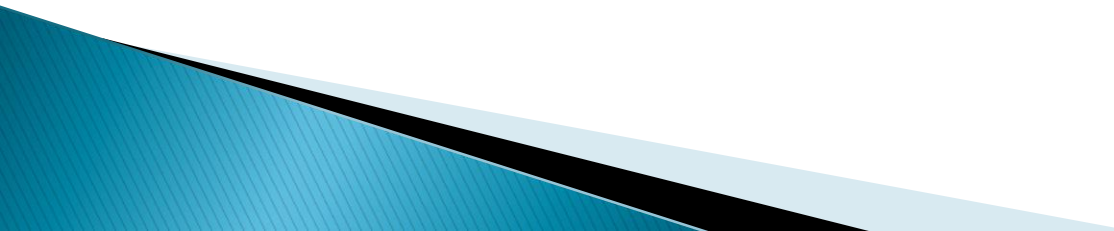


Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

Qualifications of Auditors / Classifications

Outline

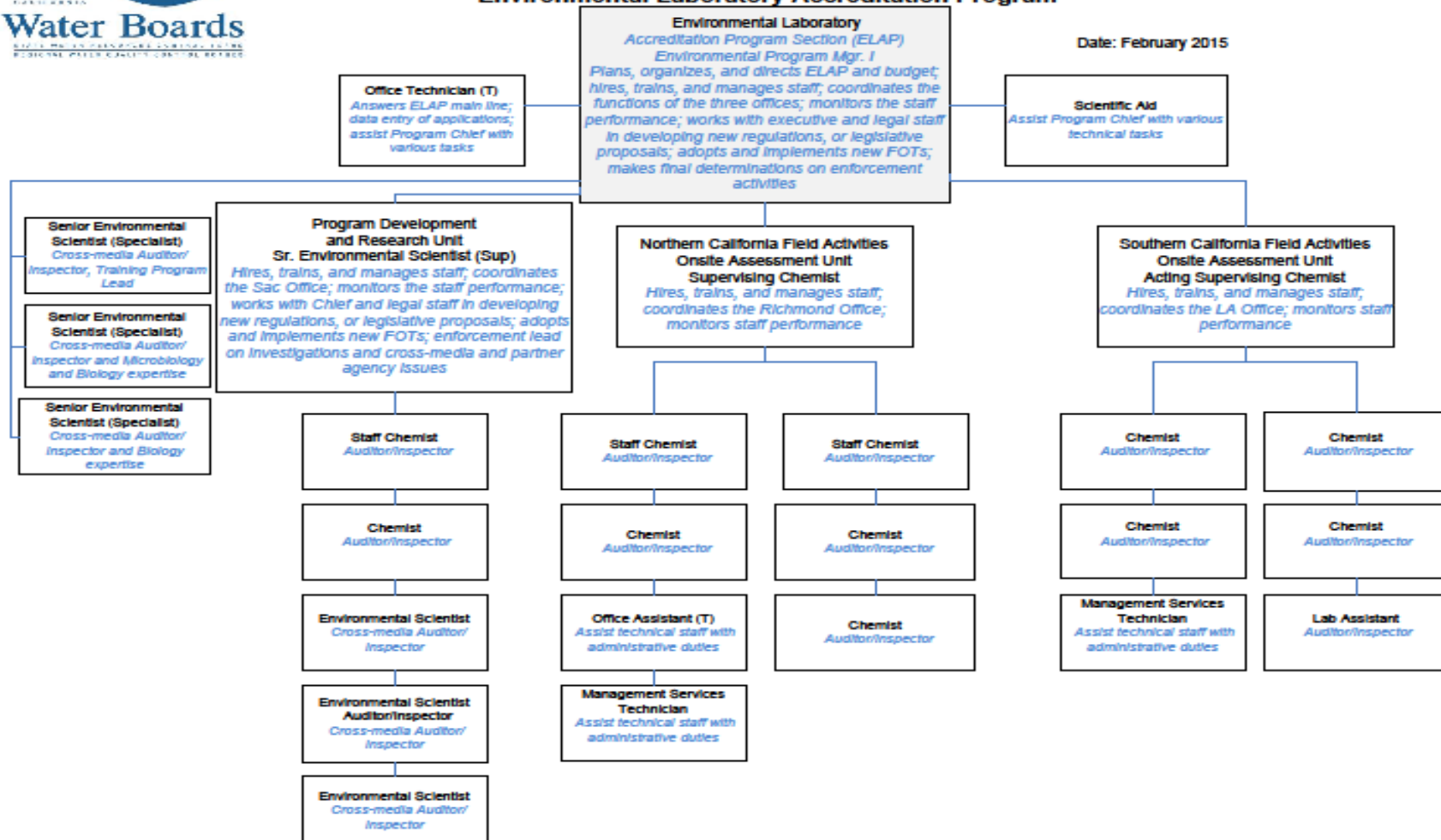
- ▶ Statistics about Auditors / CA ELAP
 - ▶ Qualifications of Auditors
 - ▶ Process for assigning inspections
 - ▶ Recommendations for the future for improvement
- 

Organization Chart



STATE WATER RESOURCES CONTROL BOARD Division of Drinking Water Environmental Laboratory Accreditation Program

Date: February 2015



Qualifications of Auditors

Auditor's Education			
Major	AA	BS	MS
Chemistry	1	7	3
Biology		1	1
Fisheries Management			1
Biochemistry			1
Business Administration			1

Qualifications of Auditors

Auditor's Experience		
Auditor	Years of Lab Experience	Years of Auditing Experience
1	4	25
2	10+	10
3	16	15
4	26	19
5	0	6
6	26.5	13
7	16.5	12
8	20+	6
9	18	11
10	9	5
11	4+	6
12	25	12
13	18	20
14	30+	0

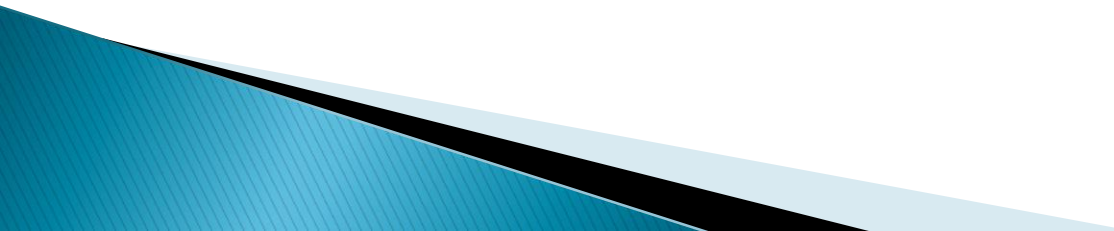
Staff Qualifications Statistics

Discipline	# of f Labs	Auditors Trained in Discipline
Shell Fish Sanitation	5	1
Food Pesticide Residue	11	1
Radiochemistry	39	2
Aquatic Bioassay	78	2
Microbiology	360	9
Microbiology, Inorganic & Organic Chemistry Drinking Water	388	12
Microbiology, Inorganic & Organic Chemistry Waste Water	509	12
Inorganic & Organic Chemistry Hazardous Waste	282	12
Asbestos	13	3
USEPA Drinking Water Certification Officers		10
USEPA Refresher Certification Course (every 5 years)		6

Process for Assigning Auditors

- ▶ Field Office Supervisors Lead (Consult Chief)
- ▶ Northern CA (Central Valley or Bay Area) or Southern CA
- ▶ Staff qualifications

Complications

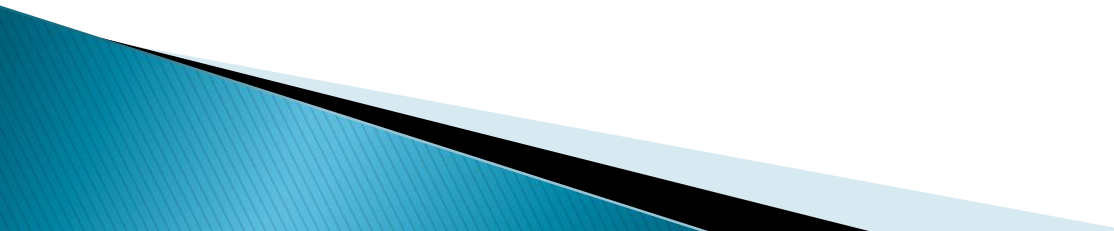
- ▶ Complaints about Auditor
 - ▶ Auditor ban
 - ▶ Not enough staff trained in disciplines
- 

Recommendations for the Future

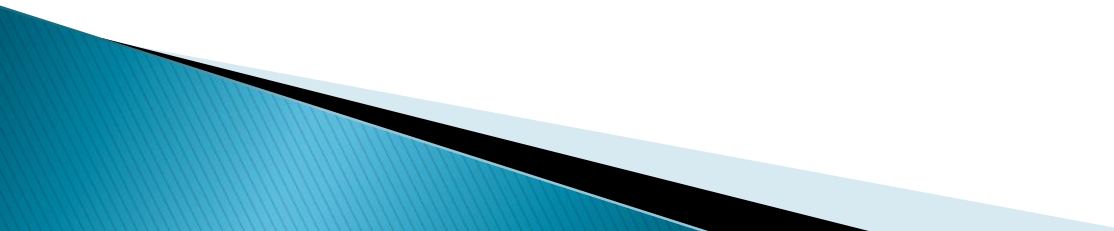
- ▶ Mandatory Training
- ▶ Develop comprehensive training plan
 - USEPA Certification Officer Training
 - Cal EPA Fundamental Inspector Course
 - Overview of Cal/EPA Boards, Departments and local agencies, environmental law, environmental science, the role of the environmental inspector and basic field health and safety
 - CalEPA Basic Inspector Academy
 - Core knowledge and skills to encourage cross-media awareness

Recommendations for the Future

Comprehensive Training Plan

- ▶ Shadowing staff/cross train
 - ▶ Reviewing data packages
 - ▶ Reviewing Proficiency Testing reports
 - ▶ Hands-on lab instrument training
 - ▶ WB Training Academy
 - ▶ Drinking Water Radiation Laboratory
 - (interagency agreement)
 - ▶ Customer Service
 - ▶ Interpersonal skills, listening, leadership
 - ▶ Ethics
- 

Recommendation for the Future

- ▶ Complaints about ELAP Staff
 - ▶ We can take every complaint seriously
 - ▶ Investigate allegation
 - ▶ Swift action
 - ▶ Respond to complainant
- 

Questions?

