



February 8, 2023

Karyn Douglas
Montgomery County Clerk
100 E Main St
Crawfordsville, IN 47933

Dear Clerk Douglas,

On February 7, 2023, the VSTOP team successfully completed a post-election audit in Montgomery County, Indiana, for the 2022 General Election. The VSTOP Team members who participated in person included Dr. Chad Kinsella, Co-Director; Liz Beatrice, Program Manager; and Marc Chatot, Certification Specialist. This activity was carried out by the VSTOP Team in collaboration with the Montgomery County Audit Team. The Montgomery County Team members included Karyn Douglas, Montgomery County Clerk; and Leah Denbo, Montgomery County Chief Deputy Election Coordinator.

The VSTOP Team would like to thank Clerk Douglas, the Montgomery County Audit Team, and the Montgomery County Election Board for hosting this post-election audit. Several preparatory meetings were conducted with the county in the weeks leading up to the post-election audit and Karyn Douglas provided valuable information and data that was used to conduct the audit.

The post-election audit began with an introductory presentation to the county participants on the morning of the audit. This presentation included the generation of a 20-digit seed number, in collaboration with all county participants. The seed number produced is as follows: 77938839659252595910.

The VSTOP team would also like to take this opportunity to provide a brief description of the post-election audit conducted and the contests that were audited. Montgomery County uses the **Unisyn OpenElect 2.0A Optical Scan voting system**. The post-election audit was carried out for the total of ballots cast during the Montgomery County 2022 General Election.

In consultation with Montgomery County, the following three races were audited with an initial risk limit set at 9% (as the attached report shows, the actual risk limits attained were lower):

- County Council District 3
- Treasurer of State
- United States Senator

There were a total of 9,924 Election Day and Absentee Ballots. 96 Election Day and Absentee ballots were sampled to reach the risk limit and verify the outcomes. Of this total, the audit team was required to sample 18 ballots for County Council District 3, 41 ballots for Treasurer of State, and 37 ballots for United States Senator to meet the risk limit. Specifics regarding each race's outcomes are displayed by images provided by Dr. Philip Stark's Audit Tool used to conduct the post-election audit and can be found in Appendix A.

VSTOP acknowledges the Indiana Secretary of State and his office staff for their full support. At the end of all post-election audits for the 2022 General Election, a full report of the audit results will be prepared and submitted to the Indiana Secretary of State and each participating county.

Handwritten signature of Jay Bagga in black ink.

Dr. Jay Bagga, VSTOP Co-Director

Handwritten signature of Chad Kinsella in black ink.

Dr. Chad Kinsella, VSTOP Co-Director



Montgomery County Post-Election Audit Procedure

Election: 2022 General Election
Date(s) of Audit: January 7, 2023
Number of Registered Voters: 25,653
Total Number of Ballots Cast: 9,924

Stark’s Risk Limit: Initially set at 9%
 (See below for the actual risk-limited achieved)

Seed Number: 77938839659252595910

Post-Election Audit Method: Ballot Polling Risk-Limiting Audit

Post-Election Audit Tools used: The ballot polling post-election audit tools have been designed by Dr. Philip Stark and are available at:
<https://www.stat.berkeley.edu/~stark/Vote/ballotPollTools.htm>

Races Audited:

Montgomery County Ballot Polling Audit					
Race/Question	Outcome		Smallest Margin	Diluted Margin	Number of Ballots to be Audited*
County Council District 3	(R) Steve Loy*	1960	1376	52.36%	18
	(D) Lindsey Hamilton	584			
	Undervotes	84			
	Total Ballots Cast	2628			
Treasurer of State	(R) Daniel Elliot*	7416	5212	52.52%	18
	(D) Jessica McClellan	2204			
	Undervotes	304			
	Total Ballots Cast	9924			
United States Senator	(R) Todd Young*	7061	4844	48.81%	20
	(D) Thomas M McDermott Jr	2217			
	(L) James M Sceniak	465			
	Undervotes	181			
	Total Ballots Cast	9924			

Asterisk (*) denotes the winner of each contest

Montgomery County Council District 3

Sample Size:

With the selected risk limit of 9%, the initial sample size for this contest was 18.

Initial sample size

Contest information

Ballots cast in all contests: 2628 Smallest margin (votes): 1,376. Diluted margin: 52.36%.

Contest 1. Contest name: County Council District 3

Winners: 1 ▾

Reported votes:

Candidate 1 Name: Steve Loy	Votes: 1960
Candidate 2 Name: Lindsey Hamilton	Votes: 584

Audit parameters

Risk limit: 9% Expected sample size: 18.

Final Outcome:

With the initial sample size of 18 ballots, the final outcome resulted in a 5% risk limit, which indicates 95% confidence that the audit confirmed the results of this contest. Further sampled ballots were not required for this audit.

Audit progress

Audited votes for County Council District 3: 18	
Steve Loy	14
Lindsey Hamilton	4
	0.05

Treasurer of State

Initial Sample Size:

With the selected risk limit of 9%, the initial sample size for this contest was 18.

Initial sample size

Contest information

Ballots cast in all contests: Smallest margin (votes): 5,212. Diluted margin: 52.52%.

Contest 1. Contest name:

Winners:

Reported votes:

Candidate 1 Name:	<input type="text" value="Daniel Elliot"/>	Votes:	<input type="text" value="7416"/>
Candidate 2 Name:	<input type="text" value="Jessica McClellan"/>	Votes:	<input type="text" value="2204"/>

Audit parameters

Risk limit: Expected sample size: 18.

Final Outcome:

The risk limit was not met with the initial sample size of 18 ballots. An additional 23 ballots were sampled. With the sample size of 41 ballots, the final outcome resulted in a 1% risk limit, which indicates 99% confidence that the audit confirmed the results of this contest.

-Audit progress

Audited votes for Treasurer of the State: 41	
Daniel Elliot	30
Jessica McClellan	11
	0.01

United States Senator

Initial Sample Size:

With the selected risk limit of 9%, the initial sample size for this contest was 20.

Initial sample size

Contest information
Ballots cast in all contests: 9924 Smallest margin (votes): 4,844. Diluted margin: 48.81%.

Contest 1. Contest name: United States Senator
Winners: 1

Reported votes:

Candidate 1 Name:	Todd Young	Votes:	7061
Candidate 2 Name:	Thomas M McDermott Jr	Votes:	2217
Candidate 3 Name:	James M Sceniak	Votes:	465

Audit parameters
Risk limit: 9% Expected sample size: 20.

Final Outcome:

The risk limit was not met with the initial sample size of 20 ballots. An additional 17 ballots were sampled. With a sample size of 37 ballots, the final outcome resulted in a 4% risk limit, which indicates 96% confidence that the audit confirmed the results of this contest.

Audit progress

Audited votes for United States Senator: 37		
	Todd Young	25
Thomas M McDermott Jr	10	0.04
James M Sceniak	2	0

