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October 22, 2023

VIA ELECTRONIC MAIL

 TO: Senator Phil Berger President Pro Tempore, North Carolina Senate Representative Timothy Moore Speaker, North Carolina House of Representatives Members, Senate Standing Committee on Redistricting and Elections Members, House Standing Committee on Redistricting

CC: Senator Dan Blue, Senate Democratic Leader Representative Robert T. Reives, II House Democratic Leader

Re: Racially Polarized Voting in North Carolina and its Effect on the 2023 Redistricting Plans

Dear Sirs:

We write in response to the invitation of Chairs Hise and Hall, in the Senate and House Redistricting Committee meetings on October 19, 2023, to bring forward information concerning racially polarized voting in North Carolina that would compel the drawing of districts under Section 2 of the Voting Rights Act ("VRA"). We took the invitation of both the Senate and House Redistricting Committees seriously and in good faith, and offer the enclosed analysis accordingly.

As an initial point, our preliminary analysis indicates that it is possible to draw reasonably configured *Gingles* demonstrative districts¹ in many areas throughout North Carolina with high concentrations of Black voters. Because it is possible to draw many such districts throughout the state, these areas of North Carolina must be studied as part of the redistricting process to determine if racially polarized voting is preventing minority voters from electing

¹ A *Gingles* demonstrative district is a reasonably configured district that contains over 50% of minority voting age population. Such a district satisfies the first precondition laid out in *Thornburg v. Gingles*, 478 U.S. 30 (1986), which articulates the standard for evaluating vote dilution under Section 2 of the VRA.

ABOUT US: Southern Coalition for Social Justice partners with communities of color and economically disadvantaged communities in the South to defend and advance their political, social, and economic rights through the combination of legal advocacy, research, organizing, and communications.

candidates of their choice. We again urge, as a group of more than 20 civil society organizations did in our October 3 Letter,² that the General Assembly change course and conduct a fulsome, robust racially polarized voting analysis in these areas of North Carolina. This is the only way the General Assembly can be sure to fulfill its obligations to comply with the VRA and protect minority voters from unlawful vote dilution everywhere in the state— obligations the U.S. Supreme Court reaffirmed in its decision in *Allen v. Milligan*³ from June of this year.

The *Gingles* framework lays out three preconditions to establishing VRA liability in a redistricting plan. *First*, "the minority group must be able to demonstrate that it is sufficiently large and compact to constitute a majority in a single-member district."⁴ Second, "the minority group must be able to show that it is politically cohesive"⁵ – that is to say, that the minority group typically votes for the same candidates. *Third*, "the minority must be able to demonstrate that the white majority votes sufficiently as a bloc to enable it … usually to defeat the minority's preferred candidate."⁶ If these preconditions are established, the finder of fact must examine the totality of the circumstances to examine whether the vote dilution established by the preconditions is the result of discrimination. Importantly, the VRA requires an "intensely local appraisal' of the electoral mechanism at issue[.]"⁷ Thus, sweeping assertions that there exists no racially polarized voting in the state as whole, based upon erroneous and, at the very least, outdated data, falls short of what the VRA requires.

Our preliminary analysis of the maps released on October 18th indicates that the North Carolina legislature will fall short of the VRA's requirements without further analysis. For example, <u>at a minimum</u>, it is readily apparent that the State Senate plan contained in Senate Bill 758 would unlawfully dilute the voting strength of Black voters in northeast North Carolina in Senate Districts 1 & 2, in violation of the VRA.

The northeastern-most Senate districts proposed in Senate Bill 758, labeled as Senate Districts 1 & 2, both prevent Black voters from electing a candidate of their choice, despite both having sizable Black populations. Attached to this letter as **Appendix A** is a racially polarized voting study concerning electoral outcomes across a variety of election environments in Proposed Senate Districts 1 & 2 (the corresponding districts in the current State Senate plan). This racially polarized voting study demonstrates that Black voters in this area of North Carolina vote cohesively, that Black voters and white voters in this area of North Carolina consistently prefer different candidates, and that white voters typically defeat Black voters in electing candidates in the Proposed Senate Districts 1 & 2. In short, **Appendix A** confirms

- ⁵ *Id.* at 51.
- ⁶ Id.

² Available at <u>https://southerncoalition.org/wp-content/uploads/2023/10/Letter-2023-North-Carolina-Redraw.pdf</u>.

³ 143 S. Ct. 1487 (2023).

⁴ Gingles, 478 U.S. at 50.

⁷ Milligan, 143 S. Ct. at 1503 (citing Gingles, 478 U.S. at 79).

that the second and third *Gingles* preconditions are satisfied in Proposed Senate Districts 1 & 2.

As discussed above, it is possible to draw reasonably configured *Gingles* demonstrative districts in several areas of North Carolina, each of which would satisfy the first *Gingles* precondition. This includes the areas covered by Proposed Senate Districts 1 & 2. When combined with the analysis laid out in **Appendix A**, this shows that all three *Gingles* preconditions are established in the area covered by Proposed Senate Districts 1 & 2, and when combined with North Carolina's pervasive history of discrimination in voting, makes clear that *enacting Proposed Senate Districts 1 & 2 would violate the VRA*.

Because the *Gingles* preconditions are established, the General Assembly has a clear obligation to protect Black voters from vote dilution, by configuring VRA-compliant districts *before* the county clusters. As the North Carolina Supreme Court held two decades ago in *Stephenson v. Bartlett*⁸: "[T]o ensure full compliance with federal law, legislative districts required by the VRA shall be formed *prior to* creation of non-VRA districts"⁹ and those districts must be drawn to give minority voters an opportunity to elect a representative of their choice.

Furthermore, the U.S. Supreme Court has made clear that the General Assembly can comply with the VRA by drawing Black opportunity districts that are either majority-minority districts or, where possible, functioning "crossover districts" that are below 50%+ Black Voting Age Population but still provide Black voters with an equal opportunity to elect a candidate of their choice. In other words, "Section 2 allows States to choose their own method of complying with the Voting Rights Act, which may include drawing crossover districts."¹⁰ This has been confirmed as an appropriate remedy in recent VRA cases, particularly where a crossover district better adheres to traditional redistricting criteria. *See, e.g.*, Remedial Order, *Allen v. Milligan*, Case. No. 2:21-cv-01530 at Dkt. 311 at 6 (Oct. 5, 2023) (holding that a non-majority-minority district remedied a VRA violation).¹¹

The General Assembly has just such a choice available to it in the alternative cluster configurations for this area that the General Assembly used in the current Senate Districts 1 & 3 when enacting the 2022 remedial plan.¹² Current Senate Districts 1 & 3 involve the exact same counties as Proposed Senate Districts 1 & 2, and thus choosing between them *affects no other districts proposed in Senate Bill 758*. And Current Senate Districts 1 & 3 would provide Black voters in this area with an opportunity to elect a candidate of their choice. Also contained in **Appendix A** is a racially polarized voting study examining elections in Current

⁸ 355 N.C. 354 (2002).

⁹ *Id.* at 383.

¹⁰ Bartlett v. Strickland, 556 U.S. 1, 23 (2009).

¹¹ Available at <u>https://southerncoalition.org/wp-content/uploads/2023/10/10.5.23-Milligan-Remedial-Order-1.pdf</u>.

¹² This can be seen in the cluster choices made available to the General Assembly, available at <u>https://webservices.ncleg.gov/ViewDocSiteFile/38491</u>.

Senate Districts 1 & 3. This study confirms again that Black voters and white voters in this area each vote cohesively and that they prefer different candidates. But contrary to Proposed Senate Districts 1 & 2, Black voters are not always defeated by white voters in Current Senate Districts 1 & 3. Instead, Current Senate District 3 gives Black voters a reasonable opportunity to elect a candidate of their choice.

As **Appendix A** demonstrates, Black voters would not have won in every single electoral environment in Current Senate District 3, but Black voters are provided a reasonable, equal opportunity to elect candidates of their choosing. Current Senate Districts 1 & 3 accomplished this outcome while respecting the *Stephenson* clusters *just as well as the Proposed Districts*.

The choice between the Proposed Senate Districts 1 & 2 and the Current Senate Districts 1 & 3 in northeast North Carolina should be a familiar one to the General Assembly. The General Assembly was faced with *precisely* the same choice in the 2022 remedial redistricting process. The 2021 Enacted Senate plan used the configuration found in Proposed Senate Districts 1 & 2; after that plan was struck down by the North Carolina Supreme Court, the General Assembly considered how to modify the Senate map to bring it into compliance with the court's order. Initially, the General Assembly did not plan to change this county grouping; however, after SCSJ, on behalf of Common Cause, pointed out the obvious harm to Black voting power in the General Assembly's choice of grouping, the General Assembly switched course and enacted Current Senate Districts 1 & 3.¹³ When presented with evidence of this threatened vote dilution in 2022, the General Assembly made the right decision: to fix the problem. We ask that the General Assembly make the same choice now, and protect Black voters as required by the VRA.

In closing, we note the extraordinary posture in which this limited analysis is offered. This is a remarkably compressed timeline for evaluating even a single statewide redistricting plan, let alone the four different plans that are currently under consideration in the General Assembly. The General Assembly released initial draft maps on October 18th, and per the Chairs' representations in committee the following day, intends to have passed State House, State Senate, and Congressional plans into law by October 25th.

This week-long period is not nearly enough time for the public to digest and analyze the maps, let alone propose changes. The General Assembly has long been aware that they would likely re-draw redistricting maps,¹⁴ and instead of conducting a full slate of public hearings and working to incorporate public input through a deliberate, careful process, you have instead chosen to go from an unveiling of the maps to their adoption in under a week. While the time to conduct an open process without delaying the primary has come and gone, we note

¹³ Available at <u>https://southerncoalition.org/wp-content/uploads/2023/10/2022.02.11-VRA-Required-Remedial-Districts-in-State-Legislative-Maps-1.pdf</u>, at page 9 ("any constitutional remedial map will have to utilize the alternative Senate cluster "Z1" for northeast North Carolina (one that protects the ability of Black voters to continue electing their candidate of choice)").

¹⁴ <u>http://speakermoore.com/nc-supreme-court-delivers-rulings-reinstate-voter-id-affirm-legislatures-redistricting-authority-end-unconstitutional-felon-voting/</u>.

that any shortcomings in the 2023 redistricting process flow from this decision, and we urge you not to repeat it.

The fact that we write today concerning two specific Senate districts *cannot* and *should not* be read as an indication that there are no VRA concerns elsewhere in the maps under consideration; instead, the fact that a clear, impending violation could be identified even on this truncated timeline should be understood as a warning sign. Under the circumstances, these maps and the process by which they are being considered run an alarming, unjustifiable risk of violating the VRA.

We have also provided preliminary RPV analysis in **Appendix B** for counties with high Black Voting Age concentrations. Even this preliminary analysis, provided in the extremely limited time period which you have afforded for considering this information, still shows **extreme racially polarized voting in North Carolina's Black Belt.** The unlawful vote dilution in the geographic area discussed in this letter, as well as the potential for such dilution in areas across North Carolina, should be examined for all of the redistricting plans under current consideration by the General Assembly.

We hope the General Assembly will utilize this information and perform additional analysis so that it follows well-established law and ensures that minority voters in North Carolina have an equal opportunity to elect candidates of their choice. We are further hopeful that, in light of the recent guidance provided in *Milligan*, the General Assembly will not "misconstrue" what the law requires and take license to pack Black voters throughout the state, diminishing their voting influence overall, as has occurred in the past. *Covington v. North Carolina*, 316 F.R.D. 117, 168 (M.D.N.C.), *summary affirmed*, 137 S. Ct. 2211 (2017).

We would be happy to provide any additional information that may be helpful in this process.

Respectfully,

Hilary Harris Klein Jeff Loperfido Chris Shenton Lily Talerman

Counsel, Southern Coalition for Social Justice

Expert Memo of Dr. Kassra A.R. Oskooii

Summary of Racially Polarized Voting and Electoral Performance Analyses

North Carolina Senate Legislative Districts

October 22, 2023

I. Background and Qualifications

- 1. I am a tenured, Associate Professor and Provost Teaching Fellow in the department of Political Science and International Relations at the University of Delaware ("UD"), having joined the faculty in 2016 as an Assistant Professor. I am also an affiliated faculty member at UD's Data Science Institute, Master of Science in Data Science, Center for Political Communication, and Center for the Study of Diversity.
- 2. My research and teaching focuses on American political behavior, political methodology, political psychology, political representation, voting rights, and redistricting. I received my Ph.D. in Political Science, specializing in American politics, minority and race politics, and political methodology, from the University of Washington in Seattle, Washington in 2016. Prior to that, I received my Master's Degree in Political Science at the University of Washington and received a political methodology field certificate from the Center for Statistics & the Social Sciences in 2013. I received my Bachelor of Arts in Political Science in 2008 from the University of Washington, with minors in Human Rights and Law, Societies, and Justice. My research has appeared in numerous leading peer-reviewed, social science journals, including Sociological Methods and Research, Political Behavior, Public Opinion Quarterly, Political Psychology, British Journal of Political Science, Electoral Studies, Perspectives on Politics, Urban Affairs Review, State Politics and Policy Quarterly, and Journal of Public Policy.
- 3. Of relevance to this report, in 2022 I co-authored a peer-reviewed article in the journal *Sociological Methods and Research* titled "Estimating Candidate Support in Voting Rights Act Cases: Comparing Iterative El & El-RxC Methods."¹ I also co-developed a software package called "eiCompare," which is a reproducible code that quantifies, compares, and represents racially polarized voting data. The publication describing this package was accepted in the peer-reviewed *The R Journal* in 2016, in a paper titled "eiCompare: Comparing Ecological Inference Estimates across EI and EI:RxC."² This package enables social scientists to use aggregate-level election data to predict voting behavior by racial or ethnic group

¹ Available at <u>https://journals.sagepub.com/doi/full/10.1177/0049124119852394</u>.

² Available at <u>https://journal.r-project.org/archive/2016/RJ-2016-035/RJ-2016-035.pdf</u>.

affiliations, and to my knowledge it has been cited in academic papers and in court filings.³

- 4. As a voting rights and redistricting expert, I have over a decade of experience in examining elections and maps in jurisdictions in states such as California, Florida, Georgia, Maryland, New York, Texas, and Washington. I have also have been retained in redistricting and voting rights related cases such as *Dickinson Bay Area Branch NAACP v. Galveston County, Texas*, No. 3:22-cv-117-JVB (S.D. Tex.) (deposed and testified), *Baltimore County Branch of the NAACP v. Baltimore County, Maryland*, No. 1:21-cv-03232-LKG (D. Md.), *Common Cause Florida v. Lee*, No. 4:22-cv-00109-AW-MAF (N.D. Fla.), *Common Cause Florida v. Byrd*, No. 4:22-cv-00109-AW-MAF (N.D. Fla.) (deposed), *Reyes v. Chilton*, No. 4:21-cv-05075-MKD (E.D. Wash.) (deposed), *Caroline County Branch of the NAACP v. Town of Federalsburg*, Civ. Action No. 23-SAG-00484 (D. Md. 2023), and *Coca v. City of Dodge City, et al.*, Case No. 6:22-cv-01274 (D. Kan. 2022) (deposed).
- 5. As an expert consultant in the area of voting rights and redistricting, I have also advised various organizations such as the American Civil Liberties Union (ACLU), National Association for the Advancement of Colored People (NAACP), Southern Poverty Law Center (SPLC), Southern Coalition for Social Justice (SCSJ), and UCLA's Voting Rights Project. I have also advised the State of Maryland on its 2021 Congressional and Legislative redistricting plans. Finally, I have examined and redrawn the 2022 school board district boundaries of the Roswell Independent School District in the state of New Mexico. More information about my qualifications and expert witness and consulting background, including a full list of my peer-reviewed publications, is included on my Curriculum Vitae, included with this Memo.
- 6. References to documents and data I include in this Memo are meant to provide examples of supporting information, but are not intended to be comprehensive or exhaustive lists of all known support. The information in this Memo is based upon information that has been made available to me or

³ For example, the Southern District of New York accepted my colleague Dr. Matthew Barretto's use of the eiCompare software in the matter *NAACP v. E. Ramapo Cent. Sch. Dist.*, 462 F. Supp. 3d 369, 383 (S.D.N.Y. 2020) ("Through a statistical package and method called eiCompare, Dr. Barreto then used both King's EI and RxC to estimate voting preference by race and compared the results").

known to me to date. My work in this matter is ongoing, and I reserve the right to modify or supplement any conclusions as additional information is made available or as I perform further analysis.

II. Scope of Inquiry

7. I was asked by Southern Coalition for Social Justice to examine whether Racially Polarized Voting (RPV) patterns between Non-Hispanic White and Non-Hispanic Black voters exists in (a) Senate Legislative Districts (SLDs) 1 and 3 of the 2022 Enacted SLD map and (b) SLDs 1 and 2 of the 2023 Proposed SLD map. Additionally, I was asked to examine the extent to which Black voters in each SLD have the opportunity to elect their candidates of choice.

III. Executive Summary

- 8. My findings regarding RPV patterns are based on a comprehensive list of contested general elections held in years 2020 and 2022. To examine the presence or absence of RPV, I relied on two well-established and rigorous statistical methods to estimate voting patterns by race: the Iterative Ecological Inference ("EI") method and the EI Rows by Columns ("RxC") method. The statistical methods I rely on to estimate vote choice by race are agnostic as to *why* voters support or oppose different candidates; the analysis simply shows *which* candidates different groups of voters prefer.
- 9. I also conducted electoral performance analyses across the different SLD boundaries to determine whether Non-Hispanic Whites vote as a bloc to usually defeat Non-Hispanic Black candidates of choice. A performance analysis reconstructs previous election results based on enacted and proposed SLD boundaries to determine whether the amalgamation of the voting precincts will elect or defeat Black-preferred candidates.
- 10. Overall, the accumulated evidence leads me to conclude the following:
 - a. By using two ecological inference methods, RxC and iterative EI, which are the standard methods of measuring RPV, and applying these to past electoral results paired with voter demographic data, I have identified definitive evidence of RPV patterns in SLDs 1 and 3 of the enacted map and SLDs 1 and 2 of the proposed map.

- b. Specifically, Black voters in each SLD vote cohesively such that a large majority of them favor the same candidates across 27 general election contests.
- c. White voters in each SLD engage in bloc voting such that a large majority of the White voters favor their own set of candidates. The candidates favored by a large majority of White voters in each SLD are different than, and ran against, those favored by the Black voters.
- d. Electoral performance results show that White voters are able to vote in sufficient quantity to defeat any of the Black-preferred candidates in SLD 1 and 2 of the 2023 proposed map and SLD 1 of the 2022 enacted Map. However, the evidence suggests that White voters are not able to usually defeat Black-Preferred candidates in SLD 3 of the 2022 enacted map.

IV. Data and Analytical Approach

A. Election Data

- 11. For this inquiry, I examined every single contested⁴ statewide general election help in years 2020 and 2022. In total, I examined 27 contested Federal, Council of State, and Judicial elections.
- 12. I downloaded precinct-level/sorted election results from the North Carolina State Board of Elections website.⁵

B. Voter Demographic Data

13. I downloaded precinct-level voter demographic data by race and ethnicity for the 2020 and 2022 general elections from the North Carolina State Board of Elections website.⁶

C. Precinct and SLD Map Boundaries

⁴ Contested elections in this context are defined as elections in which at least two candidates run against each other. An election must be contested to use it to examine RPV patterns.

⁵ Election Data Source: <u>https://dl.ncsbe.gov/?prefix=ENRS/2022_11_08/results_precinct_sort/</u> and <u>https://dl.ncsbe.gov/?prefix=ENRS/2020_11_03/results_precinct_sort/</u>

⁶ Voter Demographic Data Source: <u>https://dl.ncsbe.gov/?prefix=ENRS/2022_11_08/</u> and <u>https://dl.ncsbe.gov/?prefix=ENRS/2020_11_03/</u>

- 14. Precinct shapefiles for years 2020 and 2022 were obtained from North Carolina State Board of Elections website.⁷ I also supplemented this data with Redistricting Hub's "North Carolina 2022 General Election Precinct-Level Results and Boundaries" shapefile.⁸
- 15. I downloaded the 2022 Enacted SLD boundaries and the 2023 Proposed SLD boundaries from the General Assembly's website.

D. RPV Methodology

- 16. I use two state of the art ecological inference methods⁹ to estimate the vote choice of Non-Hispanic White and Non-Hispanic Black voters in each of the SLD boundaries identified above.
- 17. The first method is commonly referred to as King's Iterative EI,¹⁰ often preferred when there are two racial groups and two candidates. The second—and more computationally intensive method—is called EI Rows by Columns (RxC),¹¹ which allows multiple rows (candidates) and multiple columns (racial groups) to be estimated simultaneously in one model (rather than iteratively). Both versions of EI operate similarly in that the following VTD/Precinct-level¹² data is required to estimate vote choice by racial or ethnic groups: (1) the percentage of each racial and ethnic group under consideration; (2) the percentage of votes received by each candidate; and (3) the total votes cast between the candidates. A comprehensive assessment of the two methods using VTD/Precinct-level data ranging from two

epidemiology and marketing to sociology and quantitative history." King, G. and Roberts, M., 2012, *EI: a (n R) program for ecological inference*, Harvard University, at 2.

⁷ Precinct Shapefiles Source: <u>https://dl.ncsbe.gov/?prefix=PrecinctMaps/</u>

⁸ Source: <u>https://redistrictingdatahub.org/dataset/north-carolina-2022-general-election-precinct-level-results-and-boundaries/</u>

⁹ "Ecological inference is the process of using aggregate (*i.e.*, ecological) data to infer discrete individual-level relationships of interest when individual-level data are not available. Ecological inferences are required in political science research when individual-level surveys are unavailable (*e.g.*, local or comparative electoral politics), unreliable (racial politics), insufficient (political geography), or infeasible (political history). They are also required in public policy (*e.g.*, for applying the Voting Rights Act) and other academic disciplines ranging from

¹⁰ King, G., 2013, A Solution to the Ecological Inference Problem, Princeton University Press.

¹¹ Rosen, O., Jiang, W., King, G. and Tanner, M.A., 2001, *Bayesian and frequentist inference for ecological inference: The R× C case*, Statistica Neerlandica, 55(2), at 134-156.

¹² VTDs are the U.S. Census geographic equivalent of county election precincts. They are created for the purposes of relating U.S. Census data to election precinct data.

candidates and two racial groups to multiple candidates and up to four racial groups suggests that they produce substantively similar findings.¹³

- 18. To estimate vote choice with each EI method, I relied on the "eiCompare" R software package,¹⁴ which includes the necessary functions to estimate vote choice by race with both RxC and iterative EI.
- 19. In general, RPV occurs when a minority racial group or groups (*e.g.*, Black voters) favor candidates (termed "candidates of choice") that are disfavored by the majority racial group (*e.g.*, White voters). If a majority of voters from both the minority and majority demographic groups vote for the same candidate in a contest, RPV is usually not present in that contest.
- 20. In situations where RPV is present, majority voters, for example, White voters, may be able to prevent minority voters, for instance, Black voters, from electing their candidates of choice by voting as a bloc against minority voters' preferred candidates.
- 21. An electoral performance analysis¹⁵ is conducted to determine if RPV in a jurisdiction usually results in blocking minority voters from electing their candidates of choice.

E. Electoral Performance Methodology

- 22. An electoral performance analysis is a simple, yet effective approach to examine the success (or failure) of different candidates under different map/district boundaries.
- 23. To conduct a performance analysis, one does not need to rely on any estimation methods. All that is required is to identify the VTDs/Precincts that fall inside the electoral jurisdiction of interest (*i.e.*, SLD 1 boundaries of the 2022 Enacted and 2023 Proposed maps) and then aggregate the candidate votes in the subject jurisdiction. The aggregated vote total for each

¹³ Barreto, M., Collingwood, L., Garcia-Rios, S. and Oskooii, K.A., 2022, *Estimating candidate support in Voting Rights Act Cases: Comparing iterative EI and EI-R×C Methods*, Sociological Methods & Research, 51(1), at 271-304.

¹⁴ Collingwood, L., Oskooii, K., Garcia-Rios, S. and Barreto, M., 2016, *eiCompare: Comparing Ecological Inference Estimates across EI and EI: RxC.* R J., 8(2), at 92.

¹⁵ Another term used by scholars and the courts is called a "functional" analysis. In this Memo, an electoral performance analysis is interchangeable with a functional analysis.

candidate is then divided by the total votes cast in that given election in the subject jurisdiction (*i.e.*, SLD 1) to produce vote percentages.

24. This analysis, which reconstructs previous election results based on enacted or newly proposed district boundaries, will demonstrate which contests the preferred candidates of minority voters (*e.g.*, Black voters) win or lose.

F. RPV Analyses and Results

- 25. In this section I present ecological inference results to determine whether RPV patterns exist in each of the aforementioned SLDs such that (*i*) Black voters are politically cohesive in that they tend to vote for the same candidates and (*ii*) White voters tend to vote as a bloc in favor of their own set of candidates that are different than, and ran against, those favored by the Black voters.¹⁶
- 26. I first present RPV findings across all the electoral precincts covered in SLDs 1 and 3 of the 2022 enacted map and SLDs 1 and 2 of the 2023 proposed map. I then present RPV results for each of the SLDs on their own.
- 27. Figure 1 reports combined 2022 Enacted Map SLDs 1 and 3 RxC vote estimates of White and Black voters for each candidate across all the 27 election contests analyzed. The left side of this figure lists the name of each contest, the year in which the elections were held, and the associated candidate names. The color-coded panels report vote estimates for White and Black voters. The bars in the plot represent estimated vote percentages and the lines/bands attached to each bar represent 95% confidence intervals (CIs) around the point estimates.¹⁷ For readability, vote estimate percentages are also provided at the tail ends of the CI bands.

¹⁶ In all analyses I examine the vote choice of Non-Hispanic White and Non-Hispanic Black voters. I also control for all other racial/ethnic demographic groups in the models.

¹⁷ Confidence Intervals ("CIs") are the range of values, bounded above and below the point estimate, that contain the unknown, true parameters with a certain degree of probability. Scientific studies often report 90% or 95% CIs, with some studies, depending on the context, reporting 67% CIs or lower. CIs are sensitive to the sample size and the standard deviation of the study groups. If the sample size is small and dispersion is high, CI bands become wider. Jurisdictions (*e.g.*, towns, cities, school districts, counties, regions) have different racial group concentrations and sizes across different voting precincts. Therefore, analysts should not apply overly strict or rigid guidelines. CIs are just one piece of information that may aid analysts in the overall assessment of RPV patterns.



Figure 1: RxC Estimates for Candidates by Race within the 2022 Enacted SLDs 1 & 3 Combined

- 28. As is clearly apparent, across all 27 election contests a majority of Black voters (often over 95 percent) prefer candidates opposed by a majority of White voters (often over 80 percent of White voters).
- 29. For example, starting with the first election on the plot, an estimated 98.21 percent of Black voters voted for Cheri Beasley in the 2022 U.S. Senate contest, while only 2.6 percent of Black voters voted in favor of Ted Budd. In contrast, Cheri Beasley only received 19.7 percent of the White vote,

while her opponent, Ted Budd, received an estimated 80.2 percent of the White vote.

30. This pattern of Black and White voters favoring *opposing* candidates across every single election analyzed is evident in the iterative EI results reported in Figure 2 and within each of the SLDs (i.e., SLD 1 and SLD 2) examined separately as shown in Figures 3 and 4.

Figure 2: Iterative EI Estimates for Candidates by Race within the 2022 Enacted SLDs 1 & 3 Combined





Figure 3: RxC Estimates for Candidates by Race within the 2022 Enacted SLD 1 Only



Figure 4: RxC Estimates for Candidates by Race within the 2022 Enacted SLD 3 Only

31. RPV patterns are also clearly present in the 2023 Proposed SLDs 1 and 2. Figure 5 reports RxC vote estimates by race for SLDs 1 and 2 combined. As illustrated, Black voters are highly politically cohesive in that they prefer their own sets of candidates that are opposed by the vast majority (often over 80%) of White voters.



Figure 5: RxC Estimates for Candidates by Race within the 2023 Proposed SLDs 1 & 2 Combined

32. Once again, the pattern of Black and White voters favoring *opposing* candidates is evident in the iterative EI results and within each of the SLDs examined separately as show in figures 6, 7, and 8.

			EI Iterative Estimates Fo	r SLD1 & SLD2 Combined	
2022	Budd	••••••••••••••••••••••••••••••••••••••	+ 80.2	+ 2.5	
U.S. Senate	Beasley	19.7			+ 97.4
2022	Dietz	10.5	+ 80.4	H 3	
Supreme Court 3	Inman	19.5			96.9
2022 Supreme Court 5	Allen Ervin	20.2	79.8	₩ 3.3	₩ 96.7
2022	Flood		+80.1	+23	
Appeals Court 8	Thompson	+ 19.8	0011		+ 97.7
2022	Stroud		₩ 81.8	± 2.9	
Appeals Court 9	Salmon	+ 18.1			95.8
2022 Appeals Court 10	Tyson	10.4	₩ 80.6	H 3	05.9
2022	Stadina	19.4	1 20 2	136	93.0
Appeals Court 11	Jackson	+ 19.2	00.0	F 5.0	+ 97.1
2020	Trump		82.6	₩ 0.9	
President	Biden	+ 17.2			₩ 98.9
2020 U.S. Sonata, Ci	Tillis	17.7	+ 82.3	0.8	
U.S. Senate Ch	nningnam	• 17.7	70.5	107	
2020 Governor	Forest Cooper	20.5	- 79.5	10.7	98.8
2020	Robinson		+ 83.2	+ 1.2	
Lt. Governor	Holley	H 16.5			₩ 98.7
2020	ONeill		+ 80.7	0.8	
Attorney General	Stein	H 19.2			₩ 99
2020 Auditor	Street Wood	+ 21.4	₩ 78.6	F 0.9	+ 98.6
2020	Troxler		84.9	+2.1	
Agriculture	Vadsworth	+ 15	010		+ 98.9
2020	Causey		+ 81.7	0.8	
Insurance	Goodwin	18.1			99.1
2020 Labor	Dobson Holmes	18.3	+ 81.6	0.8	08.0
2020	Sykes	102	+ 78.4	h 1	
Secretary of State	Marshall	+ 21.6	10.4		₩ 98.9
2020	Truitt		+ 82.3	₩1	
Superintendent	Mangrum	+ 17.7			₩ 98.8
2020 Treasurer	Folwell	18 1	₩ 81.8	+ 2.8	07.2
2020	Nauby	10.1	80.3	0.8	91.2
Supreme Court 1	Beasley	H 19.6	00.5	10.8	₩ 98.9
2020	Berger		₩ 81.6	₩ 0.9	
Supreme Court 2	Inman	+ 18.4			99
2020 Supreme Court 4	Barringer	- 10	H 81	0.8	08.6
2020	A Wood	19		100	7 90.0
2020 Appeals Court 4	A_wood Shields	H 17.1	82.8	r 0.9	98.8
2020	Gore		82.2	+ 0.7	
Appeals Court 5	Cubbage	+ 17.7			+ 98.9
2020 Appeals Count 6	Dillon	16.0	+ 83.1	0.8	08.9
Appears Court o	Styers	10.9	182.6		98.8
2020 Appeals Court 7	Carpenter Young	17.4	1 82.0	F 1	98.7
2020	Griffin		82.2	H1	
Appeals Court 13	Brook	17.6	60 80 100		98.8
	(40 40	00 00 100 6 Vote fo	r Candidata 40 60	60 IUU

Figure 6: Iterative EI Estimates for Candidates by Race within the 2023 Proposed SLDs 1 & 2 Combined Racially Polarized Voting Analysis Results (2023 Proposed Map)

			RxC Estin	mates For SLD1 Only	p /	
2022	Budd	White	70	- 3	Black	
U.S. Senate Bea	isley	+ 21	19	- 3		⊮ 97
2022 L Supreme Court 3 In	Dietz man	21.6	78.4	3.6		96.4
2022 A	Allen	22.1	77.8	⊣ 4.6		05.4
2022 F	rvin lood	22.1	78.2	+ 2.9		95.4
Appeals Court 8 Thomp	pson	21.8	80.2			⊩ 97.1
Appeals Court 9 Sal	lmon	H 19.8	r 80.2			⊢ 96.4
2022 T Appeals Court 10 Ad	yson lams	+ 21.3	+ 78.7	<u>4.1</u>		⊢ 95.9
2022 Star Appeals Court 11 Jac.	ding kson	+21.1	⊦ 78.8	₩ 3.8		⊢ 96.2
2020 Tr President P	ump	10.0	⊢ 80	H 0.9		00.0
2020	Tillis	- 193	⊬ 81	⊣ 1.3		90.0
U.S. Senate Cunning	ham orest	⊮ 19	+ 77 7	109		99.2
Governor Co	oper	⊢ 22.3				₩ 98.7
2020 Robin Lt. Governor He	nson olley	⊢ 19	₩ 81	0.9		+ 99
2020 Ol Attorney General	Neill Stein	₩ 20.2	₩ 79.8	F 1		⊦ 98.7
2020 S Auditor W	treet Vood	+ 22.6	₩ 77.4	1		- 08 8
2020 Tra	oxler		⊣ 82	H 0.7		1 20.0
Agriculture Wadsw 2020 Ca	orth usev	⊩ 17.9	H 79.5	H1		+ 98.8
Insurance Good	dwin	+ 20.4	79.6			⊩ 98.8
2020 Dou Labor Hou	bson Imes	+ 20.3	H /9.6	F 0.9		⊩ 98.8
2020 Secretary of State Mars	lykes shall	₩ 22.6	₩ 77.4	0.8		+ 98.8
2020 T Superintendent Mana	ruitt rum	⊢ 19.8	₩ 80.2	H 1.1		99.2
2020 Fol	lwell	10.2	₩ 80.7	₩ 2.3		
2020 Ne	uerji ewby	- 19.2	⊨ 78.9	1.8		₽97.8
Supreme Court 1 Bed	asley	⊣ 21.1	79.2	109		⊦ 98.8
Supreme Court 2 In	man	1 20.8	79.2			⊩ 98.7
2020 Barrie Supreme Court 4 D	nger Davis	- 20.7	₩ 79.4	F 1.1		⊢ 98.5
2020 A_W Appeals Court 4 Shi	Vood ields	⊢ 19.4	⊢ 80.6	0.8		⊩ 98.8
2020 Court 5 Cubi	Gore base	⊬ 20 1	₩ 79.8	0.8		+ 98 8
2020 D	illon	10.0	₩ 80.8	H 1.2		
Appeals Court 6 St 2020 Carpe	tyers enter	+ 19.2	⊢ ⊲ 80	0.9		₩ 98.4
Appeals Court 7 Yo	oung	H 20	80	L 1		⊦ 98.7
Appeals Court 13 B	rook	1 20 20 40 60	80 100	0 20	40 60 80	98.8
			% V	ote for Candidate		

Figure 7: RxC Estimates for Candidates by Race within the 2023 Proposed SLD 1 Only Racially Polarized Voting Analysis Results (2023 Proposed Map)

		Racially Fold Leed Folding Analy RxC Estimates	For SLD2 Only	ip)	
2022 Bud	d	81.9	0.7	Віаск	
U.S. Senate Beasle	y 18.1				99.2
2022 Diet Supreme Court 3 Inma	n 17.3	82.8	0.7		99.2
2022 Alle	n	+ 81.7	H 0.8		
Supreme Court 5 Ervi	n 18.3				⊩ 98.8
2022 Floo Appeals Court 8 Thompso	n + 17.8	H 82.2	0.7		+ 99
2022 Strou	d	₩ 83.6	0.7		
Appeals Court 9 Salmo	n H 16.4				99.3
2022 Tyso Appeals Court 10 Adam	n s + 17.5	+ 82.4	H 0.9		⊩ 99
2022 Stadin	g and a second sec	+ 82.5	+0.9		
Appeals Court 11 Jackso	H 17.5		-		+ 99.2
2020 Trum President Bide	p	⊣ 84.5	₩ 1.2		₩ 98 7
2020 Tilli	s	+ 83	⊦ 1.1		
U.S. Senate Cunninghan	n 17				⊢ 98.4
2020 Fores Governor Coope	r H 19.4	₩ 80.6	H1		₩ 98 8
2020 Robinso		+ 85	H 1.6		
Lt. Governor Holle	y 15.2				⊢ 98.4
2020 ONei Attorney General Stei	18 1	+ 81.8	0.8		98.6
2020 Stree	t	H 79.7	0.8		1 90.0
Auditor Woo	d 20.2				⊦ 98.8
2020 Troxle	r 13	⊢ 86.9	⊢1.3		08 5
2020 Cause	v V	+83.1	F 0.9		100
Insurance Goodwi	n 16.8	0011			⊢ 98.1
2020 Dobso Labor Holms	n • 17.2	₩ 82.8	H 1.1		- 08 5
2020 Syke	s 17.2	H 79.4	H1.1		90.0
Secretary of State Marsha	4 20.5				⊢ 98.7
2020 Trui Superintendent Managem	1 16.5	⊣ 83.4	H 1.1		L 08 7
2020 Folwe	10.3	+ 83.1	H 2.7		98.7
Treasurer Chatter	ii 16.9	05.1	2.7		⊢ 97.2
2020 Newb	y	⊣ 82.2	H 1.3		L 08 2
2020 Berge	r 17.3	₩ 82.9	111		- 98.2
Supreme Court 2 Inma	n 17.1	010			⊩ 98.6
2020 Barringe	r	₩ 82.6	1.2		08
2020 A Woo	17.4	+ 84 3	0.5		- 98
Appeals Court 4 Shield	s 15.8		1012		⊢ 99
2020 Gor Appeals Court 5 Cubbas	e + 16.4	₩ 83.6	1		00 0
2020 Dillo	10.4	84.6	0.7		98.8
Appeals Court 6 Styer	s 15.4	04.0			⊦ 99
2020 Carpente	r	+ 84.2	0.6		00.2
2020 Criffi	15.8	837	108		99.2
Appeals Court 13 Broo	k 16.2	0.00			+ 98.9
	0 20 40 6	50 80 100 % Vote for	r Candidate	40 60 80	100

Figure 8: RxC Estimates for Candidates by Race within the 2023 Proposed SLD 2 Only Recipily Polarized Voting Analysis Results (2023 Proposed Man)

G. Performance Results

33. As previously mentioned, an electoral performance analysis reconstructs election results based on the 2022 Enacted and 2023 Proposed SLD boundaries to determine whether the amalgamation of the precincts under each SLD will elect or defeat Black-preferred candidates.

34. Figure 9 reports the percentage of the votes each candidate received in each contest within SLDs 1 and 3 of the 2022 Enacted Map. I also include the average margin of victory across all the elections for each SLD to aid in the overall assessment of the results.



Figure 9: Electoral Performance Results of the 2022 Enacted SLDs 1 and 3

35. As the results help illustrate, Black-preferred candidates lost in every single election in the 2022 Enacted SLD 1 by an average margin of 24.1 percentage points. However, SLD 3 is a competitive district that elected Black-preferred candidates in 20 out of 27 elections examined.

- 36. Across both districts the margin of victory between presidential and midterm election cycles is notable in that Black-preferred candidates performed worse in the lower turnout (midterm) elections.
- 37. Figure 10 reports the electoral performance results of SLDs 1 and 2 of the 2023 Proposed Map.
- 38. Unlike the previous results in which Black voters had the opportunity to elect their candidates of choice in SLD 3 of the Enacted Map, Black-preferred candidates lost in every single election under the Proposed SLD 1 and 2 boundaries.
- 39. More specifically, Black-preferred candidates lost by an average margin of 10.1 percentage points in SLD 1 and by an average margin of 13.6 percentage point in SLD 2.
- 40. Given the strong patterns of RPV in this area of the state, a reduction of Black voters within a district corresponds to a lower probability of success for Black-preferred candidates. In year 2020, only about 26 percent of all voters within the Proposed boundaries of SLD 1 and 2 were Non-Hispanic Black voters. In contrast, about 40 percent of all voters within the 2022 Enacted boundaries of SLD 3 were Non-Hispanic Black voters.¹⁸ Given these facts, it is not surprising that SLDs 1 and 2 of the Proposed Map does not perform for Black-preferred candidates.

¹⁸ Non-Hispanic Black voters consisted of about 14 percent of SLD1 voters based on precinct-level 2020 Voter Demographic data.



Figure 10: Electoral Performance Results of the 2023 Proposed SLDs 1 and 2

H. Conclusion

41. Based on the accumulated evidence, I find strong and consistent RPV patterns across all the SLDs that I examined.

- 42. In this part of the state, Black and White voters clearly prefer opposing candidates. The candidates preferred by Black voters consistently lose in all of the SLDs except for SLD 3 under the 2022 Enacted Map.
- 43. The findings and conclusions in this Memo are based upon information that has been made available to me or known by me to date. My work in this matter is ongoing and I reserve the right to modify, update, or supplement my analyses, findings, and any conclusions as additional information is made available to me or as I perform further analysis.

Jr. Oshan

Kassra A.R. Oskooii October 22, 2023



APPENDIX B

The following is a preliminary analysis of voting patterns by race in select counties in North Carolina with high concentrations of Black Voting Age Population (BVAP), as indicated by the U.S. Census and available at <u>https://www.census.gov/data/tables/time-series/demo/popest/2020s-counties-total.html</u>.

This analysis was performed using the RxC ecological inference method using publicly-available code available at: <u>https://cran.rstudio.com/web/packages/eiCompare/index.html</u>.

Election results and demographic voting data were sourced from: <u>https://dl.ncsbe.gov/?prefix=ENRS/2008_11_04/</u> and <u>https://dl.ncsbe.gov/?prefix=ENRS/2022_11_08/</u>.

RXC ECOLOGICAL INFERENCE ESTIMATES BY COUNTY							
County	BVAP	Race	Beasley/Budd	Adams/Tyson	Thompson/Flood		
Dertie	60.4%	White	11.3 / 88.7	9.1 / 90.9	9.1 / 90.9		
Bertie		Black	94.3 / 5.7	96 / 4	95.9 / 4.1		
Cumbarland	nd 40.5%	White	12 / 88	11.1 / 88.9	12.7 / 87.3		
Cumberland		Black	97.2 / 2.8	97.6 / 2.4	97.5 / 2.5		
Edgecombe	56.4%	White	14.7 / 85.3	13.2 / 86.8	13.1 / 86.9		
Edgecombe		Black	96.8 / 3.2	97.5 / 2.5	97.7 / 2.3		
Gates	31.4%	White	26 / 74	28.6 / 71.4	30.4 / 69.6		
Carob		Black	69.1 / 30.9	66.9 / 33.1	66.3 / 33.7		

ABOUT US: Southern Coalition for Social Justice partners with communities of color and economically disadvantaged communities in the South to defend and advance their political, social, and economic rights through the combination of legal advocacy, research, organizing, and communications.

Creare	37.3%	White	24.5 / 75.5	23.4 / 76.6	26.1 / 73.9
Greene		Black	69.2 / 30.8	71.6 / 28.4	68.8 / 31.2
Unlifay	51.7%	White	16.6 / 83.4	16.5 / 83.5	17.7 / 82.3
Пашах		Black	94.1 / 5.9	93 / 7	93.1 / 6.9
Hertford	57.3%	White	18.2 / 81.8	19.6 / 80.4	19.7 / 80.3
mentiona		Black	93.3 / 6.7	93.1 / 6.9	93.8 / 6.2
Lenoir	40.5%	White	11.6 / 88.4	10.7 / 89.3	11.6 / 88.4
		Black	95.8 / 4.2	96.4 / 3.6	95.9 / 4.1
Mortin	41.0%	White	22.9 / 77.1	23.3 / 76.7	25.4 / 74.6
Iviaitiii		Black	80 / 20	79.4 / 20.6	79.1 / 20.9
Northampton	n 55.2%	White	15.6 / 84.4	16.6 / 83.4	19.2 / 80.8
Tormanipton		Black	93.6 / 6.4	92.6 / 7.4	92.2 / 7.8
Pitt	35.7%	White	30.1 / 69.9	30.1 / 69.9	29.9 / 70.1
1 111		Black	91.2 / 8.8	91.1 / 8.9	92.3 / 7.7
Vance	50.0%	White	23.3 / 76.7	21.5 / 78.5	23.6 / 76.4
vance		Black	90.2 / 9.8	91 / 9	91.9 / 8.1
Warren	10 20%	White	26.9 / 73.1	27.6 / 72.4	26.7 / 73.3
warren	47.570	Black	91.7 / 8.3	90.8 / 9.2	92.2 / 7.8
Wayne	31.8%	White	11.9 / 88.1	11.2 / 88.8	11.9 / 88.1
wayne		Black	95.3 / 4.7	95.4 / 4.6	95.3 / 4.7
Wilson	39.1%	White	18.2 / 81.8	18.1 / 81.9	18.6 / 81.4
** 115011		Black	96 / 4	95.2 / 4.8	95.3 / 4.7