EMLab P&K
A TestAmerica Company

Report for:

Mr. Jeff Gurrie
Terracon Consultants, Inc. - Greenville
72 Pointe Circle
Greenville, SC 29615

Regarding: Project: 86127158-Tusk 138; CU - Brooks Auditorium Resample
EML ID: 1915376

Approved by:

Operations Manager
Joshua Cox

Dates of Analysis:
PCR screen: Avian Pathogen: 04-24-2018

Service SOPs: PCR screen: Avian Pathogen (EM-BC-S-1097, EM-BS-S-1199 & EM-BC-S1206)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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Client: Terracon Consultants, Inc. - Greenville
C/O: Mr. Jeff Gurrie
Re: 86127158-Tusk 138; CU - Brooks Auditorium Resample

Date of Sampling: 04-20-2018
Date of Receipt: 04-23-2018
Date of Report: 04-24-2018

AVIAN PATHOGEN SCREEN: PCR METHODOLOGY

Location:	HS-1A: Catwalk		HS-2A: Auditorium Bottom		HS-3A: Auditorium Upper		HS-4A: Auditorium Upper		HS-5A: Blank	
Comments (see below)	None		None		None		None		None	
Sample Type:	Polycarbonate Air Filter Cassette		Polycarbonate Air Filter Cassette		Polycarbonate Air Filter Cassette		Polycarbonate Air Filter Cassette		Polycarbonate Air Filter Cassette	
Lab ID-Version‡:	9004035-1		9004036-1		9004037-1		9004038-1		9004039-1	
Sample Size:	1.224		1.23		1.248		1.218		1	
Unit:	m3		m3		m3		m3		sample	
	CE*	CE*/Unit	CE*	CE*/Unit	CE*	CE*/Unit	CE*	CE*/Unit	CE*	CE*/Unit
Chlamydophila psittaci	ND	<82	ND	<81	ND	<80	ND	<82	ND	<100
Cryptococcus neoformans	ND	<82	ND	<81	ND	<80	ND	<82	ND	<100
Histoplasma capsulatum §	Absent		Absent		Absent		Absent		Absent	

*Cell equivalents ND = Not Detected

Comments:

Method Reference: *Chlamydophila psittaci*- Madico, G., Quinn T.C., Boman, J., and Gaydos C.A. 2000. Touchdown enzyme time release-PCR for detection and identification of *Chlamydia trachomatis, C. pneumoniae,* and *C. psittaci* using the 16S and 16S-23S spacer rRNA genes. J. Clin. Microbiol. Vol. 38. 1085-1093
Method Reference: *Cryptococcus neoformans*- Bialek, R., Weiss, M., Bekure-Nemariam, K., Najvar, L.K., Alberdi, M.B., Graybill, J.R., and U. Reischl. 2002. Detection of *Cryptococcus neoformans* DNA in tissue samples by nested and real-time PCR assays. Clin Diagn Lab Immunol. 9:461-469
Method Reference: *Histoplasma capsulatum*- Reid, T.M. and Schafer, M.P., 1999. Direct detection of *Histoplasma capsulatum* in soil suspensions by two-stage PCR. Mol Cell Probes. 13(4):269-73.

§This organism requires a two-stage PCR method of analysis. As a result, detection can only be reported as "Present" or "Absent".

‡A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".