The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered on the page.

INTERNAL AUDITS

BY STAR YUAN

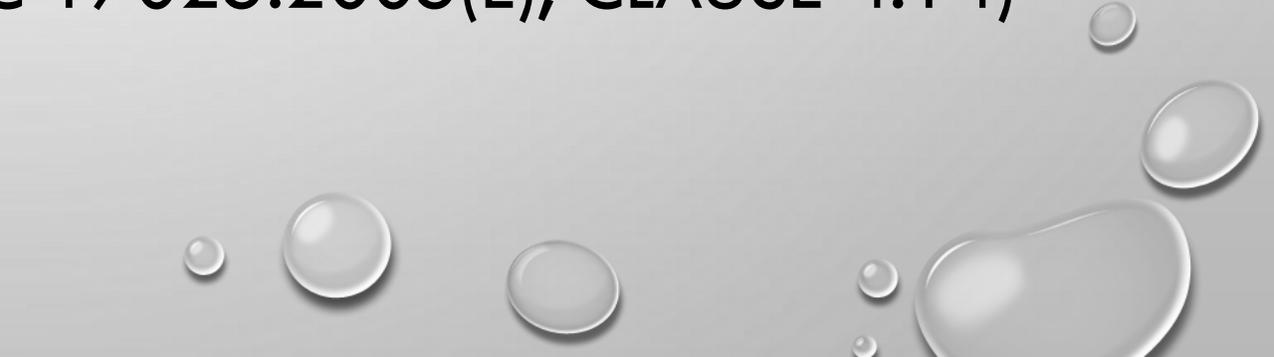
GREEN COUNTRY TESTING, INC.



NELAC SAYS THIS ABOUT INTERNAL AUDITS

PERFORM INTERNAL AUDITS YEARLY

4.14 INTERNAL AUDITS (ISO/IEC 17025:2005(E), CLAUSE 4.14)



PREDETERMINED SCHEDULE

| | |
|------------------|------------------|
| January | QA Manual |
| February | Wet Chemistry |
| March | Sample Reporting |
| April | GC/MS Analysis |
| May | GC Analysis |
| June | Field |
| July | QC Processes |
| August | SOP's |
| September | Wet Chemistry |
| October | Sample Log-in |
| November | Metals |
| December | Misc. |

TEST VERSUS PROCESS

- TESTS ARE ANALYTICAL TESTS
- PROCESSES ARE ALL OTHER PROCEDURES CONDUCTED IN THE LABORATORY THAT ARE NOT TESTS SUCH AS; SAMPLE LOG-IN, INFORMATION TECHNOLOGIES, FIELD WORK, TRAINING RECORDS, CONTROL CHARTS, AND OTHER QA FUNCTIONS.

INTERNAL AUDIT FOR TESTS

- UTILIZE A CHECKLIST OR A FORM
- START AT LOG-IN AND REVIEW LOG-IN AND THE CHAIN OF CUSTODY
- REVIEW SOP'S INCLUDING ANALYTICAL SOP, PREP SOP'S, AND INSTRUMENT SOP'S
- IF YOU HAVE A DATA INTEGRITY CHECKLIST, USE IT.
- VERIFY TRAINING RECORDS
- REVIEW THE FINAL REPORT

INTERNAL AUDIT FOR TESTS CONTINUED

- REVIEW LOGBOOKS – THIS IS THE LARGEST PART OF THE REVIEW
- ANALYSIS LOGBOOKS
- PREPARATION LOGBOOKS
- STANDARDS PREPARATION LOGBOOKS – TRACEABILITY
- BALANCE / PIPETTE LOGBOOKS
- METHOD SPECIFIC CHECKS – TUNING, SPECIAL BLANKS, ETC...
- ERROR CORRECTION

INTERNAL AUDIT FOR PROCESSES

- CHECKLISTS DON'T REALLY APPLY TO PROCESSES AS THEY ARE VERY DIFFERENT. SO, YOU HAVE TO RECORD THE PERTINENT INFORMATION AND SUPPORTING DOCUMENTATION IN A LOGICAL WAY SO THAT AN OUTSIDE PERSON CAN FOLLOW WHAT YOU DID.

INTERNAL AUDIT

- WHEN YOU'RE FINISHED, RECORD ALL THE PERTINENT INFORMATION AND MAKE COPIES AS REQUIRED. THE IDEA IS THAT AN OUTSIDE PERSON CAN FOLLOW WHAT YOU DID.
- IF ISSUES ARE UNCOVERED, INCLUDE WHAT ACTIVITIES ARE REQUIRED (CORRECTIVE ACTION, SOP UPDATE, TRAINING, ETC...) BY WHOM AND WHEN THEY WILL BE COMPLETED. INCLUDE A COPY OF THE COMPLETED ACTIVITIES.



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T E S T I N G

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