## NC Veterinary Diagnostic Laboratory System (NCVDLS) – Staffing and Resource Needs

#### Background/Issue

The NCVDLS consists of 4 laboratories across the State

- Rollins Laboratory (Steve Troxler Agricultural Sciences Center, Raleigh, NC)
- Griffin Laboratory (Monroe, NC)
- Northwestern Laboratory (Elkin, NC)
- Western Laboratory (Arden, NC)

The Rollins Lab in Raleigh, NC is the central lab and is the only lab with capabilities for molecular diagnostics, virus isolation, bacteriology, and histopathology. This briefing will focus on the staffing and resources needs for this location.

The Rollins Lab moved into its current location at the Steve Troxler Agricultural Sciences Center in 2021. This move provided ample space with the hope of adding more staff to expand diagnostic capabilities and to provide our animal agriculture industry with the testing they need.

In the past 12 years, the lab's PCR testing case load has increased by more than 525%. With the ongoing threat of infectious diseases in the poultry industry (ILT, MS/MG, and AI), the diagnostic and surveillance case load will continue to increase. The progressive and sustained increase in testing numbers have maxed out our testing capacity and limits our ability for outbreak testing capacity and eliminates our ability to increase or add testing to meet the testing demands of our stakeholders. While our case load has increased, the number of staff has not, as we currently have 5 staff in molecular diagnostics performing PCR testing. Each staff member is performing close to 13,000 tests/year.

With our lab at capacity, industry has informed us that they are only sending regulatory tests to the Rollins lab while sending all other testing needs out of state. For example, Avian Metapneumovirus spread across the country this past year causing significant disease in poultry. This disease presents with signs similar to other respiratory diseases. However, due to our testing capabilities, we have been unable to develop and implement testing for this important infectious disease in poultry causing industry to seek testing elsewhere. Additional surveillance and diagnostic testing requirements that cannot be met here are sent to Georgia, Mississippi, Minnesota, Iowa, Wisconsin, New York, and South Dakota diagnostic laboratories.

Additional staffing will enable us to increase our testing capabilities for poultry, swine, and other livestock, companion animals, and wildlife, and provide surge capacity during outbreaks. Though our swine industry ranks number 3 nationally, testing for this industry accounts for less than 1% of our testing case load.

# Staffing Needs – Current Budget Ask 5 FTEs = \$664,905

Position	Summary of Duties	Justification	Salary Requirements
Medical Laboratory Technologist II	Technologist – PCR	Support of the poultry and swine industry with significantly increased test load.	\$112,558
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Medical Laboratory Technologist I	Histo/IHC Processing	Processing samples and making H&E slides for evaluation by pathologists. With appropriate marketing and increased service, CWD submissions can significantly increase.	\$100,581
Veterinary Specialist- Pathologist	Veterinary Pathologist Support	AAVLD requires that subject matter experts, pathologists, are directly involved with all necropsy test selection, oversight, and case coordination. Our lab system has historically been set up to allow veterinary diagnosticians for this role. This is not AAVLD compliant, and we need additional pathology support to address recent audit findings.	\$169,604
Veterinary Specialist- Molecular, Virology, Sequencing Section Head	Admin/Molecular/Virology	Our last AAVLD audit illustrated a significant need for mid-level management with lab assistant director continuing to serve as molecular section head. Oversight of current caseload, personnel management, QA as well as short and long range planning.	\$169,604
		Total:	\$664,905

These 5 FTEs will help with capacity issues for poultry and outbreak testing, CWD testing, and will address recent AAVLD audit findings. AAVLD is the American Association of Veterinary Laboratory Diagnosticians and provides accreditation to our laboratory. The two Medical Laboratory Technologist II positions will allow us to increase our testing capacity by 40%. The Medical Laboratory Technologist I position will perform CWD IHC testing.

Minimum education and experience for the Medical Laboratory Technologist I position: Bachelor's degree in medical technology, chemistry, or a biological science from an appropriately accredited institution; or Associate degree in medical technology from an appropriately accredited institution and two years of experience in a medical laboratory; or Completion of a Certified Laboratory Assistant course in medical technology or a comparable course and three years of experience in a medical laboratory; or an equivalent combination of education and experience.

Minimum education and experience for the Medical Laboratory Technologist II position: Bachelor's degree in medical laboratory technology, chemistry or a biological science from an appropriately accredited institution and two years of experience in a medical laboratory in the assigned area; or Associate's degree in medical technology from an appropriately accredited institution and three years of medical laboratory experience; or Completion of a certified laboratory assistant course in medical technology or a comparable course from an appropriately accredited institution and four years of medical laboratory experience; or an equivalent combination of education and experience.

### Staffing Needs – Expansion of Services 13 FTEs = \$1,516,942

Position	Summary of Duties	Justification	Salary
			Requirements
Veterinary	Clinical Pathologist	Special training in the	\$169,604
Clinical		interpretation and	
Pathologist		performance of utilizing	
		clinical pathology results	
		and tests in support of the	
		new testing section not	
		currently offered by our lab.	
		Clinical pathology testing	
		will help recruit a larger	
		client pool and better	
		support our stakeholders.	
Medical	Technologist for Clin	Technical support for the	\$100,581
Laboratory	Path	clinical pathology lab.	
Technologist I			
Medical	Technologist for Clin	Technical support for the	\$112,558
Laboratory	Path	clinical pathology lab.	
Technologist II			
Veterinarian	Client Services	Assists the receiving staff.	\$147,783
	Coordinator	Processes need oversight of	
		samples and supervision of	
		staff to assure accuracy and	
		timeliness of sample delivery	
		for testing and follow up with	
		clients. Acts as a client	
		liaison to assist in proper	
		sample collection,	
		submission, and testing	
		based on disease outbreak.	
Processing	Receiving, purchasing,	Administration needs a	\$66,480
Assistant V	accounts	dedicated backup position	
(Admin	receivable/payable	for these critical areas of	
Specialist I)		laboratory function	
Medical	Histo/IHC Processing	Processing samples and	\$100,581
Laboratory		making H&E slides for	
Technologist I		evaluation by pathologists.	
_		Currently our department	
		operates at capacity. With	
		appropriate marketing and	
		increased service, CWD	
		submissions can	
		significantly increase.	

Medical Laboratory	Technologist-PCR	Support of the poultry and swine industry with	\$112,558
Technologist II		significantly increased test	
		load.	
Medical	Technologist	Additional testing load will	\$100,581
Laboratory	_	require additional techs – in	
Technologist I		support of poultry and swine	
(Virology)		industry.	
Medical	Technologist/Sequencer	Technical support of the	\$112,558
Laboratory		sequencing technology that	
Technologist II		we don't currently offer.	
		State of the art technology	
		that the poultry and swine	
		industries rely on when viral	
		and bacterial pathogens are	
		isolated.	<b>.</b>
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Laboratory		sequencing technology that	
Technologist II		we don't currently offer.	
		State of the art technology	
		that the poultry and swine	
		industries rely on when viral	
		and bacterial pathogens are	
Veterinen	Oversight and	isolated.	¢100 004
Veterinary	Oversight and	Our last AAVLD audit	\$169,604
Specialist	management of our necropsy and	illustrated a significant need for midlevel management	
	histopathology staff and	with lab director continuing	
	case-load	to serve as pathology	
	Case-toau	services coordinator and	
		pathologist as caseload	
		requires.	
IT System	Support IT Needs	Result messaging is a	\$120,162
Analyst		requirement of NAHLN	
		testing and continues to get	
		more complicated and	
		diverse.	
Lab Manager	Oversight and	Our laboratory system	\$91,334
	management of safety	involves biohazards within 4	
	needs.	necropsy suites and multiple	
		testing (receiving, bacti,	
		virology, molecular)	
		sections.	
		Total:	\$1,516,942

These 13 positions include 3 that were lost to staff the ASC as well as other positions that would set the lab up to offer additional services to our stakeholders.

All 18 positions combined total \$2,181,847.

### Additional Information - Resources

In our current budget ask, we include a \$491,770 request for testing supplies and maintenance requirements. This makes our current budget ask just over \$1.1 million. If we add additional staffing outside of the 5, we would need to increase our request for supplies as additional testing would require additional supplies.