ASCLD/LAB INSPECTION REPORT



NORTH CAROLINA STATE BUREAU OF INVESTIGATION TRIAD CRIME LABORATORY

NOVEMBER 16, 2009

INTRODUCTION

This is a report of the ASCLD/LAB inspection of the North Carolina State Bureau of Investigation Triad Crime Laboratory. During the period of October 30 through November 10, 2009 staff inspector Edward A. Moilanen reviewed documentation which was provided by the laboratory concerning compliance with criteria for which the laboratory was found to not be fully compliant during the initial inspection.

The **ASCLD/LAB** inspection team consisted of the following members:

Edward A. Moilanen, Staff Inspector, ASCLD/LAB, Roscommon, Michigan Nivanjit Gill, Contra Costa County Sheriff Department, California Michael Gilmore, FBI, Quantico, Virginia Patrick Davis, US Secret Service, Washington DC

The inspection was performed using the principles, standards and criteria established in the 2008 version of the ASCLD/LAB Accreditation Manual.

LABORATORY OVERVIEW

The North Carolina SBI Triad Crime Laboratory is a governmental laboratory which provides services primarily in the Greensboro area of North Carolina. The laboratory, located in the Guliford Building at 2306 West Meadowview Rd., Suite 110, Greensboro, NC, is seeking accreditation for the first time. Crime Laboratory Director Robert W. Evans reports to SBI Assistant Director Jerry Richardson. The Laboratory provides services in the disciplines of Controlled Substances, Toxicology, Digital & Multimedia Evidence (computer forensics and video analysis only) and Latent Prints. The Laboratory has a staff of ten (10) testifying analysts and three (3) support staff.

INSPECTION TEAM FINDINGS

The inspection team's scoring of each of the ASCLD/LAB Accreditation Standards and Evaluation Criteria from the 2008 Accreditation Manual follows. Each criterion for which the inspection team determined the laboratory to be in compliance is scored "Yes." Each criterion for which the inspection team found the laboratory to not be in total compliance is scored "No." Each criterion which is not applicable to the inspection of this laboratory is scored "N/A." The "Summary" portion of the report documents the basis for all non-compliance and all non-applicable findings of the Inspection Team.

STANDARDS AND CRITERIA

The laboratory should establish objectives which are relevant to the community that it serves and communicate them to all employees orally and in written form. Yes No N/A 1.1.1.1 (I) Does the laboratory have a written statement of its objectives? Do the objectives appear to be relevant to the needs of the 1.1.1.2 (I) community serviced by the laboratory? Does the laboratory staff understand and support the objectives? 1.1.1.3 (D) A laboratory or its parent agency should have a formal written budget which is consistent with the forensic services provided by it. Does the laboratory or its parent agency have a formal written 1.1.2.1 (I) budget? 1.1.2.2 (I) Is the budget adequate to meet the written objectives? Clearly written and well understood procedures must exist for handling and preserving the integrity of evidence; laboratory security; preparation, storage, security and disposition of case records and reports; control of materials and supplies; maintenance and calibration of equipment and instruments; and for operation of individual characteristic databases. Clearly written and well understood documentation or procedures should also exist for job requirements and descriptions; personnel evaluations and objectives; and for employee complaints concerning the quality system. Does clearly written and well understood documentation or procedure exist for the following: Handling and preserving the integrity of evidence? 1.1.2.3 (E) 1.1.2.4 (E) Laboratory security? 1.1.2.5 (E) Preparation, storage, security and disposition of case records and reports? 1.1.2.6 (E) Control of materials and supplies? Maintenance and calibration of equipment and instruments? 1.1.2.7 (E) 1.1.2.8 (E) Operation of individual characteristic databases? Job requirements and descriptions? 1.1.2.9 (D) 1.1.2.10 (D) Personnel evaluations and objectives? 1.1.2.11 (D) Employee complaints concerning the quality system?

	should have a management information system which provides in accomplishing its objectives.	nformai	tion whi	ch assists
		Yes	No	N/A
1.1.2.12 (I)	Does the laboratory have and use a management information system?	<u>√</u>		
	ry manager should be able to relate the organizational structure to stated in the principle.	to interd	acting va	uriables
1.2.1.1 (D)	Does the organizational structure group the work and personnel in a manner that allows for efficiency of operation, taking into account the interrelation of various forensic disciplines?	<u>√</u>		
1.2.1.2 (D)	Has the laboratory director considered and taken appropriate action to correct any discrepancies with regard to numbers of personnel when grouping work and resources?	<u>✓</u>		
The laborato	ry director should have authority commensurate with the assigne	d respo	nsibiliti	es.
1.2.2.1 (I)	Is the laboratory director's authority well defined?	\checkmark		
1.2.2.2 (I)	Does the laboratory director have authority commensurate with responsibilities?	<u>√</u>		
Delegation of principle.	f authority within the laboratory should follow the organizational	l proces.	s outline	ed in the
1.2.2.3 (I)	Is there sufficient delegation of authority?	<u>✓</u>	_	
1.2.2.4 (I)	Is authority of supervisors commensurate with their responsibilities?	<u>√</u>		
1.2.2.5 (I)	Is each subordinate accountable to one and only one immediate supervisor per function?	<u>√</u>		
1.2.2.6 (I)	Are performance expectations established and are they understood by laboratory personnel?	<u>✓</u>		
Constructive	discussion should occur between supervisors and subordinates.			
1.3.1.1 (D)	Is there constructive discussion between supervisors and subordinates?	<u>✓</u>		
Supervisors s	should carefully and objectively review laboratory activities and p	ersonne	el.	
1.3.1.2 (I)	Do supervisors carefully and objectively review laboratory activities and personnel?	<u>√</u>		

•	techniques should encourage creative thinking and objectivity an performance of subordinates.	d shoul	d recogn	nize
1		Yes	No	N/A
1.3.1.3 (D)	Do the supervisory techniques encourage creative, objective thinking and recognize meritorious performance?	<u>√</u>		
	tion within the laboratory should exist for coordination of case we n of technical and operational information.	ork and	to ensu	re wide
1.3.2.1 (D)	Does an effective means of communication exist within the laboratory?	<u>✓</u>		
	rogram to develop the technical skills of employees is essential in d subdiscipline.	each ap	plicable	,
1.3.3.1 (E)	Does the laboratory have and use a documented training program in each discipline and subdiscipline for employees who are new, untrained or in need of remedial training?	✓		
A formalized responsible j	personnel development program is important to prepare employeobs.	ees to as	sume m	ore
1.3.3.2 (I)	Does the laboratory have an employee development program?	<u>√</u>		
	ry should maintain an adequate forensic library to include litera inctional areas.	ture pub	lished i	n the
1.3.3.3 (I)	Does the forensic library contain current books, journals, and other literature dealing with each functional area?	<u>✓</u>		
A system or p	procedure should exist to encourage a review of appropriate new	literatui	re by per	rsonnel.
1.3.3.4 (I)	Does a system exist to encourage each examiner to review appropriate new literature?			
	ustody record must be maintained which provides a comprehensive transfer over which the laboratory has control.	ve, docu	mented	history of
1.4.1.1 (E)	Does the laboratory have a written or secure electronic chain of custody record with all necessary data which provides for complete tracking of all evidence?	<u> </u>		
	ual item of evidence must be marked for identification, when pra f to marking, its proximal container or identifying tag must be m		f the ite	m does
1.4.1.2 (E)	Is all evidence marked for identification?	✓		
Evidence sea	els must be designed and used to protect the integrity of the eviden	ıce.		
1.4.1.3 (E)	Is evidence stored under proper seal?	✓		

	precautions must exist which reduce the risk of evidence loss, cro r deleterious change.	ss transj	fer, cont	tamination
		Yes	No	N/A
1.4.1.4 (E)	Is evidence protected from loss, cross transfer, contamination and/or deleterious change?	<u>√</u>		
A secure are	ea for overnight and/or long-term storage of evidence must be ava	ilable.		
1.4.1.5 (E)	Is there a secure area for overnight and/or long-term storage of evidence?	<u>√</u>		
	aboratory must establish whether individual characteristic databa ference materials, or examination documentation.	se samp	les are 1	reated as
1.4.1.6 (E)	Has the laboratory established whether individual characteristic database samples are treated as evidence, reference materials, or examination documentation?			<u>✓</u>
Each individualitied.	dual characteristic database sample under the control of the labor	atory m	ust be u	niquely
1.4.1.7 (E)	Is each individual characteristic database sample under the control of the laboratory uniquely identified?			<u>✓</u>
	precautions must exist which reduce the risk of individual charac cansfer, contamination and /or other deleterious change.	teristic d	latabase	e sample
1.4.1.8 (E)	Are individual characteristic database samples protected from loss, cross transfer, contamination and/or deleterious change?			<u>✓</u>
	dividual characteristic database samples under the control of the those persons authorized by the laboratory director.	laborato	ory musi	t be
1.4.1.9 (E)	Is access to individual characteristic database samples restricted to those persons authorized by the laboratory director?			<u>√</u>
	s of a laboratory's quality system must be clearly documented in a tunder the responsibility of a quality manager.	quality	manual	which is
1.4.2.1 (E)	Does the laboratory have a comprehensive quality manual?	<u>√</u>		
A laboratory	must have an individual designated as the Quality Manager.			
1.4.2.2 (E)	Is an individual designated as the quality manager?	<u>✓</u>		
	at its operations continue to comply with the requirements of its q			

To verify that its operations continue to comply with the requirements of its quality system and the standards under which ASCLD/LAB accreditation was granted, each accredited laboratory must conduct an annual audit of its operations and submit an Annual Accreditation Audit Report (Appendix 6) to ASCLD/LAB by the anniversary of its accreditation.

		Yes	No	N/A
1.4.2.3 (E)	Did the accredited laboratory conduct and document an annual audit of its operations and submit an annual accreditation audit report to ASCLD/LAB by the required deadline?			
	system requires that laboratory management conduct a review at lontinued suitability and effectiveness of such a system.	east on	ce yearly	y to
1.4.2.4 (E)	Does the laboratory conduct and document an annual review of its quality system?	<u>√</u>		
Procedures a scientific n	used must be generally accepted in the field or supported by data gnanner.	gathered	l and re	corded in
1.4.2.5 (E)	Are the procedures used generally accepted in the field or supported by data gathered and recorded in a scientific manner?	<u>✓</u>		
	al procedures must be validated to prove their efficacy in examini implemented on casework.	ng evide	епсе та	terial
1.4.2.6 (E)	Are new technical procedures scientifically validated before being used in casework and is the validation documentation available for review?	<u>✓</u>		
The laborate	ory must maintain written copies of appropriate technical procedu	res.		
1.4.2.7 (E)	Are the technical procedures used by the laboratory documented and are the documents available to laboratory personnel for review?	<u>√</u>		
	d standard samples must be used and documented in the case recog parameters and, thereby, the conclusion.	rd to en	sure the	e validity
1.4.2.8 (E)	Are appropriate controls and standards specified in the procedures and are they used and documented in the case record to ensure the validity of examination results?	s <u>√</u>		
The quality	of the standard samples and reagents must be adequate for the pro	ocedure	used.	
1.4.2.9 (E)	Is the quality of the standard samples and reagents adequate for the procedure used?	<u>√</u>		
All reagents	must be routinely tested for their reliability.			
1.4.2.10 (E)	Does the laboratory routinely check the reliability of its reagents?	<u>√</u>		
Instruments	equipment should be adequate for the procedures used.			
1.4.2.11 (I)	Are the instruments/equipment adequate for the procedures used?	\checkmark		

Instruments	equipment should be maintained in proper working order.			
		Yes	No	N/A
1.4.2.12 (I)	Are the instruments/equipment in proper working order?	<u>✓</u>		
Instruments/ calibrated in	equipment must be properly calibrated and calibration records m struments.	aintaine	ed for al	<i>'I</i>
1.4.2.13 (E)	Are the instruments/equipment properly calibrated?	✓_		
	ry must create and maintain a uniquely identified case record for documentation generated and/or received by the laboratory for evidence.			
1.4.2.14 (E)	Does the laboratory create and maintain a uniquely identified case record for all examination and administrative documentation generated and/or received by the laboratory for each case involving the analysis of evidence?	✓		
handwritten	ry's unique case identifier must be on each page of examination initials (or secure electronic equivalent) of the person generating on must be on each page generated by that person.			
1.4.2.15 (E)	Does the laboratory's unique case identifier appear on each page of examination documentation, and does the handwritten initials (or secure electronic equivalent) of the person generating the examination documentation appear on each page generated by that person?	<u>✓</u>		
reported by t competent ex	n documentation must be sufficiently detailed to support the conclude he examiner(s) and must be such that, in the absence of the examiner or supervisor could evaluate what was done and interpreson must be of a permanent nature and must be free of obliteration	niner(s), et the dat	anothei ta. Exai	r mination
1.4.2.16 (E)	Are conclusions and opinions in reports supported by data available in the case record, and are the examination documents sufficiently detailed such that, in the absence of the examiner(s), another competent examiner or supervisor could evaluate what was done and interpret the data?	<u>✓</u>		
1.4.2.17 (E)	Is examination documentation of a permanent nature and is it free of obliterations and erasures?	<u>√</u>		
	personnel who issue findings based on examination documentation ust complete and document the review of all relevant pages of exagecord.			
1.4.2.18 (E)	Has each person(s) in the laboratory who issued findings based on examination documentation generated by another person, completed a review of all relevant pages of examination documentation and documented the review in the case record?	<u>✓</u>		

	The significance of associations made must be communicated come name of the author(s) must appear in the report.	learly an	d quali	fied
property. 11	re name of the author(s) must appear in the report.	Yes	No	N/A
1.4.2.19 (E)	Does the laboratory generate written reports for all analytical work performed on evidence, and do the reports contain the conclusions and opinions that address the purpose for which the analytical work was undertaken?	✓		
1.4.2.20 (E)	Where associations are made, is the significance of the association communicated clearly and qualified properly in the report?			
1.4.2.21 (E)	Does the name of the author(s) appear in the report?	<u>√</u>		
It is essentia	l that a representative number of reports be subjected to a technic	cal revie	w.	
1.4.2.22 (E)	Does the laboratory have, use and document a system of technical review of the reports to ensure that the conclusions of its examiners are reasonable and within the constraints of scientific knowledge?	<u>✓</u>		
Administratiissued.	ve reviews must be conducted to ensure the completeness and con	rrectness	s of the	reports
1.4.2.23 (E)	Does the laboratory conduct and document administrative reviews of all reports issued?	<u>√</u>		
	ry must have and follow a written procedure whereby the testimo least once every year.	ony of ea	ch exan	niner is
1.4.2.24 (E)	Does the laboratory monitor the testimony of each examiner at least annually and is the examiner given feedback from the evaluation?	<u>✓</u>		
	ory must have a written procedure which it uses to initiate a revie the laboratory has an indication of a significant problem with a nalyst.			
1.4.2.25 (E)	If the laboratory has an indication of a significant technical problem, is there a procedure in writing and in use whereby the laboratory initiates a review and takes any corrective action required?	✓		
	tory must have a documented program of proficiency testing whichers and the reliability of its analytical results.	ch meas	ures the	capability
1.4.3.1 (E)	Does the laboratory have a documented program of proficiency testing?	✓_		

Written reports must be generated for all analytical work performed on evidence by the laboratory and must contain the conclusions and opinions that address the purpose for which the analytical work was

	ry must participate in proficiency testing programs in which sam, provider. ASCLD/LAB approved providers must be used where a			a by an
	provided the second provided and the second provided the second pr	Yes	No	N/A
1.4.3.2 (E)	Does the laboratory participate in proficiency testing programs conducted by approved test providers or by other external provider(s) when no approved provider is available?	<u>✓</u>		
Each Exami performed.	ner should be proficiency tested annually in each subdiscipline in	which c	casewor	k is
1.4.3.3 (I)	Was each examiner proficiency tested annually in each subdiscipline in which casework was performed?			
The laborato	ry should conduct annual proficiency testing in each discipline u ques.	sing re-e	examino	ation or
1.4.3.4 (I)	Does the laboratory conduct proficiency testing using re-examination or blind techniques?		√	
	ner must be proficiency tested at least once, during each five-year ipline in which the examiner performs casework examinations at			vcle, in
1.4.3.5 (E)	Was each examiner proficiency tested at least once, during the previous five-year accreditation cycle, in every subdiscipline in which the examiner performed casework examinations and issued reports?	✓		
MANAGEN	IENT .			
criminalistic	ry director should have a minimum of a baccalaureate degree in s or a closely related field. If the director lacks a scientific backg ithin management by personnel with appropriate scientific backg	round, tl		
2.1.1 (I)	Does the laboratory director possess a degree in a natural science, criminalistics or in a closely related field, or is the laboratory director supported by scientific personnel of sufficient managerial rank and authority?	✓_		
	director should have at least five years of forensic science experione of the ASCLD/LAB accredited disciplines.	ence per	forming	3
2.1.2 (D)	Does the laboratory director have at least five years of forensic science experience?			
	ducation in management or business administration by college corses (or both) is recommended.	ourse woi	rk or sh	ort
2.1.3 (D)	Does the laboratory director have some formal training in management?	<u>√</u>		

The laborato	ry director should have at least two years of experience in manago	ement.		
		Yes	No	N/A
2.1.4 (D)	Does the laboratory director have at least two years of managerial experience?	<u>✓</u>		
CONTROLI	LED SUBSTANCES			
testimony pro	oust have education and experience/training commensurate with to wided. A baccalaureate or advanced degree in a natural science, d field is required.			
2.2.1 (E)	Does each examiner possess a baccalaureate or advanced degree in a natural science, criminalistics or in a closely related field and does each have experience/training commensurate with the examinations and testimony provided?	✓		
	oust have a good understanding of the principles, uses and limitate ods and procedures as applied to the tasks performed.	ions of t	he instr	uments,
2.2.2 (E)	Does each examiner understand the instruments, and the methods and procedures used?	<u>✓</u>		
Examiners m	ust have successfully completed a competency test.			
2.2.3 (E)	Did each examiner successfully complete a competency test prior to assuming casework responsibility?	<u>✓</u>		
A proficiency	test must be successfully completed by each examiner at least an	nually.		
2.2.4 (E)	Did each examiner successfully complete an annual proficiency test?	<u>√</u>		
TOXICOLO	GY			
testimony pro	tust have education and experience/training commensurate with to wided. A baccalaureate or advanced degree in a natural science, sor in a closely related field is required.			s and
2.3.1 (E)	Does each examiner have a baccalaureate or advanced degree in a natural science, toxicology, criminalistics or in a closely related field and does each have experience/training commensurate with the examinations and testimony provided?	<u>✓</u>		
	ust have a good understanding of the principles, uses and limitate ods and procedures applied to the tasks performed.	ions of t	he instr	uments,
2.3.2 (E)	Does each examiner understand the instruments, and the methods and procedures used?	<u>✓</u>		

Examiners n	nust have successfully completed a competency test.			
		Yes	No	N/A
2.3.3 (E)	Did each examiner successfully complete a competency test prior to assuming casework responsibility?	<u>✓</u>		
A proficienc	y test must be successfully completed by each examiner at least an	nually.		
2.3.4 (E)	Did each examiner successfully complete an annual proficiency test?	<u>✓</u>		
TRACE EV	IDENCE			
testimony pr	nust have education and experience/training commensurate with tovided. A baccalaureate or advanced degree in a natural science, ad field is required.			
2.4.1 (E)	Does each examiner possess a baccalaureate or advanced degree in a natural science, criminalistics or in a closely related field and does each have experience/training commensurate with the examinations and testimony provided?			✓
	nust have a good understanding of the principles, uses and limitate oods and procedures applied to the tasks performed.	ions of t	the inst	ruments,
2.4.2 (E)	Does each examiner understand the instruments, and the methods and procedures used?			<u>√</u>
A competenc	ry test must be successfully completed prior to working cases of each	ch evide	nce typ	e.
2.4.3 (E)	Did each examiner successfully complete a competency test in each of the subdisciplines processed prior to assuming casework responsibility?			✓
A proficienc	y test must be successfully completed by each examiner at least an	nually.		
2.4.4 (E)	Did each examiner successfully complete an annual proficiency test?			<u>✓</u>
BIOLOGY				
testimony pr	nust have education and experience/training commensurate with tovided. A baccalaureate or advanced degree in a natural science, and field is required.			
2.5.1 (E)	Does each examiner possess a baccalaureate or advanced degree in a natural science, criminalistics or in a closely related field and does each have experience/training commensurate with the examinations and testimony provided?			<u>✓</u>

		Yes	No	N/A
2.5.2 (E)	Does each examiner performing DNA analysis have education, training and experience consistent with those required by the quality assurance audit document?			
	must have a good understanding of the principles, uses and limita thods and procedures applied to the tasks performed.	itions of	the inst	ruments,
2.5.3 (E)	Does each examiner understand the instruments, and the methods and procedures used?			_
Examiners	must have successfully completed a competency test.			
2.5.4 (E)	Did each examiner successfully complete a competency test prior to assuming casework responsibility?			<u>✓</u>
A proficien	cy test must be successfully completed by each examiner at least a	nnually	?	
2.5.5 (E)	Did each examiner successfully complete an annual proficiency test?			
Two profici	iency tests must be successfully completed by each DNA examiner	annuall	y.	
2.5.6 (E)	Did each examiner performing DNA analysis successfully complete two annual proficiency tests from an approved test provider?			
FIREARM	IS/TOOLMARKS			
Firearms/to	polmarks examiners should have a baccalaureate degree with scien	nce cour	ses.	
2.6.1 (I)	Does each examiner possess a baccalaureate degree with science courses?	—		<u>√</u>
	must have a good understanding of the principles, uses and limita thods and procedures used as applied to the tasks performed.	tions of	the inst	ruments
2.6.2 (E)	Does each examiner understand the instruments, and the methods and procedures used?			_
testimony p	must have education and experience/training commensurate with rovided. Independent case examinations must not be undertaken lified examiner has been completed.			
2.6.3 (E)	Did each examiner have extensive training from a qualified examiner and does each have experience commensurate with the examinations and testimony provided?			<u>√</u>

Examiners m	ust successfully complete a competency test.			27/4
		Yes	No	N/A
2.6.4 (E)	Did each examiner successfully complete a competency test prior to assuming case work responsibility?			✓
A proficiency	test must be successfully completed by each examiner at least and	nually.		
2.6.5 (E)	Did each examiner successfully complete an annual proficiency test?			<u>✓</u>
QUESTION	ED DOCUMENTS			
Questioned d	ocument examiners should have a baccalaureate degree with scien	nce cou	rses.	
2.7.1 (I)	Does each examiner possess a baccalaureate degree with science courses?			<u>✓</u>
	oust have a good understanding of the principles, uses and limitatiods and procedures used as applied to the tasks performed.	ons of t	the instr	uments,
2.7.2 (E)	Does each examiner understand the instruments, and the methods and procedures used?			<u>✓</u>
testimony pro	oust have education and training/experience commensurate with the ovided. Independent case examinations must not be undertaken unfied document examiner has been completed.			
2.7.3 (E)	Did each examiner have extensive training from a qualified examiner and does each have experience commensurate with the examinations and testimony provided?			✓
Examiners m	ust have successfully completed a competency test.			
2.7.4 (E)	Did each examiner successfully complete a competency test prior to assuming case work responsibility?			<u>✓</u>
A proficiency	test must be successfully completed by each examiner at least and	nually.		
2.7.5 (E)	Did each examiner successfully complete an annual proficiency test?			<u>✓</u>
LATENT PR	RINTS			
Latent print e	examiners should have a baccalaureate degree with science course	es.		
2.8.1 (I)	Does each examiner possess a baccalaureate degree with science courses?	<u>✓</u>		

and limitations of the instruments, and the methods and procedures used as applied to the tasks performed.				
Filgranian		Yes	No	N/A
2.8.2 (E)	Does each examiner understand the instruments, and the methods and procedures used?	<u>✓</u>		
testimony pr	must have education and training/experience commensurate with t rovided. Independent case examinations must not be undertaken u ified latent print examiner has been completed.			
2.8.3 (E)	Did each examiner have extensive training from a qualified examiner and does each have experience commensurate with the examinations and testimony provided?	<u>✓</u>		
Examiners	must have successfully completed a competency test.			
2.8.4 (E)	Did each examiner successfully complete a competency test prior to assuming casework responsibility?	<u>✓</u>		
A proficienc	cy test must be successfully completed by each examiner at least an	nually.		
2.8.5 (E)	Did each examiner successfully complete an annual proficiency test?	<u>✓</u>		
TECHNIC	AL SUPPORT			
The individ	ual must meet the specification of the job description.			
2.9.1 (E)	Do technical support personnel meet the requirements of their job descriptions?			✓
The job desc	cription and the duties performed must be in agreement.			
2.9.2 (E)	Are the job descriptions and the duties performed in agreement?			✓
Technical s	upport staff must have successfully completed an appropriate comp	oetency	test.	
2.9.3 (E)	Did each member of the technical support staff successfully complete an appropriate competency test prior to assuming casework responsibility?			
Technical s	upport personnel must successfully complete an appropriate profic	iency to	est annu	ally.
2.9.4 (E)	Did all technical support personnel successfully complete an appropriate proficiency test, annually?			✓

Examiners must have a good understanding of the concept of individualization and the principles, uses

	ency tests must be successfully completed annually by all technica DNA analysis.	al suppo	rt persoi	inel
		Yes	No	N/A
2.9.5 (E)	Did all technical support personnel performing DNA analysis successfully complete two annual proficiency tests from an approved test provider?			<u>✓</u>
CRIME SO	<u>CENE</u>			
The examin	er must meet the requirements of the job description.			
2.10.1 (E)	Do examiners meet the requirements of their job descriptions?			✓_
and the use	must have a good understanding of the concept and theory of scens and limitations of the equipment, methods and procedures used as, as applied to the tasks performed.		•	•
2.10.2 (E)	Does each examiner understand the equipment, methods and procedures used?			✓
and testimo documentat	must have training and experience commensurate with the examiny provided, as applied to the tasks performed. Independent exantion at crime scenes must not be undertaken until extensive instruas been completed.	nination	s and	
2.10.3 (E)	Did each examiner have extensive training from a qualified examiner and does each have experience commensurate with the examinations/documentation and testimony provided?			✓
Examiners	must have successfully completed a competency test(s) as applied	to the ta	sk(s) pe	rformed.
2.10.4 (E)	Did each examiner successfully complete a competency test(s) prior to primary responsibility for the examination, documentation and processing of a crime scene?			<u>✓</u>
annually. T	cy test must be completed by each person conducting crime scene The proficiency test should reflect the types of procedures, method he typical task(s) performed.			
2.10.5 (E)	Did each examiner successfully complete an annual proficiency test?			✓
DIGITAL 6	& MULTIMEDIA EVIDENCE			
Digital and	multimedia evidence examiners should have a baccalaureate deg	ree with	science	courses.
2.11.1 (I)	Does each examiner possess a baccalaureate degree with science courses?	✓_		

	nust have a good understanding of the principles, uses and limita d the methods and procedures as applied to the tasks performed.	uons oj	ine naro	
		Yes	No	N/A
2.11.2 (E)	Does each examiner understand the equipment, programs, methods and procedures used?	<u>√</u>		
testimony pr	nust have education and training/experience commensurate with ovided. Independent case examinations must not be undertaken fied examiner has been completed.			
2.11.3 (E)	Does each examiner have experience commensurate with the examinations/documentation and testimony provided?	<u>√</u>		
Examiners n	nust have successfully completed a competency test.			
2.11.4 (E)	Did each examiner successfully complete a competency test in each subdiscipline prior to assuming casework responsibility?	✓		
A proficienc	y test must be successfully completed by each examiner at least a	nnually.		
2.11.5 (E)	Did each examiner successfully complete an annual proficiency test?	<u>√</u>		
Each employ	vee should have adequate work space to accomplish assigned task	zs.		
3.1.1 (I)	Does each employee have adequate work space to accomplish assigned tasks?	<u>√</u>		
Sufficient sp	ace should be provided for storage of supplies, equipment and to	ols.		
3.1.2 (D)	Is there sufficient space provided for storage of supplies, equipment and tools?	<u>√</u>		
Examiners s	hould have space available for writing reports and other official	commun	ications	5.
3.1.3 (I)	Is there adequate space available for examiners for writing reports and other official communications?	<u>√</u>		
Adequate an	d appropriate space should exist for records and reference mater	ials.		
3.1.4 (I)	Is there adequate and appropriate space available for records, reference works and other necessary documents?	✓		
Sufficient sp	ace should be available for instrumentation/equipment to facilita	te its op	eration.	
3.1.5 (I)	Is adequate space available for instrumentation/equipment to facilitate its operation?	<u>√</u>		

Accessories	use and Yes	<i>operatio</i> No	o n. N/A	
3.1.6 (D)	Are accessories stored near instrumentation/equipment to facilitate its use and operation?	<u>✓</u>		
The physica proper dispo	l design should permit the efficient flow of evidence from the timessal.	e of its a	cceptan	ce until its
3.2.1 (I)	Does the physical design permit the efficient flow of evidence from the time of its acceptance until its proper disposal?	<u>√</u>		
The relative	locations of functional areas should facilitate the use of equipme	ent and i	nstrume	ents.
3.2.2 (D)	Do the relative locations of functional areas facilitate the use of equipment and instruments?	<u>✓</u>		
Adequate ar	nd proper lighting should be available for personnel to carry out a	ssigned	tasks.	
3.2.3 (I)	Is there adequate and proper lighting available for personnel to carry out assigned tasks?	<u>√</u>		
Adequate ar tasks.	nd proper plumbing and wiring should be available and accessible	e to carr	y out as:	signed
3.2.4 (I)	Is there adequate and proper plumbing and wiring available and accessible to carry out assigned tasks?	<u>√</u>		
The laborate	ory should have proper general ventilation.			
3.2.5 (I)	Does the laboratory have proper general ventilation?	✓		
There shoul	d be adequate heating, cooling and humidity control in the labora	itory.		
3.2.6 (I)	Is the heating, cooling and humidity control in the laboratory adequate?	<u>√</u>		
	e operational area of the laboratory must be controllable and limi igned to routinely work in the area or to those individuals designa ave access.			
3.3.1 (E)	Is access to the operational area of the laboratory controllable and limited?	<u>√</u>		
All exterior	entrance/exit points require adequate security control.			
3.3.2 (E)	Do all exterior entrance/exit points have adequate security control?			

Internal area	as requiring limited/controlled access must have a lock system.	••		27/4
		Yes	No	N/A
3.3.3 (E)	Do all internal areas requiring limited/controlled access have a lock system?	<u>✓</u>		
	ity of all keys, magnetic cards, etc., must be documented and their luals designated by the laboratory director to have access.	distribi	ution lin	nited to
3.3.4 (E)	Is distribution of all keys, magnetic cards, etc., documented and is distribution limited to those individuals designated by the laboratory director to have access?	<u>✓</u>		
The laborate	ory must be monitored during vacant hours by an intrusion alarm	or by se	ecurity p	ersonnel.
3.3.5 (E)	Is the laboratory secured during vacant hours by means of an intrusion alarm or by security personnel?	<u>√</u>		
The laborate	ory should have a fire detection system.			
3.3.6 (I)	Does the laboratory have a fire detection system?	\checkmark		
	of a laboratory's health and safety program must be clearly docu n should be monitored and the manual kept current by a health ar			
3.4.1 (I)	Does the laboratory have an effective health and safety program documented in a manual?	<u>✓</u>		
3.4.2 (I)	Is an individual designated as the health and safety manager?	<u>✓</u>		
3.4.3 (I)	Is the health and safety program monitored regularly and reviewed annually to ensure that its requirements are being met?	<u>√</u>		
required in i	ory should have available and encourage the use of safety devices its health and safety manual). Examples of such devices are gogg loves and fire extinguishers.			
3.4.4 (I)	Does the laboratory have available and encourage the use of safety devices, particularly those required by its health and safety manual?	<u>√</u>		
	oment and material should be available for the handling of carcin rous material spills.	ogenic,	toxic ar	ıd/or
3.4.5 (I)	Does the laboratory have proper equipment and material available for the handling of carcinogenic, toxic and/or other dangerous material spills?	. ✓		

	ory should have safety shower and eye wash equipment in appropr ng condition.	iate loc	ations a	nd in
		Yes	No	N/A
3.4.6 (I)	Does the laboratory have safety shower and eye wash equipment in appropriate locations and in good working condition?			
Exhaust ho	ods must be available to maintain a safe work environment.			
3.4.7 (I)	Are sufficient exhaust hoods available to maintain a safe work environment?	√		
Sufficient fi	irst-aid kits should be available and strategically located.			
3.4.8 (I)	Are sufficient first-aid kits available and strategically located?	✓		
An adequat	e number of personnel should hold current certification in first-aid	<i>!</i> .		
3.4.9 (I)	Does the laboratory have an adequate number of personnel holding current certification in first-aid?	<u>√</u>		
Space shou materials.	ld be provided for safe storage of volatile, flammable, explosive and	l other	hazardo	us
3.4.10 (I)	Is appropriate space provided for safe storage of volatile, flammable, explosive and other hazardous materials?	<u>✓</u>		
Emergency	exits from the laboratory should be in compliance with safe working	ıg requ	irement	S.
3.4.11 (I)	Are the emergency exits from the laboratory adequate for safe exit in an emergency?	<u>✓</u>		
General cle	anliness and good-housekeeping should be apparent.			
3.4.12 (D)	Is there general cleanliness and apparent good-housekeeping in the laboratory?	<u>✓</u>		

SUMMARY

The following summarizes the criteria for which the Inspection Team determined the laboratory to not be in compliance at the time of the initial inspection and documents the basis for the findings under the heading of <u>Original inspection finding</u>. The report also documents, as Supplemental findings, the laboratory's compliance with those criteria since the initial inspection.

1.4.2.7 (E) Are the technical procedures used by the laboratory documented and are the documents available to laboratory personnel for review?

Original inspection finding:

Toxicology procedure J-5, Extraction Procedure for Base Drugs, dated July 1, 2008, as documented in the official electronic procedure manual is not consistent with the working copy of procedure J-5, dated June 11, 2008, being used by analysts. The working copy has handwritten notations changing the ingredient amounts used to prepare phosphate buffer and internal standard solutions. These changes are not reflected in the official electronic copy.

Supplemental finding:

Toxicology procedure J-5 has been updated effective September 29, 2009. The measured ingredient amounts for the phosphate buffer and internal standard are now correctly reflected in both the electronic and working copies of the procedure. An example was added for the preparation of methylene chloride: isopropyl alcohol (4:1) with 2% ammonium hydroxide.

Original inspection finding:

Drug Chemistry Section Policy and Procedure Manual requires that clan lab evidence be destroyed sixty days after the report of analysis is issued unless otherwise requested. A review of the only two clan lab reports completed (one completed in June 2009 and one completed in December 2008) revealed this policy is not being followed. Evidence from these two clan lab cases was stored in the laboratory.

Supplemental finding:

The laboratory director issued Administrative Order No. 09-01, effective October 14, 2009 which states, "Clandestine laboratory evidence in drug chemistry cases can be destroyed after being retained for at least sixty days. The Triad Regional Crime Laboratory will still consider this to be evidence until it is destroyed." Administrative Orders are effective pending formal modification of the Drug Chemistry Section Policy and Procedure Manual. An electronic copy of the Administrative Order was received and reviewed.

1.4.2.9 (E) Is the quality of the standard samples and reagents adequate for the procedure used?

Original inspection finding:

Controlled substance standard containers are labeled with the name of the standard and lot number. There is no documentation for the majority of drug standards in this laboratory that the identity of the standard is confirmed or that the standard conforms to the requirements of Controlled Substances Technical Procedure M-01. The procedure requirements include: (1) the standard be tested with infrared or mass spectroscopy to confirm its identity with the resulting spectrum being added to the instrumental library, (2) all data collected and/or received will be

filed in the "Certified Standards" notebook in the section library, (3) the certifying chemist is required to initial and date the standard container.

Supplemental finding:

New controlled substance standards have been ordered to replace the samples that did not have documentation and/or labeling that complied with laboratory policy. Electronically transmitted images of spectra and photographs of the containers for five new drug standards were received and reviewed.

1.4.2.16 (E) Are conclusions and opinions in reports supported by data available in the case record, and are the examination documents sufficiently detailed such that, in the absence of the examiner(s), another competent examiner or supervisor could evaluate what was done and interpret the data?

Original inspection finding:

Controlled substances examination documentation for marijuana identifications is not sufficiently detailed such that another competent examiner could evaluate what was done and interpret the data. Documentation for marijuana examinations has no reviewable description of what was observed. Leaves and stems are checked as being observed however there is no reference in the procedures as to the characteristics of the leaves and stems necessary for a positive identification.

Supplemental finding:

The Drug Chemistry Section Technical Procedure Manual was revised to add and reference descriptions which document the exact microscopic and macroscopic characteristics observed when identifying marijuana. An electronic copy of procedure was received and reviewed.

Original inspection finding:

Controlled substances examination documentation for cocaine identification using polarized light microscopy does not describe the structure and habit of crystals observed. The only documentation is that "cocaine crystals-crosses" were observed. There is no reference in the procedures as to the characteristics of the crystals necessary for a positive identification.

Supplemental finding:

Drug Chemistry Section Technical Procedure B-04 was modified to include the term "cross" or "feathered cross-shaped" crystal and references which document the characteristics observed when identifying cocaine. An electronic copy of modified procedure was received and reviewed.

3.4.1 (I) Does the laboratory have an effective health and safety program documented in a manual?

Original inspection finding:

The laboratory safety manual requires employees to be trained in the details of the Chemical Hygiene Plan and shall include: (1) the location and availability of the chemical Hygiene Plan. Six of seven analysts asked, did not know where the chemical hygiene plan was located.

Supplemental finding:

A copy of the Crime Laboratory Safety Manual has been distributed to each employee and the manual is available electronically. A training record has been signed and dated by each

employee as they acknowledge having reviewed the Chemical Hygiene Plan and location in the manual. An electronic copy of the training record, signed and dated by laboratory employees, was received and reviewed.

3.4.3 (I) Is the health and safety program monitored regularly and reviewed annually to ensure that its requirements are being met?

Original inspection finding:

The health and safety program is monitored annually however not all the requirements are being met. Laboratory safety policy requires hazardous material containers to be labeled with the appropriate chemical hazard category. Reagent containers in Controlled Substances and Toxicology are not labeled with the hazard category. Laboratory safety policy requires "highly toxic chemicals shall be stored in unbreakable secondary containers". Acid bottles in the chemical storage room are stored in an acid resistant cabinet but not in unbreakable secondary containers.

Supplemental finding:

The Laboratory Safety Manual has been revised. The requirement for labeling hazardous material containers with the appropriate hazard category has been removed from the safety manual. The requirement for storing highly toxic chemicals in unbreakable secondary containers has been removed from the manual. An electronic copy of the Safety Manual with the revisions was received and reviewed.

The inspection team was not presented with documentation of compliance for the following Important criterion which was scored NO during the initial inspection:

1.4.3.4 (I) Does the laboratory conduct proficiency testing using re-examination or blind techniques?

Original inspection finding:

The laboratory does not conduct proficiency testing using re-examination or blind techniques.

Criteria 1.4.1.6, 1.4.1.7, 1.4.1.8 and 1.4.1.9 were scored N/A because the laboratory does not accept, input or store individual characteristic database samples.

Criterion 1.4.2.3 was scored N/A because the laboratory is applying for accreditation for the first time.

All criteria for sections 2.4 Trace Evidence, 2.5 Biology, 2.6 Firearms/Toolmarks, 2.7 Questioned Documents, were scored N/A because the laboratory does not perform work in the disciplines.

All criteria for section 2.9, Technical Support, were scored N/A because the laboratory does not employ technical support personnel

All criteria for section 2.10, Crime Scene, were scored N/A because the laboratory elected to not apply for accreditation in the Crime Scene discipline.

SUMMATION OF CRITERIA RATINGS

	Total Possible	Total Yes	Total No	Total N/A	Total Number Yes/No
Essential	91	58	0	33	58
Important	45	42	1	2	43
Desirable	16	16	0	0	16

Percent Essential: 100%

Percent Important: 98%

Percent Desirable: 100%

Areas sought for accreditation are as follows:

Controlled Substances

Toxicology

Digital & Multimedia Evidence (computer forensics and video analysis only)

Latent Prints

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