2018 Risk-Limiting Audit Pilots

Orange County Registrar of Voters
Profile of Orange County

- 3 million+ residents
- Approx. 1.6 million voters
- 948 square miles
- 34 cities
- 26 special districts
- 32 school districts
- 100+ languages spoken
Background Information

- Historical involvement with RLA projects and pilots
- Performed pilots in June 2018 and November 2018 Elections with a legacy voting system
- Partnership with academic institutions
Determining the Method

• Two Possible Methods
  o Comparison Method
  o Ballot Polling Method

• Orange County’s Choice
Planning for a Risk-Limiting Audit

- Ballot Manifest on a Legacy Voting System
- Independence from the Voting System
- Organization of Electronically Cast Ballots and Paper Ballots
The Day of the Audit

- Determining the Risk Limit
- Generating the Random Seed
- Random Selection of Ballots to Audit
- Retrieving the Ballots to Audit
- Locating Randomly Selected Ballots
- Preparing Audit Boards
- Manually Auditing the Ballots
- Completion of Auditing the Ballots
Ensuring a Transparent Process

- Press release
- Ballot manifest
- Random seed
- Video recording of rolling dice
- Online streaming
- Ballot selection software
Outcomes

June 2018
• Selected 3 contests (all countywide)
• Phase 1 – prior to final count of all ballots
• Phase 2 – after all final count of all ballots

November 2018
• Selected 3 contests (1 countywide, 2 congressional)
• Criteria for contest selection
• 1 Phase only
2018 Risk-Limiting Audit Pilot Report

• Published April 2019

• Available online at ocvote.com/election-library
Appendix A: Glossary of Terms

Appendix B: Procedures
• Manually Auditing the Ballots
• Finishing Auditing the Ballots
Questions?

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