this case? Are all objections reserved Q. Did you modify any of the files in any way? 9 9 except for privilege and form of the 1.0 10 O. Okay. You didn't make any changes at all to question? 11 11 MR. SPEAS: Yeah. That's the way we've any of the files --12 12 been operating so far. A. None. 13 13 MR. FARR: Okay. Thank you. -- on the storage devices? You have to --14 14 BY MR. JONES: A. I'm sorry. 15 15 Q. Yeah. You -- you -- I'll just start over Q. I'm not going to go through every single 16 16 photograph here. There's about 50 pages of again so we have a clean record. 17 photographs. But would you just take a 17 1.8 18 moment and flip through them and if you could Q. So you -- you did not make any changes to any 19 19 just tell me, do you recognize these as of the files or data on these storage devices 20 20 photographs of the storage devices, both the before sending them to the plaintiffs' 21 21 external hard drives and the thumb drives, lawyers in response to the subpoena? 22 22 that you sent to the plaintiffs' lawyers in A. That's correct. I did not. 23 23 response to the subpoena? Do you recognize Q. Okay. You can put that to the side. So now 24 24 them that way? I have some -- some pretty basic questions 25 25 A. So far, yes. It's a rainbow of colors. I about where you got the devices from. Is 17 19 1 remember that, too. Yes, those look -- all 1 that okay? 2 2 of them I -- I remember. A. Yes. 3 3 Q. Great. So having flipped through all of the Q. Okay. Great. So, first, can you please tell photographs here, you recognize all of these me just the month and the year when you got 5 images ---5 these devices. 6 6 A. Yes. A. October 2018. 7 O. -- as being --Q. Okay. And next could you please tell me just 8 8 A. I -- I don't see anything that I didn't have where specifically did you get the devices 9 my hands on and put in that package. from, just the physical location for 10 10 Q. Okay. Excellent. Would you flip to Page 23. starters? 11 11 Do you see the image there of a storage A. The apartment where my recently deceased 12 12 device with the label, NC Data? father lived with my mother at Springmoor. 13 13 A. Yes, I do. Q. Okay. And what is Springmoor? 14 14 Q. Do you recall that as one of the images that A. Springmoor is a retirement community. 15 15 you sent? Q. Okay. And your father and mother had been 16 16 A. I do. living in this apartment in Springmoor before 17 17 Q. Or, sorry, as one of the -his -- his death; is that right? 18 A. One of the --18 A. That's correct. 19 19 Q. -- storage devices? Q. Okay. And at the time you got these files 20 20 A. -- storage devices, yes. from the Springmoor apartment in October 21 21 Q. Okay. Before sending all of these storage 2018, was your mother living there at the 22 22 devices to the plaintiffs' lawyers in time? 2.3 2.3 response to the subpoena you received, did A. Yes, she was. 24 24 you alter any of the -- the contents of the Okay. Before getting the devices from the 25 25 storage devices? apartment in Springmoor, did you ask your

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mother if it was okay to take them? flag that draped his coffin and a picture of 2 2 A. Yes, I did. my grandparents and inside the box was 3 Q. Okay. And did you ask her that in October 3 everything exactly as I had left it. So I 4 2018? took that to mean that I was supposed to look 5 A. Yes, that -- that same day. for other things and so I started -- I -- I Q. Okay. Did your mother object to you taking thought there was a chance that there might the devices? have been something specifically for me as in 8 8 a note or a message of some sort that I would A. No, she didn't. 9 9 Q. Okay. Did -- did -- did she say it was okay find. 1.0 10 Q. Okay. And -- and was that when you found the to take the devices? 11 11 A. Yes. She encouraged me to. storage devices that we've been discussing? 12 12 Q. Okay. So now I'm -- I'm going to back and --A. It was in that same incident, yes, that --13 13 and ask a few more questions just to fill in that same evening. 14 14 some additional details about when and where Q. Okay. And where in the apartment were the 15 15 you got the devices, okay? storage devices? 16 16 A. Yes. A. They were on a shelf in my father's room. 17 Q. Okay. When did you first learn that your 17 Q. Okay. Were they just sitting out open on the 1.8 18 father had died? 19 19 A. September 30th, 2018. A. Yes, they were. There was a bag -- a clear 20 20 Q. Okay. And when you -- when you learned of plastic bag with the thumb drives and 21 21 his death -- and -- and I'll say for the ad-sticks and then there was just a stack 22 22 record, I'm -- I'm sorry for your -- for the of -- it wasn't the only thing on the shelf. 23 23 loss He had also some of those pullout boxes that 24 When you learned of your father's death, 24 kind of are like drawers that had some of his 25 25 did you contact your mother? papers in there, and the -- the hard drives 21 23 1 just were there in the corner of -- it was A. Yes. 2 2 Q. Did -- did you go to visit her then? a -- one of those kind of box-style book 3 3 shelves. It wasn't just a straight shelf. Q. Okay. And -- and did you go to visit her in Some of them had those removable drawers in 5 Raleigh at the Springmoor apartment in 5 them and others were just open. 6 6 October 2018? Q. Okay. But all of the four external hard 7 A. Yes, I did. drives and the 18 thumb drives that you sent 8 8 to the plaintiffs' lawyers in response to the Q. And at that time when you were there at the 9 9 subpoena were on this bookshelf in your Springmoor apartment in Raleigh in October 10 10 father's room in the apartment at Springmoor? 2018 visiting your mother, did -- did you 11 11 A. That's right. go -- did you and your mother go through some 12 12 Q. Okay. And -- and they weren't in any sort of of your father's things? 13 13 safe or lockbox; they were -- they were just A. There wasn't much to go through. Most of 14 14 what there even was in there was what was out? 15 15 A. That's right. left out, really. There were a couple of 16 Q. Okay. Had you seen any of these storage 16 desk drawers. I -- there were a couple of 17 17 devices before? keepsakes of mine that I was looking for, but 18 A. Inasmuch as I could say later having looked 18 one of the main reasons that I was looking 19 at them and when they were done, then I was 19 was because when I walked in the door to his 20 able to confirm that, yes, there were a 20 room, immediately I saw a keepsake of mine 21 couple of those that I recognized from when I 21 from my childhood, a -- a jewelry box that I 22 was either staying with on short trips or 22 had and that I had left in -- in my parents' 2.3 living with my parents in their house in 23 care. And inside of it -- it was displayed 24 Alexandria, Virginia. 24 prominently right under the flag that he was 25 Q. Okay. And -- and could you just tell me 25 buried with and -- well, not with but the

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briefly how -- how did you recognize -- what
 was the connection that you made to these
 storage devices?

- A. The -- one of them had that blue rubber
 lining around it that I recognized
 immediately, and I know that there could be
 more than one and I also know it's a
 removable cover, so -- but then it just -- it
 appeared to be really what I -- what I was
 looking for, really.
 - Q. And after getting the storage devices, when did you ask your mother if it was okay to take them?

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14 A. When I noticed them, it was in a survey and 15 I'd first come in and -- and I was a little 16 overwhelmed with emotion when I first walked 17 into my father's room. Excuse me. So, you 1.8 know, I was sort of looking around. There 19 was heirloom furniture all around the 20 apartment and other -- other things that 21 belonged to my extended family, my, you know, 22 great-grandparents and such, so I -- I sort 23 of took the whole thing in, had another sort 24 of, you know, casual, brief conversation with 25 my mother about how things had unfolded, and

A. Dalton Lamar Oldham. That was my father's business partner, attorney. Together he and my father were Geographic Strategies.

Q. Okay. And -- and you understood your mother to be telling you that Mr. Oldham had come to the apartment in Springmoor after your father's death and taken -- is -- was it a laptop and a desktop computer?

- 9 A. Yes. And, again, it was a -- it wasn't clear

 10 exactly how much had -- he had taken as my

 11 father was dying that he had -- that my

 12 father had said to him, take this. I don't

 13 think my mother really remembers exactly what

 14 was there before and -- shortly before and

 15 then shortly after his -- his death.
 - Q. Okay. Great. Thank you. Okay. So now I have some questions just about what you did after getting the devices, okay?
 - A. Uh-huh.
- Q. Great. So after getting the devices from your parents' apartment in Springmoor, did you consistently hold on to them until you sent them to the plaintiffs' lawyers in response to the subpoena?
 - A. Yes.

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1 it was later when I was back in there and I 2 also said, this is -- I think he wanted me to 3 have this jewelry box. And so I said, I'm going to take that. Is that okay? And she 5 said, of course. And I said, I'm going to 6 take these, too. I think that I'll find the 7 pictures and some of the things that I'm 8 looking for on -- on these. Can I take 9 these? And she said, absolutely. She -- she 10 said, I don't even know how to use them. 11

- Q. Okay. Do you know if anyone else other than you had been to your parents' apartment at Springmoor to -- to look through or -- or potentially take any of your father's things before you had gotten there?
- A. That was my understanding because before I took any of those things, I specifically asked my mother -- I said, he had a work laptop still, yes? She said, yes. And she said, and a work computer. And I said, okay, did Dale come and take that stuff? She said, yes, Dale took the laptop, Dale took the work computer, and Dale took everything that he wanted.
- Q. And -- and who is Dale?

- Q. Okay. You didn't give them to anyone else for any period of time in there?
- ³ A. No.
 - Q. Okay.
- A. I'm sorry I laugh. It's just I was so
 thrilled to have some of this precious data
 of mine that I would not let anyone else near
 them.
 - Q. Great. And did -- did you stay in Raleigh then or did -- did you eventually go back to Kentucky?
 - A. I stayed in Raleigh for a few days that time and then I went back to Kentucky.
 - Q. Okay. And -- and did you take the storage devices with you when you went back to Kentucky?
 - A. Yes, I did.
 - Q. Okay. And were you then able to look at any of the -- the actual contents of the devices?
- A. I looked at the content of some of them that first night in my hotel room in Raleigh.
 - Q. Oh, okay. And did -- am I -- did you -- you connected them to a computer to be able to look at them?
 - A. Yes. Yes. I had a -- I had -- I had a

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STEPHANIE HOFELLER May 17, 2019 1 laptop with me that I use. I had found a -storage devices to the plaintiffs' lawyers in 2 2 an appropriate cable in one -- one of my this case in response to the subpoena, did 3 3 you change or manipulate any of the files on father's drawers I found a whole box of 4 4 cables and one of them was the proper adapter the storage devices that related to your 5 5 for that -- for those external hard drives. father's work? 6 6 Q. Okay. And -- and when you -- when you did A. No, I did not. connect some of the -- the storage devices to Q. Okay. Am I right that at some point after 8 8 the computer to be able to look at the getting the storage devices, you contacted 9 9 contents, did -- did you see any personal someone at the organization Common Cause; is 1.0 1.0 that right? information in there like photographs or 11 11 other personal information? A. Yes. 12 12 A. Yes. I found specifically really what I was Q. Okay. And do -- do you remember the specific 13 13 looking for, which were files of mine that I person who you first contacted at Common 14 14 had -- essentially I backed them up onto my Cause? 15 15 parents' computer when I was visiting them A. I first reached out to Bob Phillips, the 16 16 last and, actually, many times before that as director, and it was in hopes that he might 17 17 I felt that it was a really good way to be able -- he and Common Cause might be able 1.8 1.8 assure that they would be preserved because I to give me a referral to find an attorney for 19 19 knew that my father was not -- you know, I my mother. 20 20 knew he had a tendency to -- to be, you know, Q. Okay. And in the course of those discussions 21 21 with Mr. Phillips, did you -- did you discuss careful about those things -- those kinds of 22 22 things. And, yes, I found a great many these storage devices? 23 23 photographs that I was looking for of my A. Not in that conversation, no. 24 24 children and other documents that were Q. Okay. Did Mr. Phillips connect you to 25 25 related to my life, matters that concerned me someone else at Common Cause? 29 31 1 1 and my children, and it was -- it was -- I 2 2 felt, well, I buried this treasure and that I Q. Okay. And who was that? 3 3 was getting to dig it up. I was really very A. Jane Pinsky. 4 4 excited to see those pictures again, Q. Did you then have discussions with 5 pictures -- also some pictures of my -- of my 5 Ms. Pinsky? 6 6 great-grandparents and things like that that A. Yes, I did. 7 7 I had hoped that I would find copies of as Q. Okay. And in the course of those discussions 8 well. 8 with Ms. Pinsky did you mention the storage 9 9 Q. Got it. So -- so some of these photographs devices that we've been discussing? 10 10

- and other personal materials were things that you yourself had stored on your parents' computer years earlier when your father was still alive; is that correct?
- A. That's correct.
- 15 Q. Okay. And -- and you -- you saw some of 16 those materials on these storage devices?
 - A. Yes.

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- Q. Okay. Other than personal files like photographs, letters, et cetera, did you see data or files on the storage devices re--that related to your father's work creating maps?
- 23 A. Yes, I did.
 - Q. Okay. And I think I asked this before, but I'll just ask it again. Before sending the

A. Yes, I did.

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- Q. Okay. And did -- did you offer to -- to provide the devices to Ms. Pinsky and Common Cause?
 - A. You know, when I first brought it up it was really just kind of an anecdotal reference to a interview with David Daley that I had recently read. At the end of this interview his last statement, and it was really the -the gist of it was about the fact that the rejected districts had been sent for redraw back to my father and now he was deceased and the comment that David Daley made was, I wonder -- I -- I think that somewhere out there on a hard drive there's a gift for the state legislators.

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father, documents that I might have otherwise possession of if it weren't for first a house fire that destroyed everything I owned in 2013 and also a divorce in which everything else that I had pretty much was, you know, left in the hands of -- of someone I didn't really feel like communicating with.

Q. You didn't consider the records relating to your father's work -- redistricting work to

- be your data, correct?

 A. The hard drives were given to me by my -- by my mother, so I would say that I considered everything on those hard drives that my father had left in his room that my mother gave to me unconditionally -- I considered all of it mine at that point when it was given to me by my deceased father's wife.
- Q. Even if the material related to your father's business with another business partner, you considered it your material, your --
- A. I considered the stor--MR. JONES: Ob--- objection. It's
 been asked and answered.
 MR. SPARKS: Go ahead and answer.
- A. I considered everything that my mother gave

before you gave them to Arnold & Porter.

- A. That would be difficult. Do you mean -- you know, I -- for example, I printed out copies of pictures of me and my children. Do you consider me putting those on my wall time reviewing the materials?
- Q. No. Time spent looking through the electronic files on a computer.
- A. That would be very difficult to determine. I mean, I don't know. How much time do you spend looking at pictures of your children?
- Q. Putting aside the amount -- well --
- A. I didn't spend a lot of time looking at my father's work files if that's what you're driving at. No, I didn't.
 - Q. So let's focus on that point. Putting aside the time you spent looking through files that related to you or photographs related to you or issues that were personal to you, putting all of those personal materials aside, how much time would you estimate you spent reviewing files that related to your father, his redistricting work, his business records, any expert documents he may have created, those materials?

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me that had previously belonged to my father who was now dead mine, yes.

- Q. Did your father have a will?
- A. Yes.

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- Q. Do you know if in the will there was any provision with respect to his personal property and who the personal property would be left to?
 - A. My understanding, not being an estate attorney, is my mother was the beneficiary.
 - Q. Have you seen a copy of the will?
- 12 A. Yes.
 - Q. Did you -- did your father make any direct gifts to you in the will?
 - A. I don't believe he did, no.
 - Q. Did your father in the will address anything related to his -- his business records, business files?
- A. I don't recall.
 - Q. Prior to turning over the electronic files to Arnold & Porter you said you spent two to three hours immediately before turning them over to Arnold & Porter. I would like to understand how much time in total you spent reviewing the materials at any point in time

1 A. Well, it's also hard because there were 2 certain situations in some of those backups 3 where there were folders that contained a multitude of mixed documents. In certain 5 cases I would open something thinking that it 6 was one thing and find that it was something different. So there were -- there were both 8 situations where -- for example, news 9 articles that he had in a folder of -- I 10 believe there were a lot of -- of news 11 articles that I actually read through that he 12 had saved, maybe articles even that mentioned 13 him specifically and, of course, I was 14 interested in preserving that. Of course, I 15 wanted, you know, a scrapbook of my father 16 and so -- also, there were -- just looking at 17 the file extensions and having a basic 18 familiarity with my father's work, I knew a 19 lot of them would be file extensions that I 20 wouldn't even be able to open considering 21 that I didn't have the right proprietary 22 software. So -- wow. I really -- it would 2.3 be very difficult for me to give an estimate. 24 I don't really understand. Maybe -- I mean, 25 not -- not to be snide, but what -- what --

21 (Pages 81 to 84)

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1 what -- what exactly are we driving at? How A. The specifically work-related stuff, the 2 2 many hours I spent looking specifically at stuff that would be -- you know, the stuff 3 just the files in folders that contained 3 that he wanted, the stuff that he felt was 4 4 things like, again, letters to me, old trust 5 documents, letters that my grandfather sent Q. And you said he took two computers from your 6 father's office; is that correct? to my father, and interesting stories and 7 maybe a few photographs, some of them of my A. That's what I'm told. 8 8 father and my relatives, some of them my Q. You've also testified today that these hard 9 9 father and my children, some of them me and drives and the thumb drives, you understood 1.0 10 them to be backups, correct? my children? It would be -- it would be very 11 11 difficult to give you an estimate of how many That's correct. 12 12 of those minutes were spent looking at files Q. Was it your understanding that your father's 13 13 work-related files that they had on the that were specifically related to his work, 14 14 much less specifically related to which -- I computer that Dale Oldham had taken or 15 15 mean, I wouldn't be able to distinguish the computers that he'd taken were also backed up 16 16 legislative maps from the congressional on any of these hard drives or thumb drives 17 17 district maps. that you received? 1.8 1.8 Q. Is it fair to say that the majority of the MR. JONES: Ob- -- objection, calls for 19 19 time you spent reviewing the files was spent speculation. 20 20 reviewing materials related personal to you A. Honestly, if I speculated I would speculate 21 21 and that, in comparison, you spent very that any backups that had been done 22 22 little time reviewing files related -specifically of the work computers would be 23 23 A. Very little -already taken by him. I did not -- I did 24 24 Q. -- to your father's -not -- actually, the opposite. I assumed 2.5 25 A. -- is kind of a -that these were personal backups because they 85 87 1 1 MR. SPARKS: Hold, please. were there with -- with those things. And, 2 2 BY MS. SCULLY: again, it's -- it's always been a little 3 Q. -- work? Yeah. It's a -bit -- those lines have always been a bit A. I'm sorry. blurry in the household. Q. It's -- my question, is it fair to say that? 5 MR. BRANCH: All right. I'm --6 MR. JONES: Objection, asked and BY MS. SCULLY: 7 answered. O. Do you --8 8 MR. SPARKS: Please answer. MR. BRANCH: -- going to remind 9 9 everybody here that under the North Carolina A. Yes. 10 10 rules, counsel's only supposed to object to MR. JONES: We've been going about 11 11 the form of the question. There are no an -- about an hour. 12 12 MS. SCULLY: We can take a break. speaking objections allowed in North 13 13 Carolina. This is multiple times now that MR. JONES: Can we take a break? 14 14 THE WITNESS: This time I am going to the witness has changed her answer in 15 15 response to a speaking objection by smoke a cigarette. 16 16 Mr. Jones. Now, unless I'm mistaken, THE VIDEOGRAPHER: Going off the 17 17 Mr. Jones, you do not represent the witness. record. The time is 11:39 a.m. 18 18 Under the rules you can object to the form of (Whereupon, there was a recess in the 19 the question and that's it. You can't 19 proceedings from 11:39 a.m. to 11:59 a.m.) 20 20 THE VIDEOGRAPHER: Going back on the instruct her not to answer and she should not 21 be changing her testimony in response to 21 record. The time is 11:59 a.m. 22 something that you articulate for her. 22 BY MR. SPARKS: 23 BY MS. SCULLY: 23 Q. Ms. Hofeller, you testified earlier today 24 Ms. Hofeller, do you, in fact, know one way 24 that Dale got all the good stuff. What did 25 or another if the information that was 25 you mean by that? 86 88

EXHIBIT 5

From: Strach, Phillip J. <phil.strach@ogletree.com>

Sent: Thursday, May 2, 2019 2:45 PM

To: Jones, Stanton; Jacobson, Daniel; McKnight, Michael D.; Raile, Richard; Braden, E. Mark;

Stanley, Trevor M.; Riggins, Alyssa; Brennan, Stephanie; Majmundar, Amar; Cox, Paul; joshua.lawson@ncsbe.gov; John Branch; NPencook@shanahanmcdougal.com; Christine

McCaffrey

Cc: Eddie Speas; Mackie, Caroline P.; melias@perkinscoie.com;

zzz.External.ABranch@perkinscoie.com; zzz.External.AKhanna@perkinscoie.com; Gersch,

David P.; Theodore, Elisabeth

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

External E-mail

Stanton:

Please ship the forensic images to Setec Investigations at the address below. We would appreciate the courtesy of sending us a tracking number so that we may provide our team with notice of arrival. Additionally, please confirm that you will comply with standard e-discovery protocol and do the following:

- 1. Include with the drive shipment chain of custody forms, including chain of custody forms for each of the media drives received from Ms. Hofeller/Lizon;
- 2. Provide us with descriptions, names and photos of all original media drives;
- 3. Provide us with the excel version of the PDF "index" previously produced to us with columns indicating the file size, and file extension. We also request that you clarify whether the document path shown on the current PDF index reflect the original document path, or the original document path combined with the document path in the vendor's system.

Setec Investigations

Attention: Todd Stefan 145 S Fairfax Ave., Suite 200 Los Angeles, CA 90036 323-939-5598

Thanks.

Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Strach, Phillip J.

Sent: Thursday, May 02, 2019 1:37 PM

To: 'Jones, Stanton' <Stanton.Jones@arnoldporter.com>; Jacobson, Daniel <Daniel.Jacobson@arnoldporter.com>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark <MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar <amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch

<CMcCaffrey@shanahanlawgroup.com>

Cc: Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>; melias@perkinscoie.com; ABranch@perkinscoie.com; AKhanna@perkinscoie.com; Gersch, David P.

<David.Gersch@arnoldporter.com>; Theodore, Elisabeth <Elisabeth.Theodore@arnoldporter.com>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Stanton: we would like you to ship the materials for Legislative Defendants directly to our vendor. I will provide the shipping information as soon as possible this afternoon. Thanks. Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Jones, Stanton <Stanton.Jones@arnoldporter.com>

Sent: Wednesday, May 01, 2019 6:35 PM

To: Jacobson, Daniel <<u>Daniel.Jacobson@arnoldporter.com</u>>; Strach, Phillip J. <<u>Phil.Strach@ogletreedeakins.com</u>>; McKnight, Michael D. <<u>Michael.McKnight@ogletreedeakins.com</u>>; Raile, Richard <<u>rraile@bakerlaw.com</u>>; Braden, E.

Mark < MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>; Riggins, Alyssa

< <u>Alyssa.Riggins@ogletreedeakins.com</u>>; Brennan, Stephanie < <u>Sbrennan@ncdoj.gov</u>>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch

<JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)

<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Cc: Eddie Speas <<u>espeas@poynerspruill.com</u>>; Mackie, Caroline P. <<u>CMackie@poynerspruill.com</u>>; melias@perkinscoie.com; <u>AKhanna@perkinscoie.com</u>; <u>Gersch</u>, David P.

<<u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Also per Stroz Friedberg, and in furtherance of our compliance with the Court's order, it takes a long time to copy 2 terabytes of data, three times over (one copy per defendant group). So if any defendant group wants copies made and sent to you this week, Stroz needs to start the copying at 9am sharp tomorrow (Thursday). Alternatively, as I noted below, arrangements can be made for you or someone on your behalf to visit Stroz's office in DC to inspect and copy the materials onsite this week. Please let us know promptly how you wish to proceed.

Regards, Stanton

From: Jones, Stanton

Sent: Wednesday, May 1, 2019 5:39 PM

To: Jacobson, Daniel < <u>Daniel.Jacobson@arnoldporter.com</u>>; Strach, Phillip J. < <u>phil.strach@ogletree.com</u>>; McKnight, Michael D. < <u>Michael.McKnight@ogletreedeakins.com</u>>; Raile, Richard < <u>rraile@bakerlaw.com</u>>; Braden, E. Mark

< MBraden@bakerlaw.com >; Stanley, Trevor M. < tstanley@bakerlaw.com >; Riggins, Alyssa

<a href="mailto:
https://doi.org/10.1016/j.gov
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youn

<amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch

<<u>JBranch@shanahanlawgroup.com</u>>; Denton Worrell (<u>DWorrell@shanahanmcdougal.com</u>)

<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

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<<u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Per Stroz Friedberg, the cost to copy and send the materials is \$2,500 per copy + shipping cost (minimal FedEx fees). Hence, if all three sets of defendants each want a copy made and sent to them, the total cost would be \$7,500, split three ways, plus the FedEx fees. Please let us know how you want to proceed.

Regards, Stanton

From: Jacobson, Daniel < Daniel.Jacobson@arnoldporter.com>

Sent: Wednesday, May 1, 2019 5:34 PM

To: Strach, Phillip J. <phil.strach@ogletree.com>; Jones, Stanton <<u>Stanton.Jones@arnoldporter.com</u>>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark

< MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>; Riggins, Alyssa

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<a href="mailto:smailto:amailto:smailt

<<u>JBranch@shanahanlawgroup.com</u>>; Denton Worrell (<u>DWorrell@shanahanmcdougal.com</u>)

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Cc: Eddie Speas cs: Eddie Speas essay: melias@perkinscoie.com">cs: Eddie Speas essay: melias@perkinscoie.com; <a href="ma

< <u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth < <u>Elisabeth.Theodore@arnoldporter.com</u>>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Phil, we've been told that the total volume of data is roughly 2 Terabytes.

Best, Dan

Daniel Jacobson Senior Associate

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5602

 $\underline{\text{Daniel.Jacobson@arnoldporter.com}} \mid \underline{\text{www.arnoldporter.com}}$

From: Strach, Phillip J. <phil.strach@ogletree.com>

Sent: Wednesday, May 1, 2019 5:32 PM

To: Jones, Stanton < Stanton < Stanton < Stanton.Jones@arnoldporter.com>; McKnight, Michael D.

<Michael.McKnight@ogletreedeakins.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark

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zzz.External.AKhanna@perkinscoie.com < AKhanna@perkinscoie.com >; Gersch, David P.

 $<\!\underline{\text{David}.\text{Gersch}@\text{arnoldporter.com}}\!\!>; \text{Theodore, Elisabeth}.\underline{\text{Theodore}@\text{arnoldporter.com}}\!\!>; \text{Jacobson, Daniel}$

<Daniel.Jacobson@arnoldporter.com>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

External E-mail

Stanton: in assessing this issue, it would also be helpful for us to know the total volume of the data/files. Thanks. Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Jones, Stanton < <u>Stanton.Jones@arnoldporter.com</u>>

Sent: Wednesday, May 01, 2019 5:06 PM

To: McKnight, Michael D. < McKnight, Michael D. < McKnight, Michael D. < McKnight, Michael D. < McKnight@ogletreedeakins.com>; Raile, Richard < <a href="mailto:mailt

Mark < MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>; Strach, Phillip J.

< "> Riggins, Alyssa < Alyssa Alyssa <a href

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< <u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth < <u>Elisabeth.Theodore@arnoldporter.com</u>>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Counsel:

In light of the Court's order below on the motion for clarification, please let us know immediately how each set of defendants prefers for the Stephanie Hofeller subpoena response materials to be made available to you for inspection and copying -- namely, whether you will send someone to Stroz's office in DC to inspect and copy the materials yourself, or whether you instead want us to have a copy of the materials made and sent to you, at your expense (which we are inquiring about now). We are standing by awaiting direction from each set of defendants.

Regards, Stanton

R. Stanton Jones

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5563

<u>Stanton.Jones@arnoldporter.com</u> | <u>www.arnoldporter.com</u> **From:** Myers, Kellie Z. <Kellie.Z.Myers@nccourts.org>

Sent: Wednesday, May 1, 2019 4:57 PM

To: McKnight, Michael D. <<u>michael.mcknight@ogletree.com</u>>; Eddie Speas <<u>espeas@poynerspruill.com</u>>; Mackie, Caroline P. <<u>CMackie@poynerspruill.com</u>>; Jones, Stanton <<u>Stanton.Jones@arnoldporter.com</u>>; Gersch, David P.

<<u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark

<MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; melias@perkinscoie.com;

zzz.External.ABranch@perkinscoie.com <ABranch@perkinscoie.com>; zzz.External.AKhanna@perkinscoie.com

<<u>AKhanna@perkinscoie.com</u>>; Strach, Phillip J. <<u>Phil.Strach@ogletreedeakins.com</u>>; Riggins, Alyssa

<Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar

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<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

External E-mail

Take two...

Please find attached the complete order of the three-judge panel in this action. I apologize for the missing page and blame our scanner for keeping page 9 on the first run through.



Kellie Z. Myers Trial Court Administrator 10th Judicial District – Wake County PO Box 1916, Raleigh, NC 27602 0 919-792-4775

Justice for all www.NCcourts.gov/WakeTCA









From: McKnight, Michael D. <michael.mcknight@ogletree.com>

Sent: Wednesday, May 01, 2019 4:46 PM

To: Myers, Kellie Z. <Kellie.Z.Myers@nccourts.org>; Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>; Jones, Stanton <Stanton.Jones@arnoldporter.com>; david.gersch@arnoldporter.com; Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>; Jacobson, Daniel <<u>Daniel.Jacobson@arnoldporter.com</u>>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark <MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; melias@perkinscoie.com; ABranch@perkinscoie.com; AKhanna@perkinscoie.com; Strach, Phillip J. < Phillip J. Phi Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar <amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch <JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com) < DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Ms. Myers,

It appears that a page following page 8 of the attached order may be missing as there is no signature page from the judges as there usually is. It also appears that one or more numbered paragraphs containing the court's orders may be missing. Could you confirm whether this is the case and send the missing page?

Thanks,

Michael

Michael D. McKnight | Ogletree, Deakins, Nash, Smoak & Stewart, P.C. 4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3159 | Fax: 919-783-9412 michael.mcknight@ogletree.com | www.ogletree.com | Bio

From: Myers, Kellie Z. <Kellie.Z.Myers@nccourts.org>

Sent: Wednesday, May 01, 2019 4:16 PM

To: Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>; Jones, Stanton

<Stanton.Jones@arnoldporter.com>; david.gersch@arnoldporter.com; Theodore, Elisabeth

<Elisabeth.Theodore@arnoldporter.com>; Jacobson, Daniel <Daniel.Jacobson@arnoldporter.com>; Raile, Richard

<rraile@bakerlaw.com>; Braden, E. Mark < MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>;

melias@perkinscoie.com; ABranch@perkinscoie.com; AKhanna@perkinscoie.com; Strach, Phillip J.

<Phil.Strach@ogletreedeakins.com>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Riggins, Alyssa

<Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar

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<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Subject: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Good afternoon,

Please find attached, for service, the order of the three-judge panel following the April 30, 2019 hearing in this matter, in Wake County Civil Superior Court. The original order will be forwarded to the Clerk of Court for the court file.

Best,



Kellie Z. Myers Trial Court Administrator 10th Judicial District - Wake County PO Box 1916, Raleigh, NC 27602 0 919-792-4775

Justice for all www.NCcourts.gov/WakeTCA









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EXHIBIT 6

From: Jacobson, Daniel

Sent: Thursday, May 2, 2019 6:48 PM

To: 'John Branch'; Strach, Phillip J.; Jones, Stanton; McKnight, Michael D.; Raile, Richard;

Braden, E. Mark; Stanley, Trevor M.; Riggins, Alyssa; Brennan, Stephanie; Majmundar, Amar; Cox, Paul; joshua.lawson@ncsbe.gov; Nate Pencook; Christine McCaffrey

Cc: Eddie Speas; Mackie, Caroline P.; melias@perkinscoie.com;

zzz.External.ABranch@perkinscoie.com; zzz.External.AKhanna@perkinscoie.com; Gersch,

David P.; Theodore, Elisabeth

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Phil, John, and Paul: Stroz Friedberg estimates that the copying process should be complete by around 4pm tomorrow. Assuming that's the case, they can FedEx the materials then – please let us know if they should mark the packages for Saturday delivery or Monday delivery. In the alternative, you could arrange to have somebody go to Stroz's office tomorrow afternoon and pick up your copy there.

Phil: in response to your specific questions:

- 1. Stroz does not turn over their chain of custody forms, which are proprietary. However, they will attest in what they provide you that they received the unopened FedEx package containing the media from Arnold & Porter on March 13, 2019, as we have previously indicated.
- 2. Stroz can include descriptions, names and photos of all original media drives, as you requested.
- 3. We will provide an excel version with the information you requested tomorrow. Please note that this partial index is Plaintiffs' work product that Plaintiffs are under no obligation to provide, and that we provided to you previously as a courtesy to facilitate our discussion of how to approach the personal sensitive information on the media. We will nonetheless provide you the excel version as a courtesy, but we do not intend to provide any further work product. On your clarification question, the document path shown on the current PDF index may contain Stroz's unique organization and ES number, but everything following the ES number and backslash is original file path.

John, Stroz can provide the information you requested, but we assume you are requesting that information for the deliverable drives, not the original media. Please let us know if it is otherwise.

We will also provide tracking numbers for each of the shipments.

Best, Dan

Daniel Jacobson
Senior Associate

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5602

Daniel.Jacobson@arnoldporter.com | www.arnoldporter.com

From: John Branch < JBranch@shanahanlawgroup.com>

Sent: Thursday, May 2, 2019 3:00 PM

To: Strach, Phillip J. <phil.strach@ogletree.com>; Jones, Stanton <Stanton.Jones@arnoldporter.com>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark <MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar <amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; Nate Pencook <NPencook@shanahanlawgroup.com>; Christine McCaffrey <CMcCaffrey@shanahanlawgroup.com>
Cc: Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>; melias@perkinscoie.com; zzz.External.ABranch@perkinscoie.com <ABranch@perkinscoie.com>; zzz.External.AKhanna@perkinscoie.com <AKhanna@perkinscoie.com>; Gersch, David P. <David.Gersch@arnoldporter.com>; Theodore, Elisabeth <Elisabeth.Theodore@arnoldporter.com>
Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

External E-mail

Stanton,

Please ship the drive to the following address. I will also need the FedEx or UPS tracking number.

Attn: Michael Turner Virtacore Systems 21551 Beaumeade Circle Ashburn, VA 20147

In addition, our vendor has informed me that it needs the following information regarding the drive prior to shipping:

Hard Drive Description:

Serial Number:

Passcode (if password protected):

Client Matter: Data Size:

Thank you,

John Branch

John E. Branch III | Partner



128 E. Hargett Street | Third Floor Raleigh, NC 27601

Phone: (919) 856-9494

Email: jbranch@shanahanlawgroup.com

Please see the IRS Circular 230 Notice and the Confidentiality Notice below before reading this email.

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From: Strach, Phillip J. <phil.strach@ogletree.com>

Sent: Thursday, May 2, 2019 1:38 PM

To: Jones, Stanton < <u>Stanton.Jones@arnoldporter.com</u>>; Jacobson, Daniel < <u>Daniel.Jacobson@arnoldporter.com</u>>; McKnight, Michael D. < <u>Michael.McKnight@ogletreedeakins.com</u>>; Raile, Richard < <u>rraile@bakerlaw.com</u>>; Braden, E.

Mark < MBraden@bakerlaw.com">MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>; Riggins, Alyssa

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; Nate Pencook < <u>NPencook@shanahanlawgroup.com</u>
; Christine McCaffrey

<CMcCaffrey@shanahanlawgroup.com>

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Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

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Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

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<JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)

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< <u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth < <u>Elisabeth.Theodore@arnoldporter.com</u>>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

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Regards,

From: Jones, Stanton

Sent: Wednesday, May 1, 2019 5:39 PM

To: Jacobson, Daniel < Daniel.Jacobson@arnoldporter.com; Strach, Phillip J. < phillip J. < phil.strach@ogletree.com; McKnight,

Michael D. < Michael D. Michael McKnight@ogletreedeakins.com; Raile, Richard Michael McKnight@ogletreedeakins.com; Braden, E. Mark

<MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; Riggins, Alyssa

<a href="mailto:
https://www.alyssa.Riggins@ogletreedeakins.com
https://www.stephanie
https://www.stephanie
https://www.stephanie

<a href="mailto:smailto:amailto:smailt

<JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)

<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Cc: Eddie Speas <<u>espeas@poynerspruill.com</u>>; Mackie, Caroline P. <<u>CMackie@poynerspruill.com</u>>; <u>melias@perkinscoie.com</u>; <u>zzz.External.ABranch@perkinscoie.com</u> <<u>ABranch@perkinscoie.com</u>>; zzz.External.AKhanna@perkinscoie.com <AKhanna@perkinscoie.com>; Gersch, David P.

<<u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Per Stroz Friedberg, the cost to copy and send the materials is \$2,500 per copy + shipping cost (minimal FedEx fees). Hence, if all three sets of defendants each want a copy made and sent to them, the total cost would be \$7,500, split three ways, plus the FedEx fees. Please let us know how you want to proceed.

Regards, Stanton

From: Jacobson, Daniel < Daniel. Jacobson@arnoldporter.com >

Sent: Wednesday, May 1, 2019 5:34 PM

To: Strach, Phillip J. <phil.strach@ogletree.com>; Jones, Stanton <<u>Stanton.Jones@arnoldporter.com</u>>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark

<MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; Riggins, Alyssa

< <u>Alyssa.Riggins@ogletreedeakins.com</u>>; Brennan, Stephanie < <u>Sbrennan@ncdoj.gov</u>>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch

<JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)

<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

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<<u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Phil, we've been told that the total volume of data is roughly 2 Terabytes.

Best, Dan

Daniel Jacobson Senior Associate

Arnold & Porter
601 Massachusetts Ave., NW
Washington | District of Columbia 20001-3743
T: +1 202.942.5602
Daniel.Jacobson@arnoldporter.com | www.arnoldporter.com

From: Strach, Phillip J. <phil.strach@ogletree.com>

Sent: Wednesday, May 1, 2019 5:32 PM

To: Jones, Stanton <Stanton.Jones@arnoldporter.com>; McKnight, Michael D.

- <Michael.McKnight@ogletreedeakins.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark
- < <u>MBraden@bakerlaw.com</u>>; Stanley, Trevor M. < <u>tstanley@bakerlaw.com</u>>; Riggins, Alyssa
- < <u>Alyssa.Riggins@ogletreedeakins.com</u>>; Brennan, Stephanie < <u>Sbrennan@ncdoj.gov</u>>; Majmundar, Amar
- <amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch
- <JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)
- <DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Cc: Eddie Speas <<u>espeas@poynerspruill.com</u>>; Mackie, Caroline P. <<u>CMackie@poynerspruill.com</u>>;

<u>melias@perkinscoie.com</u>; <u>zzz.External.ABranch@perkinscoie.com</u> < <u>ABranch@perkinscoie.com</u>>;

zzz.External.AKhanna@perkinscoie.com < AKhanna@perkinscoie.com >; Gersch, David P.

 $<\!\underline{\text{David.Gersch}@\text{arnoldporter.com}}\text{>}; Theodore, Elisabeth <\!\underline{\text{Elisabeth.Theodore}@\text{arnoldporter.com}}\text{>}; Jacobson, Daniel$

<Daniel.Jacobson@arnoldporter.com>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

External E-mail

Stanton: in assessing this issue, it would also be helpful for us to know the total volume of the data/files. Thanks. Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Jones, Stanton <Stanton.Jones@arnoldporter.com>

Sent: Wednesday, May 01, 2019 5:06 PM

To: McKnight, Michael D. < McKnight, Michael D. < McKnight, Michael D. < McKnight, Michael D. < McKnight@ogletreedeakins.com; Raile, Richard < <a href="mailto:mailto

Mark < MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>; Strach, Phillip J.

<Phil.Strach@ogletreedeakins.com>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie

<Sbrennan@ncdoj.gov>; Majmundar, Amar <amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>;

joshua.lawson@ncsbe.gov; John Branch < <u>JBranch@shanahanlawgroup.com</u>>; Denton Worrell

(<u>DWorrell@shanahanmcdougal.com</u>) < <u>DWorrell@shanahanmcdougal.com</u>>; <u>NPencook@shanahanmcdougal.com</u>

Cc: Eddie Speas <<u>espeas@poynerspruill.com</u>>; Mackie, Caroline P. <<u>CMackie@poynerspruill.com</u>>;

melias@perkinscoie.com; ABranch@perkinscoie.com; AKhanna@perkinscoie.com; Gersch, David P.

< <u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth < <u>Elisabeth.Theodore@arnoldporter.com</u>>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Counsel:

In light of the Court's order below on the motion for clarification, please let us know immediately how each set of defendants prefers for the Stephanie Hofeller subpoena response materials to be made available to you for inspection and copying -- namely, whether you will send someone to Stroz's office in DC to inspect and copy the materials yourself, or whether you instead want us to have a copy of the materials made and sent to you, at your expense (which we are inquiring about now). We are standing by awaiting direction from each set of defendants.

Regards, Stanton

R. Stanton Jones

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5563

<u>Stanton.Jones@arnoldporter.com</u> | <u>www.arnoldporter.com</u>

From: Myers, Kellie Z. <Kellie.Z.Myers@nccourts.org>

Sent: Wednesday, May 1, 2019 4:57 PM

To: McKnight, Michael D. <michael.mcknight@ogletree.com>; Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <<u>CMackie@poynerspruill.com</u>>; Jones, Stanton <<u>Stanton.Jones@arnoldporter.com</u>>; Gersch, David P. <David.Gersch@arnoldporter.com>; Theodore, Elisabeth <Elisabeth.Theodore@arnoldporter.com>; Jacobson, Daniel

<<u>Daniel.Jacobson@arnoldporter.com</u>>; Raile, Richard <<u>rraile@bakerlaw.com</u>>; Braden, E. Mark

<MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; melias@perkinscoie.com;

zzz.External.ABranch@perkinscoie.com <ABranch@perkinscoie.com>; zzz.External.AKhanna@perkinscoie.com

<a href="AKhanna@perkinscoie.com; Strach, Phillip J. Phillip J. <a href="Akhanna@per

<Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch

<JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)

<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

External E-mail

Take two...

Please find attached the complete order of the three-judge panel in this action. I apologize for the missing page and blame our scanner for keeping page 9 on the first run through.



Kellie Z. Myers Trial Court Administrator 10th Judicial District – Wake County PO Box 1916, Raleigh, NC 27602 0 919-792-4775

Justice for all www.NCcourts.gov/WakeTCA









From: McKnight, Michael D. <michael.mcknight@ogletree.com>

Sent: Wednesday, May 01, 2019 4:46 PM

To: Myers, Kellie Z. < Kellie.Z.Myers@nccourts.org>; Eddie Speas < espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>; Jones, Stanton <Stanton.Jones@arnoldporter.com>; david.gersch@arnoldporter.com; Theodore, Elisabeth <Elisabeth.Theodore@arnoldporter.com>; Jacobson, Daniel <Daniel.Jacobson@arnoldporter.com>; Raile, Richard <rraile@bakerlaw.com>; Braden, E. Mark <MBraden@bakerlaw.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; melias@perkinscoie.com; ABranch@perkinscoie.com; AKhanna@perkinscoie.com; Strach, Phillip J. <Phill.Strach@ogletreedeakins.com>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar <amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch <JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com) < DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Subject: RE: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Ms. Myers,

It appears that a page following page 8 of the attached order may be missing as there is no signature page from the judges as there usually is. It also appears that one or more numbered paragraphs containing the court's orders may be missing. Could you confirm whether this is the case and send the missing page?

Thanks,

Michael

Michael D. McKnight | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3159 | Fax: 919-783-9412 michael.mcknight@ogletree.com | www.ogletree.com | Bio

From: Myers, Kellie Z. <Kellie.Z.Myers@nccourts.org>

Sent: Wednesday, May 01, 2019 4:16 PM

To: Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>; Jones, Stanton

<Stanton.Jones@arnoldporter.com>; david.gersch@arnoldporter.com; Theodore, Elisabeth

<Elisabeth.Theodore@arnoldporter.com>; Jacobson, Daniel <Daniel.Jacobson@arnoldporter.com>; Raile, Richard

<rraile@bakerlaw.com>; Braden, E. Mark < MBraden@bakerlaw.com>; Stanley, Trevor M. < tstanley@bakerlaw.com>; melias@perkinscoie.com; ABranch@perkinscoie.com; AKhanna@perkinscoie.com; Strach, Phillip J.

<Phil.Strach@ogletreedeakins.com>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Riggins, Alyssa

<Alyssa.Riggins@ogletreedeakins.com>; Brennan, Stephanie <Sbrennan@ncdoj.gov>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Cox, Paul <pcox@ncdoj.gov>; joshua.lawson@ncsbe.gov; John Branch

<JBranch@shanahanlawgroup.com>; Denton Worrell (DWorrell@shanahanmcdougal.com)

<DWorrell@shanahanmcdougal.com>; NPencook@shanahanmcdougal.com

Subject: Order: Common Cause, et al. v. Lewis, et al. (Wake County 18 CVS 14001)

Good afternoon,

Please find attached, for service, the order of the three-judge panel following the April 30, 2019 hearing in this matter, in Wake County Civil Superior Court. The original order will be forwarded to the Clerk of Court for the court file.

Best,



Kellie Z. Myers Trial Court Administrator 10th Judicial District – Wake County PO Box 1916, Raleigh, NC 27602 0 919-792-4775

Justice for all www.NCcourts.gov/WakeTCA









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VIA FEDEX

May 3, 2019

ATTN: Todd Stefan

Setec Investigations 145 S Fairfax Ave., Suite 200 Los Angeles, CA 90036

RE: NC Gerrymandering Litigation

Dear Mr. Stefan,

Enclosed please find three (3) internal SATA hard drives containing forensic images of the twenty-two (22) pieces of media that Stroz Friedberg received from Arnold & Porter Kaye Scholer LLP on March 13, 2019. The media was received in a sealed FedEx box with no sign of tampering.

The hard drives provided are protected with full-disk VeraCrypt encryption, using a custom password which will be provided to you by counsel at Arnold & Porter. When connecting the drives to a Windows machine, a dialog box may appear asking if you would like to format the drive. Please <u>do not</u> format the drive, instead close the dialog box and proceed with the attached VeraCrypt instructions.

For your convenience, attached please find a summary spreadsheet of the data and photographs of the original pieces of media and their original packaging.

Best,

Carly Battaile
Consultant, Digital Forensics & Incident Response

Enclosure: (3) internal SATA hard drives



T. Hofeller Media Received from Arnold & Porter Kaye Scholer LLP Arnold & Porter Kaye Scholer LLP: NC Gerrymandering Litigation May 3, 2019 PRIVILEGED AND CONFIDENTIAL

#	ESN	Associated Hard Drive	Name of Original Media	Description of Original Media	Date Received
1	ES0001A	INV# 31058	Generic	T. Hofeller thumbdrive, black and silver in color, labeled "The Education Trust" and "A"	3/13/2019
2	ES0002A	INV #34394	Western Digital	T. Hofeller external drive, labeled "System Back up July 16, 2012 Toshiba Laptop Nov 2, 2012 April 16, 2013" and "#4"	3/13/2019
3	ES0003A	INV# 31058	Generic	T. Hofeller thumbdrive, black & Silver in color, labeled "Beirne, Maynard & Parsons, L.L.P.", "A" and "H"	3/13/2019
4	ES0004B	INV #34394	Seagate	T. Hofeller external drive, in blue silicone case, labeled "#1"	3/13/2019
5	ES0005A	INV# 31058	Generic	T. Hofeller thumbdrive, white and blue in color, labeled "2016 Congressional District Discovery Items" and "I"	3/13/2019
6	ES0006A	INV# 31058	SanDisk	T. Hofeller thumbdrive, labeled "D"	3/13/2019
7	ES0007C	INV #67140	Seagate	T. Hofeller external drive, silver and black in color, labeled "#3"	3/13/2019
8	ES0008A	INV# 31058	SanDisk	T. Hofeller thumbdrive, labeled "NC Data" and "F"	3/13/2019
9	ES0009A	INV# 31058	SanDisk	T. Hofeller thumbdrive, red & black in color, labeled, "NC-2" and "C"	3/13/2019
10	ES0010A	INV# 31058	Lexar	T. Hofeller thumbdrive, white & purple in color, labeled "J"	3/13/2019
11	ES0011A	INV# 31058	SanDisk	T. Hofeller thumbdrive, white, red, blue in color, labeled "O"	3/13/2019
12	ES0012A	INV# 31058	SanDisk	T. Hofeller thumbdrive, black & white in color, labeled "R"	3/13/2019
13	ES0013B	INV# 31058	Mini	T. Hofeller thumbdrive, silver in color, labeled "Census Adjustment" and "G"	3/13/2019
14	ES0014A	INV #34394	Seagate	T. Hofeller external drive, in blue silicone case, labeled "#2"	3/13/2019
15	ES0015B	INV# 31058	Generic	T. Hofeller thumbdrive, labeled "L"	3/13/2019
16	ES0016A	INV# 31058	Lexar	T. Hofeller thumbdrive, white & green in color, labeled "N"	3/13/2019
17	ES0017A	INV# 31058	SanDisk	T. Hofeller thumbdrive, red and black in color, labeled "Empty" and "M"	3/13/2019
18	ES0018A	INV# 31058	Generic	T. Hofeller thumbdrive, black and silver in color, labeled "Beirne, Maynard & Parsons, L.L.P." and "E"	3/13/2019
19	ES0019A	INV# 31058	Generic	T. Hofeller thumbdrive, silver in color, labeled "USDA Office of Diversity ASCR" and "B"	3/13/2019
20	ES0020A	INV# 31058	SanDisk	T. Hofeller thumbdrive, black and red in color, labeled "K" and "T"	3/13/2019
21	ES0021A	INV# 31058	Lexar	T. Hofeller thumbdrive, white & neon green in color, labeled "Q"	3/13/2019
22	ES0022A	INV# 31058	Generic	T. Hofeller thumbdrive, black and silver in color, labeled "Beirne, Maynard & Parsons, L.L.P." and "P"	3/13/2019

STATE OF NORTH CAROLINA COUNTY OF WAKE

IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION Case No. 18 CVS 014001

COMMON CAUSE, et al.
Plaintiffs,
v.
DAVID R. LEWIS, et al.
Defendants.

Expert Report of Douglas Johnson, Ph.D.

Pursuant to the North Carolina Rules of Civil Procedure and the Case Management Orders of the Court in the above-captioned matter, I, Douglas Johnson, provide the following written report:

- 26. This test map shifts the Senate map from 20 to 36 "Safe Republican" seats (with a 10% or higher Republican advantage). It reduces the number of "Safe Democratic" seats from 18 to 14. And it completely eliminates "Competitive" districts, moving all 12 of them into the "Safe Republican" category.
- 27. Focusing on Mecklenburg County is a good way to see at a glance the impact of the restraint on districting imposed by the "county grouping" rule and the Legislature's criteria to minimize VTD and city splits and avoid extremely non-compact districts. The Legislature's Adopted 2017 Map has five Senate districts contained entirely within Mecklenburg County, with one safe Republican district, three safe Democratic districts, and one competitive district. The county groupings rule and the criteria to minimize VTD splits and avoid extremely non-compact districts prevented the drawing of the map shown in the "Maximum Republican Test" a map that divides Mecklenburg County among nine districts, with only one located entirely in the county; that reduces Democrats from three safe and one competitive districts to just one safe Democratic district, and a map that divides the rest of the county up among eight safe Republican districts:

switching from "Safe Democratic" districts to "Safe Republican" two districts in Mecklenburg County and one each in Forsyth and Buncombe counties.

- 29. While I have drawn the "Maximum Republican" Senate map for the illustrative purposes of this report, a "Maximum Republican" House map would similarly provide significantly more Republican districts in the State House than the 2017 Adopted Map provides.
- 30. This test map proves that the "county groupings" requirement significantly limits the legislature's ability to draw lines based exclusively on partisanship.
- 31. Reflecting the direct influence of the "county groupings" requirement, the "Maximum Republican" test map bears significantly more resemblance in the odd shapes and partisan focus of the 2001 Senate map than it does to the 2017 Adopted. The 2001 Senate map is the map that was never used in an election because of the *Stevenson* ruling on the interpretation of the "county groupings" provision of the state constitution:

District 41 in 2018. The Pro-Republican Alternative's 11.4% increase in the Republican character of District 41 (and resulting 11.4% decrease in the Democratic character, for a 22.8% total swing) would have resulted in an easy Republican win in 2018.

- 38. The 2017 Adopted Senate map in Mecklenburg County divided only 2 of the 195 VTDs in the county. The Pro-Republican Test map divides 15 VTDs, including one VTD divided into three pieces.
- 39. The lowest Polsby-Popper score of any 2017 Adopted Senate district in Mecklenburg County was 0.13, and the median of the 2017 Adopted Senate districts in the county was 0.25. In the Pro-Republican Test map, the median score is essentially unchanged at 0.26, and the lowest score is now 0.08. Reock compactness scores show a similar change, with the median declining from 0.42 in the 2017 Adopted Senate map to 0.35 in the Pro-Republican Test map, and the lowest score declining from 0.19 in the 2017 Adopted Senate map to 0.18 in the Pro-Republican Senate map.

Table 1: Mecklenburg County Compactness Scores

	Pro-Rep. Test Map		2017 Adopted	
Dist	Reock	Polsby-Popper	Reock	Polsby-Popper
37	0.35	0.26	0.42	0.25
38	0.37	0.49	0.42	0.42
39	0.28	0.26	0.33	0.24
40	0.52	0.47	0.47	0.36
41	0.18	0.08	0.19	0.13
Ave	0.34	0.31	0.37	0.28
Median	0.35	0.26	0.42	0.25
Sum	1.70	1.56	1.83	1.40
Min	0.18	0.08	0.19	0.13

Wake County

40. An analysis of House districts in Wake County also demonstrates the limitations on partisan gerrymandering imposed by the "county grouping" rule and by the Legislature's criteria to minimize VTD and city splits and to avoid extremely non-compact districts. The 2017 Adopted

47. Once again, the state's "county grouping" rule, and the legislature's desire to minimize city splits, acted as limit on the potential partisan motivations of legislators in North Carolina.

Conclusion

- 48. These demonstration House and Senate maps drawn within individual county groupings, and the earlier demonstration "Maximum Republican" map drawn without regard to the county groupings, demonstrate that the 2017 Adopted House and Senate maps are not "maximum partisan" maps. Similar demonstration maps could be drawn for a "Maximum Republican" House map and for House and Senate districts in other multi-district county groupings.
- 49. The state's county groupings rule acts as a significant restriction on the discretion, and potential excesses, of legislators when they are in charge of redistricting (regardless of party, as shown in 2001) While the 2017 map clearly includes partisanship as one consideration (as does every other legislatively-drawn redistricting map in the country), other traditional redistricting principles (preserving VTDs, avoiding city splits, keeping incumbents with their core constituencies, avoiding non-compact districts and other factors) all mitigated the partisan gain in the 2017 adopted map.

STATE OF NORTH CAROLINA COUNTY OF WAKE

IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION Case No. 18 CVS 014001

COMMON CAUSE, et al.
Plaintiffs,
v.
DAVID R. LEWIS, et al.
Defendants.

Expert Report of Dr. M.V. Hood III.

Pursuant to the North Carolina Rules of Civil Procedure and the Case Management Orders of the Court in the above-captioned matter, I, M.V. (Trey) Hood III, provide the following written report:

I. <u>INTRODUCTION AND BACKGROUND</u>

My name is M.V. (Trey) Hood III, and I am a tenured professor at the University of Georgia with an appointment in the Department of Political Science. I have been a faculty member at the University of Georgia since 1999. I also serve as the Director of the School of Public and International Affairs Survey Research Center. I am an expert in American politics, specifically in the areas of electoral politics, racial politics, election administration, and Southern politics. I teach courses on American politics, Southern politics, and research methods and have taught graduate seminars on the topics of election administration and Southern politics.

I have received research grants from the National Science Foundation and the Pew Charitable Trust. I have also published peer-reviewed journal articles specifically in the areas of redistricting and vote dilution. My academic publications are detailed in a copy of my vita that is attached to the end of this document. Currently, I serve on the editorial boards for *Social Science Quarterly* and *Election Law Journal*. The latter is a peer-reviewed academic journal focused on the area of election administration.

During the preceding four years, I have offered expert testimony (through deposition or at trial) in fourteen cases around the United States: *United States v. North Carolina*, 1:13-cv-861 (M.D. N.C), *Bethune-Hill v. Virginia State Board of Elections*, 3:14-cv-00852 (E.D. Va.), *The Ohio Democratic Party v. Husted*, 2:15-cv-1802 (S.D. Ohio), *The Northeast Ohio Coalition v. Husted*, 2:06-cv-00896 (S.D. Ohio), *One Wisconsin Institute v. Nichol*, 3:15-cv-324 (W.D. Wis.), *Covington v. North Carolina*, 1:15-cv-00399 (M.D.N.C.), *Green Party of Tennessee v. Hargett*, 3:11-cv-00692 (M.D. Tenn.), *Vesilind v. Virginia State Board of Elections*, CL15003886-00 (Richmond Circuit Court), *Common Cause v. Rucho*, 1:16-cv-1026 (M.D.N.C.), *Greater*

Birmingham Ministries v. Merrill, 2:15-cv-02193 (N.D. Ala), Anne Harding v. County of Dallas, Texas, 3:15-cv-00131 (N.D. Tex.), Feldman v. Arizona Secretary of State's Office, 2:16-cv-16-01065 (Ari.), League of Women Voters v. Gardner, 226-2017-cv-00433 (Hillsborough Superior Court), and Ohio A. Philip Randolph Institute v. Ryan Smith, 1:18-cv-357 (S.D. Ohio).

In assisting the Legislative Defendants in analyzing the North Carolina's legislative districts, I am receiving \$350 an hour for this work and \$350 an hour for any testimony associated with this work. In reaching my conclusions, I have drawn on my training, experience, and knowledge as a social scientist who has specifically conducted research in the area of redistricting. My compensation in this case is not dependent upon the outcome of the litigation or the substance of my opinions.

II. STATE LEGISLATIVE REDISTRICTING IN NORTH CAROLINA

North Carolina relies on a unique system to draw state legislative districts that is based on multiple rigid criteria. To a large extent, these criteria make drawing state legislative districts in the Tar Heel state a formulaic exercise. The state constitution requires that House and Senate members be elected from districts and that, in the formation of such districts, counties must be kept whole. This mandate has been translated into a system where counties are first grouped together and then districts are drawn within these groups. In carrying out this mandate, districts should be limited to single counties or the minimum combination of contiguous counties necessary to draw equal-population districts. In drawing districts within multi-county groups in 2017, it was only permissible to traverse, or cross, a county boundary line once. County traversals are only permitted where necessary to comply with district population equalization. The county group system used by North Carolina acts as constraint on the discretion of line drawers.

Once the county groups have been established, in the case of any group that will contain more than one district, the map drawer is then required to create the requisite number of districts. Each county group comprising more than one district is, at this point, its own self-encapsulated geographic area for the purpose of drawing legislative districts. In other words, districts drawn in one county group are independent of districts in any other county group.

In addition to the county group rules discussed above, in 2017, the General Assembly also imposed other criteria on the drawing of legislative districts. These criteria include population equalization, contiguity, goals for compactness and VTD splits, the consideration of municipal boundaries, and incumbency protection.⁶ Taking into account all the criteria discussed, a map

¹See North Carolina Constitution, Article II, Sections 3 and 5. What is known as the whole county provision has been codified in state court opinions in a number of cases. For example, see *Stephenson v. Bartlett*, 355 N.C. 354 (2002). This provision does not supersede the federal dictate that districts, within a range of +/- 5%, must contain equal population counts.

²In some cases, a county group may be synonymous with a district.

³Dickson v. Rucho, 781 N.C. 404 (2015).

⁴2017 House and Senate Plans Criteria (Document Number: LDNC000302).

⁵Stephenson v. Bartlett, 355 N.C. 354.

⁶2017 House and Senate Plans Criteria (Document Number: LDNC000302). Partisan data, but not racial data, were considered in the creation of the 2017 House and Senate plans.

drawer creating district boundary lines within a county group is quite constrained as to the amount of discretion they may exercise. This is especially the case in county groups containing only a few districts.

In response to a federal court case, North Carolina was ordered to revise its House and Senate plans prior to the 2018 election-cycle. The resulting plans are the subject of litigation in the present matter. It should be noted that the plaintiffs in this matter are not challenging the county group mandate nor the current configuration of county groups in the House and Senate plans. In addition, the plaintiffs have only made allegations challenging certain House and Senate districts within the state. In the House, plaintiffs have made allegations challenging a total of 77 districts in eighteen county groups. In the Senate, they have made allegations challenging a total of 23 districts in seven county groups.

III. TRADITIONAL REDISTRICTING CRITERIA

In this section of my report, I examine the enacted House and Senate plans by analyzing a number of redistricting principles that were highlighted in the 2017 Redistricting Criteria by the General Assembly.

A. VTD Analysis

In this section, I make a number of comparisons concerning VTD splits across districts. According to the redistricting criteria, the 2017 House and Senate plans should make an effort to produce a plan that splits fewer precincts than the 2011 plans. Table 1 below details the number of VTD splits for the 2017 enacted plans, the 2011 benchmark plans, and Professor Chen's simulated legislative plans.

⁷Covington v. North Carolina, 267 F. Supp. 3d 664 (M.D.N.C. 2017).

⁸Although House Districts 21, 22, 57, 61, and 62 are located in county groups with other districts about which Plaintiffs have made allegations, Plaintiffs have made no specific allegations challenging these districts,

⁹2017 House and Senate Plans Criteria (Document Number: LDNC000302).

¹⁰North Carolina General Assembly, Redistricting Office and Expert report of Jowei Chen (April 8, 2019), Tables 5 and 6.

greater number of Republican incumbents paired in the Senate plan under which the election was held—a total of eight compared to only two Democrats.

To summarize, in both the House and Senate plans, the goal of limiting the number of incumbent pairings of either party was clearly achieved.

Table 5. Incumbent Pairings. 2018

	H	ouse	Se	enate
Pairings	2017 Enacted	2018 Elections	2017 Enacted	2018 Elections
D, R	0.8%	0.8%	2.0%	4.0%
	[1]	[1]	[1]	[2]
D, D	0.0%	0.8%	0.0%	0.0%
	[0]	[1]	[0]	[0]
R, R	0.8%	0.8%	6.0%	6.0%
	[1]	[1]	[3]	[3]
Open	1.7%	2.5%	8.0%	10.0%
	[2]	[3]	[4]	[5]
Unpaired	96.7%	95.0%	84.0%	80.0%
	[116]	[114]	[42]	[40]
Total Seats	120	120	50	50

D. Summary

The 2017 House and Senate plans met the goals stated in the adopted redistricting criteria. Compared to the 2011 plans, the 2017 plan saw measurable gains in terms of district compactness and reducing VTD splits as compared to the 2011 plans. The simulations prepared by Professor Chen that were designed to maximize these criteria perform only marginally better on these factors. In addition, the goal of protecting incumbents specified in the criteria was also met as very few House and Senate incumbent members, of either party, were paired in 2017. These factors, combined with the successful implementation of the county grouping system and the condition permitting only a single internal traverse, also meant respect for county boundaries was paramount in the plan's creation. In addition, all House and Senate districts are contiguous and meet the equal population standard as defined by the criteria. These goals, in my opinion, are certainly not partisan in nature. In using a different set of criteria from that adopted by the General Assembly, Professor Chen infers that any deviation from maximization of these factors is an indication of improper partisan motives. In my opinion, imputing motives based on the application of a different set of criteria in no ways proves the General Assembly was engaged in an effort to engage in extreme partisan gerrymander. As indicated in my discussion of the legislative redistricting in North

s is quite constrained, wh san motives predominate.	bility of map drawers to create

created by dividing the voting age population contained within each VTD by the area of the VTD (measured in square miles). I then created a new indicator by subtracting values on the partisan index from one. In this model, higher values indicate increasing Democratic vote strength. In order to test the relationship between population density and Democratic partisanship, I used OLS regression. The results are found in Table 13 below.³⁵

Table 13. Explaining Democratic Partisanship

	Coefficient	Standard Error	
Population Density	$.00009^{*}$.000003	
Constant	.4294*	.0043	
\mathbb{R}^2	.22		
N	2,692		

*p<.001

As indicated by the results in the table, population density is a significant predictor of Democratic vote strength in North Carolina. As population density increases, so does Democratic partisanship. Stated otherwise, Democrats in the state are more likely to be located in urban areas. Of course, this is just further statistical confirmation of the spatial patterns that were previously discussed.

To recap, this section has demonstrated that North Carolina's political geography can affect the manner in which legislative districts are created. Geographically speaking, Republican areas tend to cluster with other Republican areas and Democratic areas tend to be located alongside other Democratic areas. As well, Democrats are more likely to found in urban areas and Republicans in rural areas. As a consequence of this pattern, Republicans possess a larger geographic footprint in the state than do Democrats. The presence of such spatial patterns can lead to the phenomenon where voters with similar voting patterns are more likely to be placed together in the same district, sometimes referred to as *natural* packing.

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³⁵Alternative model specifications using the logged value of population density and weighting observations by VAP revealed the same pattern as that presented in Table 13.

STATE OF NORTH CAROLINA COUNTY OF WAKE

IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION FILE NO.: 18 CVS 014001

COMMON CAUSE, et al.,

Plaintiffs,

v.

DAVID LEWIS, IN HIS OFFICIAL CAPACITY AS SENIOR CHAIRMAN OF THE HOUSE SELECT COMMITTEE ON REDISTRICTING, et al.,

Defendants.

EXPERT REPORT OF THOMAS BRUNELL, Ph.D.

Pursuant to the North Carolina Rules of Civil Procedure and the Case Management Orders of the Court in the above-captioned matter, I, Thomas Brunell, provide the following written report:

I am a Professor of Political Science at the University of Texas at Dallas. I received a Ph.D. in political science from the University of California, Irvine in 1997. I have published a book and dozens of refereed journal articles on redistricting, elections, and representation. My research has been published in, among other outlets, the *American Political Science Review*, the *Journal of Politics, Electoral Studies, Election Law Journal*, and *Legislative Studies Quarterly*. A copy of my curriculum vitae, which lists my publications in the last ten years, is attached.

Over the past seven years, I have provided testimony in the following cases: Dickson v. Rucho (NC), Guy v. Miller (NV), Egolf v. Duran (NM), Backus

is a far cry from maximizing compactness. Thus, the goals in the simulated maps and the enacted maps are not aligned and this presents problems for making comparisons.

The same caveat applies to Prof. Chen's treatment of splitting voting tabulation districts (VTDs). His computer program tried to minimize these while the legislature was instructed to "make reasonable efforts to draw legislative districts in the 2017 House and Senate plans that split fewer precincts than the current legislative redistricting plans" (Ex 37). By instructing the computer to split the minimum number of VTDs this may have affected the overall results of Prof. Chen's comparison maps.

Prof. Chen argues that his method allows him to draw conclusions about the intent of the map-makers. More specifically he believes that his outlier analysis is able to prove that "an overriding partisan intent" rather than "follow[ing] non-partisan districting criteria" (page 10) underlies the motivations of the person or persons who drew the boundaries. Divining the intent of the map-maker is extraordinarily difficult because the process of redistricting is complex. There are a multitude of competing demands at work when lines are being drawn – districts have to be nearly equally populated; districts need to be compact and contiguous; incumbents' districts can be preserved; city and county splits need to be minimized; North Carolina's county grouping rules must be complied with, and so on. Beyond these requirements there can be various other factors that affect where the boundaries are placed. Incumbents regularly make requests with regard to their district including preserving their core constituency and more. For instance,

legislators may ask that their parents' house, or children's house be included in their district. Or they might ask that a specific business, or park, or landmark be drawn inside their district. Changes in one district can require adjustments to nearby districts if the initial changes affect the population totals. The complex process of redistricting makes drawing conclusions about the intent of the map-maker through statistical analyses incredibly difficult.

North Carolina's redistricting process is one of the most constrained in the nation due to the county groupings requirements. This additional requirement significantly restricts the universe of possible districts. Further, the county groupings rules appear to advantage the Republican Party because the vast majority of Democratic voters in the state reside in the most heavily populated counties, while Republicans are advantaged in rural counties. Table 1 contains the Democratic margin of victory in the 2016 presidential election for the seven most populated counties in North Carolina. Hillary Clinton's margin of victory ranges from 10.37 percent to 59.5 percent in these counties. If the county groupings rules did not exist, more Democratic leaning districts could be drawn by using Democratic population in heavily populated districts mixed in with more rural areas in contiguous districts. So Democrats are disadvantaged by these rules as it limits the number of Democratic leaning districts that are theoretically possible.

Table 1. Democratic Support in the Most Heavily Populated Counties

County	Population Rank	2016 Presidential Democratic Margin
Mecklenburg	1	29.41
Wake	2	20.21
Guilford	3	19.89
Forsyth	4	10.37
Cumberland	5	15.95
Durham	6	59.5
Buncombe	7	14.20

^{*}Source https://ballotpedia.org/Pivot_Counties_in_North_Carolina and https://worldpopulationreview.com/us-counties/nc/

Table 2 presents additional data on this point. Again from the 2016 election, Hillary Clinton received over 50 percent of all of her votes in North Carolina from just seven of the 100 counties in the state. Compare this to Table 3 which has the data fro Donald Trump. He did not reach 50 percent of his total statewide vote until we add the top 17 counties in the state. The Democratic support is far more highly concentrated for Democrats in North Carolina compared to Republicans.

Table 2. Counties and Votes for Clinton from 2016 Election

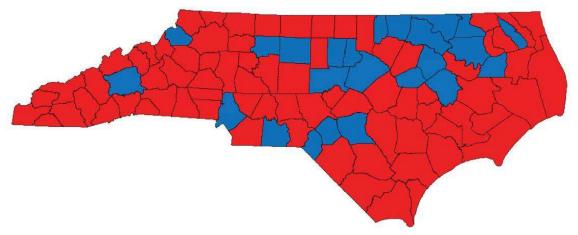
			Cumulative
County	Votes for Clinton	Cumulative Votes	Percent
Wake	302,736	302,736	13.83%
Mecklenburg	294,562	597,298	27.28%
Guilford	149,248	746,546	34.10%
Durham	121,250	867,796	39.64%
Forsyth	94,464	962,260	43.95%
Buncombe	75,452	1,037,712	47.40%
Cumberland	71,605	1,109,317	50.67%
Total Votes	2,189,316		

Table 3. Counties and Votes for Trump from 2016 Election

County	Votes for Trump	Cumulative Votes	Cumulative Percent
Wake	196,082	196,082	8.30%
Mecklenburg	155,518	351,600	14.88%
Guilford	98,062	449,662	19.03%
Forsyth	75,975	525,637	22.25%
Union	66,707	592,344	25.07%
Gaston	61,798	654,142	27.69%
Buncombe	55,716	709,858	30.05%
New Hanover	55,344	765,202	32.39%
Iredell	54,754	819,956	34.71%
Johnston	54,372	874,328	37.01%
Davidson	54,317	928,645	39.31%
Cabarrus	53,819	982,464	41.58%
Cumberland	51,265	1,033,729	43.75%
Randolph	49,430	1,083,159	45.85%
Catawba	48,324	1,131,483	47.89%
Rowan	42,810	1,174,293	49.70%
Brunswick	42,720	1,217,013	51.51%
Total Votes	2,362,631		

Finally, in Figure 1, the results of the 2016 presidential election by county in North Carolina demonstrate this phenomenon as well. Trump carried far more counties than Clinton, though he only carried the state by less than 200,000 votes. Democratic support is largely concentrated in the most heavily populated counties.

Figure 1. 2016 Presidential Election Voting by County



^{*} Figure is coded blue for counties that Hillary Clinton carried in the 2016 presidential election, and red for the counties that Donald Trump carried.

STATE OF NORTH CAROLINA IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION COUNTY OF WAKE

Common Cause, et al.,)	
Plaintiffs,)	
v.)	Docket No. 18 CVS 014001
Representative David R. Lewis, et al.,)	
Defendants.)	
<u>AFFIDAVIT OF JAN</u>	ET R. THO	ORNTON, Ph.D.

STATE OF FLORIDA)
) ss.
COUNTY OF LEON)

Dr. Janet R. Thornton, affiant, affirms under oath as follows:

- 1. I am a Managing Director at Berkeley Research Group (BRG), a consulting firm specializing in the application of economic, econometric, and statistical analysis to litigation, regulatory compliance, and risk assessment matters, among other specialties. BRG experts have analyzed data for matters involving firms in many sectors, government entities, as well as institutions of higher education and research. My fields of special interest include computer analysis of large databases, applied econometrics and statistical analysis.
- 2. I received doctoral and master's degrees in economics from The Florida State University, and a bachelor's degree from the University of Central Florida in economics and political science.
- 3. I am a member of the American Economic Association and the National Association of Forensic Economics.

compared to the enacted map. The results of the simulations are not informative because the premise of their simulated maps is incomplete and inaccurate. Each expert has added error to his results by not following the actual criteria used in constructing the enacted map.

32. The following summarizes the actual criteria utilized by the legislature in constructing the enacted map:⁸

Equal Population. The Committees shall use the 2010 federal decennial census data as the sole basis of population for drawing legislative districts in the 2017 House and Senate plans. The number of persons in each legislative district shall comply with the +/- 5 percent population deviation standard established by *Stephenson v. Bartlett*, 355 N.C. 354, 562 S.E. 2d 377 (2002).

Contiguity. Legislative districts shall be comprised of contiguous territory. Contiguity by water is sufficient.

County Groupings and Traversals. The Committees shall draw legislative districts within county groupings as required by *Stephenson v. Bartlett*, 355 N.C. 354, 562 S.E. 2d 377 (2002) (*Stephenson I*), *Stephenson v. Bartlett*, 357 N.C. 301, 582 S.E.2d 247 (2003) (*Stephenson II*), *Dickson v. Rucho*, 367 N.C. 542, 766 S.E.2d 238 (2014) (*Dickson I*) and *Dickson v. Rucho*, 368 N.C. 481, 781 S.E.2d 460 (2015) (*Dickson II*). Within county groupings, county lines shall not be traversed except as authorized by *Stephenson I*, *Stephenson II*, *Dickson I*, and *Dickson II*.

Compactness. The Committees shall make reasonable efforts to draw legislative districts in the 2017 House and Senate plans that improve the compactness of the current districts. In doing so, the Committees may use as a guide the minimum Reock ("dispersion") and Polsby-Popper ("perimeter") scores identified by Richard H. Pildes and Richard G. Neimi in *Expressive Harms, "Bizarre Districts," and Voting Rights: Evaluating Election-District Appearances After Shaw v. Reno*, 92 Mich. L. Rev. 483 (1993).

Fewer Split Precincts. The Committees shall make reasonable efforts to draw legislative districts in the 2017 House and Senate plans that split fewer precincts than the current legislative redistricting plans.

Municipal Boundaries. The Committees may consider municipal boundaries when drawing legislative districts in the 2017 House and Senate plans.

Incumbency Protection. Reasonable efforts and political considerations may be used to avoid pairing incumbent members of the House or Senate with another incumbent in legislative districts drawn in the 2017 House and Senate plans. The

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⁸ Bates Number LDNC1883.

39. Dr. Chen's code for acceptance of a map states, "save this plan if it has the lowest t-score." The t-score is only a mathematically convenient criterion introduced by Dr. Chen to generate his maps.

40. In addition to including compactness to construct the t-score, Dr. Chen also included a measure for the splitting of precincts and municipalities as part of the score. The criteria established for the 2017 enacted plan do not state that the goal is to avoid the splitting of precincts and municipalities. Instead, the 2017 enacted plan was constructed to have fewer precinct splits than the prior plan in the districts that were to be redrawn and stated that municipal boundaries could be taken into consideration.

41. A t-score evaluation was not among the actual criteria relied upon for the creation of the 2017 enacted map. To create the t-score that he uses to evaluate a map, Dr. Chen subtracts the Reock and Polsby-Popper scores from 1.75. Dr. Chen does not explain why he decided to use 1.75, but were he to change the 1.75 to another number, he would derive a different t-score by which to evaluate each simulated map. As a consequence, Dr. Chen is able to influence the simulated maps that he accepts and rejects.

42. If Dr. Chen had applied the actual criteria utilized by those who constructed the enacted map, he presumably would have generated a different set of maps. The resulting maps would have been the more relevant simulations to compare to the enacted map to assess partisan bias. Dr. Chen's modification of the actual criteria results in making apples and oranges

¹⁴ See for example code from Dr. Chen's file, NCU BASE SET1.JAVA:

 $[\]label{eq:constraint} \begin{aligned} & double\ t_score = (1 + tmcdfrags-ALLmcds.size() + tvtdfrags-ALLvtds.size()) * (new\ Double(1.75) - reock-polsby); //lower\ is\ better \end{aligned}$

if(t score<low score){ low score=t score; Dpcts=makeCopy(districts, t Dpcts);

Dpops=(int[])t Dpops.clone(); } //save this plan if it has the lowest t_score

System.out.println("tctyfrags: "+tctyfrags+" tmcdfrags: "+tmcdfrags+" tvtdfrags: "+tvtdfrags+" reock:

[&]quot;+reock+" polsby: "+polsby+" t_score: "+t_score+" try: "+t);

System.out.println("======="); break; //System.exit(0);

two of the elections are considered. These data illustrate the relevance of the input data that is used to assess the simulations relative to the enacted map. While the average seat shift does not change for the Senate Democratic seats when the 10 elections are considered, the relevance of the input data is still pertinent as shown by the two elections for which Dr. Mattingly estimates neither an excess or shortfall in the number of Senate Democratic seats.

Table 7—Estimated Democratic House Seats Calculated by Dr. Mattingly When the Elections are Restricted to Those Considered by the Legislature

	Simulated	Enacted		Simulated	Enacted	
Election	Maps	Map	Difference	Maps	Map	Difference
USS10	36	39	-3	36	39	-3
GV12	39	43	-4	39	43	-4
LG16	43	42	1	43	42	1
USS16	43	42	1	43	42	1
PR12	46	43	3	46	43	3
USS14	47	45	2	47	45	2
PR16	48	45	3	48	45	3
PR08	49	44	5			
LG12	50	48	2	50	48	2
AG16	50	44	6	50	44	6
GV16	51	47	4	51	47	4
CI12	56	51	5			
LG08	63	56	7			
IC08	65	57	8			
GV08	66	62	4			
USS08	71	60	11			
AG08	94	92	2			
Overall	53.9	50.6	3.35	45.3	43.8	1.5

VI. Conclusion

93. None of the three Plaintiffs' experts apply the same criteria that were used to construct the enacted map. A researcher's choice of simulation criteria alone will influence the resulting simulations. Additionally, the outcome is influenced by the expert's choice of election



NORTH CAROLINA GENERAL ASSEMBLY

June 27, 2017

VIA HAND DELIVERY

Dr. Thomas Hofeller

Dear Dr. Hofeller:

We require your professional assistance. The General Assembly will be drawing new legislative redistricting maps to include both House and Senate districts pursuant to an order from a federal district court. Based on your knowledge and experience, we believe you are best qualified to produce such maps. Therefore, we offer to engage you to produce such maps for possible presentation to the House and Senate Redistricting Committees for their consideration and ultimate use by the General Assembly.

OUR OFFER OF ENGAGEMENT IS SUBJECT TO THE FOLLOWING TERMS:

- You will produce a map of 120 House districts and a map of 50 Senate districts in North Carolina that complies with criteria adopted by the House and Senate Redistricting Committees (the "Committees"). The maps you produce may be presented to the Committees, the General Assembly or any third party in the sole discretion of the Co-Chairs.
- As a legislative contractor and consultant, your work will be subject to legislative confidentiality as prescribed by Article 17 of Chapter 120 of the General Statutes. Your work may also be subject to the doctrine of legislative privilege as provided by the common law in North Carolina. By directive of the Committees, these protections will accrue to the benefit of the Co-Chairs of the Committees, and the Co-Chairs shall have the sole discretion to grant any request for their waiver. Finally, and notwithstanding the foregoing, all drafting and information requests to you and documents prepared by you concerning redistricting shall no longer be confidential and shall become public records upon the act establishing the relevant district plan becoming law.
- To allow us and you to better to predict the cost of this engagement, we are prepared to
 offer compensation to you in the form of a flat fee equal to \$50,000.00 payable upon

receipt by the Legislative Services Officer of an invoice from you for work performed and upon prior approval from the President Pro Tempore of the Senate and the Speaker of the House.

Should the terms of this engagement be acceptable to you, please indicate your acceptance in the space marked below. We appreciate your willingness to serve in this manner, and we look forward to working with you pursuant to the Committees' directive.

Sincerely,

Rep. David Lewis

Sen. Ralph Hise

2 Hu/4

Enclosures

Agreed and Accepted to by:

Dr. Thomas Hofeller

Date: June 27, 2617

Agreement Authorized and Approved:

Sen. Phil Berger

President Pro Tempore

Rep. Tim Moore

Speaker

From: Jones, Stanton

Sent: Tuesday, April 9, 2019 5:03 PM **To:** Strach, Phillip J.; John Branch

Cc: Cox, Paul; Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard;

Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; Denton Worrell; Nate Pencook;

Eddie Speas; Mackie, Caroline P.; zzz.External.AKhanna@perkinscoie.com;

melias@perkinscoie.com; Gersch, David P.; Theodore, Elisabeth; Jacobson, Daniel

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance **Attachments:** Index -- HIGHLY CONFIDENTIAL - ATTORNEYS EYES ONLY.zip

Phil:

Because Legislative Defendants and Intervenor Defendants have refused our proposed filtering approach, and because we are now awaiting the Court's resolution of this issue, we have not actually conducted the filtering. As such, we do not know the volume of data that will remain after filtering.

While we have not received an index for all the materials that were produced in response to the subpoena, we have received a partial index of file names and file paths for some of those materials. I've attached that partial index.

Please note that, because some of the file names and file paths in this partial index indicate personal sensitive information of Dr. Hofeller and his family, we have marked the index at HIGHLY CONFIDENTIAL / OUTSIDE ATTORNEYS' EYES ONLY pursuant to Paragraph 3 of the Consent Protective Order.

Regards, Stanton

From: Strach, Phillip J. [mailto:phil.strach@ogletree.com]

Sent: Thursday, April 04, 2019 11:39 AM **To:** Theodore, Elisabeth; John Branch

Cc: Jacobson, Daniel; Jones, Stanton; Cox, Paul; Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard; Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; Denton Worrell; Nate Pencook; Eddie Speas; Mackie,

Caroline P.; zzz.External.AKhanna@perkinscoie.com; melias@perkinscoie.com; Gersch, David P.

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Elisabeth:

As I've previously noted we oppose any filtering but we won't know when we can respond to your motion until we've seen it. In the meantime, please let us know how much data is in the non-filtered materials and also send us an index of the files.

Thanks.

Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Theodore, Elisabeth <elisabeth.theodore@arnoldporter.com> Sent: Thursday, April 04, 2019 10:13 AM To: John Branch <jbranch@shanahanlawgroup.com> Cc: Jacobson, Daniel <daniel.jacobson@arnoldporter.com>; Jones, Stanton <stanton.jones@arnoldporter.com>; Strach,</stanton.jones@arnoldporter.com></daniel.jacobson@arnoldporter.com></jbranch@shanahanlawgroup.com></elisabeth.theodore@arnoldporter.com>
Phillip J. <phil.strach@ogletreedeakins.com>; Cox, Paul <pcx@ncdoj.gov>; Brennan, Stephanie <sbrennan@ncdoj.gov>; McKnight, Michael D. <michael.mcknight@ogletreedeakins.com>; Braden, E. Mark <mbraden@bakerlaw.com>; Raile, Richard <rraile@bakerlaw.com>; Majmundar, Amar <amajmundar@ncdoj.gov>; Riggins, Alyssa <alyssa.riggins@ogletreedeakins.com>; Stanley, Trevor M. <tstanley@bakerlaw.com>; Denton Worrell <dworrell@shanahanmcdougal.com>; Nate Pencook <npencook@shanahanlawgroup.com>; Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P. <cmackie@poynerspruill.com>; AKhanna@perkinscoie.com; melias@perkinscoie.com; Gersch, David P. <david.gersch@arnoldporter.com> Subject: Re: Common Cause v. Lewis notice of subpoena compliance</david.gersch@arnoldporter.com></cmackie@poynerspruill.com></espeas@poynerspruill.com></npencook@shanahanlawgroup.com></dworrell@shanahanmcdougal.com></tstanley@bakerlaw.com></alyssa.riggins@ogletreedeakins.com></amajmundar@ncdoj.gov></rraile@bakerlaw.com></mbraden@bakerlaw.com></michael.mcknight@ogletreedeakins.com></sbrennan@ncdoj.gov></pcx@ncdoj.gov></phil.strach@ogletreedeakins.com>
John, apologies for the multiple emails. One amendment to my prior email Stroz has informed us that if the court does permit the filtering, then they could likely arrange it so that your vendor is present to observe the filtering process if that's what you want for comfort as to the process. As I mentioned, we will get the motion on file.
Best, Elisabeth
On Apr 4, 2019, at 9:29 AM, Theodore, Elisabeth < <u>Elisabeth.Theodore@arnoldporter.com</u> > wrote:
John, thanks for your response. We understand your position on the filtering, but as mentioned, this is something that we are going to bring to the court for resolution. It is apparent that much of this process will depend on the court's answer to whether we can filter, and therefore we believe it is most efficient to receive an answer from the court on that and then work out the mechanics of the copying process after. To clarify, though, if the court permits us to do the filtering, that would mean that our vendor would perform the filtering in its lab on its own, create a new image of just the non-filtered items, and then provide your vendor access to that new image.
Pursuant to the court's case management order, could you tell us by 2 pm today if you will respond to the motion regarding the filtering, how many days you would like to respond, and your availability for a hearing next week if the court decides to hold a hearing?
Best,
Elisabeth
On Apr 3, 2019, at 5:24 PM, John Branch < JBranch@shanahanlawgroup.com > wrote:
Dan,

Thanks for the information on the lack of objections and the date of

receipt.

The rule provides that we get access to what you all received, without filtering. I am not saying that there is no possible limitation at all on the use of the information, especially since I have not seen the content of the drives. However, to the extent that Plaintiffs received the drives we get to inspect and copy the entirety of what Plaintiffs have.

Also, let me know what potential costs you all are concerned about on your end. I'm not sure I understand where they will come from given that Plaintiffs would simply be making the drives available to our vendor to copy at Plaintiffs' vendor's location, but I could be missing something.

Best regards,

John

John E. Branch III | Partner

<image001.png>

128 E. Hargett Street | Third Floor Raleigh, NC 27601

Phone: (919) 856-9494

Email: jbranch@shanahanlawgroup.com

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From: Jacobson, Daniel < <u>Daniel.Jacobson@arnoldporter.com</u>>

Sent: Wednesday, April 3, 2019 12:33 PM

To: John Branch <JBranch@shanahanlawgroup.com>; Jones, Stanton

<<u>Stanton.Jones@arnoldporter.com</u>>; Strach, Phillip J. <<u>phil.strach@ogletree.com</u>>; Cox,

Paul <pcox@ncdoi.gov>

Cc: Brennan, Stephanie < Sbrennan@ncdoj.gov>; McKnight, Michael D.

<Michael.McKnight@ogletreedeakins.com>; Braden, E. Mark

<MBraden@bakerlaw.com>; Raile, Richard <rraile@bakerlaw.com>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Riggins, Alyssa <<u>Alyssa.Riggins@ogletreedeakins.com</u>>; Stanley, Trevor M. <<u>tstanley@bakerlaw.com</u>>; Denton Worrell
DWorrell@shanahanmcdougal.com; Nate Pencook
NPencook@shanahanlawgroup.com; Eddie Speas Speas@poynerspruill.com; Mackie, Caroline P. CMackie@poynerspruill.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; Gersch, David P. David.Gersch@arnoldporter.com; Theodore, Elisabeth Elisabeth.Theodore@arnoldporter.com>
Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

John,

Thanks for your response. With respect to the issue of copying, if we are understanding your email, you are asking for your vendor to go the office of our vendor (Stroz Friedberg) in Washington, DC, and make a copy of all of the hard drives and thumb drives on site yourself, without taking the originals of the drives. Is that correct? If so, we are amenable to that approach (subject to resolution of the separate issue of the medical and other personal files, discussed below), but that is different from what we interpreted Phil as proposing yesterday. If we went this route, we would pass on any costs that we and Stroz incur in facilitating this process. John and Phil, could you each let us know if this approach is acceptable to you? And Paul, if the Intervenor Defendants and Legislative Defendants are making their own copies on site at Stroz in DC, please let us know how the State Defendants would like to proceed.

John, your email does not address the issue of filtering out medical and sensitive personal information, without any party reviewing it or any further dissemination. Could you please let us know Intervenor-Defendants position on this issue? As for your other questions, we explained several emails down on this chain (on which you were copied) that we received the materials from Ms. Lizon on March 13. Per the attached, the subpoena to Ms. Lizon was issued on February 13, several weeks before the intervenors became parties to the case. Neither Ms. Lizon nor any party asserted any objections to the subpoena.

Bet, Dan

Daniel Jacobson
Senior Associate

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5602

<u>Daniel.Jacobson@arnoldporter.com</u> | <u>www.arnoldporter.com</u>

From: John Branch < JBranch@shanahanlawgroup.com>

Sent: Wednesday, April 3, 2019 11:37 AM

To: Jones, Stanton < Strach, Phillip J.

<phil.strach@ogletree.com>; Cox, Paul <pcox@ncdoj.gov>

Cc: Brennan, Stephanie < Sbrennan@ncdoj.gov>; McKnight, Michael D.

<<u>Michael.McKnight@ogletreedeakins.com</u>>; Braden, E. Mark

< MBraden@bakerlaw.com>; Raile, Richard < rraile@bakerlaw.com>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>;

Stanley, Trevor M. < tstanley@bakerlaw.com; Denton Worrell

<DWorrell@shanahanmcdougal.com>; Nate Pencook
<NPencook@shanahanlawgroup.com>; Eddie Speas <espeas@poynerspruill.com>;
Mackie, Caroline P. <CMackie@poynerspruill.com>;
zzz.External.AKhanna@perkinscoie.com <AKhanna@perkinscoie.com>;
melias@perkinscoie.com; Jacobson, Daniel <Daniel.Jacobson@arnoldporter.com>;
Gersch, David P. <David.Gersch@arnoldporter.com>; Theodore, Elisabeth
<Elisabeth.Theodore@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Stanton,

I don't think you are correct in your reading of Rule 45(d1). Under the rule, Defendants have an opportunity to both inspect and copy the hard drives and thumb drives you received. Rule 45(d1) states:

(d1) Opportunity for <u>Inspection</u> of Subpoenaed Material. - A party or attorney responsible for the issuance and service of a subpoena shall, within five business days after the receipt of material produced in compliance with the subpoena, serve all other parties with notice of receipt of the material produced in compliance with the subpoena and, upon request, shall provide all other parties a reasonable opportunity to <u>copy and inspect</u> such material at the expense of the inspecting party.

(emphasis added). Thus, under Rule 45(d1), Defendants have an opportunity to both inspect and make copies of the materials you have received. Plaintiffs must provide such an opportunity to Defendants. Inspection of the drives Plaintiffs received pursuant to the subpoena is expressly provided for under Rule 45(d1), and Defendants are well within their rights to both ask to inspect the drives and make their own copies of them. This is only logical – it would be inherently unfair for any party to receive items and information pursuant to a subpoena but then not make them available to all parties in the litigation.

Intervenor-Defendants are hereby exercising their right for a reasonable opportunity to inspect and copy the four hard drives and eighteen thumb drives produced by Ms. Lizon. We request either that you provide the original hardware that you received to our vendor for copying or that you allow our vendor to copy the hardware on site.

In addition, while it is possible I was not copied on earlier emails due to our later entry in the case, it is unclear to me when Ms. Lizon provided the drives to Plaintiffs, how they were sent to you all, and whether she asserted any objections or other rights in responding to the subpoena or searching for responsive documents. Accordingly, please provide us with any correspondence exchanged between Plaintiffs' counsel and Ms. Lizon regarding the subpoena and identify the date or dates on which Plaintiffs received the four hard drives and eighteen thumbdrives produced in response to the subpoena.

Best regards,

John Branch

John E. Branch III | Partner

<image001.png>

128 E. Hargett Street | Suite 300 Raleigh, NC 27601

Phone: (919) 856-9494

Email: jbranch@shanahanlawgroup.com

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From: Jones, Stanton [mailto:Stanton.Jones@arnoldporter.com]

Sent: Wednesday, April 03, 2019 8:59 AM

To: Strach, Phillip J. <phil.strach@ogletree.com>; Cox, Paul <pcox@ncdoj.gov>

Cc: Brennan, Stephanie < <u>Sbrennan@ncdoj.gov</u>>; McKnight, Michael D.

< <u>Michael.McKnight@ogletreedeakins.com</u> >; Braden, E. Mark

<MBraden@bakerlaw.com>; Raile, Richard <rraile@bakerlaw.com>; Majmundar, Amar

<amajmundar@ncdoj.gov>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>;

Stanley, Trevor M. < tstanley@bakerlaw.com; John Branch

<JBranch@shanahanlawgroup.com>; Denton Worrell

<DWorrell@shanahanmcdougal.com>; Nate Pencook

<<u>NPencook@shanahanlawgroup.com</u>>; Eddie Speas <<u>espeas@poynerspruill.com</u>>;

Mackie, Caroline P. < CMackie@poynerspruill.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; Jacobson, Daniel.Jacobson@arnoldporter.com; melias@perkinscoie.com; Jacobson, Daniel.Jacobson@arnoldporter.com;

Gersch, David P. < David.Gersch@arnoldporter.com>; Theodore, Elisabeth

<Elisabeth.Theodore@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Phil, if I'm understanding your email correctly, you are asking us to give you the originals of the media (i.e., the original hard drives and thumb drives we received from Ms. Lizon). Please let us know if that's not what you are requesting, but if it is, that is not something we are under any obligation to do. If you have authority to the contrary, please let us know. We believe our obligation is to provide you with copies of the materials we received in response to the subpoena, and the most straightforward way to do that if for our vendor to make forensically sound copies and send them to you or

your vendor. Indeed, we note that this is exactly the procedure you are following with respect to our request to copy and inspect the General Assembly computer purportedly used to create the 2017 plans.

With respect to filtering out sensitive personal information, we intend to go to the court on that. We will file a motion with the court requesting permission to follow the approach we have proposed, but if the court does not authorize such and instead orders us to provide you complete copies of everything on the media, including the sensitive and irrelevant personal information, we will of course comply with the court order.

We would like to make our motion swiftly to facilitate the provision of this material to you and to the State Defendants as quickly as possible; we would have made the motion last week, when we first proposed the filtering process, if we had received your response at that time. We asked you yesterday to advise us of when you would like to file a response to our motion, and when you are available for a telephonic hearing, but have not heard back on those questions. Please let me know by 2pm today when you would like to file a response, and when you are available for a hearing. We can be available Monday or Tuesday of next week.

Regards, Stanton

From: Strach, Phillip J. [mailto:phil.strach@ogletree.com]

Sent: Tuesday, April 02, 2019 5:30 PM

To: Jones, Stanton; Cox, Paul

Cc: Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard;

Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; John Branch;

<u>dworrell@shanahanmcdougal.com</u>; Nate Pencook; Eddie Speas; Mackie, Caroline P.; <u>zzz.External.AKhanna@perkinscoie.com</u>; melias@perkinscoie.com; Jacobson, Daniel;

Gersch, David P.; Theodore, Elisabeth

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Stanton,

The Rules require plaintiffs to allow us a "reasonable opportunity to copy and inspect such material at the expense of the inspecting party." We will of course bear the expense of any copy we make for our own use. We can provide you the name and address of our vendor to which the files can be sent to make our copy. In the alternative, we can have the vendor go to your site to retrieve the materials. We do not have any other cost-sharing obligations beyond that based on the plain text of the rule. The Rule also does not provide for a party filtering the data it received from a subpoena prior to making it available for inspection and copying. There is no basis for your refusal to allow us to inspect and copy all of the material as the Rule allows. Please confirm that you will allow us to make this inspection and copying and we will immediately provide you with instructions for shipping the materials to our vendor for copying (or alternatively make arrangements to retrieve the materials).

Thanks.

Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C. 4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax:

From: Jones, Stanton < Stanton.Jones@arnoldporter.com>

Sent: Tuesday, April 02, 2019 9:52 AM

To: Strach, Phillip J. <Phil.Strach@ogletreedeakins.com>; Cox, Paul <pcox@ncdoj.gov>

Cc: Brennan, Stephanie < Sbrennan@ncdoj.gov>; McKnight, Michael D.

<Michael.McKnight@ogletreedeakins.com>; Braden, E. Mark

< MBraden@bakerlaw.com >; Raile, Richard < rraile@bakerlaw.com >; Majmundar, Amar

<amajmundar@ncdoj.gov>; Riggins, Alyssa <Alyssa.Riggins@ogletreedeakins.com>;

Stanley, Trevor M. < tstanley@bakerlaw.com; John Branch

<JBranch@shanahanmcdougal.com>; dworrell@shanahanmcdougal.com; Nate Pencook

<<u>NPencook@shanahanmcdougal.com</u>>; Eddie Speas <<u>espeas@poynerspruill.com</u>>;

Mackie, Caroline P. < CMackie@poynerspruill.com">CMackie@poynerspruill.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; melias@perkinscoie.com; melias@perkinscoie.com; melias@perkinscoie.com; melias@perkinscoie.com; akhanna@perkinscoie.com; melias@perkinscoie.com; akhanna@perkinscoie.com; akhanna@perkinscoie.com

Gersch, David P. < <u>David.Gersch@arnoldporter.com</u>>; Theodore, Elisabeth

<Elisabeth.Theodore@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Phil, your email below raises two issues.

First, on the issue of cost, Rule 45(d1) of the North Carolina Rules of Civil Procedure expressly states that our obligation is to copy and provide the materials we received in response to our subpoena "at the expense of the inspecting party." To my knowledge, we have no obligation to copy and provide these materials unless and until you (and others who have requested copies) agree to bear the expense. If you have a different understanding, please provide authority for it. Alternatively, let us know if legislative defendants agree to bear the expense per Elisabeth's email below. Note that state defendants have already agreed to split the quoted expense with legislative defendants.

Second, on the issue of medical and other apparently sensitive personal information, we fail to see how it is in anyone's interest to copy and disseminate such information, which obviously has no bearing on this case but raises serious privacy concerns. We would be happy to send you a list of the keywords we would use to search file and folder names for materials we would segregate out and not review or disseminate.

Please let us know by 6:30pm ET today whether legislative defendants will revisit their position on both issues and agree to our approach. If you do not consent to this approach, we will file a motion seeking clarification as to the cost issue and the court's approval to follow our approach on the second issue. Pursuant to the March 13 Case Management Order, please let us know by 6:30pm ET today when you would like to file a response to our motion and also your availability for a hearing on the motion early next week.

Regards, Stanton

From: Strach, Phillip J. [mailto:phil.strach@ogletree.com]

Sent: Monday, April 01, 2019 9:05 PM

To: Cox, Paul; Theodore, Elisabeth; Jones, Stanton

Cc: Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard;

Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; John Branch; dworrell@shanahanmcdougal.com; Nate Pencook; Eddie Speas; Mackie, Caroline P.; zzz.External.AKhanna@perkinscoie.com; melias@perkinscoie.com; Jacobson, Daniel; Gersch, David P.

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Elisabeth: we do not agree with the proposed process or the splitting of the costs. We believe plaintiffs should comply with the North Carolina Rules of Civil Procedure and produce to us all of the subpoenaed files, without filtering. We are capable of protecting the confidentiality of the materials. Cost-shifting can occur after the final judgment in the case. Please produce these files immediately. Thanks. Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412

phil.strach@ogletree.com | www.ogletree.com | Bio

From: Cox, Paul pcox@ncdoj.gov>
Sent: Monday, April 01, 2019 12:10 PM

To: Theodore, Elisabeth <<u>Elisabeth.Theodore@arnoldporter.com</u>>; Jones, Stanton

<Stanton.Jones@arnoldporter.com>; Strach, Phillip J.

<Phil.Strach@ogletreedeakins.com>

Cc: Brennan, Stephanie < Sbrennan@ncdoj.gov>; McKnight, Michael D.

< <u>Michael.McKnight@ogletreedeakins.com</u> >; Braden, E. Mark

< MBraden@bakerlaw.com >; Raile, Richard < rraile@bakerlaw.com >; Majmundar, Amar

<amajmundar@ncdoj.gov>; Riggins, Alyssa <<u>Alyssa.Riggins@ogletreedeakins.com</u>>;

Stanley, Trevor M. <tstanley@bakerlaw.com>; John Branch

<JBranch@shanahanmcdougal.com>; dworrell@shanahanmcdougal.com; Nate Pencook

<<u>NPencook@shanahanmcdougal.com</u>>; Eddie Speas <<u>espeas@poynerspruill.com</u>>;

Mackie, Caroline P. < CMackie@poynerspruill.com">CMackie@poynerspruill.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; Jacobson, Daniel < Daniel.Jacobson@arnoldporter.com; com; Jacobson@arnoldporter.com; jacobson@arnoldporter.com; jacobson@arnoldporter.com; jacobson@arnoldporter.com; jacobson@arnoldporter.com;

Gersch, David P. < David. Gersch@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Elisabeth,

Thank you for this additional info and clarification.

The State Defendants would be willing to split with the Legislative Defendants the quoted cost for a copy of the materials.

Paul

<image002.jpg> Paul M. Cox

Special Deputy Attorney General

Phone: (919)716-6932 pcox@ncdoi.gov

44444 5 L C D

114 W. Edenton St., Raleigh, NC 27603

Please note messages to or from this address may be public records.

From: Theodore, Elisabeth < Elisabeth.Theodore@arnoldporter.com>

Sent: Thursday, March 28, 2019 3:45 PM

To: Cox, Paul pcox@ncdoj.gov>; Jones, Stanton <Stanton.Jones@arnoldporter.com>;

Strach, Phillip J. <phil.strach@ogletree.com>

Cc: Brennan, Stephanie <Sbrennan@ncdoj.gov>; McKnight, Michael D.

<Michael.McKnight@ogletreedeakins.com>; Braden, E. Mark

< MBraden@bakerlaw.com >; Raile, Richard < rraile@bakerlaw.com >; Majmundar, Amar

<a href="mailto:

<a href="mailto

Stanley, Trevor M. < tstanley@bakerlaw.com; John Branch

<<u>JBranch@shanahanmcdougal.com</u>>; <u>dworrell@shanahanmcdougal.com</u>; Nate Pencook

<NPencook@shanahanmcdougal.com>; Eddie Speas <espeas@poynerspruill.com>;

Mackie, Caroline P. < CMackie@poynerspruill.com">CMackie@poynerspruill.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; AKhanna@perkinscoie.com; melias@perkinscoie.com; Meliasa@perkinscoie.com; melasa@perkinscoie.com; <a href="mailto:melasa@perkins

Gersch, David P. < David.Gersch@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Hi Paul,

We've now received the cost estimate from our vendor, which is \$3500 to \$4000 total for creating two copies (one for the State Defendants and one for the Legislative Defendants). That does not include the cost of processing the data or performing the keyword searching to filter out sensitive documents as described in the prior email; it is just the cost of creating physical images of each of the 22 external drives after the filtering is complete. The cost of the copying is driven largely by the size of the materials and the cost of creating images of physical drives. The size of the materials makes it infeasible to send via FTP. Let us know if you would like to discuss this further.

Legislative Defendants – please let us know whether you agree to the process we have proposed and to splitting the cost, or if you would like to discuss.

Best, Elisabeth

From: Cox, Paul [mailto:pcox@ncdoj.gov]
Sent: Thursday, March 28, 2019 10:01 AM

To: Theodore, Elisabeth; Jones, Stanton; Strach, Phillip J.

Cc: Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard;

Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; John Branch;

<u>dworrell@shanahanmcdougal.com</u>; Nate Pencook; Eddie Speas; Mackie, Caroline P.; <u>zzz.External.AKhanna@perkinscoie.com</u>; <u>melias@perkinscoie.com</u>; Jacobson, Daniel; Correll David P.

Gersch, David P.

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Hi Elisabeth,

This plan seems reasonable to the State Defendants. We're really only interested in having a copy of whatever information that the plaintiffs retain from the subpoena. Once you decide what you believe is properly the subject of discovery, we can send you an FTP link or work out some other means of transferring the files. We

can agree to treat all of the documents as confidential when so designated. I'm not sure what cost would be involved in transferring a copy of the files that you are already processing for your own purposes. We're happy to discuss to better understand.

Paul

<image002.jpg> Paul M. Cox

Special Deputy Attorney General Phone: (919)716-6932 pcox@ncdoj.gov

114 W. Edenton St., Raleigh, NC 27603

Please note messages to or from this address may be public records.

From: Theodore, Elisabeth < <u>Elisabeth.Theodore@arnoldporter.com</u> >

Sent: Wednesday, March 27, 2019 5:27 PM

To: Jones, Stanton < Strach, Phillip J.

<phil.strach@ogletree.com>

Cc: Brennan, Stephanie < Sbrennan@ncdoj.gov>; McKnight, Michael D.

< <u>Michael.McKnight@ogletreedeakins.com</u> >; Braden, E. Mark

<MBraden@bakerlaw.com>; Raile, Richard <rraile@bakerlaw.com>; Majmundar, Amar

<a href="mailto: ; Riggins, Alyssa ; amajmundar@ncdoj.gov; Riggins, Alyssa ; amajmundar@ncdoj.gov; Riggins, Alyssa Alyssa.Riggins@ogletreedeakins.com;

Stanley, Trevor M. < tstanley@bakerlaw.com>; John Branch

<<u>JBranch@shanahanmcdougal.com</u>>; <u>dworrell@shanahanmcdougal.com</u>; <u>Nate Pencook</u>

<NPencook@shanahanmcdougal.com>; Cox, Paul <pcox@ncdoj.gov>; Eddie Speas

<espeas@poynerspruill.com>; Mackie, Caroline P. <CMackie@poynerspruill.com>;

AKhanna@perkinscoie.com; melias@perkinscoie.com; Jacobson, Daniel

<<u>Daniel.Jacobson@arnoldporter.com</u>>; Gersch, David P.

<David.Gersch@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Counsel:

In the course of our vendor's processing of the materials we received in response to our subpoena of Ms. Lizon, it has become apparent from the file and folder names that those materials may include personal information, such as tax returns and medical and family information. We have not opened any of these files and will not do so. Because the files at issue appear from their names to be sensitive, personal, and plainly irrelevant to the litigation, we do not believe that it would be appropriate or in the interest of any party to further disseminate these files. In light of Legislative Defendants' and State Defendants' requests for copies of the materials, we would propose the following approach.

First, our vendor Stroz would search for keywords in file and folder names that would indicate that the underlying document contains personal information, such as "tax," "medical," and the names of Dr. Hofeller's family. Our vendor would then pull out these personal files and then make a copy of everything that remains, and provide you with that copy.

Second, because the keyword search may be underinclusive, when we provide you with the remaining materials, we will designate all sensitive personal information that may remain, including personal financial, family, and health information, as confidential pursuant to the parties' forthcoming protective order.

Third, with respect to documents that were identified by the keyword search, we will provide Ms. Lizon with the option of having them returned to her. Again, we would not look at any document received in response to the subpoena to Ms. Lizon unless we are also providing that document to the other parties who have requested copies of the materials.

If this approach sounds acceptable to you, we can obtain a cost estimate. Please let us know if you would like to discuss this further.

Best, Elisabeth

Elisabeth S. Theodore

Arnold & Porter
601 Massachusetts Ave., NW
Washington | District of Columbia 20001-3743
T: +1 202.942.5891

Elisabeth.Theodore@arnoldporter.com | www.arnoldporter.com

From: Jones, Stanton

Sent: Tuesday, March 26, 2019 2:57 PM

To: Strach, Phillip J.

Cc: Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard;

Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; John Branch;

<u>dworrell@shanahanmcdougal.com</u>; Nate Pencook; Cox, Paul; Eddie Speas; Mackie, Caroline P.; <u>zzz.External.AKhanna@perkinscoie.com</u>; <u>melias@perkinscoie.com</u>; Theodore,

Elisabeth; Jacobson, Daniel; Gersch, David P.

Subject: Re: Common Cause v. Lewis -- notice of subpoena compliance

Phil:

We received the electronic media on Wednesday, March 13, and provided them to the vendor the same day.

The vendor is Stroz Friedberg.

I'm not aware of any obligation to consult you on which vendor we'd use to process materials we received in response to our subpoena. We aren't asking legislative defendants to share the cost of processing the materials, only the cost of providing a copy to you, per Rule 45. Certainly let me know if you have a different understanding.

The vendor is still processing the materials.

We are inquiring with the vendor about the cost, logistics, and timing of providing you a copy. Same for the state defendants who also have requested a copy. We will let you know as soon as we have this information.

Regards, Stanton

Sent from my iPhone

On Mar 26, 2019, at 10:11 AM, Strach, Phillip J. <phil.strach@ogletree.com> wrote:

Stanton: Thanks. Please let us know the date the media was received by plaintiffs, when plaintiffs sent them off to be processed, and which entity is being used to process the media. I note for now that we were not asked for our input on which entity to use or provided any information about possible costs prior to sending the data to be processed. Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C. 4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 | phil.strach@ogletree.com | www.ogletree.com | Bio

From: Jones, Stanton <Stanton.Jones@arnoldporter.com>

Sent: Tuesday, March 26, 2019 10:02 AM

To: Strach, Phillip J. < Phillip J. Phillip J. Strach@ogletreedeakins.com

Stephanie < Stephanie < Stephanie < Stephanie < Strennan@ncdoj.gov>; McKnight, Michael D.

<Michael.McKnight@ogletreedeakins.com>; Braden, E. Mark

<<u>MBraden@bakerlaw.com</u>>; Raile, Richard <<u>rraile@bakerlaw.com</u>>;

Majmundar, Amar amajmundar@ncdoj.gov>; Riggins, Alyssa

<Alyssa.Riggins@ogletreedeakins.com>; Stanley, Trevor M.

<tstanley@bakerlaw.com>; John Branch

<JBranch@shanahanmcdougal.com>;

dworrell@shanahanmcdougal.com; Nate Pencook

<NPencook@shanahanmcdougal.com>; Cox, Paul <pcox@ncdoj.gov>

Cc: Eddie Speas <<u>espeas@poynerspruill.com</u>>; Mackie, Caroline P.

<CMackie@poynerspruill.com>; AKhanna@perkinscoie.com;

melias@perkinscoie.com; Theodore, Elisabeth

<Elisabeth.Theodore@arnoldporter.com>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>; Gersch, David P.

<David.Gersch@arnoldporter.com>

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Phil, the items we received were all electronic media, namely four external hard drives and 18 thumb drives. We are having them processed and will let you know when we have them in a form that can be shared, as well as the cost of sharing under Rule 45.

Regards, Stanton From: Strach, Phillip J. [mailto:phil.strach@ogletree.com]

Sent: Tuesday, March 26, 2019 9:54 AM

To: Jones, Stanton; Brennan, Stephanie; McKnight, Michael D.; Braden, E. Mark; Raile, Richard; Majmundar, Amar; Riggins, Alyssa; Stanley, Trevor M.; John Branch; dworrell@shanahanmcdougal.com; Nate

Pencook; Cox, Paul

Cc: Eddie Speas; Mackie, Caroline P.;

zzz.External.AKhanna@perkinscoie.com; melias@perkinscoie.com;

Theodore, Elisabeth; Jacobson, Daniel; Gersch, David P.

Subject: RE: Common Cause v. Lewis -- notice of subpoena compliance

Stanton:

Thanks for this notice. Please send us a copy of the materials received today.

Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C. 4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Jones, Stanton < <u>Stanton.Jones@arnoldporter.com</u>>

Sent: Wednesday, March 20, 2019 9:12 PM

To: Brennan, Stephanie <<u>Sbrennan@ncdoj.gov</u>>; McKnight, Michael D.

< <u>Michael.McKnight@ogletreedeakins.com</u>>; Strach, Phillip J.

<Phil.Strach@ogletreedeakins.com>; Braden, E. Mark

<<u>MBraden@bakerlaw.com</u>>; Raile, Richard <<u>rraile@bakerlaw.com</u>>;

Majmundar, Amar amajmundar@ncdoj.gov>; Riggins, Alyssa

<Alyssa.Riggins@ogletreedeakins.com>; Stanley, Trevor M.

<tstanley@bakerlaw.com>; John Branch

<JBranch@shanahanmcdougal.com>;

dworrell@shanahanmcdougal.com; Nate Pencook

<NPencook@shanahanmcdougal.com>; Cox, Paul <pcox@ncdoj.gov>

Cc: Eddie Speas <espeas@poynerspruill.com>; Mackie, Caroline P.

<CMackie@poynerspruill.com>; AKhanna@perkinscoie.com;

melias@perkinscoie.com; Theodore, Elisabeth

<<u>Elisabeth.Theodore@arnoldporter.com</u>>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>; Gersch, David P.

<David.Gersch@arnoldporter.com>

Subject: Common Cause v. Lewis -- notice of subpoena compliance

Counsel:

Pursuant to N.C. R. Civ. P. 45, I write to give notice that we recently received materials in compliance with our February 13 subpoena to Stephanie Hofeller Lizon.

Regards, Stanton

R. Stanton Jones

Arnold & Porter

601 Massachusetts Ave., NW | Washington | DC 20001-3743 T: +1 202.942.5563 | F: +1 202.942.5999

stanton.jones@arnoldporter.com | www.arnoldporter.com

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EXHIBIT 17

From: Jones, Stanton

Sent: Thursday, April 18, 2019 4:53 PM **To:** Strach, Phillip J.; John Branch; Cox, Paul

Cc: Brennan, Stephanie; McKnight, Michael D.; Majmundar, Amar;

zzz.External.AKhanna@perkinscoie.com; Braden, E. Mark; Nate Pencook; Riggins, Alyssa; Stanley, Trevor M.; Raile, Richard; melias@perkinscoie.com; Hill, Linda; Theodore, Elisabeth; Jacobson, Daniel; Speas, Edwin M.; Mackie, Caroline P.; Christine McCaffrey

Subject: RE: Common Cause v. Lewis, 18 CVS 14001 -- Plaintiffs' Motion for Clarification Pursuant

to Rule 45

Phil, John, and Paul:

I'm writing to follow up on our earlier email exchange regarding the materials we received in response to our subpoena to Stephanie Hofeller. As you know, our motion for clarification regarding potential filtering of personal sensitive information is pending with the Court. In the meantime, we want to again give you the opportunity to receive the materials that we do not propose to filter, as there is no dispute regarding those materials.

Here is what we propose: We will have Stroz go ahead and filter the personal sensitive materials as proposed in our motion for clarification, namely by removing the 1,001 files identified in the spreadsheet I previously sent you. Then, either (1) Stroz can make and mail you a copy of the post-filtering materials, or (2) you can send someone to Stroz's office in DC to create your own copy onsite there. If you prefer the former (i.e., having Stroz create and mail you a copy, and the Court later approves the proposed filtering process, you will pay the cost only of creating the copy and mailing it to you (for which we previously sent you an estimate), not any cost associated with the filtering itself. If the Court later disapproves the proposed filtering process, you will not be responsible for any costs associated with this interim process.

Let us know how you'd like to proceed.

Stanton

Stanton Jones
Partner

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5563

<u>Stanton.Jones@arnoldporter.com</u> | www.arnoldporter.com

From: Jones, Stanton <Stanton.Jones@arnoldporter.com>

Sent: Friday, April 12, 2019 11:50 AM

To: Strach, Phillip J. <phil.strach@ogletree.com>; John Branch <JBranch@shanahanlawgroup.com>

Cc: Brennan, Stephanie <Sbrennan@ncdoj.gov>; McKnight, Michael D. <Michael.McKnight@ogletreedeakins.com>; Majmundar, Amar <amajmundar@ncdoj.gov>; zzz.External.AKhanna@perkinscoie.com <AKhanna@perkinscoie.com>;

Braden, E. Mark < MBraden@bakerlaw.com>; Nate Pencook < NPencook@shanahanlawgroup.com>; Cox, Paul < pcox@ncdoj.gov>; Riggins, Alyssa < Alyssa.Riggins@ogletreedeakins.com>; Stanley, Trevor M.

<tstanley@bakerlaw.com>; Raile, Richard <rraile@bakerlaw.com>; melias@perkinscoie.com; Hill, Linda

<LHill@poynerspruill.com>; Theodore, Elisabeth <Elisabeth.Theodore@arnoldporter.com>; Jacobson, Daniel

<Daniel.Jacobson@arnoldporter.com>; Speas, Edwin M. <ESpeas@poynerspruill.com>; Mackie, Caroline P.

<CMackie@poynerspruill.com>; Christine McCaffrey <CMcCaffrey@shanahanlawgroup.com> **Subject:** RE: Common Cause v. Lewis, 18 CVS 14001 -- Plaintiffs' Motion for Clarification Pursuant to Rule 45

Phil:

These are the search terms we used to generate the list of file names and file paths we sent you yesterday:

Lizon!

Tax!

(401-K)!

Steph!

Kath!

Medic!

Prescription!

Doctor!

Surgery!

Glucose!

Cancer!

Blood!

Trust!

W-9!

Guardian!

Patient!

Hospital!

Mojko!

Mojmir!

HIPA!

Police!

Vaccination!

Wife!

Parent!

Passport!

Bank!

Daughter!

Investment!

Following your latest e-mail below, we have added the terms "IRA," "IRS," variations of "401-k" based on removing the hyphen and making the k capitalized or not, and "Hartsbough." This search produced 32 additional files that we propose to filter out. Attached is an updated spreadsheet with the complete list of files we propose to filter, with the 32 new ones added at the end. If you have other terms indicative of sensitive personal information that you think we should search, please let us know. As we've said previously, our only objective here is to remove sensitive personal information so that no one sees it, including us. And we realize that the keyword search process may be underinclusive, which is we why we would designate any sensitive personal information that is not picked up by the keyword searches as Highly Confidential under the Consent Protective Order.

Beyond that, your characterization that the external electronic media included files that are "nonresponsive" to the subpoena, including about Dr. Hofeller's work in other states, is irrelevant and wrong. As Intervenor Defendants noted yesterday in their brief, all of the external electronic media we received are responsive to our subpoena, which requested "storage devices" containing relevant ESI. Neither the subpoena recipient nor any party lodged any objection to any aspect of the subpoena.

Regards,

Stanton

From: Strach, Phillip J. [mailto:phil.strach@ogletree.com]

Sent: Friday, April 12, 2019 10:55 AM

To: Jacobson, Daniel; Jones, Stanton; John Branch

Cc: Brennan, Stephanie; McKnight, Michael D.; Majmundar, Amar; zzz.External.AKhanna@perkinscoie.com; Braden, E. Mark; Nate Pencook; Cox, Paul; Riggins, Alyssa; Stanley, Trevor M.; Raile, Richard; melias@perkinscoie.com; Hill, Linda;

Theodore, Elisabeth; Speas, Edwin M.; Mackie, Caroline P.; Christine McCaffrey

Subject: RE: Common Cause v. Lewis, 18 CVS 14001 -- Plaintiffs' Motion for Clarification Pursuant to Rule 45

Dan:

We are not sure how the filtering was done but it appears to have removed only 1.2% of the documents from the index, a far lower amount of personal files than Plaintiffs have led us to believe exist in the data Ms. Lizon produced. Personal information clearly remains on the index. For instance, the very last line in the Index is a document called "\$loans to Chris Hartsough" and it is not marked on the files to filter. However, other pictures/documents involving Chris Hartsough were filtered out. We did another quick search for terms that would include sensitive information like "401k" or "IRA" and came up with many documents not included in the filtered list. Just two examples are document 23269 ("401K Deposit Wire 3-31-2014") and 23262 ("SEP IRA plus 401k RMD Worksheet"). This does not even begin to cover the many files on the index that are clearly nonresponsive to Plaintiffs' subpoena, such as files dealing with issues in other states. A filtering approach is clearly not going to be sufficient to remove personal and nonresponsive files to protect Dr. Hofeller's privacy, which is why we have proposed approaches that are designed to ensure all such files are removed and returned or destroyed.

Phil

Phillip J. Strach | Ogletree, Deakins, Nash, Smoak & Stewart, P.C.

4208 Six Forks Road, Suite 1100 | Raleigh, NC 27609 | Telephone: 919-789-3179 | Fax: 919-783-9412 phil.strach@ogletree.com | www.ogletree.com | Bio

From: Jacobson, Daniel < Daniel. Jacobson@arnoldporter.com >

Sent: Thursday, April 11, 2019 10:01 PM

To: Jones, Stanton < Strach, Phillip J. < Phillip J. < Phillip J. < <a href="mailto:Phillip J. <a href="mailto:Phi

Cc: Brennan, Stephanie < <u>Sbrennan@ncdoj.gov</u>>; McKnight, Michael D. < <u>Michael.McKnight@ogletreedeakins.com</u>>; Majmundar, Amar < amajmundar@ncdoj.gov>; AKhanna@perkinscoje.com; Braden, E. Mark

<<u>MBraden@bakerlaw.com</u>>; Nate Pencook <<u>NPencook@shanahanlawgroup.com</u>>; Cox, Paul <<u>pcox@ncdoj.gov</u>>; Riggins, Alyssa <<u>Alyssa.Riggins@ogletreedeakins.com</u>>; Stanley, Trevor M. <<u>tstanley@bakerlaw.com</u>>; Raile, Richard

<<u>rraile@bakerlaw.com</u>>; <u>melias@perkinscoie.com</u>; Hill, Linda <<u>LHill@poynerspruill.com</u>>; Theodore, Elisabeth
<<u>Elisabeth.Theodore@arnoldporter.com</u>>; Speas, Edwin M. <<u>ESpeas@poynerspruill.com</u>>; Mackie, Caroline P.

<CMackie@poynerspruill.com>

Subject: RE: Common Cause v. Lewis, 18 CVS 14001 -- Plaintiffs' Motion for Clarification Pursuant to Rule 45

Phil and John,

Following up on Stanton's email below, to make things as easy as possible, we went ahead and created the list of file names / file paths that our vendor would filter out. That list is attached (Plaintiffs designate this list as Highly Confidential pursuant to the protective order). Please let us know by 12PM tomorrow (Friday) if you agree to our proposal below, based on the attached list of files names / paths.

Best,

Dan

Daniel Jacobson Senior Associate

Arnold & Porter 601 Massachusetts Ave., NW Washington | District of Columbia 20001-3743 T: +1 202.942.5602

Daniel.Jacobson@arnoldporter.com | www.arnoldporter.com

From: Jones, Stanton <Stanton.Jones@arnoldporter.com>

Sent: Thursday, April 11, 2019 6:13 PM

To: Strach, Phillip J. <phil.strach@ogletree.com>; John Branch <JBranch@shanahanlawgroup.com>

Cc: Brennan, Stephanie < Sbrennan@ncdoj.gov; McKnight, Michael D. < McKnight@ogletreedeakins.com; Majmundar, Amar < Akhanna@perkinscoie.com < Akhanna@perkinscoie.com < Khanna@perkinscoie.com < Khanna@perkinscoie.com < McKnight@ogletreedeakins.com < Khanna@perkinscoie.com Khanna@perkinscoie.

Braden, E. Mark < MBraden@bakerlaw.com>; Nate Pencook < MPencook@shanahanlawgroup.com>; Cox, Paul

<pcox@ncdoj.gov>; Riggins, Alyssa <<u>Alyssa.Riggins@ogletreedeakins.com</u>>; Stanley, Trevor M.

< tstanley@bakerlaw.com >; Raile, Richard < rraile@bakerlaw.com >; melias@perkinscoie.com; Hill, Linda

<LHill@poynerspruill.com>; Jacobson, Daniel <Daniel.Jacobson@arnoldporter.com>; Theodore, Elisabeth

<<u>Elisabeth.Theodore@arnoldporter.com</u>>; Speas, Edwin M. <<u>ESpeas@poynerspruill.com</u>>; Mackie, Caroline P.

<CMackie@poynerspruill.com>

Subject: RE: Common Cause v. Lewis, 18 CVS 14001 -- Plaintiffs' Motion for Clarification Pursuant to Rule 45

Phil and John:

I'm taking off Ms. Myers and Mr. Steele. Per the third approach to the sensitive subpoena materials proposed by Legislative Defendants, would Legislative Defendants and Intervenor Defendants agree to the following procedures: We will send you a list of all the file names and file paths we propose to filter out on the basis of confidentiality concerns, along with a list of the search terms used to generate that list. If you believe any of the files on the list should not be filtered and should instead be provided to you, you can tell us and we can confer and seek the court's intervention only as needed with respect to specific documents. We doubt there will be any disagreement given the nature of the file names and file paths that will be filtered, e.g., documents named "tax return" or "medications."

If you both agree to this approach, we will create and send you the list and the search terms, and we can all jointly advise the Court that we've resolved this dispute consensually.

Please let us know by 12pm ET tomorrow whether you agree.

Regards, Stanton

From: Strach, Phillip J. [mailto:phil.strach@ogletree.com]

Sent: Thursday, April 11, 2019 5:17 PM

To: Nate Pencook; Cox, Paul; Riggins, Alyssa; Jacobson, Daniel; Mackie, Caroline P.; Stanley, Trevor M.; Myers, Kellie Z.; Steele, Adam H.

Cc: Jones, Stanton; Theodore, Elisabeth; Brennan, Stephanie; McKnight, Michael D.; Majmundar, Amar; Speas, Edwin M.; zzz.External.AKhanna@perkinscoie.com; Braden, E. Mark; Raile, Richard; melias@perkinscoie.com; Hill, Linda; John Branch

Subject: RE: Common Cause v. Lewis, 18 CVS 14001 -- Plaintiffs' Motion for Clarification Pursuant to Rule 45

Ms. Myers and Mr. Steele:

Attached is Legislative Defendants' Response to Plaintiffs' Motion for Clarification.

EXHIBIT 18

STATE OF NORTH CAROLINA IN THE GENERAL COURT OF JUSTICE
SUPERIOR COURT DIVISION
COUNTY OF WAKE 18 CVS 014001

COMMON CAUSE, et al.,)

Plaintiffs,)

vs.

DAVID LEWIS, IN HIS OFFICIAL

CAPACITY AS SENIOR CHAIRMAN OF

THE HOUSE SELECT COMMITTEE ON

REDISTRICTING, et al.,

Defendants.

)

VIDEO DEPOSITION OF

DOUGLAS JOHNSON, Ph.D.

9:59 A.M.

Monday, June 17, 2019

POYNER SPRUILL

301 FAYETTEVILLE STREET

SUITE 1900

RALEIGH, NORTH CAROLINA

By: Denise Myers Byrd, CSR 8340, RPR

minute to page through it. My question is just going to be do you recognize this as a copy of your first report in this case dated April 30, 2019.

A. Yes.

- Q. And if you take a look at Exhibit 2, do you recognize that document as your supplemental report in this case dated May 7th, about a week later?
- A. Yes.
- Q. Do these two reports contain all of the opinions you intend to express at trial in this case?

 MR. FARR: Objection.
 - THE WITNESS: At this time.
- 15 BY MR. JONES:
 - Q. Do these two reports contain all the analysis that you intend to present at trial?
 - A. Again, as it stands at this time, yes. The only reason I say that is we just got all these rebuttal reports and I don't know if I'll be asked to do anything out of those.
 - Q. Have you been asked to do any analysis -- any further analysis responsive to what is in the plaintiffs' rebuttal expert reports?
 - A. No, I haven't had a chance to look at them in

enough detail for that yet.

- Q. Other than what's in the two reports, Exhibit 1 and 2, have you done any other analysis that you intend to present at trial in this case?
- A. No.

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- Q. Other than what's reflected in those two reports, have you reached any other opinions or conclusions that you intend to express at trial in this case?
- A. No. Again, others might come up, but, no, not at this time.
- Q. Do you have any plans sitting here today to do any additional analysis for presenting at trial in this case?
- A. Not as I sit here today. There may be things again that come up out of the recent reports.
- Q. And I asked I think part of this question earlier, but I'll ask it more broadly.

Sitting here today, have you been asked to do any additional analysis for purposes of presentation at trial that's not reflected in your two reports that are Exhibits 1 and 2?

MR. FARR: I'll object to that and instruct him not to answer on the grounds of attorney-client privilege and work product.

BY MR. JONES:

- Q. Are you going to follow your counsel's instruction not to answer?
- A. Yes.

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- Q. Did anyone else at -- anyone at NDC or elsewhere assist you in preparing these reports?
 - A. No. I got data from the state, from the legal team, but this is all my work. No one else at NDC worked on it.
 - Q. If you flip to page 4 of your April 30th report, which is Exhibit 1, under the heading Task

 Description, you identify three issues that you address in the report, correct?
- A. Yes.
- Q. And the first issue you were asked to address was to review the 2017 legislative district maps and whether they maximize Republican political power in the legislature, right?
- A. Yes.
- Q. Okay. And for that issue you conclude that the 2017 adopted maps do not maximize Republican political power because without the county groupings rule and other traditional districting criteria you believe that you can draw an even more pro-Republican map, right?

EXHIBIT 19

```
STATE OF NORTH CAROLINA
                              IN THE GENERAL COURT OF JUSTICE
                                                                           The Reporter: Discovery Court Reporters
                                  SUPERIOR COURT DIVISION
                                                                                     and Legal Videographers, LLC
                                      18 CVS 014001
    COUNTY OF WAKE
                                                                    2
                                                                                     BY: DENISE MYERS BYRD, CSR 8340
                                                                                     4208 Six Forks Road, Suite 1000
    COMMON CAUSE, et al.,
                                                                                      Raleigh, NC 27609
                                                                                     (919) 424-8242
                  Plaintiffs,
                                                                                     (919) 649-9998 Direct
                                                                                      Denise@DiscoveryDepo.com
    DAVID LEWIS, IN HIS OFFICIAL
    CAPACITY AS SENIOR CHAIRMAN OF
                                                                                           --o0o--
    THE HOUSE SELECT COMMITTEE ON
    REDISTRICTING, et al.,
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                                                                   16
                             9:31 A.M.
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                       Friday, June 14, 2019
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                                                                   19
                OGLETREE DEAKINS NASH SMOAK & STEWART
                        4208 SIX FORKS ROAD
                                                                   21
                            SUITE 1100
                                                                   22
                       RALEIGH, NORTH CAROLINA
                                                                   23
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                                                                                   Bias in Legislatures
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                127 Public Square
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               Cleveland, OH 44114-1214 (216) 861-7096
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                                                                                   Jowei Chen, Ph.D., June 7, 2019
               PLewis@bakerlaw.com
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(WHEREUPON, Chen Exhibit 13 was marked my report which is page 2, the first full 2 for identification.) 2 paragraph, and this is the best of my BY MR. FARR: 3 information. This is all the information I have Q. Dr. Chen, the court reporter has handed you an about the files that I received, at least with exhibit marked Exhibit 13. Can you tell us what respect to their providence. So I said -- I wrote here: this is. "...which I understand A. This is my response report from last week. Q. Why did you call it a response report? Plaintiffs' counsel received through a subpoena to Dr. Hofeller's daughter. A. I was responding to expert witness reports that 10 have been written by some other experts. 10 I received the files containing 11 11 MR. FARR: Just for the record, the Dr. Hofeller's draft maps directly 12 12 position of the legislative defendants is that from Plaintiffs' forensic vendor, 13 13 this is neither a response report nor a rebuttal Stroz Friedberg. " 14 14 report but a new report on entirely new So I understand they're backups. You 15 information. 15 added the word personal, and that's not within 16 16 BY MR. FARR: my information. You may well be right, but it's 17 17 Q. So, Dr. Chen, does it appear to say in this not within my information to either affirm or 18 18 response report you analyzed Dr. Tom Hofeller's 19 19 personal computer data to form opinions about Q. What's your source for the information you're 20 20 when Dr. Hofeller created drafts of the 2007 aware of for what you received? Is it the 21 21 plans and what data he considered when doing so attorneys in the case or anyone else? 22 and what his goals were? Is that a fair 22 A. Well, from plaintiffs' counsel. The sentence 23 23 statement? that I just read to you, that second 24 24 MR. JACOBSON: I think you said 2007 paragraph -- that first full paragraph from 25 25 plans. page 2, the source of that information, as I 309 311 BY MR. FARR: wrote down in that paragraph, is, of course, 2 Q. 2017. from plaintiffs' counsel. Q. Okay. Did you use this information to form A. I'm going to ask the court reporter to repeat -opinions about when Dr. Hofeller created drafts just repeat all of that, please. I'm going to of the 2017 plans? ask you to repeat it again, but would it be all 6 A. Yeah, I formed the opinion which I think is right if I had a pen and paper in front of me just to take some notes. basically what you're saying. I formed the 8 opinion that, quote, Dr. Hofeller had already (Record Read.) 9 THE WITNESS: I'm just going to ask the completed drafting the vast majority of House 10 10 Bill 927, Senate Bill 691 plans by late court reporter to please read it very slowly. 11 MR. FARR: Let me do it over and break June 2014, and that was obviously based on these 12 12 draft plans that I received. the question down, make it easier for you. 13 13 Q. Did you mean June 20, 2017? BY MR. FARR: 14 14 Q. In your rebuttal report, is it fair to say that MR. JACOBSON: You said 2014. 15 15 THE WITNESS: I'm sorry. Obviously I you analyzed Dr. Hofeller's personal computer 16 16 data? meant June 2017. 17 17 A. It's my understanding that the files that I BY MR. FARR: 18 18 received were copies of files from Q. And did you use the information to form opinions 19 19 about the data he considered, Dr. Hofeller? Dr. Hofeller's backup of a hard drive. I 20 20 describe it in more precise detail in my report A. I formed opinions about the data that 21 21 so I just prefer to refer to that. Dr. Hofeller possessed, possessed in these 22 22 Q. Those were his personal hard drives? Maptitude files or Maptitude folders. 23 23 A. You -- you added the word personal and I'm not Q. Okay. So you don't know whether he considered 24 24 sure that that's a part of my information. So the data or not. You just know it was in his 25 25 I'm just going to refer to you what I wrote in folders? 310 312

MR. JACOBSON: Object to form. counsel received the devices? 2 2 THE WITNESS: Yeah, if you want to A. Plaintiffs' counsel didn't tell me, but I can point to specific data that you want me to logically gather that it was before the time answer that question I'll be able to answer it that I received copies of files from that -more clearly. It's just a little bit general from that subpoena or from those hard drives. and vague and I'm not sure I can really wrap my Q. That would make sense. head around. Do you know when you received the 8 8 BY MR. FARR: devices or the data? 9 9 Q. All right. Dr. Chen, do you have a background A. I did not receive any devices. I did receive 10 10 in computer forensics? files, and I can give you a general range. So 11 11 A. No. sometime in early May I started receiving files 12 12 Q. Do you have any professional certification in from -- from -- I forget the names -- Stroz 13 13 the field of computer forensics? Friedberg, and then there were a couple of 14 14 A. No. different deliveries of files. And I recall --15 Q. Have you ever been retained to perform a 15 the latest one, I can't specifically recall if 16 16 forensic analysis of computer data? it was in late May or early June, somewhere in 17 17 that time period. A. Could you just repeat. 18 18 Q. Have you ever been retained to perform a Q. Did you ever personally -- I don't know what the 19 19 forensic analysis of computer data? right word is, Dr. Chen, I'll say download files 20 20 yourself from Hofeller's devices, from 21 21 Dr. Hofeller's devices? Q. Okay. You just mentioned this about page 2 on 22 your rebuttal report about the information was 22 A. No, I don't know what these devices or hard 23 23 obtained through a subpoena to Dr. Hofeller's drives look like. I've had no physical access 2.4 2.4 daughter. to them. I would have no ability to myself go 25 25 A. Yes. and access them or download any files from them. 313 315 1 Q. What other facts were you provided regarding the Q. So the files you received were from this 2 receipt of the data? plaintiffs' vendor named Stroz Friedberg? A. I think I just about listed it out here in this A. Stroz Friedberg, yes, sir. paragraph. I was told that there was a Q. So they're the ones -- so who decided what files subpoena, and I was told that Dr. Hofeller's you were going to receive? Do you know? 6 daughter turned over hard drives in response to A. Well, I'm happy to answer that question with that subpoena. That's about all the information respect to specific files, and so I'm prepared I have here. 8 to go through and talk about those with you if Q. Do you know whether the data was recovered off a you'd like, but you're just going to have to ask 10 10 computer, a USB storage device, a portable hard me about specific files. And it would be more 11 11 drive or some other medium? useful to talk about that in specific sections 12 12 A. I gather that those are specific forms of what in my response report if you want to go that 13 13 hard drive can represent and I don't know the wav. 14 14 specific form. I don't know the model. I don't Q. Did you receive data from anyone other than 15 15 know the type of hard drive, and I think that's Stroz Friedberg? 16 16 what -- those are different things you're A. Well, you're going to have to limit -- you know, 17 17 listing there. you're going to have to explain what data you're 18 18 Q. Do you know when -- do you know who received talking about. Obviously I have before received 19 19 Dr. Hofeller's devices? data from people other than Stroz Friedberg and 20 A. Well, I know that plaintiffs' counsel received 20 for my original expert report obviously, but --21 21 the hard drives and the files through a Q. I'm sorry. 22 22 subpoena, so I know that generally. If you're A. -- I think you're trying to limit the question 23 23 asking me physically, I'm not sure I can give to a certain class of data. 24 24 you a more precise answer than that. Q. I'm sorry. It was my mistake. 25 25 Q. That's good. Do you know when the plaintiffs' Did you receive data from

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Dr. Hofeller's devices from anyone other than just wanted to be as completely -- as complete 2 Stroz Friedberg? as possible. MR. JACOBSON: Objection. To the 3 BY MR. FARR: extent you're asking about attorney-client Q. Did you ask for the data you received, or did communications beyond facts, data or assumptions you simply receive data which you were then that are relied upon or in the report, I'm going asked to opine on? to instruct Dr. Chen not to answer. A. In some cases former, in some cases the latter, THE WITNESS: So what I'm going to 8 and I'm prepared to go through individual files 9 do -- can I start answering. and tell you about them, but that's the general 10 10 BY MR. FARR: 11 11 Q. Yes, sure. Q. Okay. I hope I'm going to ask this the right 12 12 A. So I'm going to follow Mr. Jacobson's way. Do you own a Maptitude license? 13 13 instruction, and so within those confines I'm A. I personally right now do not have an active 14 14 going to answer your question. Maptitude license. 15 15 Q. So in doing this report, did you use a Maptitude And my answer is that the files that 16 16 originated from Dr. Hofeller's backups or hard program yourself? 17 17 drives that I relied upon in my report I A. So I don't have -- I don't personally, on my own 18 18 received directly from the forensic vendor, from personal computer, have a Maptitude license so 19 19 Stroz Friedberg. what instead happened is that when I wanted to 20 20 Q. Did you ask -look at a Maptitude folder, I looked at 21 21 A. Actually, I want to just go back and make sure Mr. Esselstyn's computer. And Mr. Esselstyn, on 22 I've thought about and responded to your 22 his computer, does in fact have an active, 23 23 question exactly as possible. And could I just updated, whatever you want to call it, latest 2.4 2.4 ask the court reporter to read back me the Maptitude license. 25 25 question that I just gave a response to and I Q. Mr. --317 319 1 will think about if I need to add anything. Is A. Mr. Esselstyn. I'll just tell you where 2 that all right? Is that all right, Mr. Farr? that -- this is first mentioned. If you'll look 3 at the bottom of page 2 of my report, I think Q. Oh, sure. this is the first time that I mention A. I'm going to ask the court reporter to repeat the question and I'm going to think about if I Mr. Esselstyn. So he is plaintiffs' consulting need to add anything. expert. (Record Read.) Q. Who does he work for? Does he have his -- does 8 THE WITNESS: Okay. I think the he work for the same company, the Stroz 9 literal answer to your question is, no, I did Friedberg? 10 10 not receive any files that were copies of files A. No. Mr. Esselstyn has nothing to do with Stroz 11 11 from Dr. Hofeller's backups or hard drives that Friedberg. Mr. Esselstyn, I believe to the best 12 I relied upon in my report from anybody other of my knowledge, he's self-employed, he runs his 13 13 own consulting firm. He does a lot of stuff than Stroz Friedberg. 14 14 I just want to add to that, even though that has nothing to do with redistricting. I 15 15 I don't think this technically falls within what think he's an urban planner or city planner, 16 16 your question is asking. I do explain how there something like that, architecture, something 17 17 were various screenshots and various shape files along those lines. I'm not remembering it quite 18 18 that I analyzed. These were not screenshots or correctly, but I sort of have that recollection 19 19 of something that's unrelated to redistricting. shape files that were copies of files from 20 20 Q. And where does he reside? Dr. Hofeller's hard drives but instead were 21 21 created by Mr. Esselstyn by opening up files A. Oh, he resides I believe in Asheville, if I'm 22 22 that were on -- were on Dr. Hofeller's backup remembering correctly. 23 23 files. Q. When you were consulting with him, were you in 24 24 So I don't think that really falls 25 25 within the question that you were asking, but I A. I wasn't physically -- I'm sorry, I didn't mean

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to cut you off. logically how would I know if this is all the 2 2 Q. That's all right. files or just a subset of them. A. I wasn't physically in Asheville. At all times MR. JACOBSON: Tom, if I could just jump in and clarify. It's a subset. He doesn't that I needed to look at a Maptitude -- a computer with Maptitude and open up a Maptitude know what he doesn't know. MR. FARR: Okay. That's fine. folder, a Maptitude backup, I would get on BY MR. FARR: to -- it's just a program called Google 8 Hangouts, but basically I would look at O. Who decided what information you received? Was 9 Mr. Esselstyn's computer screen, and I would that your decision or was it someone else's 10 10 tell him open this file, scroll over here, click decision? 11 11 on that, things of that nature. So basically he A. So like I said, you've asked me this question 12 would be on his computer, I would remotely be generally and I've told you I'm happy to go file 13 13 looking at the same computer, and then telling by file or section by section and I'll answer 14 14 him open this file, look over there, things that question specifically, and I'm prepared to 15 15 give you the best of my recollection for all along those lines. 16 16 Q. Have you ever personally used Maptitude? these files here. You asked me that question 17 17 earlier and I said sometimes it's the former and A. I have. 18 18 Q. Have you drawn maps with Maptitude? sometimes it's the latter. So I'm happy to go 19 19 A. I may have tried to edit a districting plan or file by file and help you to understand my 20 20 some other kind of map. Maptitude does a lot of recollection. 21 things outside of redistricting. It's a GIS 21 Q. Can you just go through your report right now 22 22 program basically, so I might have edited some and tell me? 23 23 shape files, something along those lines. A. That's what I was just suggesting. 2.4 24 So in the past I've had Maptitude on my Q. Why don't you just do that. 25 25 computer before. I don't any more. I don't A. Okay. Sure. You want me to just kind of walk 321 323 1 have the current or updated license or latest through the different sections and then I'll 2 version. tell you for each section's files --Q. Right. Q. When is the last time you had a Maptitude 4 license on your computer? A. -- how those files came to be in my possession. 5 A. I don't exactly remember. It would have been Q. Right. 6 A. Sure. Okay. So the first section that we'll more than a few years ago. 7 Q. Did you receive any Hofeller files that had -start with -- and this is not the level of 8 8 Dr. Hofeller files that had a label saying that detail or if I'm going in a different direction, 9 they were privileged or confidential or attorney you should feel free to cut me off and redirect 10 10 work product? me. I think I know what you're trying to ask 11 11 A. I don't recall seeing that. and I'm going to tell you everything that I 12 12 Q. Have you ever worked with Stroz Friedberg remember here. 13 13 before? So the first section here is a section 14 14 A. I had no idea who they were until recently. which I am comparing two draft Maptitude 15 15 Q. Did you get all the documents from folders, Maptitude backup folders that came from 16 16 Dr. Hofeller's daughter or just a subset? Dr. Hofeller's hard drive. And this first 17 17 MR. JACOBSON: Do you want to reframe section goes through I believe it is page 38 of 18 18 the question. It was confusing. Or if not, my report where I'm looking at these two draft 19 19 maps. And one of them I start talking about on it's up to you. I was confused by it. 20 20 BY MR. FARR: page 3. It's in a folder named, quote, NC House 21 21 Q. Did you get everything that was produced by J-25003.bak.zip. And ".bak" just means this was 22 22 Dr. Hofeller's daughter or just a subset? a backup file, it was a zipped backup file. 23 23 A. I don't have a basis to know the answer to that So that one, as well as the next draft 24 24 just logically thinking about it. If I received Maptitude folder that I analyzed, which is the 25 25 a certain set of files, how would I know if --Senate map called NC Senate J-24001 .bak.zip,

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these were ones that were last modified in June of 2017, and these -- Mr. Jacobson selected these to direct my attention towards.

So I did not obviously know of the existence. I didn't ask for them by name.

So I did not obviously know of the existence. I didn't ask for them by name. Plaintiffs' counsel made the decision to convey those files to me, and they were -- they were transmitted or delivered to me through Stroz Friedberg.

- Q. So that's the House and the Senate plan?
- A. Correct, these first two House and Senate plans.
- Q. Okay.

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A. So that's the first section of my report. And then now we can move to the next section that starts on page 39 which -- in which I start discussing racial data.

And in this section I discuss I believe it's six different Maptitude folders, backup folders, so six different backups of those draft plans. And before I tell you about them, I'm going to try to point you to the list of them so that we can know what I'm talking about.

The first one of these six I think is listed at the bottom of page -- and I'm going to group these six together because I'm going to files.

- Q. Okay.
- A. The next one is going to be several pages later and it appears on the last paragraph on page 45. This is a Maptitude backup -- plan backup called, quote, NC Senate J-23005.bak.zip, last modified on August 13th. And just to make sure I list them all completely, I'm going to -- and I'm happy to give this to you after I finish, but I'm going to keep a running list here of the files that I've mentioned just to make sure I've got everything straight as I'm telling you about them. So if you'll just bear with me and give me a moment.

So I've listed two of the six this I was going to mention. And then the remaining four are listed in the first paragraph on page 47. So you'll see a list there of four files. I won't read them out, but I'm going to write them down here on my -- on this piece of paper, so just give me a second

- Q. Can we make that as an exhibit?
 - A. Sure. I'm going to five this to you after I'm finished.
 - Q. We'll give this to the court reporter.

give you a unified answer about all six of these.

So if you look at the bottom of page 39, I think I mentioned the first of these six, a draft plan titled, quote, NC House J-25003.bak.zip which was last modified and backed up on August 14, 2017. That's the first of the six. I'm going to list out all six of them before I tell you how I got them.

Q. Can I stop you for a second.

How did you know when it was last backed up? Is that something you determined or did someone else determine that?

A. Oh, okay. Yeah, good question. I determined that, and the way that that was determined is that I looked at the metadata of the file. So if you have these files on a folder in Windows you can look at the metadata and you can see the last modified date of the file. So everywhere I'm talking about, last modified date in my report for these various files, that's the basis of me determining those last modified dates.

So that was the first of the six. And I'm just going to go through this list of six before I tell you how I came to have these

A. All I'm doing is writing down the Maptitude file names that I'm reading out and I'm writing the last modified date exactly as I reported it in my response report. So there's no new information here. I'm just copying six file names. And I'm happy to give this to you after I'm done. And again, I'm just copying this list of four files from page 47 right now.

So I've written down these six files that I -- these six Maptitude folders that I analyzed in this particular section, and I've written down these folder names, and so I'm just going to give you a general response with respect to these six Maptitude folders.

- Q. Can we mark that as an exhibit?
- A. Yes.

(WHEREUPON, Chen Exhibit 14 was marked for identification.)

THE WITNESS: So these were six different Maptitude backup folders that I viewed on Mr. Esselstyn's computer, on his Maptitude or on his Maptitude program, and I requested Mr. Esselstyn to open them up, and I looked at these folders with -- with Mr. Esselstyn on his computer and then, obviously, as I describe in

the report, I took various screenshots of -- or knowledge of just generally how GIS software 2 2 works and knowing that these folders came from I -- actually I instructed Mr. Esselstyn to create screenshots of what was on his screen and Dr. Hofeller's hard drive, it's just a matter of then send me those screenshots, but he did so at putting two and two together to infer that my direction. Dr. Hofeller was creating the formula field that BY MR. FARR: I take a screenshot on in Figure 27, for Q. Could you point those out in my report? example, were aligning the districts according 8 A. Sure. There's screenshots all over in this to African American voting age population, as I 9 section, but they start on page 41 which is talk about it in length in that section of the 10 10 labeled as Figure 25, and they go through 11 11 Figure 29 which is on page 46. I think that's Q. I've got a question for you. 12 12 the last one. Let me just check. Yes, that's When you -- when you did your simulated 13 13 the last one. maps, did you base your simulated maps on 14 14 So these screenshots came from that set partisan intent when you were drawing them? 1.5 of six Maptitude folders. And again, these were A. My simulated maps were ignoring partisan data. 16 16 opened up because I instructed Mr. Esselstyn to Q. When you drew them. 17 17 A. I didn't draw any maps. I programmed the 18 18 Q. So these are screenshots that Mr. Esselstyn 19 19 called up? Q. I'm sorry, Dr. Chen. You're too precise for an 20 20 A. No. No. So a screenshot is something that you old lawyer. 21 21 take. A folder -- a file is something that you When the computer was drawing your 22 22 maps, it was not looking at partisan data? call up. 23 23 So I instructed Mr. Esselstyn to open A. The computer did not have partisan data. 2.4 2.4 up these Maptitude folders, and then after Q. You looked at partisan data after your maps were 25 25 opening them up I then instructed him to take drawn by the computer? 331 various screenshots of what he and I were seeing A. I went back and took the outputted maps or 2 on his computer and then send me those outputted plans that my algorithm had produced and then I created additional files that screenshots. calculate partisan calculations for each. Q. So let me ask you a question. Q. So before you could look at the partisan data Do you have any evidence that 6 Dr. Hofeller was viewing the screenshots that for the districts your computer drew, you had to 7 you had Mr. Esselstyn -- am I saying that right? first have the districts, the districts had to 8 be drawn first before you could get the reports A. Esselstyn. 9 9 Q. Do you have any evidence that Dr. Hofeller on how they lined up for partisan vote share? 10 was -- viewed these screenshots while he was A. Well, again, I didn't draw any districts, but 11 drawing the districts? the computer did certainly have to produce the 12 12 simulated districting plans first. A. Yeah. And I'll just give you an example. So 13 13 Q. Right. So these screenshots that you've listed when you see in one of these Maptitude folders 14 14 that there's, say, a formula field or that the in this section of your report, the districts 15 15 district has been sorted in a particular field would have to be drawn before you would get 16 16 by, say, racial composition -- these are two these screenshots. Is that right or wrong? 17 17

- things that I talk about in more detail in my report -- these are things that are not automatic settings. Somebody would have had to go in and create these specific formula fields. Somebody would have had to go in and specifically align the districts by African
- 23 American voting age population. Those things 24 don't happen automatically in Maptitude.
- 25 So with that information with my

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A. No. So this is a little bit of a difference between how Maptitude works versus how, say, my computer simulation algorithm works. And if you're familiar with Maptitude, the whole point of Maptitude for redistricting is a map drawer can dynamically see various characteristics, including partisan characteristics, of the districts being drawn as they are being drawn. And that's the whole point of the pending

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changes window in Maptitude for redistricting.

This is why Maptitude for redistricting is widely used by map drawers. It's because the map drawer is able to dynamically see updates of partisan data, of racial data, whatever data the map drawer has chosen to import into Maptitude, dynamically update it as the map drawer is constructing the districts. That's the -- that's the beauty of Maptitude for redistricting.

- Q. Question.
- ¹² A. Sure.

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- Q. Can the map drawer decide what he has on his screen as he's drawing the districts?
- 15 A. Yes
 - Q. So he could draw the districts excluding the racial data?
 - A. The map drawer can choose not to import in the racial data. The map drawer can choose to not create a formula field any part African American population, things like that. The map drawer can choose not to import in any election data or partisan data. The map drawer can choose all of those things.
 - Q. But there can be information on his computer

data even though that may be in your computer?

A. And I just want to make sure you understand what I'm saying when I'm trying to explain to you how you would go about doing that.

You could delete columns. You could get rid of formula fields. You could start anew and create another redistricting plan that has the same boundaries as your old draft plan except this time you don't have racial data or you don't have partisan data. Any of those things, if you created a new draft plan, the backup would save that and we would be able to see in the backup that you had deleted a particular column or the column was no longer there.

If this was a map that you had taken out the racial data or taken out the partisan data, something along those lines, that would be saved in the backup if that had happened. So, yes, you can certainly do those things.

- Q. So you don't know for sure what was on Dr. Hofeller's screen when he drew this map?
- A. The way that a Maptitude backup works is it does actually save the last view, the way that it was reviewed by the map drawer.

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that he can exclude from the screen that he's

looking at when he's drawing the districts;

isn't that correct?

- A. So you're asking can you take data that you've already imported in and somehow exclude that.
- Q. From the screen when you're drawing the districts.
- A. Sure. You can scroll -- you can take your dataview window -- so the dataview window is 10 just a window in Maptitude that will show you 11 the characteristics of all 120 House districts, 12 right, and you can delete columns from that if 13 you wanted to. Those are certainly things that 14 one could theoretically choose to do. You could 15 start a new map with the same boundaries with 16 the old map but only have a subset of the old 17 data you had. In other words, you could take a 18 draft map and import that into a completely new 19 draft plan but then only bring in, say, the 20 demographic data but not the racial data, say, 21 the population data but not the racial data and 22 maybe not the partisan data. You could do those
 - Q. So when you're drawing the map on Maptitude, you can exclude from your screen things like racial

Now, I don't believe that I included screenshots of that initial last view, in other words, exactly how it -- how the various windows were aligned, what was in the foreground and what was in the background, but the basic components of what you'll see any time you open up a Maptitude plan, you'll have one window that has the geography, whether it's VTDs that you're working with or district boundaries, the map itself, a depiction of the map, then you'll have kind of a dataview window. So there will be a Dataview 1 window that lists out all the districts and then you can have a pending changes window which sometimes will be labeled as Dataview 2, but it will be a pending changes window that will tell you about various characteristics that you're actually changing so you can see dynamic updated statistics on those things.

So these are all just essential, basic features of any sort of Maptitude plan draft.

- Q. So the dataview window is where the racial data would be?
- A. That's one of the places.
 - Q. I want to know where it would be when he was

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things if you wanted to.

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drawing the map the first time. 2

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A. I'm sorry, I didn't mean to cut you off there.

Q. No. I didn't -- I'm sorry, I'm not an expert on Maptitude so you don't need to shake your head when I ask the question. Okay.

When he's drawing the map, where on the screen would you see the racial data as he's drawing the map?

A. Yeah, that's a good question. The Dataview 1 window is one of those places that I saw that racial data. I also saw racial columns, racial headers in the pending changes window, and for one map that I wrote about in some detail in one draft plan, I should say that I wrote about in some detail in my response report, I actually found the racial data on labels on the district map itself. In other words, I saw a map -- and here I'm referring to page 44 of my response report, Figure 28, page 44 of my response report, Figure 28.

And I saw a map in which Dr. Hofeller had actually labeled the districts of that map with two pieces of information. Number one, the district number just identifying the district, and number two, the African American any part

A. It is on page 41 and 42. And so it's Figure 25 and Figure 26. And so I produced a screenshot of the Dataview 1 window, and I can say with certainty that this was the dataview window that Dr. Hofeller had up on the screen when he last was working with this particular Maptitude folder.

The only thing that I did or I had Mr. Esselstyn do was to take a screenshot, and prior to taking a screenshot maneuver the windows around, move the windows left to right so that it would be positioned so that the screenshot would capture all the columns or some subset of the columns that I wanted to zoom in on. So I asked Mr. Esselstyn, move the window over here to the left so the screenshot will get as much of the dataview window as we can, something along those lines. So that's how I was able to ask Mr. Esselstyn to get this huge screenshot on Figure 25 that I wanted to have every single column. So obviously I had to ask him to expand that column so that you'd be able to see all of the columns on one screenshot since obviously it's a screenshot so you can't really scroll to the left or to the right.

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black voting age population percentage of that district, and that was prominently labeled on a map of this draft House districting plan.

So those are the various places where one might find and where I in fact did find racial data in this particular draft House map.

- Q. So this information that you are describing, is this information that you got from Stroz Friedberg?
- A. This is information that I saw looking at the draft Maptitude folders in Maptitude. I simply opened up Dr. Hofeller's backup files and I saw them on the screen. Stroz Friedberg told me nothing about, say, the content of these Maptitude folders.
- Q. Do you know -- can you tell with any certainty what information was on Dr. Hofeller's dataview screen when he first drew this map?
- A. Yeah. I can say with certainty that the dataview -- I'm just going to use one of these draft maps as an example.

So I produced the Dataview 1 window for a draft map called NC House J-25003 which was last modified on August 14, 2017.

Q. Is that on page 42?

You've got to get everything that you want to show in that one screenshot, so that's what I did.

> So the point is I'm able to say this Dataview 1 window was the one that was available to Dr. Hofeller when he last worked with this particular draft Maptitude folder.

Q. When he last worked with it. What I want to know whenever he first -- the first time he drew it, do you know what was on his screen when he was drawing the map?

MR. JACOBSON: Objection.

THE WITNESS: That information might possibly be in another backup, but I did not analyze that for this particular draft map.

So in general, what a backup does, it's a snapshot and it's whenever that snapshot was created. So I can tell you what was on Dr. Hofeller's Maptitude folder when it was last backed up. I can't tell you about previous backup versions.

BY MR. FARR:

Q. So you can't testify when he first drew this map, you can't tell what was on his screen? MR. JACOBSON: "This map" is vague.

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BY MR. FARR: 2 Q. The beginning of this map, the first version of this map that he would have drawn. A. I do think it's vague, and I'm going to explain to you why. These maps are -- go along in a series of something like -- this one here is called House J-25003. There are other maps in this same sort of series that start with J-25. and so there may well be -- may well be earlier versions of this draft map. 12 13

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And I'm not sure exactly what you mean by "this map," if you're referring to the entire series or this one backup. So I'm not totally clear what you mean when you say "this map."

- Q. Let's say the first version of a House draft map that Dr. Hofeller drew, you can't testify what was on the screen when he did that?
- A. You said an earlier draft map?
- Q. The first draft House map he did in 2016 or whenever he started because I don't know when he started.
- A. Sure. I did not look at every draft map from Dr. Hofeller's hard drive to be able to identify which one was the, quote, first draft map. I looked at some maps. I obviously did not look

thing you could do. You could label a district by its population. That's just as another example.

Those are just examples, but that's done in the formula window here. And so the formula window allows the map drawer to create a formula. And when I say formula, it's really nothing very fancy. It's just a very simplistic sort of set of instructions telling Maptitude what to display on the labels for each district.

And so we were able to look at -- we were able to look at the formula field for this particular draft map that Dr. Hofeller had developed, and the formula field reveals the following. It reveals there were two pieces of information in this particular draft map that Dr. Hofeller chose to display for every district. Those two pieces of information are in this box in the formula window that's displayed here on Figure 27.

So just to orient where we are on where this box is, again, Figure 27 is a screenshot of the entire Maptitude -- of the Maptitude program, and towards the center of this screenshot, kind of on the upper end of the

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at every single Maptitude backup.

- Q. Okay. What is the -- what's Figure 27?
- A. This is a formula window, and I'll just explain a little bit of background that will help put this in some context.

In Maptitude you have obviously one window that shows you the map of North Carolina, and that can be -- can be shown or displayed or, I guess, shaded in at a number of different levels. You could shade in, for example, some characteristic of the VTD but shade in some characteristic of the district, of a house district and so on. You can do any number of things. You could show county level characteristics if you really wanted to.

What a formula field does is it allows the Maptitude user, the map drawer, to create labels for the districts, and you can put in these labels whatever information you want as long as that's information that you have imported into Maptitude already. So sometimes a map drawer might just want to label the districts by the district number, so you'll have a label for District 1 and a label for District 2 and so on, but that's not the only

center, you see this window that's labeled as Formula (dataview: Districts). So it's a formula that you can create at the district level, and Dr. Hofeller created such a formula.

> Dr. Hofeller's formula is in the box that appears right below there. The formula has two pieces of information. Number one is the district number, and then number two -- so that next line that you see right after the word district, that's just kind of like a line break. It's just telling the Maptitude program go to the next line, and then the next line is the rest of that line there.

The next line that would be displayed on the label would be what's in the rest of this formula field box. It says Format (% 18 plus AP BLK).

Now, it's pretty clear what's going on there, what information that is. That's the percent any part African American voting age population. It says 18 plus because that's how one would typically or how many people will abbreviate voting age population. And AP stands for any part. BLK stands for black. So it's any part African American VAP population. And

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that's exactly what Dr. Hofeller wrote in that were previously looking at. 2 formula field. And when I look at the label Q. This is a draft plan for the Senate? itself, I see the labels that actually have A. Correct. racial data, that actually have the any part Q. And it was last -- I don't know if I'm using the African American voting age population labels right word -- updated by -- you think it was for every district. last updated by Dr. Hofeller on August 13th? So that was kind of the background of A. It was last modified on August 13, 2017. 8 understanding what exactly this screenshot here Q. Are there any other files in your report that 9 in Figure 27 is showing us. you received from Stroz Friedberg or someone 10 Q. Okay. And that screen was last updated on 11 August 14th? A. Yes, there are. You want me to point to where 12 A. Not the screenshot. I'm sorry. they are? 13 13 Q. What does that mean, August 14, 2017? Q. I just want to make sure that we know where you 14 14 A. So again, the screenshots are all screenshots got everything that's in your report. 15 that I took or I directed Mr. Esselstyn to take 15 A. Sure. If you're ready to move on, I can direct 16 16 so they were all obviously screenshotted a you to where the rest of those are. 17 17 Q. Sure. Good. couple weeks ago. 18 18 The actual draft House map, the draft A. So the rest of them I'll be able to give you --19 19 plan of Dr. Hofeller's, this Maptitude backup and I assume you're just going to ask me -- and 20 20 folder, this was last modified on August 14, I'll go ahead and answer, you're going to ask me 21 21 how I came to -- how those files came to be 2017. The screenshot itself is my own 22 delivered to me. screenshot of the Maptitude backup file. 23 23 Q. And then if you look to Figure 28, same O. Yes. 24 2.4 testimony for that, when it was last modified by A. So the last set of files are going to be 25 25 Dr. Hofeller? described in the next section of my report which 345 347 A. Same day, August 14th. is titled -- and it begins on page 48. The 2 Q. Now, did you uncover any evidence that section is titled Response to Dr. Brunell, Dr. Hofeller was drawing districts to hit a Dr. Hood and Dr. Johnson's Claims Regarding 50 percent or higher racial target for African Partisan Intent. Americans? In the section I refer to a pretty A. I didn't analyze that question. lengthy number of Microsoft Excel files and I Q. Did you determine whether Dr. Hofeller was using believe one Microsoft Word document. So I'll 8 racial data to draw districts at any targeted give you a blanket statement regarding all of level for African Americans? these, which is that these files were all 10 A. I didn't analyze that question. delivered to me in the form of two folders that 11 11 Q. Did you determine whether or not Dr. Hofeller I listed somewhere in my report. If you give me 12 12 was dividing VTDs to separate people based upon a minute, I'll give you the precise names, 13 13 race? something like 2017 NC redistricting, but I'm 14 14 A. I didn't analyze that question. going to find exactly where I listed this. 15 15 Q. I'll turn to Figure 29. Can we -- do you want MR. JACOBSON: I think it's on page 76. 16 16 to turn on the air-conditioning? THE WITNESS: Yeah. So I'll direct you 17 17 Is Figure 29 a screenshot that -- I to the first paragraph on page 76, and I've 18 18 can't remember the guy's name. listed two folders called NC 2017 Redistricting 19 19 A. Mr. Esselstyn. and 2017 Redistricting. 20 20 Q. I'll say Mr. --These folders which contained several 21 21 A. You can call him Mr. E and I'll -large -- a large number of files were given to 22 22 me by Stroz Friedberg, and it's my understanding 23 23 Did Mr. E make that screenshot for you? that plaintiffs' counsel asked Stroz Friedberg 24 24 A. Yes, I directed him to take a screenshot. And to give me copies of those two folders and to 25 25 this is a different draft plan than the one we look at the files inside of them. 346 348

BY MR. FARR: that question. 2 Q. Okay. Does that complete your explanation of (Record Read.) where you got the information for this report? THE WITNESS: I take it that you were Was there anything else? referring to the proceedings of August 25th and A. Oh, yeah, let me -- I'll just scan through the August 24, 2017. BY MR. FARR: rest of my report, but I believe that's about it. I believe the rest of my report does not Q. I think those are Exhibits 5 and 6. Yes? 8 refer to any more files that came from A. Okay. And so it wouldn't really make sense for 9 Dr. Hofeller's hard drive. I'll just scan me to have to do a test because obviously a lot 10 10 through just to check. of Dr. Hofeller's drafting of the maps occurred 11 11 Q. Okay. Did you do any research on the background before that time. In fact, much of it even 12 12 of Dr. Hofeller's involvement in crafting the occurred before the adopted criteria were passed 13 13 2017 House and Senate plans? on August 10th and so that wouldn't really make 14 14 A. I didn't do any research of my own aside from sense to me to even test that because logically 15 the information I was given by plaintiffs' 15 Dr. Hofeller could not have been following the 16 16 counsel and some of the things that we've adopted criteria prior to August the 10th. 17 17 already talked about earlier today. As I explained in my report, much of 18 18 Q. Do you know who hired him to work on the 2017 the House -- the General Assembly's House and 19 19 plans? Senate districting plans were already in place, 20 20 A. I don't know specifically who. were already drafted up by Dr. Hofeller back in 21 21 Q. Do you know when Dr. Hofeller was hired to June. 22 actually draw the 2017 House and Senate plans? 22 Q. Okay. That's like a really hyper technical 23 23 A. I have a recollection that I might have written answer, Dr. Chen. 24 2.4 my information about that somewhere in my What I want to ask you is: Did you 25 25 report. I'm not entirely certain so I'm going test the draft maps that Dr. Hofeller -- that 349 351 to look. you talked about here today, did you look to see 2 I'm not recalling if I wrote it in my whether or not they complied with the criteria report. As I recall, though, my information that the committee ultimately adopted on equal given to me from plaintiffs' counsel was population? June 27, 2017. A. Okay. Same general answer as before as it Q. He was hired on June 27th? wouldn't have made sense for me to test them A. That's my recollection right now. I may be with respect to the adopted criteria generally, misremembering. I'm just giving you the best of 8 but I get that you're asking me a specific 9 question about equal population. 10 10 I do recall that plaintiffs' counsel So if your question to me is whether or 11 11 gave me that information and that I had it in not I looked for whether the draft districts 12 my -- under consideration when I was writing my 12 were within 95 to 105 percent, the answer is 13 13 report. And I may be misremembering. I'm just that I didn't do that. 14 giving you the best of my memory right now. 14 Q. Did you look to see whether the draft maps 15 15 Q. Do you know whether Dr. Hofeller did his work on Dr. Hofeller, you claim, prepared based upon 16 16 a specific computer after he was hired to draw your review of the information you received 17 17 the 2017 House and Senate plans? complied with the county grouping and traversal 18 18 A. I did not analyze that question. criteria that was ultimately adopted by the 19 19 Q. Did you test any of these draft maps that were committees? 20 20 on Dr. Hofeller's computer devices to determine A. I didn't. 21 21 if they complied with the adopted criteria as Q. Okay. Did you determine whether or not the 22 22 explained by Senator Hise and Representative districts on these draft maps that appear to be 23 23 Lewis in the exhibits we looked at for the drawn by Dr. Hofeller were the districts that 24 24 committee proceedings? were changed more compact than the districts in 25 25 A. I'm going to ask the court reporter to repeat the 2011 plan? Did you check for that? 350 352

A. I did not do my own compactness analysis on THE WITNESS: Oh, okay. I misheard 2 2 Dr. Hofeller's draft maps, draft plans. you, then, and so I've got to retract the 3 Q. And did you determine whether or not the draft 3 answers I gave you which is based on a different maps divided fewer municipal lines than the 2011 file than the one I thought you were pointing plans? A. I did not. So do you want to go ahead and ask your Q. Did you determine whether Dr. Hofeller's draft question again. 8 divided fewer precincts than the 2011 plans? BY MR. FARR: 9 A. I did not. Q. Okay. What type of data is stored in NC House 10 10 Q. Did you evaluate whether Dr. Hofeller's draft 11 11 plans provided an opportunity for voters to A. I'd have to look at it to be sure. There are a 12 12 reelect their incumbents? couple of different bin files that you'll find 13 13 A. I'm not sure what you mean by that. in any Maptitude backup folder and I'd actually 14 14 Q. Did you determine whether or not the incumbent have to have the file in front of me to give you 1.5 Republican in a particular district would have a 15 any sort of clue. 16 16 chance of getting reelected under the draft Q. Do you know what data is stored in NC House 17 17 district that Dr. Hofeller drew? J-25.map? 18 18 A. Like I said, I just don't know what you mean by A. Generally, yes, except that you're not putting 19 19 chance of getting reelected. I can tell you this file in front of me so I can't actually 20 20 that I certainly looked at files in which tell you about this actual file. I'm generally 21 21 Dr. Hofeller expressed some point of interest familiar with the idea of a .map file within a 22 22 regarding certain Republican incumbents and Maptitude folder and can tell you a little bit 23 23 whether he believed -- how he believed that about that, but --2.4 2.4 their electoral prospects might be affected by Q. What would that be? 25 25 different draft maps of his. A. Sure. I mean, a .map file is sort of like a 353 355 1 MR. FARR: Let's mark this. recipe. It's not really the map itself. It's 2 (WHEREUPON, Chen Exhibit 15 was marked not the district boundary itself or the precinct for identification.) boundaries themselves, but it's the recipe for BY MR. FARR: how things are displayed. And so when you save Q. Dr. Chen, do you know what this is? a Maptitude backup, you've got a .map file that A. I didn't -- I've never seen this. It looks like has this recipe showing what is displayed, he took a screenshot of something, but I've different -- different formulas that can be never -- I obviously didn't create this displayed, things along those lines. So that's screenshot. generally what's included. I would just 10 10 Q. Is that a list of the folders for NC House describe it as kind of a recipe for the view 11 11 J-25003 (2017628).bak.zip? that the user last has in Maptitude. It kind of 12 12 A. They could be. They might not be. If you want gives us a roadmap for what was being displayed 13 13 to represent to me what it is, I'm happy to on the Maptitude software as of the time that 14 14 accept that. the folder was last backed up. 15 15 Q. I think that's what it is. I want you to look But obviously, what you put in front of 16 16 at NC House J-25.bin. Do you see that on me is just a list of these various file names 17 17 Exhibit 15? and you're not actually letting me see the 18 18 A. Yes. actual files in front of me here so I can't be 19 19 Q. Do you know what data is stored in that bin? really specific beyond giving you a generality 20 A. Well, I don't have the file in front of me here. 20 like that. 21 21 I mean, it's obviously a BMP file. It's some Q. Okay. I haven't seen them either, Dr. Chen. 22 22 kind of image file. So what about NC House J-25.rdp, what 23 23 MR. JACOBSON: Did you say BIN or BMP? would be stored there? 24 24 Did you mean BIN or BMP? A. It's again just another part of the Maptitude 25 25 redistricting backup folder. I don't MR. FARR: I think I meant BIN. 354 356

specifically remember what type of information Again, I'm telling you I've told you everything 2 2 is stored here. I just generally know it's part of how a Maptitude plan is stored. 3 Q. So on page 2 of your report you say Dr. Hofeller Q. Okay. That's all on that. assigned 90.9 percent of the state's census I think -- correct me if I'm wrong, but blocks into House districts containing you've offered an opinion that a map was drawn 88.2 percent of the population. as of June 28, 2017? A. Yes. 8 A. I believe that you are referring to the House Q. When you compared the June 28th draft to the 9 map that's titled House J-25003. I think that's final enacted plan, only 9.1 percent of the 10 10 what you're referring to. census blocks had changed; is that correct? 11 11 Q. Yeah. How do you know that was drawn as of A. I see that, yes. 12 12 June 28, 2017? Q. How did you perform this analysis? 13 13 A. Okay. What I said was last modified. This is a A. Sure, I'm happy to walk you through this, and I 14 14 Maptitude backup folder containing a draft plan, think it might be useful if we just look at 1.5 and it was last modified -- the backup was last 15 maybe the first figure. 16 16 modified on June 28th. And so what I did is I Q. What page are you on? 17 17 looked at the Windows metadata for the last A. So I'll just direct you to page 4, Figure 1. 18 18 modified date and I wrote down the date that I What I'm going to tell you, I'm just going to 19 19 explain this in a general way that applies 20 20 Q. Does the metadata say when the map was first equally to any of these figures in the first 21 21 drawn? couple pages of my report. 22 22 A. No. It's last modified so at some point there So what I did to produce these 23 23 already existed a draft map. Dr. Hofeller calculations -- and I'm going to start all of 2.4 2.4 appeared to have his Maptitude program set up in this by saying in the first section of my report 25 25 a way to automatically save backups when certain which goes all the way until I believe page 37, 357 359 1 actions were taken, say, on his Maptitude I think, or page 38, I guess, I do explain in 2 program, and so there were backups taken, and detail how I produced these calculations. So I'm just going to say that's the basis of the the last modified date for this plan was answer I'm about to give you, and I'll give you June 28th. 5 Q. Okay. Did you get a chain of custody for this my answer kind of at a high level and you can 6 information that you reviewed? ask for a more detailed answer if you like. 7 MR. JACOBSON: Objection; vague. So what I did is I looked grouping by 8 8 THE WITNESS: I don't know what the grouping, and so within each grouping -- and 9 question means. we'll just start with Mecklenburg in Figure 1 as 10 10 BY MR. FARR: an example. There are 12 districts in the 11 Q. Well, do you know the people that put their Mecklenburg House grouping. And so, of course, 12 12 there were 12 districts in Dr. Hofeller's draft hands on this from the time it was sent by 13 13 plan for Mecklenburg. And for each of the Stephanie Hofeller to when it got to you? 14 14 A. Well, I think I've given you all the information districts in Dr. Hofeller's draft map -- and 15 15 when I use the phrase draft map in this context, that I have, and I'm happy to review it again, 16 16 but I received -- and again, I think -- if right now I'm talking about this draft map 17 17 you're referring specifically to this Maptitude NC House J-25003.bak.zip which was last modified 18 18 folder -- any of these other Maptitude folders on June 28, 2017, which I reference in my report 19 19 I'm mentioning, I told you I got it from Stroz starting on page 3. 20 20 Friedberg and I told you what plaintiffs' I look through Dr. Hofeller's districts 21 21 counsel told me about the providence. in Mecklenburg, and for each district I 22 22 Q. But you don't have a chain of custody line identified the corresponding district in the 23 23 showing who touched the stuff by the time it was final House Bill 927 plan from August 2017. And 24 24 delivered by Stephanie Hofeller? what I mean by corresponding district is I

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identified for each of Dr. Hofeller's draft

A. Again, I don't know what that question means.

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districts the House Bill 927 district that most district in the final House Bill 927 plan. 2 2 overlaps in population with Dr. Hofeller's draft And as you can see from this figure, district, and so I did this for each one of for most of the districts in Mecklenburg, it's Dr. Hofeller's 12 districts -- draft districts actually 100 percent overlap, and then you'll here in Mecklenburg. So I first identified a see that there's one district that's at corresponding district in the final House 96 percent, another district at 95.97 percent Bill 927 plan. and so on. 8 Q. Can I ask you a question. But I counted the population overlap 9 9 What do you think most overlaps by for each of these districts, and I added that 10 10 population? How did you measure that? overlapping population for all 120 districts, 11 11 A. Okay. I counted the population overlap between then divided by North Carolina's total 12 12 Dr. Hofeller's draft district and every one of population, and that's how we arrived at the 13 13 the 12 districts in the final House Bill 927 number 88.2 percent. 14 14 plan, and the corresponding district is the one I did a similar calculation except 15 who shares the most population with 15 instead of using population I looked at the 16 16 Dr. Hofeller's draft district. So that's what I number of census blocks. In other words, I was 17 17 mean by overlap in population. You determine asking what percentage -- or how many census 18 18 how much do each of the 927 -- the final House blocks from Dr. Hofeller's draft District 107 19 19 Bill 927 plan district share a common population overlapped with or are also assigned to 20 20 that is also in the particular Dr. Hofeller District 107 in the final House Bill 927 plan. 21 21 draft district that I'm looking at, and I And obviously you can see here that that answer 22 22 would be 100 percent. identify the corresponding district. 23 2.3 Just to kind of simplify this, you can But I did that for census blocks as 2.4 2.4 obviously see from Figure 1 that the well. So I calculated for the entire state what 25 25 corresponding district for District 107 in percentage of North Carolina census blocks were 361 363 Dr. Hofeller's draft map is also named already in place in their corresponding final District 107 in the final House Bill 927 map, districts in the final House Bill 927 plan by and that's almost always the case that the the time that Dr. Hofeller drew this draft map numbers did not change. There was only one in late June of 2017, and that percentage turned instance here where it did change. out to be 90.9 percent. So that's how these two What Dr. Hofeller had drawn as District numbers came to be calculated. Number 88 later became renamed or renumbered as Q. What software did you use to do this? District 92 in its exact same form, no changes 8 A. I didn't use software. I wrote my own code. I 9 in the boundaries, but it was renumbered as calculated it in -- its call the R programming 10 10 District Number 92. So I would call District language. And just to explain, that's -- this 11 Number 92 the corresponding district to 11 is what I do a lot of my analysis in. If you 12 12 Dr. Hofeller's draft 88 -- draft District 88. look at my backup files or my computer code 13 13 So that's how I identify corresponding files, you'll see a lot of it is written in R 14 14 districts code. 15 15 Now, on to the actual calculations. Q. And the percentages you calculated in the 16 16 What you see in this figure is the percent beginning of paragraph 11, those are statewide 17 17 overlap in population that had overlap from percentages? 18 18 Dr. Hofeller's draft districts to the A. Paragraph 11? Where are you? 19 19 corresponding districts in the final House Q. I'm sorry. My question 11. 20 Bill 927. 20 A. The answer to your Question Number 11, 21 21 Now, what I did for the entire draft Dr. Hofeller, is --22 22 plan, all 120 draft districts in Dr. Hofeller's MR. JACOBSON: You said Dr. Hofeller. 23 23 draft plan is I counted up the degree to which THE WITNESS: I'm just going to stop 24 24 how much population actually overlaps with each trying to talk after 7:00 p.m. here. 25 25 of Dr. Hofeller's draft district, corresponding MR. FARR: My problem. 362 364

BY MR. FARR: of June 24, 2017. 2 Q. The percentages you calculated of 90.9 percent Your question was what the file or what 3 3 of the state census blocks, that's a statewide the Maptitude folder was named, and I've listed percentage? it right there on the first line of the section A. That is a statewide percentage, so it's a so I'll read it out. The folder was named NC Senate J-24001.bak.zip. And it had a last percentage of the total number of census blocks in North Carolina which is obviously several modified date of June 24, 2017. hundred thousand. Q. Did you analyze any other draft Senate maps 9 Q. And 88.2 percent is a percentage of the within the computer data obtained from 10 statewide population? Dr. Hofeller's daughter? 11 A. Correct. A. Yeah, I think we've talked about some of them Q. Can we turn to your Orange County figures? before, and I'm happy to revisit that again, but 13 13 A. If you'll direct me to the precise page. I think I showed you or we talked about some of 14 14 Q. I believe it's page 9 of your report. the draft maps that I looked at in the second 15 15 section of my report. Some of them are listed A. Okay. 16 16 Q. At the top you refer to a file that is on page 47. So, yeah, generally there were 17 17 House J-25. others, and I think I've listed some of them 18 18 A. Yeah, that's just a short form. I'll point you already for you. 19 19 to where the full name of the file is. It's Q. Somewhere in your report you've got a statement 20 20 listed at the top of page 3, and I think I read made by Senator Hise about racial data. Could 21 21 you try to find that for me. I think it's on it out a couple times now. It's NC House 22 22 J-25003.bak.zip. So J-25 is just kind of page 39. 23 23 shorthand. A. Sure. I think you're right. 24 24 Q. Was this a bak.zip file? (WHEREUPON, Chen Exhibit 16 was marked 25 25 A. I think you're trying to say bak.zip. for identification.) 365 367 1 Q. Yeah. BY MR. FARR: 2 2 A. Like I was saying earlier, that originally came Q. I'm sorry, Dr. Chen, I think I pulled the 3 from a Maptitude backup file which is what wrong -- no, I did. bak.zip is. It's a Maptitude backup. So that's 16 is a page from the -- transcribed where originally I -- that's where originally from the Senate Redistricting Committee hearing, the draft plan came from. I think I explained and if you look at the first paragraph there in a footnote on page 2, or actually it's just a attributed to Senator Hise, the last sentence in 8 starred note at the bottom of page 2, I just that paragraph, is that the one you're referring 9 explained exactly how I came to get a shape file to in your report? 10 10 version. A. Yes. 11 11 I specifically just instructed Q. Okay. Do you have any evidence that that's a 12 false statement by Senator Hise as it relates to Mr. Esselstyn to export the draft House map in 13 13 this backup in the form of a shape file which he the state computer upon which the maps offered 14 14 then transmitted to me, and that's what I by Senator Hise and Representative Lewis were 15 15 explained in that footnote on page 2. offered to the committees? 16 16 Q. Do you have a different code for this particular A. Generally, I was not trying to assess the 17 17 map than the code you recited for Dr. Hofeller's veracity of that statement. I don't know what 18 18 draft plan? computers you're talking about so obviously I'm 19 19 A. If I could ask you to repeat. not going to be able to speak to that. 20 20 Q. Let's turn to your Senate analysis. Could you Q. Okay. So you're not accusing Senator Hise of 21 21 tell me the name of the Senate folder that you lying? 22 22 A. No, sir. I simply took that statement to help 23 23 A. I'm going to find where the section begins clarify a part of the -- a portion of the 24 24 first. Okay, the section begins on page 25, the adopted criteria as it related to no 25 25 section entitled Dr. Hofeller's Draft Senate Map consideration of racial data.

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EXHIBIT 20

Blakeman B. ("Blake") Esselstyn

34 Wall Street · Suite 701 · Asheville, NC 28801-1141 blake@frontwater.com · 828·338·8528

EDUCATION

- University of Pennsylvania, School of Engineering and Applied Science, Master of Computer and Information Technology, 2003; GPA 4.0
- · Yale University, Geology & Geophysics and International Studies, Bachelor of Arts, 1996

PROFESSIONAL CERTIFICATIONS

- Geographic Information Systems Professional (GISP), #6946, 2009
- American Institute of Certified Planners (AICP), #026364, 2013

EMPLOYMENT (Teaching positions listed separately)

- · Redistricting Consultant, EQV Maps (and as Blake Esselstyn), Asheville, NC, 2016-present
- · Principal Consultant, FrontWater, LLC, Asheville, NC, 2015-present
- Urban Planner III GIS Specialist, City of Asheville Department of Planning and Urban Design, Asheville, NC, 2008-2015
- · Urban Planner II, City of Asheville Planning Department, Asheville, NC, 2004-2008
- · Independent GIS Consultant, Freelance, Asheville, NC, 2003-2004
- · GIS Programmer, Azavea, Inc., Philadelphia, PA, 2002
- Web Support Fellow, University of Pennsylvania, Philadelphia, PA, 2002
- · GIS Analyst, Applied Geographics, Inc., Boston, MA, 2001
- · GIS Intern, Community and Environmental Spatial Analysis Center, Seattle, WA, 2000
- · GIS Analyst, Applied Geographics, Inc., Boston, MA, 2000
- Mapping Technician, Schlosser Geographic Systems, Seattle, WA, 1997
- Digital Mapping Resources Consultant, Social Science Statistical Laboratory at Yale University, New Haven, CT, 1997
- Special Assistant to the CityRoom Coordinator, Neighborhood Partnerships Network, New Haven, CT, 1996-1997
- Lab Monitor, Center for Earth Observation at Yale University, New Haven, CT, 1995

TEACHING EMPLOYMENT

- Adjunct Faculty, Lenoir-Rhyne University, Asheville, NC, 2019
 Taught full-semester graduate-level Geographic Information Systems (GIS) course
- Adjunct Faculty, Western Carolina University, Asheville, NC, 2017
 Taught full-semester graduate-level GIS course
- GIS Course Assistant, University of Pennsylvania, Philadelphia, PA, 2002-2003 Served as teaching assistant for two undergraduate GIS semester courses
- Teacher, Equity American School, Guatemala City, Guatemala, 1998-1999
 Led mathematics department for grades 7-12; taught one technology course
- Teacher, International School of Panama, Panama City, Republic of Panama, 1997-1998
 Taught computer programming and mathematics to secondary school students

SPEAKER OR PANELIST

- "Methods and Techniques in Redistricting," Harvard Geography of Redistricting Conference, Cambridge, MA, 2019
- "Redistricting Software: A new generation of geospatial tools," North Carolina GIS Conference, Winston-Salem, NC, 2019
- "The Latest Mapping Technology," Reason, Reform & Redistricting Conference, Duke University, Durham, NC, 2019
- · "What are all These Districts? How did We Get Here, and Redistricting Reform," Grassroots Democracy: A Nonpartisan Voter Education Series, Leicester, NC, 2019
- · "Re-GIS-tricting? A new generation of redistricting geo-tools," Mountain Regional GIS Alliance, Asheville, NC, 2019
- · "Representing (mis)representation," Tapestry Data Storytelling Conference, University of Miami, Miami, FL, 2018
- · "A Redistricting Tour," Democracy in our Hands Conference, Asheville, NC, 2018
- "Dis-tricks: GIS and Public Understanding of Redistricting," NC ArcGIS Users Group, Asheville, NC, 2018
- · "Visual Explanations of Gerrymandering," Highlands Indivisible, Highlands, NC, 2018
- "Dave's Redistricting App," Metric Geometry of Gerrymandering Workshop, University of Texas, Austin, TX, 2018
- · "Districting Voter Education Forum," Democracy North Carolina, Asheville, NC, 2017
- "When GIS leads planners astray," American Planning Association National Conference, New York, NY, 2017

- · "Conveying Uncertainty with GIS," Azavea, Philadelphia, PA, 2017
- · "GISkepticism," Appalachian State University, Boone, NC, 2017
- · "When GIS leads planners astray," North Carolina Planning Conference, American Planning Association North Carolina Chapter, Asheville, NC, 2016
- "What if the 'S' in GIS stood for Skepticism?" Mountain Regional GIS Alliance, Asheville, NC, 2015
- Open Data? Show Me the Money!" North Carolina GIS Conference, Raleigh, NC, 2015

TEACHING AS SINGLE-CLASS GUEST SPEAKER (On redistricting and/or GIS)

- Lenoir-Rhyne University, Public Policy Processes Course (speaking on redistricting), 2019
- Western Carolina University, Geographic Information Systems Course (speaking on GIS),
 2019
- Duke University, Democracy Lab Seminar (speaking on redistricting software tools), 2018
- University of North Carolina Asheville, Political Science: US Elections Course (speaking on redistricting), 2018
- University of North Carolina Asheville, Mathematics: Voting Theory Course (speaking on redistricting), 2018
- Lenoir-Rhyne University, Sustainability Management & Decision Making Course (speaking on GIS/location intelligence), 2018
- Yale University, School of Organization and Management: Business Information Course (speaking on Maptitude—one class + multiple labs), 1997

LITIGATION EXPERIENCE (As GIS expert)

- Expert witness analysis, deposition, and testimony for City of Asheville, in *Jensen v. City of Asheville*, Buncombe County Superior Court, 2009-2010
- Expert witness analysis and testimony for City of Asheville, in *Hall v. City of Asheville*, Buncombe County Superior Court, 2007
- Expert witness analysis and testimony for City of Asheville, in Arnold v. City of Asheville,
 Buncombe County Superior Court, 2005

PUBLIC REDISTRICTING PROJECT EXPERIENCE

· Software operator and presenter, National Conference of State Legislatures Redistricting Seminar: Redistricting Simulation, Providence, RI, 2019

- Hands-on GIS software workshop session leader, Metric Geometry of Gerrymandering Group (MGGG) Conference at the University of Texas, Austin, TX, 2018
- Co-leader of redistricting hackathon, Metric Geometry of Gerrymandering Group (MGGG)
 Conference at Duke University, Durham, NC, 2017
- Preparation of simulated redistricting plans for Democracy North Carolina's Districting Voter Education Forum, Asheville, NC, 2017
- Hands-on GIS software workshop session assistant, Metric Geometry of Gerrymandering Group (MGGG) Conference at Tufts University, Medford, MA, 2017
- Preparation of redistricting map exhibits used in *Vesilind v. Virginia State Board of Elections* trial, Richmond, VA, 2017
- Redistricting software operator (converting retired jurists' instructions into maps), Duke University and Common Cause NC independent redistricting commission simulation, Raleigh, NC and Winston-Salem, NC, 2016

MEDIA APPEARANCES, OP-EDS, AND CITATIONS

- "With No Supreme Court End to Gerrymandering, Will States Make It More Extreme?"
 (citation/link of blog article), New York Times, June 28, 2019
- "The Supreme Court takes on gerrymandering. A cottage industry wants to prove it's gone too far," *USA Today*, March 26, 2019
- "Gerrymandering: 'Packing' and 'Cracking,' the meat and potatoes of partisan redistricting,"
 USA Today, March 25, 2019
- "NC gerrymandering: Turner, McGrady lead reform effort on redistricting" *Asheville Citizen-Times*, February 14, 2019
- Looking for a Way Forward on Redistricting Reform," Duke Today, January 28, 2019
- "Will Asheville try to stop the state from splitting it into districts?" (map citation), *Asheville Citizen-Times*, January 23, 2019
- · "Some takeaways from NC's elections," WRAL.com, Nov 7, 2018
- "New Asheville districts are racial gerrymandering, black council members say" *Asheville Citizen-Times*, July 2, 2018
- "Legislature sets up districts for Asheville council, eliminates primaries" (map citation),
 Asheville Citizen-Times, June 27, 2018
- "Van Duyn to back Asheville council districts bill if Senate shifts election dates" (map citation), Asheville Citizen-Times, June 21, 2018
- "I Ran the Worst 5K of My Life So I Could Explain Gerrymandering to You," *POLITICO Magazine*, November 15, 2017

- * "Event to cover Nov. vote on City Council districts," Asheville Citizen-Times, October 17, 2017
- "Who makes the grade? This week's editorial report card," *Asheville Citizen-Times*, June 2, 2017
- · "Asheville grows; Charlotte, Raleigh and their suburbs grow faster," *Asheville Citizen-Times*, May 29, 2017
- Boundary issues: Where does Asheville end?" (op-ed), Mountain Xpress, April 29, 2016
- "For better or worse, Asheville growth inevitable," *Asheville Citizen-Times*, November 21, 2015
- · "St. Lawrence Green no litmus test for voters" (op-ed), Mountain Xpress, October 29, 2015

REDISTRICTING AND GIS SOFTWARE EXPERIENCE

- · MapInfo (first used 1996)
- · Maptitude (first used 1997)
- Esri ArcGIS/ArcInfo/ArcView (first used 2000)
- · QGIS (first used 2015)
- Maptitude for Redistricting (first used 2016)
- Dave's Redistricting App (first used 2016)
- DistrictBuilder (first used 2017)
- Esri Redistricting (first used 2018)
- Districtr (first used 2019)

SELECTED AWARDS (As team member)

- G. Herbert Stout Award for Visionary use of GIS by Local Government, 2009
- · International Economic Development Council, Excellence in New Media Initiatives, 2008
- Marvin Collins Outstanding Planning Award for Innovations in Planning Services, Education, and Public Involvement, 2007

ADDITIONAL TRAINING

- Public Data, Public Access, Privacy, and Security: U.S. Law and Policy, Urban and Regional Information Systems Association Certified Workshop, Raleigh, NC, 2015
- An Overview of Open Source GIS Software, Urban and Regional Information Systems Association Certified Workshop, Portland, OR, 2012

- An Introduction to Public Participation GIS: Using GIS to Support Community Decision Making, Urban and Regional Information Systems Association Certified Workshop, Orlando, FL, 2010
- 3-D Geospatial Best Practices and Project Implementation Methods, Urban and Regional Information Systems Association Certified Workshop, Vancouver, BC (Canada), 2006

BOARDS AND COMMISSIONS

· Asheville City Council Appointee to Comprehensive Plan Advisory Committee, 2016-2018

MEMBERSHIPS

- · Urban and Regional Information Systems Association (URISA)
- Mountain Regional GIS Alliance (MRGAC)
- · American Planning Association (APA)