

Subject: Preliminary Report of Subversion in the Antrim County Election Management System, Results Tallying and Reporting Application
Date: 5/9/2021
Analyst: Jeffrey Lenberg

Executive Summary

The Antrim County Dominion Democracy Suite, Election Management System (EMS), Results Tallying and Reporting (RTR) application has been found to be subverted. Numerous error conditions that are identified by the tabulator are ignored by the EMS/RTR. The error conditions are easily reproduced and displayed on the tabulator, yet the EMS/RTR has been subverted in a fashion to purposefully ignore vote manipulation. This technical behavior is consistent with a subversion being deployed in the Antrim County EMS/RTR and is designed to mute such error reporting. This subversion technique is common among malicious actors seeking to proactively handle error conditions that would jeopardize their ability to modify software's performance.

The J Alex Halderman expert report dated March 26, 2021 does not accurately describe the conditions that occurred in the Antrim election. The shifting of votes described by Halderman during the November 3, 2020 election should have resulted in Biden's votes being shifted to the Natural Law Party, Straight Party Vote, which in turn would have resulted in Rocky De La Fuente (the Natural Law Party Candidate) receiving a large number of votes as a result, or an error condition should have occurred on the EMS/RTR for a vote shift outside of the Presidential contest. Neither of these scenarios occurred because the EMS/RTR was subverted in a fashion to handle such an error silently and treat that situation as an undervote (no vote for the Presidential race at all).

Testing of related scenarios has shown the ImageCast Precinct (ICP) tabulator properly reported a critical error and shut down the tabulator when there were votes shifted between contests. However, when the EMS/RTR was presented with the same results file processed on the tabulator, it reported no errors, but instead erroneously reported those vote choices as blanks (undervotes) instead of generating a critical error.

The evidence of a subversion in the EMS/RTR is sufficient that an expert review of the source code for the EMS/RTR is warranted to determine the extent of the subversion and breadth of the configuration options available to the malicious actors that would employ it.

This assessment is based on the review of the Antrim County EMS/RTR and testing with an ICP tabulator. If more forensic information and source code becomes available for review, this assessment will be reevaluated in the light of the new

evidence available. Upon receipt of the source code a specific evaluation of the error handling routines will be conducted along with static and dynamic code analysis to definitively determine the specific behavior of the software.

Details

Discovery of Subversion of the Antrim County EMS/RTR

A specific test was designed to determine how the Antrim County EMS/RTR along with the tabulator would handle the swap of Biden votes with the Natural Law Party (Straight Ticket Vote from the Contest Above on the ballot).

The rationale for making this test was the fact that Halderman indicated that the shift of votes that occurred would have changed the index of the candidate selection to cross the boundary from the Presidential contest to the Straight Party Ticket contest. This shifting across the boundary of a contest should have created a critical error condition during the processing of votes, however, in the case of Antrim County election it did not.

The test scenario is as follows:

Ballot Style: Helena Township, Precinct 1 (1124)
DVD File Name: 1120_8_8_0_DETAIL.DVD
internalMachineID for Biden: 3016
internalMachineID for Natural Law Party: 3015

Votes Cast on Test Ballots (See Appendix A):

Biden: 2
Trump: 4
Jorgenson: 1

Both the EMS/RTR and the ICP tabulator used exactly the same DVD file listed above.

The test scenario implemented a swap between the internalMachineID fields of Biden and the Natural Law Party in the VIF_BALLOT_INSTANCE.DVD file to attempt to cause Biden's votes to be swapped with the Straight Party/Natural Law Party.

The expected outcome was that Biden's votes would be assigned to the Natural Law Party (Straight Party Vote) and the result would be Biden's votes being tallied for the Natural Law Party Presidential Candidate Rocky De La Fuente.

The test revealed the following:

- The ICP reported a critical error and does not finish processing the vote file, does not print a paper tape, writes the error to the log file, and forces a mandatory shutdown of the tabulator
- The EMS/RTR loads the same file with no errors and takes all of the Biden votes and treats them as undervotes

The 1120_8_8_0_DETAIL.DVD file is a result file containing the votes that are cast on the ICP. When the poll is closed, the ICP software processes the file containing the votes and produces a paper tape with the tallies for each candidate. This process works normally as long as the internalMachineID is not modified or the modification stays within the boundaries of the those “expected” for the specific contest, for example the Presidential Contest. In other words, a malicious actor can swap internalMachineIDs within the same Contest for any candidate so long as the index remains in the correct range for that same contest.

However, for the purposes of this test the internalMachineIDs were swapped between different Contests, the software in the ICP reports a critical error (see Figure 1). The ICP does not finish processing the vote file (Figure 1), does not print a paper tape, requires the operator to shut-down the tabulator (see Figure 2), and records details of the error in the slog.txt file (Figure 3) on the compact flash card. The tabulator takes drastic action to inform the operator that a very serious problem has been encountered. Note that the vote result file 1120_8_8_0_DETAIL.DVD is still correctly stored on the compact flash card.



Figure 1 - ICP Error Loading Results File

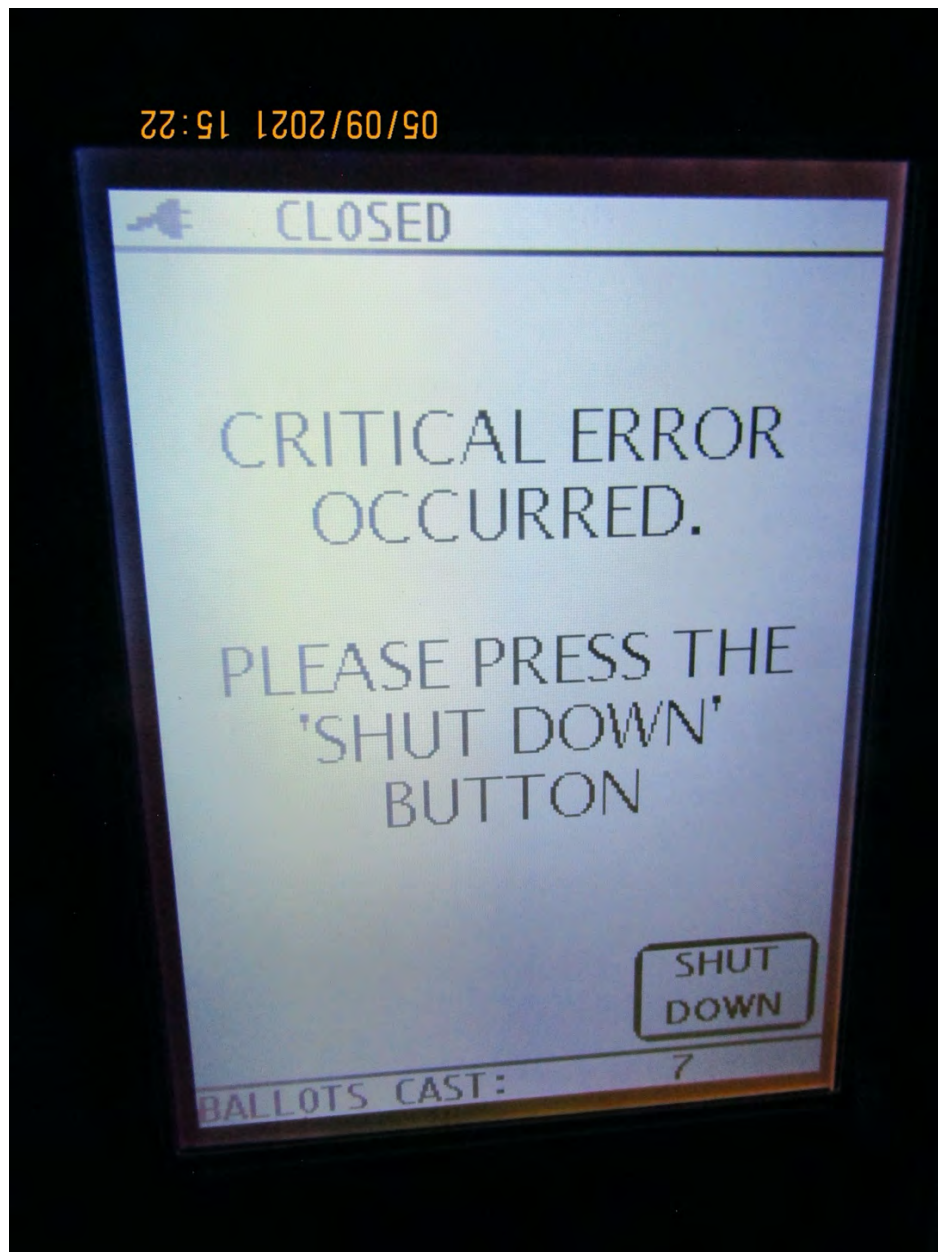


Figure 2 - ICP Critical Error - Shutdown Required


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Nov 03/2020 06:36:48 ScanVote Total number of ballots = 4.
Nov 03/2020 06:36:58 ScanVote Ballot 1124 processed successfully.
Nov 03/2020 06:36:58 ScanVote Total number of ballots = 5.
Nov 03/2020 06:37:09 ScanVote Ballot 1124 processed successfully.
Nov 03/2020 06:37:09 ScanVote Total number of ballots = 6.
Nov 03/2020 06:37:20 ScanVote Ballot 1124 processed successfully.
Nov 03/2020 06:37:20 ScanVote Total number of ballots = 7.
Nov 03/2020 06:38:13 Security Audit Administrator key for 'Admin' detected.
Nov 03/2020 06:38:13 Admin Audit Administrative Key inserted
Nov 03/2020 06:44:23 Admin Audit Admin chose to Close the Poll
Nov 03/2020 06:44:55 Admin Warning Error Reading Admin key.
Nov 03/2020 06:44:57 Security Audit Administrator key for 'Admin' detected.
Nov 03/2020 06:44:57 Admin Audit Administrative Key inserted
Nov 03/2020 06:45:10 Admin Audit Admin chose to Close the Poll
Nov 03/2020 06:45:24 Admin Correct passcode entered for Close.
Nov 03/2020 06:45:24 Admin Requesting confirmation to close poll.
Nov 03/2020 06:45:35 Admin Starting election database close poll procedure.
Nov 03/2020 06:45:35 Election Saving Poll-Close time.
Nov 03/2020 06:45:36 Election Beginning to create Total Results file.
Nov 03/2020 06:45:36 Election Error TotalOneContest: Raw Results, cannot find choice instance 3016)
Nov 03/2020 06:45:36 Election Warning - Problem (30023) creating Total Results file ". Raw Results will be used instead
Nov 03/2020 06:45:37 Election Error TotalOneContest: Raw Results, cannot find choice instance 3016)
Nov 03/2020 06:45:46 Admin Audit Advising Administrator of error (30023) printing report RESULTS TAPE.
Nov 03/2020 06:45:46 Admin Critical HandlePollSelection: Error 30023. Forcing shutdown
Nov 03/2020 06:45:56 Admin Audit Shutdown system.
Nov 03/2020 06:45:57 Control >> DvsShutdown(fast:00000000).
Nov 03/2020 06:45:57 Control >> Shutting down AVS.
Nov 03/2020 06:45:57 Control >> Module ( WavDecoder) shutdown successful.
Nov 03/2020 06:45:59 Control >> Module ( Event) shutdown successful.
Nov 03/2020 06:45:59 Control >> Module ( Election) shutdown successful.
Nov 03/2020 06:45:59 Control >> Module ( Admin) shutdown successful.
Nov 03/2020 06:45:59 Control >> Module ( Diagnostics) shutdown successful.

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Figure 3 - slog.txt File Contents from Compact Flash Card

The same compact flash card is then loaded on to the Antrim EMS/RTR software. The card reports that it loaded successfully both the vote results and the log file (See Figure 4). Prior to loading this compact flash card the EMS database is directly manipulated in the same way that the file sent to the tabulator was manipulated by swapping 3015 and 3016 internalMachineID in the ChoiceManifestation table of 5744 vote choices spanning all of the contests on all of the 49 ballots types.

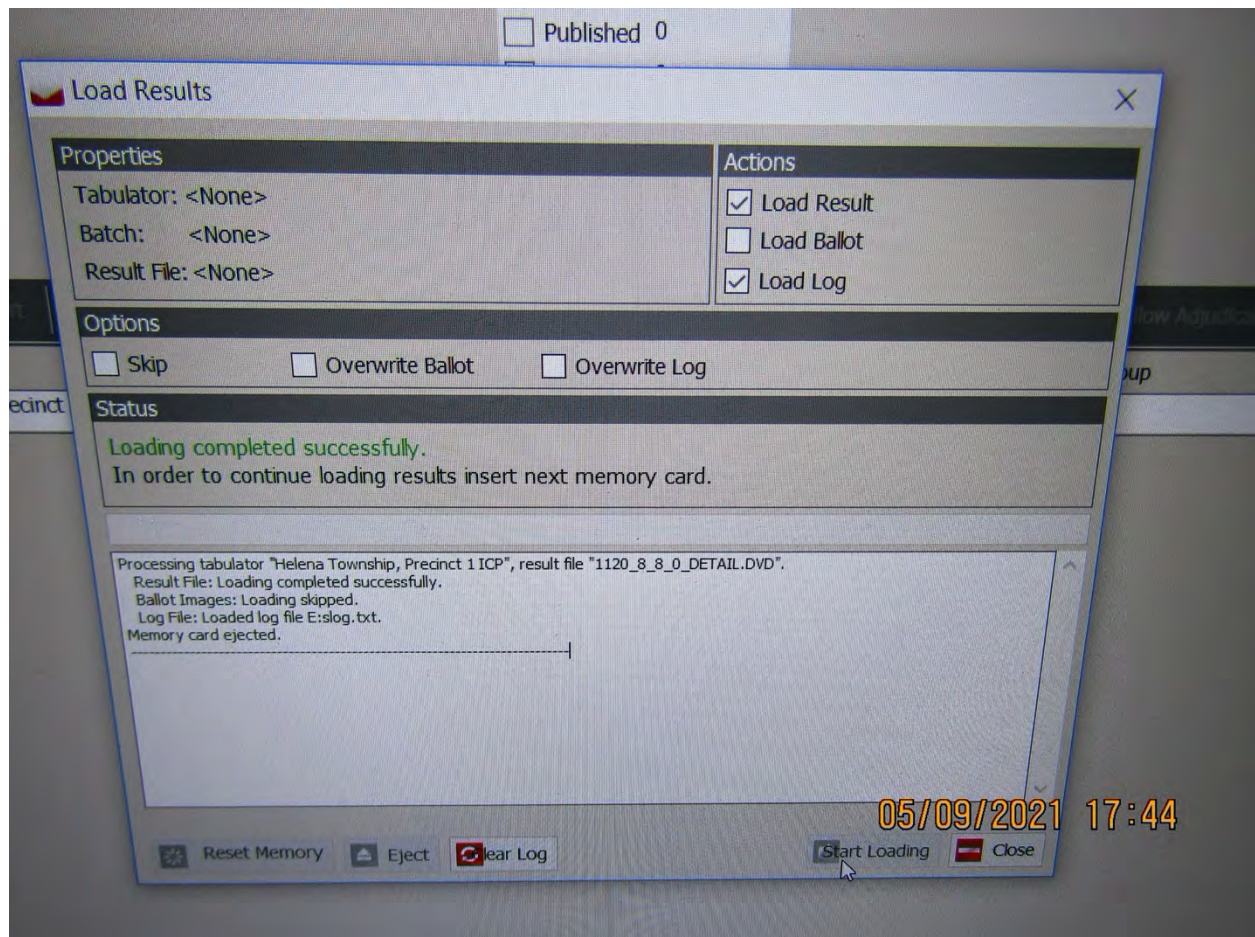


Figure 4 - EMS Successfully Loads Results File

The displayed results indicated that Biden is missing his votes and they are reported as blank ballots and undervotes for that contest (See Figure 5). One of two things should have happened. Either Biden's votes should have been assigned to the Straight Party/Natural Law (internalMachineID = 3015) in which case Bidens vote for President would have been assigned to De La Fuente and note that this did not occur. The other possibility is that the software was able to check the range for internalMachineID range for the contest in which case it would not have found the reference for the Biden vote choice and it should have created an error very similar to what the ICP output. This would be a critical error that should have stopped the application from further processing the compact flash card. Because the Biden vote choice must exist and it did not exist, the application should have stopped loading the results with an error message as to the fact that the results were corrupted. However, no errors were indicated of any kind by the EMS/RTR. The Biden votes just became blank votes (no choice) when there clearly is a choice on the ballot. In summary, either the shifted votes should have gone to De La Fuente (via Straight Party – Natural Law Party) or the application should have created a critical error that would have kept the votes from being tallied and reported.

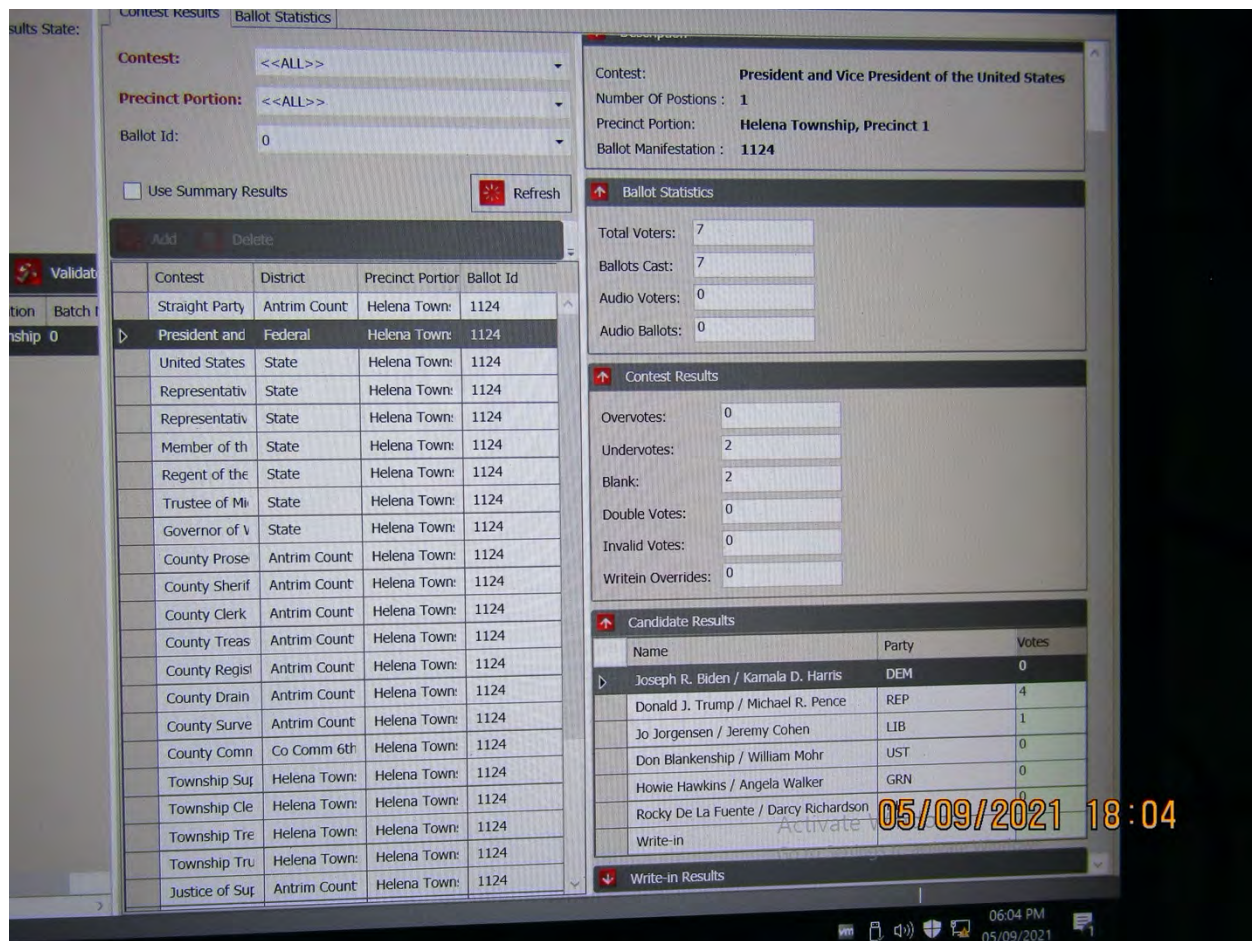


Figure 5 - Biden Undervotes Results

The conclusion of this test indicates EMS/RTR technical behavior consistent with a technical subversion. Further in-depth analysis of source code would be required to gain definitive clarity on the specific nature of the subversion. This would include analysis of the error handling routines, code traces, static and dynamic code analysis.

Under the penalties of perjury, I declare that I have read the foregoing report and that the fact stated in it are true.

Jeffrey Lenberg
 Jeffrey Lenberg
 Date: 5/9/2021

STATE OF MICHIGAN
COUNTY OF OAKLAND

The foregoing instrument was acknowledged before me this 9th of May, 2021 by Jeffrey
Lenberg.

Ann M. Howard

Notary Public

Printed Name: Ann M. Howard

My Commission Expires: 2/24/2023

ANN M. HOWARD
Notary Public, State of Michigan
County of Oakland
My Commission Expires 02-24-2023
Acting in the County of Oakland

Appendix A – Ballots Used in Test

OFFICIAL BALLOT
General Election
Tuesday, November 3, 2020
Antrim County, Michigan
Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party	Ellen Cogen Lipton Democrat	Eva Garza Dewaelsche Democrat
Republican Party	Jason Strayhorn Democrat	Shirley Stancato Democrat
Libertarian Party	Tami Carlone Republican	Don Gates Republican
U.S. Taxpayers Party	Michelle A. Frederick Republican	Terri Lynn Land Republican
Working Class Party	Bill Hall Libertarian	Jon Elgas Libertarian
Green Party	Richard A. Hower Libertarian	Christine C. Schwartz U.S. Taxpayers
Natural Law Party	Karen Adams U.S. Taxpayers	Susan Odgers Green
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Mary Anne Hering Working Class	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden Kamala D. Harris Democrat	Hali McEachern Working Class	James L. Rossiter Republican
Donald J. Trump Michael R. Pence Republican	Tom Mair Green	Sheriff Vote for not more than 1
Jo Jorgensen Jeremy Cohen Libertarian	Mark Bernstein Democrat	Daniel S. Bean Republican
Don Blankenship William Mohr U.S. Taxpayers	Shauna Ryder Diggs Democrat	Clerk Vote for not more than 1
Howie Hawkins Angela Walker Green	Sarah Hubbard Republican	Sheryl Guy Republican
Rocky De La Fuente Darcy Richardson Natural Law	Carl Meyers Republican	Treasurer Vote for not more than 1
Congressional	James L. Hudler Libertarian	Sherry A. Comben Republican
United States Senator Vote for not more than 1	Eric Larson Libertarian	Register of Deeds Vote for not more than 1
Gary Peters Democrat	Ronald E. Graesser U.S. Taxpayers	Patty Niepoth Republican
John James Republican	Crystal Van Sickle U.S. Taxpayers	Drain Commissioner Vote for not more than 1
Valerie L. Willis U.S. Taxpayers	Michael Mawilai Green	Mark Stone Republican
Marcia Squier Green	Keith Butkovich Natural Law	Surveyor Vote for not more than 1
Doug Dern Natural Law	Trustee of Michigan State University Vote for not more than 2	Scott Papineau Republican
Representative in Congress 1st District Vote for not more than 1	Brian Mosallam Democrat	County Commissioner 6th District Vote for not more than 1
Dana Ferguson Democrat	Rema Elia Vassar Democrat	Brenda Rickagers Republican
Jack Bergman Republican	Pat O'Keefe Republican	Township
Ben Boren Libertarian	Tonya Schultmaker Republican	Supervisor Vote for not more than 1
Legislative	Will Tyler White Libertarian	Butch Peoples Republican
Representative in State Legislature 105th District Vote for not more than 1	Janet M. Sanger U.S. Taxpayers	
Jonathan Burke Democrat	John Paul Sanger U.S. Taxpayers	
Ken Borton Republican	Brandon Hu Green	
	Robin Lea Laurain Green	
	Bridgette Abraham-Guzman Natural Law	

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 6 - Trump/James/Bergman

OFFICIAL BALLOT
General Election
Tuesday, November 3, 2020
Antrim County, Michigan
Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party	Ellen Cogen Lipton Democrat	Eva Garza Dewaelsche Democrat
Republican Party	Jason Strayhorn Democrat	Shirley Stancato Democrat
Libertarian Party	Tami Carlone Republican	Don Gates Republican
U.S. Taxpayers Party	Michelle A. Frederick Republican	Terri Lynn Land Republican
Working Class Party	Bill Hall Libertarian	Jon Elgas Libertarian
Green Party	Richard A. Hewer Libertarian	Christine C. Schwartz U.S. Taxpayers
Natural Law Party	Karen Adams U.S. Taxpayers	Susan Odgers Green
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Douglas Levesque U.S. Taxpayers	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden Kamala D. Harris Democrat	Mary Anne Hering Working Class	James L. Rossiter Republican
Donald J. Trump Michael R. Pence Republican	Hali McEachern Working Class	
Jo Jorgensen Jeremy Cohen Libertarian	Tom Mair Green	Sheriff Vote for not more than 1
Don Blankenship William Mohr U.S. Taxpayers	Mark Bernstein Democrat	Daniel S. Bean Republican
Howie Hawkins Angela Walker Green	Shauna Ryder Diggs Democrat	
Rocky De La Fuente Darcy Richardson Natural Law	Sarah Hubbard Republican	Clerk Vote for not more than 1
	Carl Meyers Republican	Sheryl Guy Republican
	James L. Hudler Libertarian	
	Eric Larson Libertarian	Treasurer Vote for not more than 1
	Ronald E. Graeser U.S. Taxpayers	Sherry A. Comben Republican
	Crystal Van Sickle U.S. Taxpayers	
	Michael Mawilai Green	Register of Deeds Vote for not more than 1
	Keith Butkovich Natural Law	Patty Niepoth Republican
Congressional	Trustee of Michigan State University Vote for not more than 2	Drain Commissioner Vote for not more than 1
United States Senator Vote for not more than 1	Brian Mosallam Democrat	Mark Stone Republican
Gary Peters Democrat	Rema Ella Vassar Democrat	
John James Republican	Pat O'Keefe Republican	Surveyor Vote for not more than 1
Valerie L. Willis U.S. Taxpayers	Tonya Schuitmaker Republican	Scott Papineau Republican
Marcia Squier Green	Will Tyler White Libertarian	
Doug Dern Natural Law	Janet M. Sanger U.S. Taxpayers	County Commissioner 6th District Vote for not more than 1
	John Paul Sanger U.S. Taxpayers	Brenda Ricksgers Republican
	Brandon Hu Green	
Representative in Congress 1st District Vote for not more than 1	Robin Lea Laurain Green	Township
Dana Ferguson Democrat	Bridgette Abraham-Guzman Natural Law	Supervisor Vote for not more than 1
Jack Bergman Republican		Butch Peoples Republican
Ben Boren Libertarian		
Legislative		
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke Democrat		
Ken Borton Republican		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 7 - Trump/James/Bergman

OFFICIAL BALLOT
General Election
Tuesday, November 3, 2020
Antrim County, Michigan
Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party	Ellen Cogen Lipton Democrat	Eva Garza Dwehelsch Democrat
Republican Party	Jason Strayhorn Democrat	Shirley Stancato Democrat
Libertarian Party	Tami Carlone Republican	Don Gates Republican
U.S. Taxpayers Party	Michelle A. Frederick Republican	Terri Lynn Land Republican
Working Class Party	Bill Hall Libertarian	Jon Elgas Libertarian
Green Party	Richard A. Hewer Libertarian	Christine C. Schwartz U.S. Taxpayers
Natural Law Party	Karen Adams U.S. Taxpayers	Susan Odgers Green
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Douglas Levesque U.S. Taxpayers	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden Kamala D. Harris Democrat	Mary Anne Hering Working Class	James L. Rossiter Republican
Donald J. Trump Michael R. Pence Republican	Hall McEachern Working Class	
Jo Jorgensen Jeremy Cohen Libertarian	Tom Mair Green	Sheriff Vote for not more than 1
Don Blankenship William Mohr U.S. Taxpayers	Mark Bernstein Democrat	Daniel S. Bean Republican
Howie Hawkins Angela Walker Green	Shauna Ryder Diggs Democrat	Clerk Vote for not more than 1
Rocky De La Fuente Darcy Richardson Natural Law	Sarah Hubbard Republican	Sheryl Guy Republican
	Carl Meyers Republican	Treasurer Vote for not more than 1
	James L. Hudler Libertarian	Sherry A. Comben Republican
	Eric Larson Libertarian	Register of Deeds Vote for not more than 1
	Ronald E. Graesser U.S. Taxpayers	Patty Niepoth Republican
	Crystal Van Sickle U.S. Taxpayers	Drain Commissioner Vote for not more than 1
	Michael Mawlawi Green	Mark Stone Republican
	Keith Butkovich Natural Law	Surveyor Vote for not more than 1
Congressional	Trustee of Michigan State University Vote for not more than 2	Scott Papineau Republican
United States Senator Vote for not more than 1	Brian Mosallam Democrat	County Commissioner 6th District Vote for not more than 1
Gary Peters John James Republican	Rema Ella Vassar Democrat	Brenda Ricksgrs Republican
Valerie L. Willis U.S. Taxpayers	Pat O'Keefe Republican	Township
Marcia Squier Green	Tonya Schuitmaker Republican	Supervisor Vote for not more than 1
Doug Dern Natural Law	Will Tyler White Libertarian	Butch Peoples Republican
Representative in Congress 1st District Vote for not more than 1	Janet M. Sanger U.S. Taxpayers	
Dana Ferguson Democrat	John Paul Sanger U.S. Taxpayers	
Jack Bergman Republican	Brandon Hu Green	
Ben Boren Libertarian	Robin Lea Laurain Green	
	Bridgette Abraham-Guzman Natural Law	
Legislative		
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke Democrat		
Ken Borton Republican		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 8 - Trump/James/Bergman

OFFICIAL BALLOT

General Election

Tuesday, November 3, 2020

Antrim County, Michigan

Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party Republican Party Libertarian Party U.S. Taxpayers Party Working Class Party Green Party Natural Law Party	Ellen Cogen Lipton <small>Democrat</small> Jason Strayhorn <small>Democrat</small> Tami Carlone <small>Republican</small> Michelle A. Frederick <small>Republican</small> Bill Hall <small>Libertarian</small> Richard A. Hewer <small>Libertarian</small> Karen Adams <small>U.S. Taxpayers</small> Douglas Levesque <small>U.S. Taxpayers</small> Mary Anne Hering <small>Working Class</small> Hal McEachern <small>Working Class</small> Tom Mair <small>Green</small>	Eva Garza Dewaelsche <small>Democrat</small> Shirley Stancato <small>Democrat</small> Don Gates <small>Republican</small> Terri Lynn Land <small>Republican</small> Jon Elgas <small>Libertarian</small> Christine C. Schwartz <small>U.S. Taxpayers</small> Susan Odgers <small>Green</small>
Presidential Electors of President and Vice-President of the United States Vote for not more than 1		County Prosecuting Attorney Vote for not more than 1
Joseph R. Biden <small>Democrat</small> Kamala D. Harris <small>Democrat</small> Donald J. Trump <small>Republican</small> Michael R. Pence <small>Republican</small> Jo Jorgensen <small>Libertarian</small> Jeremy Cohen <small>Libertarian</small> Don Blankenship <small>U.S. Taxpayers</small> William Mohr <small>U.S. Taxpayers</small> Howie Hawkins <small>Green</small> Angela Walker <small>Green</small> Rocky De La Fuente <small>Natural Law</small> Darcy Richardson <small>Natural Law</small>	Regent of the University of Michigan Vote for not more than 2	James L. Rossiter <small>Republican</small> Daniel S. Bean <small>Republican</small>
	Mark Bernstein <small>Democrat</small> Shauna Ryder Diggs <small>Democrat</small> Sarah Hubbard <small>Republican</small> Carl Meyers <small>Republican</small> James L. Hudler <small>Libertarian</small> Eric Larson <small>Libertarian</small> Ronald E. Graesser <small>U.S. Taxpayers</small> Crystal Van Sickle <small>U.S. Taxpayers</small> Michael Mawilal <small>Green</small> Keith Butkovich <small>Natural Law</small>	Sheriff Vote for not more than 1
		Clerk Vote for not more than 1
		Sheryl Guy <small>Republican</small>
		Treasurer Vote for not more than 1
		Sherry A. Comben <small>Republican</small>
Congressional United States Senator Vote for not more than 1		Register of Deeds Vote for not more than 1
Gary Peters <small>Democrat</small> John James <small>Republican</small> Valerie L. Willis <small>U.S. Taxpayers</small> Marcia Squier <small>Green</small> Doug Dern <small>Natural Law</small>	Trustee of Michigan State University Vote for not more than 2	Patty Niepoth <small>Republican</small>
	Brian Mosallam <small>Democrat</small> Rema Ella Vassar <small>Democrat</small> Pat O'Keefe <small>Republican</small> Tonya Schuitmaker <small>Republican</small> Will Tyler White <small>Libertarian</small> Janet M. Sanger <small>U.S. Taxpayers</small> John Paul Sanger <small>U.S. Taxpayers</small> Brandon Hu <small>Green</small> Robin Lea Laurain <small>Green</small> Bridgette Abraham-Guzman <small>Natural Law</small>	Drain Commissioner Vote for not more than 1
		Mark Stone <small>Republican</small>
Representative in Congress 1st District Vote for not more than 1		Surveyor Vote for not more than 1
Dana Ferguson <small>Democrat</small> Jack Bergman <small>Republican</small> Ben Boren <small>Libertarian</small>		Scott Papineau <small>Republican</small>
		County Commissioner 6th District Vote for not more than 1
		Brenda Ricksgrs <small>Republican</small>
Legislative Representative in State Legislature 105th District Vote for not more than 1		Township Supervisor Vote for not more than 1
Jonathan Burke <small>Democrat</small> Ken Borton <small>Republican</small>		Butch Peeples <small>Republican</small>

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 9 - Trump/James/Bergman

OFFICIAL BALLOT

General Election

Tuesday, November 3, 2020

Antrim County, Michigan

Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket <small>Vote for not more than 1</small>	Member of the State Board of Education <small>Vote for not more than 2</small>	Governor of Wayne State University <small>Vote for not more than 2</small>
Democratic Party	Ellen Cogen Lipton	Eva Garza Dewaeleho
Republican Party	Jason Strayhorn	Shirley Stancato
Libertarian Party	Tami Carlone	Don Gates
U.S. Taxpayers Party	Michelle A. Frederick	Terri Lynn Land
Working Class Party	Bill Hall	Jon Elgas
Green Party	Richard A. Hewer	Christine C. Schwartz
Natural Law Party	Karen Adams	Susan Odgers
Presidential	Regent of the University of Michigan <small>Vote for not more than 2</small>	County
Electors of President and Vice-President of the United States <small>Vote for not more than 1</small>	Sherriff <small>Vote for not more than 1</small>	Prosecuting Attorney <small>Vote for not more than 1</small>
Joseph R. Biden	Mark Bernstein	James L. Rossiter
Kamala D. Harris	Shauna Ryder Diggs	Daniel S. Bean
Donald J. Trump	Sarah Hubbard	Clerk
Michael R. Pence	Carl Meyers	Sheryl Guy
Jo Jorgensen	James L. Hudler	Treasurer
Jeremy Cohen	Eric Larson	Sherry A. Comben
Don Blankenship	Ronald E. Graeser	Register of Deeds
William Mohr	Crystal Van Sickle	Patty Niepoth
U.S. Taxpayers	Michael Mawili	Drain Commissioner
Howie Hawkins	Keith Butkovich	Mark Stone
Angela Walker		Surveyor
Green		Scott Papineau
Rocky De La Fuente		County Commissioner
Darcy Richardson		6th District
Natural Law		Brenda Ricksgers
Congressional	Trustee of Michigan State University <small>Vote for not more than 2</small>	Township
United States Senator <small>Vote for not more than 1</small>	1st District <small>Vote for not more than 1</small>	Supervisor <small>Vote for not more than 1</small>
Gary Peters	Brian Mosallam	Butch Peeples
John James	Rema Ella Vassar	
Valerie L. Willis	Pat O'Keefe	
U.S. Taxpayers	Tonya Schuitmaker	
Marcia Squier	Will Tyler White	
Green	Janet M. Sanger	
Doug Dern	John Paul Sanger	
Natural Law	Brandon Hu	
	Robin Lea Laurain	
	Bridgette Abraham-Guzman	
	Natural Law	
Legislative		
Representative in State Legislature 105th District <small>Vote for not more than 1</small>		
Jonathan Burke		
Ken Borton		
Republican		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 10 - Biden/Peters/Ferguson

OFFICIAL BALLOT
General Election
Tuesday, November 3, 2020
Antrim County, Michigan
Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party	Ellen Cogen Lipton Democrat	Eva Garza Dewaele Democrat
Republican Party	Jason Strayhorn Democrat	Shirley Stancato Democrat
Libertarian Party	Tami Carlone Republican	Don Gates Republican
U.S. Taxpayers Party	Michelle A. Frederick Republican	Terri Lynn Land Republican
Working Class Party	Bill Hall Libertarian	Jon Elgas Libertarian
Green Party	Richard A. Hewer Libertarian	Christine C. Schwartz U.S. Taxpayers
Natural Law Party	Karen Adams U.S. Taxpayers	Susan Odgers Green
Presidential	County	
Electors of President and Vice-President of the United States Vote for not more than 1	Prosecuting Attorney Vote for not more than 1	
Joseph R. Biden Democrat	James L. Rossiter Republican	
Donald J. Trump Michael R. Pence Republican		
Jo Jorgensen Jeremy Cohen Libertarian	Regent of the University of Michigan Vote for not more than 2	Sheriff Vote for not more than 1
Don Blankenship William Mohr U.S. Taxpayers	Mark Bernstein Democrat	Daniel S. Bean Republican
Howie Hawkins Angela Walker Green	Shauna Ryder Diggs Democrat	
Rocky De La Fuente Darcy Richardson Natural Law	Sarah Hubbard Republican	Clerk Vote for not more than 1
	Carl Meyers Republican	Sheryl Guy Republican
	James L. Hudler Libertarian	
	Eric Larson Libertarian	Treasurer Vote for not more than 1
	Ronald E. Graesser U.S. Taxpayers	Sherry A. Comben Republican
	Crystal Van Sickle U.S. Taxpayers	
	Michael Mawilai Green	Register of Deeds Vote for not more than 1
	Keith Butkovich Natural Law	Patty Niepoth Republican
Congressional	Trustee of Michigan State University Vote for not more than 2	Drain Commissioner Vote for not more than 1
United States Senator Vote for not more than 1	Brian Mosallam Democrat	Mark Stone Republican
Gary Peters Democrat	Rema Elia Vassar Democrat	
John James Republican	Pat O'Keefe Republican	Surveyor Vote for not more than 1
Valerie L. Willis U.S. Taxpayers	Tonya Schultmaker Republican	Scott Papineau Republican
Marcia Squier Green	Will Tyler White Libertarian	
Doug Dern Natural Law	Janet M. Sanger U.S. Taxpayers	County Commissioner 6th District Vote for not more than 1
	John Paul Sanger U.S. Taxpayers	Brenda Ricksgers Republican
Representative in Congress 1st District Vote for not more than 1	Brandon Hu Green	
Dana Ferguson Democrat	Robin Lea Laurain Green	Township
Jack Bergman Republican	Bridgette Abraham-Guzman Natural Law	Supervisor Vote for not more than 1
Ben Boren Libertarian		Butch Peoples Republican
Legislative		
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke Democrat		
Ken Borton Republican		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 11 - Biden/Peters/Ferguson

OFFICIAL BALLOT
General Election
Tuesday, November 3, 2020
Antrim County, Michigan
Helena Township, Precinct 1

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party	Ellen Cogen Lipton Democrat	Eva Garza Dewaelsche Democrat
Republican Party	Jason Strayhorn Democrat	Shirley Stancato Democrat
Libertarian Party	Tami Carlone Republican	Don Gates Republican
U.S. Taxpayers Party	Michelle A. Frederick Republican	Terri Lynn Land Republican
Working Class Party	Bill Hall Libertarian	Jon Elgas Libertarian
Green Party	Richard A. Hower Libertarian	Christine C. Schwartz U.S. Taxpayers
Natural Law Party	Karen Adams U.S. Taxpayers	Susan Odgers Green
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Douglas Levesque U.S. Taxpayers	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden Kamala D. Harris Democrat	Mary Anne Hering Working Class	James L. Rossiter Republican
Donald J. Trump Michael R. Pence Republican	Hali McEachern Working Class	Sheriff Vote for not more than 1
Jo Jorgenson Jeremy Cohen Libertarian	Tom Mair Green	Daniel S. Bean Republican
Don Blankenship William Mohr U.S. Taxpayers	Mark Bernstein Democrat	Clerk Vote for not more than 1
Howie Hawkins Angela Walker Green	Shauna Ryder Diggs Democrat	Sheryl Guy Republican
Rocky De La Fuente Darcy Richardson Natural Law	Sarah Hubbard Republican	Treasurer Vote for not more than 1
Congressional	Carl Meyers Republican	Sherry A. Comben Republican
United States Senator Vote for not more than 1	James L. Hudler Libertarian	Register of Deeds Vote for not more than 1
Gary Peters Democrat	Eric Larson Libertarian	Patty Niepoth Republican
John James Republican	Ronald E. Graeser U.S. Taxpayers	Drain Commissioner Vote for not more than 1
Valerie L. Willis U.S. Taxpayers	Crystal Van Sickle U.S. Taxpayers	Mark Stone Republican
Marcia Squier Green	Michael Mawilai Green	Surveyor Vote for not more than 1
Doug Dern Natural Law	Keith Butkovich Natural Law	Scott Papineau Republican
Representative in Congress 1st District Vote for not more than 1	Trustee of Michigan State University Vote for not more than 2	County Commissioner 6th District Vote for not more than 1
Dana Ferguson Democrat	Brian Mosallam Democrat	Brenda Ricksgers Republican
Jack Bergman Republican	Rema Ella Vassar Democrat	Township
Ben Boren Libertarian	Pat O'Keefe Republican	Supervisor Vote for not more than 1
Legislative	Tonya Schuitmaker Republican	Butch Peeples Republican
Representative in State Legislature 105th District Vote for not more than 1	Will Tyler White Libertarian	
Jonathan Burke Democrat	Janet M. Sanger U.S. Taxpayers	
Ken Borton Republican	John Paul Sanger U.S. Taxpayers	
	Brandon Hu Green	
	Robin Lea Laurain Green	
	Bridgette Abraham-Guzman Natural Law	

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 12 - Jorgenson / Willis / Boren