EXHIBIT B

Packgoats and Mycoplasma ovipneumoniae Prevalence Study 2016 North American Packgoat Association Summary of Understanding

Mycoplasma ovipneumoniae, often referred to by the nickname "Movi" (or some variation of that) is the pathogen currently believed to be the most likely primary cause of outbreaks of bighorn sheep pneumonia that have threatened recovery of that species. On November 10, 2015 information was presented at The Technical Packgoat Meeting to NAPgA and the Blue Mountain Forest Plan Revision team in Pendleton, Oregon that goats had a 90% prevalence rate of *M. ovipneumoniae*. In clarifying this information Dr. Tom Besser noted in an email Dec 15, 2015 that this information was obtained from a "report of a large US survey of sheep operations tested for MOVI". Domestic goats are different than domestic sheep and most certainly packgoats are very different from domestic sheep on public lands grazing allotments.

To consider packgoats the same as sheep for purposes of analyzing the risk of disease (pathogen) transmission to bighorn sheep is in error. Packgoat owners train packgoat prospects from a young age. Packgoats are inextricably bonded to their owner, which represents the "alpha goat" in their small herd. The lifestyle and care of a packgoat in herds of 2 to 10 differs greatly from that of a typical herd of domestic sheep or goats which can range in size of hundreds to thousands. Packgoats are seen by their owners as a significant investment in time and resources for 3 or 4 years before they are viable for packing purposes. Throughout a packgoat's life, the packgoat receives routine veterinary care in order to keep the goat healthy and prolong their useful life.

Available literature at the time of this 2015 meeting quoted decades-old science in its discussion of evidence for "disease transmission" from domestic goats to BHS. There was no, and to date remains no, scientific support to implicate packgoats in BHS die-offs. Goats and sheep are different species and the scientific data from captive commingling experiments concerning pathogen (*M. ovipneumoniae* or other historically examined pathogens, such as members of the Pasteurellaceae family of bacteria) transmission to bighorn sheep and subsequent disease is vastly different. The types of *M. ovipneumoniae* carried by domestic sheep differ genetically from those carried by domestic goats (Maksimovic, Cassirer, unpublished data). Goat types or "strains" of *M. ovipneumoniae* have resulted in relatively mild (non-fatal) respiratory illness, dramatically different than the nearly 100% fatality reported from captive commingling with domestic sheep. To group sheep and goats together, and even packgoats and other types of domestic goats, in the discussion of pathogen or disease transmission falsely implicates packgoats in BHS die-off's.

In more recent research by Besser *et al.* (2016), not a single domestic goat or bighorn sheep succumbed to any sort of pneumonia before or after being infected with a "goat type" of *M. ovipneumoniae* and not a single animal died as a result of disease during the study. Domestic goats were not shown to cause deaths of bighorn sheep as a result of pathogen ("disease") transmission, even when the 3 study goats, were inoculated/infected with a "goat type" of *M. ovipneumoniae* and forced to commingle with bighorn sheep for 100 days. All animals in the study, both the domestic goats and bighorn sheep began showing symptoms of respiratory illness, and all of them recovered prior to being euthanized by the researchers. While the publication would imply that "sub-lethal pneumonia" was

induced in the bighorn sheep in this study, this is not consistent with the histopathology reports from lung tissue that was submitted to the Washington Animal Disease Diagnostic Laboratory in Pullman, WA. Those reports indicated that there were minimal to mild changes that are typically seen in small ruminants that are infected with *M. ovipneumoniae* (bronchiolar associated lymphoid tissue (BALT) hyperplasia and hyperplasia of the bronchial/bronchiolar epithelium); but no diagnosis of pneumonia was reported.

NAPgA is the leading organization in making recommendations on how to safely recreate with packgoats around BHS habitat. The complete lack of relevant research regarding *M. ovipneumoniae* prevalence in packgoats lead NAPgA to contact the USDA - Agricultural Research Unit - Animal Disease Research Unit (ARDU) in December of 2015. ADRU and APHIS (Animal and Plant Health Inspection Service) developed a packgoat *M. ovipneumoniae* surveillance research project.

In the spring of 2016 NAPgA recruited packgoat owners to participate in this research project. Consent was obtained from each packgoat owner. The majority of samples were collected by APHIS personnel and the remainder by Margaret Highland, DVM, PhD, Dipl. ACVP. Duplicate swabs were collected by both APHIS personnel and Dr. Highland. One swab was tested in the ADRU-ARS-USDA laboratory and the other was tested in the Washington Animal Disease Laboratory (except for kids <6 months of age and some of the non-packers that were also tested, which were tested only in the USDA-ARS-ADRU laboratory, as a means to save on research funds, since these animals are not used for packing).

A packgoat owner survey was completed. Information obtained was as follows:

- •Goat information: Age, Sex, Breed
- •Number of goats on premises (packers, non-packers)
- •Illness(es) within the last year, including pinkeye/respiratory disease
- •Any recent (last month) use of antibiotics
- Vaccination and antiparasitic regimen
- •Use of packgoats on public lands? Proximity to bighorn sheep?

Samples collected (spring-fall 2016)

Packgoats

- 3 sets of duplicate nasal swabs collected at 4 week minimum intervals (few premises had only 1 or 2 sample collections)
- 1 blood sample for serum
- Other goats (milkers/breeders/etc) on premises were also tested
- At a minimum, 1 or 2 nasal swabs collected, at 1 to 3 time points
- Not all premises had "non-packer" goats on premises sampled
- All samples processed within 72 hours of collection

Sample Testing

•Nasal Swab samples tested by PCR and/or qPCR; positive samples confirmed by DNA sequencing

•PCR = polymerase chain reaction = technique that amplifies a segment of the bacteria's genome to determine if it is present

• Duplicate nasal swabs from the first sample collection submitted to the Washington Animal Disease Diagnostic Laboratory (qPCR analysis)

•Serum samples are currently banked frozen

Distribution

State	#premises	#packgoats	# other goats	Total
AZ	3	16	23	39
СА	6	16	42	58
СО	8	29	12	41
ID	25	101	35	136
KS	1	13	51	64
МТ	5	21	6	27
NM	1	2	0	2
NV	2	8	0	8
OR	9	32	3	35
UT	5	34	2	36
WA	14	65	17	82
WY	4	40	3	43
Total	83	377	194	571

"Other goats" = milkers, bucks, kids under 4 months of age which would not be out packing or on long hikes

WADDL Test Results

# Goats Tested	Detected	Indeterminate *	Not Detected
485 (83premises)	18 (5 premises)	20 (9 premises, 3	474 (72 premises)
		overlapped with the	
		detected premises)	
	3.7%	4.1% (10.8%premises)	92.2%
	(6.0%premises)		(86.7%premises)

* Indeterminate indicates that either there was an extremely low number of *M. ovipneumoniae* present in the sample OR the sample is truly negative, and the low detection is a false positive

WADDL Laboratory Test Results

NAPgA believes the large number of samples tested by the AAVLD accredited state diagnostic laboratory (WADDL) provide sufficient and valid evidence as to the very low prevalence of *M. ovipneumoniae* in packgoats.

ADRU-ARS-USDA Laboratory Results

8.2%, or 47, of all goats tested (n=571) had at least 1 sample in which *M. ovipneumoniae* was detected. Twenty-six of the positive animals were \leq 4 months old, 35 were \leq 12 months, and when considering only the "packers", 3.3% overall had *M. ovipneumoniae* detected on at least 1 sample collection. 10 of the 14 premises with at least 1 positive detection were premises reported to house kids or were a premises in which the packgoat(s) were in recent contact with a positive packgoat or kids from a positive premises. These results have not yet been published in a peer-reviewed venue. Overall NAPgA will provide the complete report after peer-reviewed publication. This is a living document and will be updated as new scientific evidence-based information is available.

From: Highland, Margaret
Sent: Friday, May 05, 2017 9:59 AM
To: 'Steve Kilpatrick' <<u>skilpatrick@wyomingwildsheep.org</u>>; 'Ron Smith'
<rsagebrushsmith@aol.com>; canyonshadows@wyoming.com; johnmionne@gmail.com; packgoat@icloud.com; ctrulock@fs.fed.us; sschacht@fs.fed.us; brandonjhouck@fs.fed.us; rvandervoet@blm.gov; Lander_WYMail@blm.gov; daryl.lutz@wyo.gov; pat_hnilicka@fws.gov; sara@bighorn.org
Cc: 'Knowles, Don (dknowles@vetmed.wsu.edu)' <dknowles@vetmed.wsu.edu>

Subject: RE: Pack Goat Meeting rescheduled

Since this may not occur before a final decision is made on the Shoshone NF, I would like to share with this group the data from the large scale pack goat study that was performed in 2016. While the ocular swabs are now and finally being tested after developing and validating PCR assays for detecting the 4 most common bacterial agents of pink eye (this process was much slower than anticipated by me), the Mycoplasma ovipneumoniae results are completed. The following, in quotes, is an email that I shared with Jim Wilder on 12/16/17. Since then we have retested all of the pack goat nasal swabs a 3 time with a more sensitive standard PCR method, the update on the findings from this follow the email correspondence.

"Over the last year we (ADRU-ARS-USDA), in collaboration with APHIS, were able to complete a fairly large scale surveillance study testing nasal shedding/presence of *Mycoplasma ovipneumoniae* in pack goats. We also tested goats that were housed with or on the same premises as domestic goats that were reported by the owner to be used specifically for packing. We also collected ocular swabs from participating goats to test for the presence of the common agents of small ruminant pink eye (*Chlamydophila* sp and *Mycoplasma conjunctivae, Moraxella ovis, and Acheloplasma oculi*); the ocular swabs are still being analyzed, with hopes of completing analysis this month. Upon analysis completion of the ocular swabs, the plan is to report the results by publishing in a peer-reviewed scientific journal by the end of winter/early spring.

I would like to share with you the following results from the nasal swab samples that were collected:

Nasal swabs were collected 3 times, at 1 month minimum intervals, from participating goats (aside from the handful of animals that were sold, removed from the study as per the owners discretion, or entered into the study late so had fewer sample time points). A couple of the premises had 4 or 5 samples collected. Duplicate nasal swabs were collected at each time point. 1 swab was tested in our USDA laboratory and samples that tested negative were then submitted to an independent laboratory for confirmation of the results (WADDL in Pullman, WA was the independent laboratory).

We tested a total of 576 domestic goats from 84 premises which included the following states (# of premises in parentheses after each): AZ (3), CA (6), CO (7), ID (26), KS (1), MT (5), NM (1), NV (2), OR (9), UT (5), WA (14), WY (4), VT (1). (I believe I had reported that there were 88 premises in earlier info that I shared with Mark P.....I forgot to deduct the 4 premises scattered in 4 eastern states that we didn't get tested). Of all of the premises tested, we confirmed *M. ovipneumoniae* to be present in nasal

secretions from goats on 2 premises, limited to kids ≤ 2 weeks of age at only one test time. We collected additional swabs from 1 of these premises for 5 times total sample collections and the last 3 collection points had no detected *M. ovipneumoniae* and interestingly, all of the adult goats (9 of them) never had *M. ovipneumoniae* detected....the kids (there were 15 of them total) had 3 positives at time point 1, and 2 different kids positive at time point 2 (1st 3 positive were negative at this 2nd time point) and all goats on the premises were negative the last 3 sample collections.

As for the other premises that had a handful of positive kids: I repeat swabbed several of them 1 or 2 more times and they too were subsequently negative on the repeat samplings. This "kid phenomenon" is interesting......I'll leave it at that as to save typing time in this already lengthy email, but am happy to discuss further some time if you are interested. One additional premises that had *M. ovipneumoniae* detected 2 of the 3 sample times had a small group of yearling pack goats that were being housed at fence line with an 'open' breeding herd of registered Boer goats that were used for shows and sent out to farms for sire purposes. I instructed that owner to move his packers as soon as possible away from the large group of traveling Boer goats.....I suspect that his pack goats may clear (not shed) *M. ovipneumoniae* without the constant potential exposure, as all of his goats were negative on the 3 sample collection (I'd be happy to discuss why I suspect this may be possible with you too, if you're interested).

The other 81 premises had no confirmed *M. ovipneumoniae* present on any of the nasal swabs collected. Of interest to your local and nearby area, none of the WY, UT, CO, MT herds had confirmed *M. ovipneumoniae* detection at any of the time points. 1 of the places with "kid detected *M. ovipneumoniae*" was in ID, but these kids are the ones that have sense been negative and the adults never positive.

While nothing is ever 100% risk free in life, I think this data strongly supports that there is a very low prevalence of *M. ovipneumoniae* in goats, at least those raised and kept in closed and typically small groups (however, a few of the premises that I tested had 20+ goats though and still negative....even the premises that tested their milk goats).

I would also like to take the time here to give warning that unless researchers and/or diagnosticians are looking beyond the common published techniques for identifying *M. ovipneumoniae*, there is a chance that false positive results will occur...particularly in goats. For example, we know that the published PCR primers, referred to as "LM primers" and qPCR techniques that have been developed in the past based on these primers can (and do) result in false positive results. By "looking beyond" I mean perform standard PCR to amplify a minimum of 2 regions of the bacterial genome and sequence the products/amplicons....and making sure that the products/amplicons match well-characterized strains of *M. ovipneumoniae* (ie. strains that are characterized by reputable groups such as ATCC). Mycoplasmas are tricky, to say the least. Again, I'm happy to discuss more should you be interested.

Please feel free to let me know, either by email or phone (listed in signature line), if you have questions, comments, or concerns about the information provided herein or if you have anything that you would like to further discuss with me regarding the bighorn pneumonia phenomenon."

Update following repeated testing using a more sensitive method of detection: Five of the 83 premises tested (6%) had M. ovipneumoniae identified during the repeat nasal sample collections. Premises that had M. ovipneumoniae detected in any the goats had at least 7 goats housed on the premises. M. ovipneumoniae was confirmed to be present on the nasal swabs collected from 30 of the 576 total goats tested, meaning that 94.8% of the goats tested had no M. ovipneumoniae detected at any of the sample collection time points. Of the 30 total M. ovipneumoniae positive goats, 27 (or 90%) of the were ≤ 1 year of age, and 23 of them were ≤ 5 months of age.

During the 2016 North American Pack goat annual gathering ("the Rendy") held in Oregon, I sampled in total 27 adults and 2 kid goats whose owners brought them to the sample collection site that I set up. Most of these goats were already part of the large pack goat/domestic goat surveillance study and I asked owners if they minded me taking an extra nasal swab from their animals with the thought that perhaps the stressor of travelling or bringing a large group of goats together may result in shedding of M. ovipneumoniae from animals that it hadn't been detected on during the first round of sample collections and it also gave the opportunity to add a couple more premises to the study. M. ovipneumoniae **was not detected** on any of the swab samples collected at the Rendy.

It's unfortunate how long research takes, particularly with something as time sensitive as this seems to be, as I had truly hoped that this entire study would be out in published in a peer-reviewed form at this point (April was my goal). Hoping now for June with fingers crossed that all of the ocular swab testing goes smoothly....and more importantly accurately with good specificity and sensitivity.

Thank you and I look forward to participating in the Pack Goat meeting whenever the final date is decided upon.

Maggie

Margaret A. Highland, DVM, PhD, Dipl. ACVP Animal Disease Research Unit-ARS-USDA (VMO Researcher) Washington Animal Disease Diagnostic Laboratory (Adjunct Pathologist) School for Global Animal Health (Adjunct Faculty) Washington State University Pullman, WA 99164

Office phone: 509-335-6327 Cell phone: 608-213-3025 Fax: 509-335-8328

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Sheet for multiple	e animals.)	Virolog			riology		інс	Shipped:		
Tests Requested:	Histopathology	Serolog	у у [Мусор	olasma culture	N	PCR			
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Location of Lesic	•		goat No. in group	No		vo. Sick	L	n Premises	Duration	of Problem
N/A * Was animal e	euthanized? If so, wh	at method? N/A		L	i		l			N/A
Additional History: Please sa	Vaccinations, signs, WADDL Case Numb	ers. (Attach add	ditional sheets	as necess	sary.)			clinical lab r	esults, pre	vious
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or Owner's Sig	nature:				Sus	pected:				

Form WADDL 001.1 Version 09-15

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

Washington Animal Disea	ase Diagnostic Laboratory	ᅚ 명 으 포 N
College of Veterinary Medic	cine, Washington State University	ef V vne outiti
Mailing address:	Shipping address:	
P.O. Box 647034	Bustad Hall, Rm.155-N	
Pullman, WA. 99164-7034	Pullman, WA. 99164-7034	
Phone: (509) 335-9696	FAX: (509) 335-7424	
E-Mail: waddl@vetmed.wsi	u.edu	c Ga
Web Site: http://waddl.vetm		b - Jarg
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Owner: ADRU-ARS-USDA

Veterinarian: Maggie Highland

TEST(S) REQUESTED: Mycoplasma ovipneumoniae qPCR

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Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal	01/	
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4	<u> </u>	29	<u>6_A</u>	_ 54	7 C	79			
5	<u></u> 11_B	30	<u> </u>	55	<u>7</u> D	80		 	
6	<u>11_C</u>	31	<u>6</u> C	_ 56	98 7_E	81	. <u>.</u>		
7	011_D	32	6_D	_ 57	/ F_ 11_A	82		 _	
8	16_A	33	6_E	58	 11_B	83		 	
9	<u>16_</u> B	34	6_F	_ 59	11_C	84		 	
10	4_A	35	6_G	60	11_D	85		 	
11	4_B	36	8_A	61	v 12 A	86		 	
12	VC	_ 37	8_B	62	12_B	87		 _	
13	4_D	38	<u>8_C</u>	_ 63	12_C	88		 	
14	4_E	39	8_D	_ 64	12_D	89		 _	
15	4_F	_ 40	<u>v 9_9</u> A	_ 65	<u>12_</u> E	90		 	
16	4_G	_ 41	<u>9</u> B	_ 66	12_F	_ 91		 _	
17	V10_A	_ 42	<i>₩</i> <u>9</u> C	_ 67	12_G	92		 -	
18	10_B	_ 43	<u>~2_A</u>	68	H	_ 93		 _	
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20	V10_D	_ 45	<u>~2_C</u>	_ 70	<u>12_J</u>	95	<u></u>	 	
21	<u>5_A</u>		<u></u> 2_D	_ 71	<u>12_K</u>	_ 96		 -	
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* For over 100 samples, please copy this form and continue numbering.

P.O. Box 647034 Pullman, WA 99164-7034 Telephone : (509) 335-9696 Fax : (509) 335-7424

Dr. Margaret Highland USDA-ARS-ADRU WSU - 3003 ADBF

Case#: 2016-6030 Report Date: 05/16/16

Page 1 of 2

Pullman, WA 99164-6630

Submittal Date: 05/10/16	Species: Domestic Goat
Owner: USDA-ARS-ADRU	

Age: Sex:

Final Report:

Molecular Diagnostics- Reported on 05/16/16 Authorized by Daniel Bradway, Lab Manager

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

Animal	Specimen	Result	
_3_A	Nasal swab	Not detected	
_3_B	Nasal swab	Not detected	
_3_C	Nasal swab	Not detected	
0_11_A	Nasal swab	Not detected	
_11_B	Nasal swab	Not detected	
_11_C	Nasal swab	Not detected	
-11_D	Nasal swab	Not detected	
_16_A	Nasal swab	Not detected	
_16_B	Nasal swab	Not detected	
A_4_A	Nasal swab	Detected	
A_4_B	Nasal swab	Detected	
A_4_C	Nasal swab	Detected	
∆_4_D ·	Nasal swab	Detected	
4_ E	Nasal swab	Detected	
_4_F	Nasal swab	Detected	
_4_G	Nasal swab	Detected	
10_A	Nasal swab	Indeterminate	
10_B	Nasal swab	Not detected	
L_10_C	Nasal swab	Not detected	
/10_D	Nasal swab	Not detected	
/ A_5_A	Nasal swab	Not detected	
/ 5_ B	Nasal swab	Not detected	
1_5_C	Nasal swab	Not detected	
_5_D	Nasal swab	Not detected	
_5_E	🕺 Nasal swab	Not detected	
_5_F	Nasal swab	Not detected	
⊾5 _G	🕴 Nasal swab	Not detected	
_5_H	Nasal swab	Not detected	

Washington Animal Disease Diagnostic Lab Case#: 2016-6030

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PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

	-	nae SOP: 501.40K1.2016.03.17
Animal	Specimen	Result
V6_A	Nasal swab	Not detected
V6_B	Nasal swab	Not detected
16_C	Nasal swab	Not detected
1_6_D	Nasal swab	Not detected
<u>_6_Е</u>	Nasal swab	Not detected
.6_F	Nasal swab	Not detected
.6_G	Nasal swab	Not detected
.8_A	Nasal swab	Not detected
.8_B	Nasal swab	Not detected
V8_C	Nasal swab	Not detected
V_8_D	Nasal swab	Not detected
V_9_A	Nasal swab	Not detected
<u>_9_В</u>	Nasal swab	Not detected
_9_C	Nasal swab	Not detected
A	Nasal swab	Not detected
_2_B	Nasal swab	Not detected
×2_C	Nasal swab	Not detected
2_D	Nasal swab	Not detected
1.2_E	Nasal swab	Not detected
73_A	Nasal swab	Not detected
73_B	Nasal swab	Not detected
73_C	Nasal swab	Not detected
L3_D	Nasal swab	Not detected
_3_D	Nasal swab	Not detected
_7_B		
	Nasal swab	Not detected
_7_C	Nasal swab	Not detected
_7_D	Nasal swab	Not detected
_7_E	Nasal swab	Not detected
_11_A	Nasal swab	Not detected
11_B	Nasal swab	Not detected
11_C	Nasal swab	Not detected
11_11_D	Nasal swab	Not detected
12_12_A	Nasal swab	Not detected
/12_B	Nasal swab	Not detected
/12_C	Nasal swab	Not detected
/_12_D	Nasal swab	Not detected
_12_E	Nasal swab	Not detected
_12_F	Nasal swab	Not detected
1_12_G	Nasal swab	Not detected
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_12_K	Nasal swab	Not detected
12_L	Nasal swab	Not detected
	140501 57700	

PCR-Mycoplasma ovipneumoniae test comment: This assay detects only Mycoplasma ovipneumoniae. Culture is available at WADDL to detect other species of Mycoplasma if desired. Fees for culture are available on our website. Please contact the lab if Mycoplasma culture or other testing is desired.

Washington Animal Disease Diagnostic Lab Case#: 2016-6030

Page 2 of 2 This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal	Disease Diagnostic Lab		Case Tracking	HALF SHEET
Quantity/Description	on/Routing of Samples			
	72 na.	sel Swak		2016 - Ref Vet: Owner: Breed: Routed:
)		~ 6030 Highland, Margaret USDA – ARS – ADRI Domestic Goat ,md
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Form WADDL 070, Version 05-14

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Street address: ADBF-WSU Malting Address or PO Box: City: Pullman State: WA Zip: 99164 Phone: 509-335-6327 Fax: 509-335-8328 E-mail: mah@vetmed.wsu.edu Commer: Guardian Name: First Time Submitter? Yes No Fam Name: First Time Submitter? Yes No Street address: Malling Address Orner: Image: Zip: Image: Zip: Image: Zip: City: State: Zip: Zip: Image: Zip:<	PO Box Pullman, WA	647034 . 99164-7034	000	PS, FedEx or Bustad	Courier sl 1 Hall, Rm	hipping addres: .155-N	s: Ph F	AX: (509) 338	5 7424	Breed: D Routed:	2016 - Ref Vet
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Animal ID (name/tagit) Species Breed Age Age Animal Weight see multiple animal form No. in group No. Dead No. Sick No. on Premises Duration of Problem NA No. in group No. In group No. Dead No. Sick No. on Premises Duration of Problem **Was animal euthanized? If so, what method? NA Additional Vaccinations, signs, stress factors, treatments, post mortem findings, pertinent feed or feed additives, clinical lab results, previous **Was animal euthanized? WADDL Case Numbers. (Attach additional sheets as necessary.) Na Nasal swabs for M. ovipneumoniae qPCR Please save any remaining DNA isolations and call Maggie for pick up. Bill to ADRU-ARS-USDA acct #RSA 2540-1080 Section of animals, date of sample collection, and signature of an accredited veterinarian attesting to the following statement: "I certify that the specimens submitted with this form were collected by me from the animal(s) described on the date indicated." Veterinarian's, Clinician's : DA COX 0 DA COX 0	Tests Necrop Requested: Histop Toxico	athology logy	Serology	Culture	 Mycop Parasi	lasma culture tology	specimens to o] PCR] Other:		sting not dor	ne at WADDL.
Location of Lesion No. in group No. Dead No. Sick No. on Premises Duration of Problem WAs animal euthanized? If so, what method? NA Additional Vaccinations, signs, stress factors, treatments, post mortem findings, pertinent feed or feed additives, clinical lab results, previous Additional Vaccinations, signs, stress factors, treatments, post mortem findings, pertinent feed or feed additives, clinical lab results, previous History: WADDL Case Numbers. (Attach additional sheets as necessary.) Nasal swabs for M. ovipneumoniae qPCR Please save any remaining DNA isolations and call Maggie for pick up. Bill to ADRU-ARS-USDA acct #RSA 2540-1080 Bill to ADRU-ARS-USDA acct #RSA 2540-1080 WADDL is an official brucellosis testing laboratory. All serology for brucellosis, including abortion screens, requires identification of animals, date of sample collection, and signature of an accredited veterinarian attesting to the following statement: "I certify that the specimenes submitted with this form were collected by me from the animal(s) described on the date indicated." Veterinarian's, Clinician's, if the specimenes submitted with this form were collected by me from the animal(s) described on the date indicated."	Animal ID (name/tag#)		Species		Bre	ed		Age	Sex		
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Additional History: Vaccinations, signs, stress factors, treatments, post mortem findings, pertinent feed or feed additives, clinical lab results, previous WADDL Case Numbers. (Attach additional sheets as necessary.) Nasal swabs for M. ovipneumoniae qPCR Please save any remaining DNA isolations and call Maggie for pick up. Bill to ADRU-ARS-USDA acct #RSA 2540-1080 WADDL is an official brucellosis testing laboratory. All serology for brucellosis, including abortion screens, requires identification of animals, date of sample collection, and signature of an accredited veterinarian attesting to the following statement: "I certify that the specimens submitted with this form were collected by me from the animal(s) described on the date indicated." Veterinarian's, Clinician's \Delta Core (1 + D) A	N/A			No. In group		Dead	INO. SICK	10. 0	n Premises		
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	Veterinarian's, Clinician's	MARC	outs	M		00	ondition(s)		. / 1 /	HILAN	nimals

Form WADDL 001.1 Version 09-15

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

Washington Animal Disease Diagnostic LaboratoryCollege of Veterinary Medicine, Washington State UniversityMailing address:Shipping address:P.O. Box 647034Bustad Hall, Rm.155-NPullman, WA. 99164-7034Pullman, WA. 99164-7034Phone: (509) 335-9696FAX: (509) 335-7424E-Mail: waddl@vetmed.wsu.eduWeb Site: http://waddl.vetmed.wsu.eduOwner: ADRU-ARS-USDA

Veterinarian: Maggie Highland

TEST(S) REQUESTED: M. ovipneumoniae qPCR

Tube	Animal # or Name	Tube A	nimal # or Name	Tube	Animal # or Name	Tube	Animab# or Name
1	_1_A	26	4_4_N	51	;_5_S	76	_14_C
2	1_B	27	_4_0	_ 52	<u>5_</u> T	77	17A
3	_1_C	28	4_P	53	_5_U	78	_17_B
4	_1_D	_ 29 _	_4_Q	_ 54		79	17_C
5	_1_E	30	_4_R	55	I5W	80	17_D
6	_1_F	31	_4_S	_ 56	5_X	81	17_E
7	1_G	32	_4_T	_ 57	Y	82	17_F
8	7_A	_ 33 _	_5_A	_ 58	1_5_Z	83	17G
9	7_B	34	_5_B	59	8_A	84	17_H
10	_7_C	35	_5_C	60	8_B	85	17_1
11	D	36	_5_D	61	_8_C	86	A
12)_7_E	37	_5_E	62	9_A	87	22_B
13	_4_A	38	_5_F	_ 63	_9_B	88	22_C
14	4_B	39	_5_G	64	_9_C	89	23_A
15	_4_C	40	_5_H	65	9_D	90	23_B
16	4_D	_ 41 _	_5_1	66	9_E	91	23_C
17	E	_ 42 _	_5_J	67	19 <u>_</u> A	92	23_D
18	_4_F	43	_5_K	68	19_B	93	23_E
19	4_G	_ 44 _	_5_L	69	10_A	_ 94	F
20	Ì4_H	_ 45 _	_5_M	70	10_B	95	G
21		46	_5_N	71	6_A	96	2_A
22	4_J	_ 47 _	_5_0	_ 72	<u> </u>	97	B
23	4_K	48	5_P	_ 73	6_C	98	12_A
24	4_L	49	:_5_Q	74	14_A	99	12_B
25	4_M	_ 50 _	_5_R	75	<u>14_B</u>	100 *	12_C

* For over 100 samples, please copy this form and continue numbering.

Form WADDL 014, Version 08-07

Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU Breed: Domestic Goat Routing: ,md

2016

-6160

05/12/16

	IDEN				R MULTIPLE A	NIMAL	S	7807
·	Washington Animal College of Veterinary Mailing address: P.O. Box 647034 Pullman, WA. 99164-70 Phone: (509) 335-9696 E-Mail: waddl@vetm Web Site: http://wadd	Diseas Medicir 034 ed.wsu.	e Diagnostic Labora ne, Washington State Shipping address: Bustad Hall, Rm.15 Pullman, WA. 99164 FAX: (509) 335-742 edu	a tory Univers 5-N 1-7034	sion form, if needed) sity			2016 – 6160 Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU Breed: Domestic Goat Routing: ,md
	Owner		J-ARS-USDA			<u></u>	į	
	Veterinarian	. Magg	ie Highland					
TE	EST(S) REQUESTED	<u>M. ov</u>	ipneumoniae qPC	CR	•			05/12/16
Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name	Tube	Anim	91/
1	_12_D	26		51		76	•	
2	20_A	- 27	· · · · · · · · · · · · · · · · · · ·	- 52		- 77		ل
3	20_B	- 28		- 53				
4	- V	29		- 54		79		
5				55		80		
6		31		56		81		
7		32		57		82		
8		33		58		83		
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10		35		60		85		
11		36		_ 61		86		
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18		43	<u></u>	68	<u></u>	93 _		
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20	<u></u>	45		70		95		
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23		48		73	,	98		
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25		50		_ 75		_ 100 * _		

* For over 100 samples, please copy this form and continue numbering Form WADDL 014, Version 08-07

P.O. Box 647034 Pullman, WA 99164-7034 Telephone : (509) 335-9696 Fax : (509) 335-7424

Dr. Margaret Highland USDA-ARS-ADRU WSU - 3003 ADBF

Case#: 2016-6160 Report Date: 05/16/16

Pullman, WA 99164-6630

Submittal Date: 05/12/16 Owner: USDA-ARS-ADRU Species: Domestic Goat

Age: Sex:

Final Report:

Molecular Diagnostics- Reported on 05/16/16 Authorized by Daniel Bradway, Lab Manager

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

Animal	Specimen	Result
_1_A	Nasal swab	Not detected
_1_B	Nasal swab	Not detected
_1_C	Nasal swab	Not detected
1_D	Nasal swab	Not detected
1_E	Nasal swab	Not detected
1_F	Nasal swab	Not detected
1_1_G	Nasal swab	Not detected
_7_A	Nasal swab	Not detected
_7_B	Nasal swab	Not detected
_7_C	Nasal swab	Not detected
_7_D	Nasal swab	Not detected
_7_E	Nasal swab	Not detected
_4_A	Nasal swab	Not detected
_4_B	Nasal swab	Not detected
_4_C	Nasal swab	Not detected
4 D	Nasal swab	Not detected
_4_E	Nasal swab	Not detected
_4_F	Nasal swab	Not detected
P_4_ G	Nasal swab	Not detected
D_4_H	Nasal swab	Not detected
_4_I	Nasal swab	Detected
4_4_J	Nasal swab	Indeterminate
1_4_K	Nasal swab	Not detected
-4_L	Nasal swab	Not detected
_4_M	Nasal swab	Not detected
_4_N	Nasal swab	Not detected
_4_0	Nasal swab	Indeterminate
0_4_P	Nasal swab	Indeterminate

Washington Animal Disease Diagnostic Lab Case#: 2016-6160

This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

	Plasma ovipneumo			
Animal	Specimen Negel sweb	Result		
_4_Q	Nasal swab	Indeterminate Not detected		
_4_R	Nasal swab	Not detected		
-4_S	Nasal swab	Detected		
.4_T	Nasal swab	Detected		
.5_A	Nasal swab	Not detected		
.5_B	Nasal swab	Not detected		
5_C	Nasal swab	Not detected		
5_D	Nasal swab	Not detected		
	Nasal swab	Not detected		
15_F	Nasal swab	Not detected		
_5_G	Nasal swab	Not detected		
_5_H	Nasal swab	Not detected		
5_I	Nasal swab	Not detected		
_5_J	Nasal swab	Not detected		
_5_K	Nasal swab	Not detected		
_5_L	Nasal swab	Not detected		
_5_M	Nasal swab	Not detected		
_5_N	Nasal swab	Not detected		
_5_O	Nasal swab	Not detected		
-5_P	Nasal swab	Not detected		
_5_Q	Nasal swab	Not detected		
0_5_R	Nasal swab	Not detected		
≥_5_S	Nasal swab	Not detected		
D_5_T	Nasal swab	Not detected		
D_5_ U	Nasal swab	Not detected		
0_5_V	Nasal swab	Not detected		
P_5_W	Nasal swab	Not detected		
_5_X	Nasal swab	Not detected		
_5_Y	Nasal swab	Not detected		
_5_Z	Nasal swab	Not detected		
-8_A	Nasal swab	Not detected		
_8_B	Nasal swab	Not detected		
-8_C	Nasal swab	Not detected		
9_9_A	Nasal swab	Not detected		
_9_B	Nasal swab	Not detected		
_9_C	Nasal swab	Not detected		
1_9_D	Nasal swab	Not detected		
.9.E	Nasal swab	Not detected		
19_A	Nasal swab	Not detected		
19_B	Nasal swab	Not detected		
10_A	Nasal swab	Not detected		
10_B	Nasal swab	Not detected		
.6_A	Nasal swab	Not detected		
.6_B	Nasal swab	Not detected		
_6_C	Nasal swab	Not detected		
_14_A	Nasal swab	Not detected		
.14_B	Nasal swab	Not detected		
- 14_C	Nasal swab	Not detected		
.17_A	Nasal swab	Not detected		
17_B	Nasal swab	Not detected		
_17_C	Nasal swab	Not detected		
	Nasal swab	Not detected		

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Washington Animal Disease Diagnostic Lab Case#: 2016-6160

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Page 2 of 3

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

Animal	Specimen	Result
1_17_E	Nasal swab	Not detected
17_F	Nasal swab	Not detected
_17_G	Nasal swab	Not detected
_17_H	Nasal swab	Not detected
17_17_I	Nasal swab	Not detected
A	Nasal swab	Not detected
22_B	Nasal swab	Not detected
22_C	Nasal swab	Not detected
23_A	Nasal swab	Not detected
23_B	Nasal swab	Not detected
23_C	Nasal swab	Not detected
_23_D	Nasal swab	Not detected
_23_E	Nasal swab	Not detected
_23_F	Nasal swab	Not detected
_23_G	Nasal swab	Not detected
_2_A	Nasal swab	Not detected
_2_B	Nasal swab	Not detected
12_12_A	Nasal swab	Not detected
1_12_B	Nasal swab	Not detected
_12_C	Nasal swab	Not detected
_12_D	Nasal swab	Not detected
_20_A	Nasal swab	Not detected
B	Nasal swab	Not detected

PCR-Mycoplasma ovipneumoniae test comment: This assay detects only Mycoplasma ovipneumoniae. Culture is available at WADDL to detect other species of Mycoplasma if desired. Fees for culture are available on our website. Please contact the lab if Mycoplasma culture or other testing is desired.

Washington Animal Disease Diagnostic Lab Case#: 2016-6160

Page 3 of 3

This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal Disease Diagnostic Lab Quantity/Description/Routing of Samples

Quantity/Description/Routing of Samples	1, 1,
- Dropped off by Mittightand	2016 6160 Ref Vet: Highland, Margaret Owner: USDA ARS ADRU Breed: Domestic Goat Routed: ,md
Sample Condition: Room Temp. On ice Frozen Fixed Contents match forms: Opened by:	
Samples Received Via: US Mail FedEx Drop off Yes No UPS FedEx-R Other: Explain below; WM	
Comments for Case Tracking:	05/12/16
	Sample Label 🗸
ý.	with

Form WADDL 070, Version 05-14

	RM FOR GENERAL			. .	
	al Disease Diagno y Medicine, Washingto tp://waddl.vetmed.ws	on State University	У	· · · · · · · · · · · · · · · · · · ·	
PO Box 64/034 Bus Pullman, WA. 99164-7034 Pullm	or Courier shipping addr tad Hall, Rm.155-N an, WA. 99164-7034	FAX: (5	509) 335-9696 09) 335 7424 I@vetmed.wsu.edu	2016 — 7117 Ref Vet: Highland, Margare Owner: USDA – ARS – ADRU Breed: Domestic Goat Routed: ,md	
Please type or use black ink and print clearly. Veterinarian or Last Case Coordinator: Name: Highland	Firs	st me: Maggie		- 71 Hight JSDA- JSDA- Jomes	
Clinic: ADRU-ARS-USDA	144		· · · · · · · · · · · · · · · · · · ·	and, P ARS Lic Go	
Street address: ADBF 3033	Mailing Address or PO Box:			Nargare - ADRU at	
City: Pullman	State: W/	A Zip:	99163		
Phone: 5-6327 Fax: 5-8328	_{E-mail:} mah@)vetmed.wsu.e	edu		
Owner: Last Name first: same as above	Guardian Name (if owner is under 18				
Farm Name:		e Submitter?	res 🗌 No		
Street address:	Mailing Address or PO Box:			06/02/1(1000/02/1	
City:	State:	Zip:		— – – –	
Phone: Fax:	E-mail:				
Reporting Preference: Mail Fax Please fill out completely as possible: Fill out completely as possible: Fill out completely as possible:	(preapproval require	d) Please note: WADDL 5 - register on web sit	te at http://waddl.vet		
Specimen(s) Submitted:	al swab	C	Date Collected:	May 2016	
(Please use WADDL Animal ID IICS) Sheet for multiple animals.)			Date Shipped:		
Tests Necropsy Virology Requested: Histopathology Serology Toxicology Fungal Culture	Bacteriology Mycoplasma cultur Parasitology	re IHC DOTH	R Myconlasma o	vipneumoniae qPCR	
Toxicology Fungal Culture Note: WADDL reserves the right to modify the lests requested for more efficient Animal ID (name/tag#) Species				sting not done at WADDL. Animal Weight	
see multiple animal form domestic goat Location of Lesion No. in group		- a	Idult -	- Duration of Problem	
N/A N/A N/A N/A N/A	1	N/A	N/A	N/A	
Additional Vaccinations, signs, stress factors, treatments, po History: WADDL Case Numbers. (Attach additional sheet		inent feed or feed ad	ditives, clinical lab r	esults, previous	
M. ovipneumoniae qPCR Please save remaining DNA isolations and	call Maggie for p	bick up.			
Bill to ADRU-ARS-USDA acct #RSA 2540-	1080				
WADDL is an official brucellosis testing laboratory. All serology sample collection, and signature of an	accredited veterinarian	attesting to the follow	ving statement:		
"I certify that the specimens submitted with this form Veterinarian's, Clinician's	were collected by me	from the animal(s) of Condition(s)	escribed on the da	ate indicated."	
or Owner's Signature:		Suspected:			

	IDEN		TION SHEET FOR MULTIP ccompany WADDL Accession form, if ne		2016 – Ref Vet: H Owner: US Breed: Do Bouting: J	
		Medicine, 34 ed.wsu.edu			2016 – 7117 Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU Breed: Domestic Goat Routing: ,md	
	Owner:	ADRU-A	ARS-USDA		1	
	Veterinarian:	Highlan	d		06/(
TE	EST(S) REQUESTED:	M. ovipr	neumoniae qPCR		06/02/16	
			· · · · · · · · · · · · · · · · · · ·	·		
	<u> </u>		imal # or Name Tube Animal # or		e	
1	13_A	26	51	76		
2	<u>13_B</u>	27	52	77 _		
3	13_C	28	53 54	78 _		
4	<u>13_D</u> 15_A	29 30	54	79 _ 80	Nin inn a sta t	
5	<u>15_</u> B	30	55	80 <u>_</u> 81		
6 7	<u>15_C</u>	32	56	81 _ 82	<u> </u>	
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14	• • • • • • • • • • • • • • • • • • •	39	64	89	terre and the second	
15		40	65	90		
16		41	66	91		
17		42	67			
18		43	68	93		
19		44		94		
20		45	70	95		
21		46	71	96		
22		47	72			
23		48	73	98		
24		49	74	99 _	annan gun a fair a faire a fair	
25	<u> </u>	50		100 *		

* For over 100 samples, please copy this form and continue numbering.

Form WADDL 014, Version 08-07

1

P.O. Box 647034 Pullman, WA 99164-7034 Telephone : (509) 335-9696 Fax: (509) 335-7424

Dr. Margaret Highland USDA-ARS-ADRU WSU - 3003 ADBF

Case#: 2016-7117 **Report Date: 06/07/16**

Pullman, WA 99164-6630

. 16

Submittal Date: 06/02/16 Owner: USDA-ARS-ADRU Species: Domestic Goat

Age: Adult Sex:

Final Report:

Molecular Diagnostics- Reported on 06/07/16 Authorized by Daniel Bradway, Lab Manager

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

Animal	Specimen	Result	
_13_A	Nasal swab	Not detected	
_13_B	Nasal swab	Not detected	
_13_C	Nasal swab	Not detected	
_13_D	Nasal swab	Not detected	
_15_A	Nasal swab	Not detected	
_15_B	Nasal swab	Not detected	
_15_C	Nasal swab	Not detected	
_15_D	Nasal swab	Not detected	

PCR-Mycoplasma ovipneumoniae test comment: This assay detects only Mycoplasma ovipneumoniae. Culture is available at WADDL to detect other species of Mycoplasma if desired. Fees for culture are available on our website. Please contact the lab if Mycoplasma culture or other testing is desired.

Washington Animal Disease Diagnostic Lab Case#: 2016-7117

Page 1 of 1 This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal Disease Diagnostic Lab

Case Tracking HALF SHEET

Quantity/Description/Routing of Samples	2016 Ref Vel Owner: Breed: Routed
& Musul Swobs - dropped off by MAH	2016 – 7117 Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU Breed: Domestic Goat Routed: ,md
Sample Condition: Opened by: Room Temp. On ice Frozen Fixed Contents match forms: Opened by:	
Samples Received Via: US Mail FedEx FedEx FedEx Image: No point of the second	
Comments for Case Tracking:	06/02/16
	Sample Label 🗸

Form WADDL 070, Version 05-14

	ACCESSION FORM ashington Animal I College of Veterinary M Web Site: http:/	Disease Diagnos	tic Laboratory State University		
US Postal Service mailing addres PO Box 647034 Pullman, WA. 99164-7034	UPS, FedEx or C Bustad	Courier shipping addres Hall, Rm.155-N	Dhanay (500	, 335 7424	ZU 10 - Ref Vet: Owner: Breed: Routed:
Please type or use black ink and print clearly.	Pullman,	WA. 99164-7034	E-Mail: waddi@v	eunea.wsu.eau	필집 말 <u>`</u>
Veterinarian or Last Case Coordinator: Name: Highlar	nd -	First	Maggie		7913 Highlan Domesti md
Clinic: ADRU-ARS-USDA		, , , , , , , , , , , , , , , , , , ,			/913 Highland, Mar Domestic Goal md
		Mailing Address			/913 Highland, Margaret Domestic Goat md
Street address: ADBF 3033		or PO Box:			ġ
City: Pullmar	<u> </u>	State: WA		99164	
Phone: 509-335-6327 Fa	ax: 509-335-8328	_{E-mail:} mah@v	etmed.wsu.edu	J	
Owner: Last Name first: same as above		Guardian Name: (if owner is under 18)	<u> </u>		
Farm Name:	······		Submitter?	No	
Street address:		Mailing Address or PO Box:	5,	F	06/20/1
City:	· · · · · · · · · · · · · · · · · · ·	State:	Zip:		6
Phone: Fax:	; ;	E-mail:			т 2
Billing: Owner 🗸 Clir	ic 3rd Party (pi	reapproval required)	Please note: WADDL poli	cy is to bill the clinic i	f provided, unless prepa
Land Land	Mail Fax	Web access -	register on web site a	t http://waddi.vet	med.wsu.edu
Please fill out completely as possible: Specimen(s) Submitted:				Date	June 2016
(Please use WADDL Animal ID Sheet for multiple animals.)	nasa	l swabs	6	Collected: Date Shipped:	Julie 2010
Necropsy	Virology	Bacteriology	П ІНС	Joinpped.	
Tests Requested: Histopathology	Serology] Mycoplasma culture] Parasitology	✓ PCR Other:		
Toxicology Note: WADDL reserves the right to modify the tests	Fungal Culture	se work-up and / or to send			
Animal ID (name/tag#) see multiple animal form	Species domestic goats	Breed multip	ole Age multip	Sex	Animal Weight
Location of Lesion	No. in group	No. Dead	No. Sick	lo. on Premises	Duration of Problem
N/A * Was animal euthanized? If so, what me	thod?	N/A	N/A		N/A
Additional Vaccinations, signs, stress History: WADDL Case Numbers. (ent feed or feed additiv	/es, clinical lab re	esults, previous
M.ovipneumoniae qPCR on	each sample.				
Please save remaining DNA	isolation and call				rtesting
(sequencing) be performed	by WADDL, depei	nding on the res	sults of qPCR a	nalyses.	
Bill to ADRU-ARS-USDA ac	ct #RSA 2540-10	80			
WADDL is an official brucellosis testing	laboratory. All serology for on, and signature of an ac				of animals, date of
"I certify that the specimens sub		re collected by me fro	om the animal(s) des		te indicated."
Veterinarian's, Clinician's	zie HShlaz		ondition(s) N	1A (surv	ellance

.

Form WADDL 001.1 Version 09-15

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

Washington Animal Disease Diagnostic Laboratory

College of Veterinary Medicine, Washington State University Mailing address: P.O. Box 647034 Pullman, WA. 99164-7034 Phone: (509) 335-9696 E-Mail: waddl@vetmed.wsu.edu Web Site: http://waddl.vetmed.wsu.edu

Shipping address: 2016-7913 Bustad Hall, Rm.155-N Pullman, WA, 99164-7034 Ref Vet: Highland, Margaret FAX: (509) 335-7424 **Owner:** Breed: **Domestic Goat** Routing: md

06/20/16

Owner:_ADRU-ARS-USDA

Veterinarian: Highland

TEST(S) REQUESTED: _____

Tube	Anim	al # or Name	Tube	Anim	al # or Name	Tube	Animal # or Name	Tube	Anima	# or Name
1	6	24_A	26	ç	5_1_S	51		76		_5_B
2	e	24_B	27	£	5_1_T	52		_ 77	(_5_C
3	ť	24_C	28	o	<u>1_U</u>	53	46 <u>1_</u> 00	_ 78	<u> </u>	_5_D
4	•	_3_A	29	8	1_V	_ 54		79	¥5	_ <u>5_</u> E
5	ç	_3_B	30	c	_1_W	_ 55		80	6	<u>5</u> F
6	0	_3_C	31	•	_1_X	_ 56		81	*	_5_G
7	ť	_3_D	32	0	_1_Y	_ 57		82	6	_5_H
8	¢	_1_A	33	<u>د</u>	<u>1_Aa</u>	_ 58		_ 83	<u>.</u>	2 <u>5</u> 1
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10	ç	_1_C	35	<u>e</u>	_1_Cc	_ 60		_ 85	<u>.</u>	_5_K
11	8	_1_D	36	\$	_1_Dd	61		86	۴.	<u> 5_L</u>
12	2	_1_E	37	3	_1_Ee	62		_ 87	6	_5_M
13	6	_1_F	38	¢	_1_Ff	_ 63		. 88	£	_5_N
14	C	_1_G	39	e	_1_Gg	_ 64		_ 89	<i>t</i>	_5_0
15	<u> </u>	_1_H	40	•	<u>1_Hh</u>	65		90	<u> </u>	_5_P
16	ş	<u>5_1_I</u>	41	2	_1_li	_ 66		91	<u> </u>	_4_A
17	č	5_1_J	42	*	_1_Jj	_ 67		92	د 	_4_B
18	<u>ن</u>	1_1_K	_ 43	¢	_1_Kk	68		93	<u> </u>	_2_A
19	<u>e</u>	1_1_L	_ 44	<u>.</u>	_1_U	_ 69		94	<u>.</u> (_2_B
20	<u>.</u>	15_1_M	45	*	<u>1_</u> Mm	70		_ 95	<u> </u>	_2_C
21	P	<u>1. 1 N</u>	_ 46	6	_1_Nn	71		96		<u>_2_D</u>
22	<u>.</u>	1_1_0	47	6	_1_00	_ 72	• _4_A	97	د ــــــــــــــــــــــــــــــــــــ	(_2_E
23	¢,	_1_P	48			_ 73	<u>-</u> <u>4_B</u>	- 98	3	_2_F
24	6	_1_Q	49			_ 74	• _4_C	99		_2_G
25	0	_1_R	50			75	<u>• 5_A</u>	_ 100 *	-	_2_H

* For over 100 samples, please copy this form and continue numbering.

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

Washington Animal Disea	• •	۲ .		
••••	ine, Washington State Univers	ny		
Mailing address:	Shipping address:			
P.O. Box 647034	Bustad Hall, Rm.155-N			
Pullman, WA. 99164-7034	Pullman, WA. 99164-7034	2016 -	- 7913	06/20/16
Phone: (509) 335-9696	FAX: (509) 335-7424	Ref Vet:	Highland, Margaret	
E-Mail: waddl@vetmed.wsu	.edu	Owner:		
Web Site: http://waddl.vetmo		Breed:	Domestic Goat	
		Routing:	md	
	U-ARS-USDA			
Owner				

Veterinarian: HIGHLAND

TEST(S) REQUESTED: _____

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	al # or Name	Tube	Animal # or Name	Tube	nal # or Name	Anin	Tube	al # or Name	Anima	Tube
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		78	• <u>13</u> A	53	2_C		_ 28	_5_C	٥	3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		79	13_B	54	2_D	<u> </u>	29	_5_D	•	4
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		81	13_D	56	R_3_B	•	31	_5_F	5	6
9 \cdot $[5] (2)$ 34 \circ $4A$ 59 $0 - b - H$ 84 10 \cdot $5 - J$ 35 $4B$ 60 $ A$ 85 11 i $5 - K$ 36 $- 4 - C$ 61 $ A$ 85 11 i $5 - K$ 36 $- 4 - C$ 61 $ A$ 85 12 \cdot $5 - K$ 36 $ C$ 87 13 $ C$ 87 13 $ C$ 87 13 $ C$ 87 13 $ C$ 87 14 \cdot $5 - N$ 39 $- 21 - A$ 64 $ B$ 88 14 \cdot $5 - N$ 39 $- 21 - A$ 64 $ B$ 89 15 \cdot $5 - O$ 40 $- 5 - A$ 65 $ F$ 90 16 $ F$ 90 16 $ F$ 90 16 $$		82	13_E	57	3_C	:	_ 32	_5_G	<u> </u>	7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		83	•13_F	58	<u>3_</u> D	c	_ 33		٤	8
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		85		60	_4_B	<u> </u>	_ 35	<u>[5]</u>	6	10
13 \leq \leq \leq \leq \leq \leq \leq \leq \leq $=$		86		61	_4_C	e 	36	<u>5_K</u>		11
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15 \cdot 5_0 40 \cdot 5_A 65 $-\partial - F$ 90 16 2 5_P 41 \cdot 5_B 66 $\partial - G$ 91 17 \circ 4_A 42 5_C 67 $-\partial - H$ 92 18 \cdot 4_B 43 \cdot 5_D 68 $-\partial - I$ 93 19 \cdot 1_A 44 \cdot 5_E 69 $-\partial - H$ 94 20 \cdot 1_B 45 \circ 6_A 70 $-\partial_C$ 95 21 \cdot 1_C 46 \circ 6_B 71 $-\partial_C$ 96		88	- 2-D	63	_1_B	٤	38	_5_M	3	13
16 \checkmark 5_P 41 \checkmark 5_B 66 $\square \square $		89	J-J-E	_ 64	21_A		39	<u>5_</u> N	•	14
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		90	1- 2-F	65	_5_A	<u> </u>	40	_5_0	٤	15
18 <t< td=""><td></td><th>91</th><td>2- 2- G</td><th>66</th><td><u>5</u>B</td><td>6</td><td>41</td><td>J_5_P</td><td>٤.</td><td>16</td></t<>		91	2- 2- G	66	<u>5</u> B	6	41	J_5_P	٤.	16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		92		67	5_C	•	_ 42	V_4_A	<u> </u>	17
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		93	N-9-I	_ 68	5_D	<u>د</u>	_ 43	4_B	·	18
21 \rightarrow V 1_C 46 \sim C 6_B 71 \rightarrow 2-C 96		94		69	_5_E	6	_ 44	V1_A	<u>د ا</u>	19
		95		70	_6_A	3	45	↓1_B	<u>د ا</u>	20
$22 \cdot \sqrt{1}$ 1 D $47 \cdot \sqrt{6}$ 6 C $72 \sqrt{4}$ $2 \cdot \sqrt{5}$ 07		96	1-2-C	71	6_B	<u>ь</u>	_ 46	V_1_C	<u> </u>	21
		97	14-2-D.	72	<u>6_</u> C	t	_ 47	<u>1_</u> D	<u>ب</u>	22
23 <u>· 1_E</u> 48 <u>· 1_6_D</u> 73 <u>· 7_A</u> 98		98	1-7-A	_ 73	6_D	c	_ 48	<u>1_</u> E	÷	23
24 <u>. 7_A</u> 49 <u>. PL6_E</u> 74 <u>. 7-B</u> 99		99	<u>9-7-8</u>	74	.0K_6_E	6	_ 49	_7_A	c	24
25 <u>· F_7_B</u> 50 <u>· F_6_F</u> 75 100 *		100 * _	·····	_ 75	<u> </u>		_ 50	_7_B	٤	25

* For over 100 samples, please copy this form and continue numbering.

Form WADDL 014, Version 08-07

P.O. Box 647034 Pullman, WA 99164-7034 Telephone : (509) 335-9696 Fax : (509) 335-7424

Dr. Margaret Highland USDA-ARS-ADRU WSU - 3003 ADBF

Case#: 2016-7913 Report Date: 07/01/16

Pullman, WA 99164-6630

Submittal Date: 06/20/16 Owner: Species: Domestic Goat

Age: Sex:

Final Report:

Molecular Diagnostics- Reported on 07/01/16 Authorized by Daniel Bradway, Lab Manager

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

Animal	Specimen	Result	
_24_A	Nasal swab	Not detected	
_24_B	Nasal swab	Not detected	
_24_C	Nasal swab	Not detected	
D_3_A	Nasal swab	Not detected	
D_3_B	Nasal swab	Not detected	
0_3_C	Nasal swab	Not detected	
_3_D	Nasal swab	Not detected	
1_1_A	Nasal swab	Not detected	
1_1_B	Nasal swab	Not detected	
1_1_C	Nasal swab	Indeterminate	
1_1_D	Nasal swab	Not detected	
1_1_E	Nasal swab	Not detected	
1_1_F	Nasal swab	Not detected	
I _1_G	Nasal swab	Not detected	
1_1_H	Nasal swab	Detected	
_1_I	Nasal swab	Not detected	
1_1_J	Nasal swab	Not detected	
1_1_K	Nasal swab	Not detected	
_1_L	Nasal swab	Not detected	
1_1_M	Nasal swab	Not detected	
_1_N	Nasal swab	Not detected	
_1_0	Nasal swab	Not detected	
_1_P	Nasal swab	Not detected	
_1_Q	Nasal swab	Not detected	
_1_R	Nasal swab	Not detected	
_1_S	Nasal swab	Not detected	
1_1_T	Nasal swab	Not detected	
1_U	Nasal swab	Not detected	

Washington Animal Disease Diagnostic Lab Case#: 2016-7913

Page 1 of 4

This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

nimal	Specimen	Result
-1_V	Nasal swab	Not detected
-1-V -1-W	Nasal swab	Not detected
_1_W	Nasal swab	Not detected
-1-A -1_Y	Nasal swab	Not detected
_1_1 _1_Aa	Nasal swab	Not detected
200		
_1_Bb	Nasal swab	Detected
_1_Cc	Nasal swab	Not detected
_1_Dd	Nasal swab	Not detected
_1_Ee	Nasal swab	Detected
_1_Ff	Nasal swab	Detected
_1_Gg	Nasal swab	Indeterminate
1_Hh	Nasal swab	Not detected
_1_Ii	Nasal swab	Indeterminate
.1_Jj	Nasal swab	Detected
1_Kk	Nasal swab	Not detected
1.Ll	Nasal swab	Indeterminate
_1_Mm	Nasal swab	Not detected
1_Nn	Nasal swab	Indeterminate
_1_Oo	Nasal swab	Detected
_4_A	Nasal swab	Not detected
_4_B	Nasal swab	Not detected
_4_C	Nasal swab	Not detected
کن م م	Nasal swab	Not detected
K R	Nasal swab	Not detected
	Nasal swab	Not detected
5 D		
	Nasal swab	Not detected
	Nasal swab	Not detected
LS_F	Inasai Swab	Not detected
_5_G	Nasal swab	Not detected
_5_H	· Nasal swab	Not detected
_5_I	Nasal swab	Not detected
_5_J	- Nasal swab	Not detected
_5_K	Nasal swab	Not detected
_5_L	Nasal swab	Not detected
5_M	Nasal swab	Not detected
_5_N	Nasal swab	Not detected
L5_0	Nasal swab	Not detected
_5_P	Nasal swab	Indeterminate
4_A	Nasal swab	Not detected
4_B	Nasal swab	Not detected
7_2_A	Nasal swab	Not detected
<u>-2-</u> A	Nasal swab	Not detected
7_2_C	Nasal swab	Not detected
[_2_D	Nasal swab	Not detected
[_2_E	Nasal swab	Not detected
[_2_F	Nasal swab	Not detected
[_2_G	Nasal swab	Not detected
L2_H	Nasal swab	Not detected
_5_A	Nasal swab	Not detected
_5_B	Nasal swab	Not detected
_5_C	Nasal swab	Not detected
f_5_D	Nasal swab	Not detected

Washington Animal Disease Diagnostic Lab Case#: 2016-7913

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This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Page 2 of 4

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.03.17

	-	lae SOP: 501.40K1.	2010.03.17
Animal	Specimen	Result	
-5_E	Nasal swab	Indeterminate	
_5_F	Nasal swab	Not detected	
-5_G	Nasal swab	Not detected	
-5_H	Nasal swab	Not detected	
1_5_I	Nasal swab	Not detected	
_5_J	Nasal swab	Not detected	
5_K	Nasal swab	Not detected	
_5_L	Nasal swab	Not detected	
_5_M	Nasal swab	Not detected	
_5_N	Nasal swab	Not detected	
1 <u>5</u> 0	Nasal swab	Detected	
-5_P	Nasal swab	Indeterminate	
Y_4_A	Nasal swab	Not detected	
Y_4_B	Nasal swab	Not detected	
A_1_A	Nasal swab	Not detected	
A_1_B	Nasal swab	Not detected	
-1_C	Nasal swab	Not detected	
1_D	Nasal swab	Not detected	
_1_E	Nasal swab	Not detected	
_7_A	Nasal swab	Not detected	
_7_B _2_A	Nasal swab	Indeterminate	
A	Nasal swab	Not detected	
_2_B	Nasal swab Nasal swab	Not detected Indeterminate	
_2_D	Nasal swab	Not detected	
_2_D _3_A	Nasal swab	Not detected	
1_3_B	Nasal swab	Not detected	
	Nasal swab	Not detected	
5_3_D	Nasal swab	Not detected	
_4_A	Nasal swab	Not detected	
_4_B	Nasal swab	Not detected	
_4_C	Nasal swab	Not detected	
1_1_A	Nasal swab	Not detected	
,_1_B	Nasal swab	Not detected	
.21_A	Nasal swab	Not detected	
R_5_A	Nasal swab	Not detected	
R_5_B	Nasal swab	Not detected	
CR_5_C	Nasal swab	Indeterminate	
CR_5_D	Nasal swab	Indeterminate	
5_E	Nasal swab	Not detected	
L_6_A	Nasal swab	Not detected	
L_6_B	Nasal swab	Not detected	
6_C	Nasal swab	Not detected	· · · · · · · · · · · · · · · · · · ·
1_6_D	Nasal swab	Not detected	
_6_E	Nasal swab	Not detected	
06_F	Nasal swab	Not detected	
_6_G	Nasal swab	Not detected	
-6_H	Nasal swab	Not detected	
_13_A	Nasal swab	Not detected	
_13_B	Nasal swab	Not detected	
1_13_C	Nasal swab	Not detected	
W.13_D	Nasal swab	Not detected	

Washington Animal Disease Diagnostic Lab Case#: 2016-7913

Page 3 of 4 This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Animal	Specimen	Result	
13_E	Nasal swab	Not detected	
_13_F	Nasal swab	Not detected	
51_2_A	Nasal swab	Not detected	
А2_В	Nasal swab	Not detected	
-2_C	Nasal swab	Not detected	
T_2_D	Nasal swab	Not detected	
т <u>_2_</u> Е	Nasal swab	Not detected	
2_2_F	Nasal swab	Not detected	
X_2_ G	Nasal swab	Not detected	
Г_2_Н	Nasal swab	Detected	
№Г_2_І	Nasal swab	Not detected	
SD_2_A	Nasal swab	Not detected	
<u></u> _2_В	Nasal swab	Not detected	
↓ 1 _2_C	Nasal swab	Not detected	
_2_D	Nasal swab	Not detected	
A _7_A	Nasal swab	Not detected	
7_ B	Nasal swab	Not detected	

PCR-Mycoplasma ovipneumoniae test comment: This assay detects only Mycoplasma ovipneumoniae. Culture is available at WADDL to detect other species of Mycoplasma if desired. Fees for culture are available on our website. Please contact the lab if Mycoplasma culture or other testing is desired.

Washington Animal Disease Diagnostic Lab

Case Tracking HALF SHEET

Quantity/Description/Routing of Samples 2016 Ref Vet: Owner: Breed: Routed: 140 dry swabs Domestic Goat md Highland, Margaret 7913 Opened by: Contents match forms: Sample Condition: On ice Frozen Fixed Room Temp. X Yes Samples Received Via: US Mail FedEx Drop off No UPS FedEx-R Other: Explain below Comments for Case Tracking: 06/20/16 totes; 1 page Sample Label 🗸

Form WADDL 070, Version 05-14

Washington	ON FORM FOR GENERAL DIA Animal Disease Diagnostic reterinary Medicine, Washington St	c Laboratory	
US Postal Service mailing address:	o Site: http://waddl.vetmed.wsu.edu 5, FedEx or Courier shipping address:		2016 Ref Vet Breed: Routed
Pullman, WA. 99164-7034 Please type or use black ink and print clearly.	Bustad Hall, Rm.155-N Pullman, WA. 99164-7034	E-Mail: waddl@vetmed.wsu.edu	2016 — Ref Vet: Hig Owner: USI Breed: Dom Routed: md
Veterinarian or Last Case Coordinator: Name: Highland	First Name:	Vaggie	- 10050 : Highland, Ma USDA - ARS - Domestic Goat : md
Clinic: ADRU-ARS-USDA			c Goa
Street address: ADBF 3033	Mailing Address or PO Box;	· · · · · · · · · · · · · · · · · · ·	10050 : Highland, Margaret USDA - ARS - ADRU Domestic Goat : md
City: Pullman	State: WA	Zip: 99164	
Phone: 509-335-6327 Fax: 509-33	5-8328 _{E-mail:} mah@vet	med.wsu.edu	
Owner: Last Name first: same as above	Guardian Name: (if owner is under 18)		
Farm Name:	First Time Su	bmitter? Yes No	
Street address:	Mailing Address or PO Box:		08/04/16
City:	State:	Zip:	
Phone: Fax:	E-mail:		
Billing: Owner Clinic 3 Reporting Preference: Mail Prease fill out completely as possible:	Prod Party (preapproval required) Produces Produces Produces - reg	ease note: WADDL policy is to bill the clinic gister on web site at http://waddl.ve	
Specimen(s) Submitted:	asal swabs	Date Collected Date Shipped:	: July 2016 n/a
Tests Necropsy Virology Tests Histopathology Serology Toxicology Fungal Cultu Note: WADDL reserves the right to modify the tests requested for mod	ore efficient case work-up and / or to send spec	IHC PCR Other: cimens to outside laboratories to perform to	
Animal ID (name/tag#) Species see multiple animal form domest	tic goats Breed multiple	Age Sex multiple	Animal Weight
Location of Lesion No.	lo. in group No. Dead No N/A	D. Sick No. on Premises	Duration of Problem N/A
Was animal euthanized? If so, what method? NA Additional History: WADDL Case Numbers. (Attach addition M. ovipneumoniae qPCR on each san Please save remaining DNA isolations (sequencing) be performed by WADD	nal sheets as necessary.) nple s and call Maggie for pick	up or may request furth	
Please bill to ADRU-ARS-USDA acco	unt #RSA 2540-1080		
WADDL is an official brucellosis testing laboratory. All sample collection, and signatu "I certify that the specimens submitted with th Veterinarian's, Clinician's or Owner's Signature:	ure of an accredited veterinarian attest his form were collected by me from to Condi	ting to the following statement:	ate indicated."

Form WADDL 001.1 Version 09-15

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

Washington Animal Disease Diagnostic Laboratory

Mailing address: P.O. Box 647034 Pullman, WA. 99164-7034 Phone: (509) 335-9696 E-Mail: waddl@vetmed.wsu.edu Web Site: http://waddl.vetmed.wsu.edu

College of Veterinary Medicine, Washington State University Shipping address: Bustad Hall, Rm.155-N Pullman, WA. 99164-7034 FAX: (509) 335-7424

Owner: Highland, Maggie

Veterinarian: Highland, Maggie

TEST(S) REQUESTED: _____

Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name
1	<u>_8_8</u> _A	26	0 _5_0	51	_4_B	76	/_1_E
2	<u>"_8_</u> B	27	<u>У _5_</u> Р	52	_4_C	77	(_1_F
3	4_A	28	2_A	53	4_D	78	_1_G
4	4_B	29	<u>2_B</u>	54	<u> </u>	79	_1_A
5	4_C	30	2_C	_ 55	<u>1_B</u>	80	_1_B
6	4_D	31	<u>2_</u> D	56	1_A	81	_1_C
· 7	4_E	32	6_A	_ 57	_1_B	82	_1_D
8	4_F	33	A	_ 58	1_C	83	<u>1_E</u>
9	4_G	34	B	_ 59	_1_D	84	1_F
10	1_A	35	2_C	60	6_A	85	<u>1_</u> G
11	1_B	36	_2_A	61	6_B	86	5_A
12	5_A	37	B	_ 62	_6_C	87	<u>5_B</u>
13	5_B	38	C	_ 63	2_A	88	_5_C
14	5_C	39	D	64	2_B	89	5_D
15	5_D	40	25_A	_ 65	_2_C	_ 90	5_E
16	5_E	41	25_B	_ 66	_2_D	91	<u></u> 5_F
17	5_F	42	25_C	_ 67	E	92	<u>5_</u> G
18	5_G	43	25_D	_ 68	F	93	<u>_5_</u> H
19	5_H	44	25_E	69	2_G	_ 94	(_5_1
20	5_1	45	/_1_A	_ 70	2_H	95	J
21	5_J	46	<u>1_B</u>	_ 71	<u>_2_</u> I	96	5_K
22	5_K	47	1_C	_ 72	1_A	97	5_L
23	41_5_L	48	1_D	_ 73	1_B	98	_5_M
24	D _5_M	49	<u>1</u> E	_ 74	1_C	99	5_N
25	5_N	50	_4_A	75	<u>1_</u> D	100 *	_5_0
		-	<u>As</u>	-			

* For over 100 samples, please copy this form and continue numbering.

Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU Breed: Domestic Goat Routing: md

10050

08/04/16

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

Washington Animal Disease Diagnostic Laboratory

College of Veterinary Medicine, Washington State UniversityMailing address:Shipping address:P.O. Box 647034Bustad Hall, Rm. 155-NPublic on MMA 02101 7001Dublic on MMA 02101 7001

 Pullman, WA. 99164-7034
 F

 Phone: (509) 335-9696
 F

 E-Mail: waddl@vetmed.wsu.edu

Shipping address: Bustad Hall, Rm.155-N Pullman, WA. 99164-7034 FAX: (509) 335-7424 edu

Web Site: http://waddl.vetmed.wsu.edu

Owner: Highland, Maggie

Veterinarian: Highland, Maggie

TEST(S) REQUESTED: Movi qPCR

Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name
101	_5_P	126	1_E	51		76	
102	_5_Q	27	7_A	52		77	
103	_5_R	/28	B	53		78	
104	S	/29	7_C	54		79	
105	5_T	/30	7_D	_ 55		80	
106	U	31	A	56	····	_ 81	
107	5_V	132	<u>2_</u> B	_ 57		82	
108	5_W	133	2_C	_ 58		_ 83	
109	5_X	34	-	59		_ 84	
/ 10	<u>5_</u> Y	35	<u> </u>	60	<u>- 1</u>	85	
/ 11	3_A	_ 36	·	61		86	
112	3_B	37	····	62	- 	_ 87	· · · · · · · · · · · · · · · · · · ·
 13	1_A	38		63		88	
114	1_B	39		64	······	89	
i 15	1_C	40		65		90	
I 16	_1_D	_ 41		66		_ 91	
117	1_E	_ 42		67	<u></u>	92	·····
118	<u>_1_F</u>	43		68		93	•
119	1_G	_ 44		69		94	
1 20	5_A	_ 45	·	70		95	
/21	5_B	_ 46		71	-	96	
1 22	1_A	_ 47		72	<u>. </u>	97	·
123	1_B	_ 48		73		98	
124	_1_C	_ 49		74	• <u></u>	99	
125	<u>1_D</u>	_ 50		_ 75		_ 100 *	

* For over 100 samples, please copy this form and continue numbering.

08/04/16

2016

ī

10050

Owner: USDA – ARS – ADRU Breed: Domestic Goat Routing: md

Ref Vet: Highland, Margaret

P.O. Box 647034 Pullman, WA 99164-7034 Telephone : (509) 335-9696 Fax : (509) 335-7424

Dr. Margaret Highland USDA-ARS-ADRU WSU - 3003 ADBF

Case#: 2016-10050 Report Date: 08/19/16

Pullman, WA 99164-6630

Submittal Date: 08/04/16 Owner: USDA-ARS-ADRU Species: Domestic Goat

Age: Sex:

Final Report:

Molecular Diagnostics- Reported on 08/19/16 Authorized by Daniel Bradway, Lab Manager

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

Animal	Specimen	Result
-8_A	Nasal swab	Not detected
8_B	Nasal swab	Not detected
1_4_A	Nasal swab	Indeterminate
_4_B	Nasal swab	Not detected
_4_C	Nasal swab	Indeterminate
_4_D	Nasal swab	Indeterminate
_4_E	Nasal swab	Not detected
_4_F	Nasal swab	Indeterminate
_4_G	Nasal swab	Not detected
_1_A	Nasal swab	Not detected
_1_B	Nasal swab	Not detected
_5_A	Nasal swab	Not detected
′5_B	Nasal swab	Not detected
_5_C	Nasal swab	Not detected
-5_D	Nasal swab	Not detected
Г_5_Е	Nasal swab	Not detected
_5_F	Nasal swab	Not detected
1_5_G	Nasal swab	Not detected
_5_H	Nasal swab	Not detected
L_5_I	Nasal swab	Indeterminate
5_J	Nasal swab	Not detected
_5_K	Nasal swab	Not detected
¹ _5_L	Nasal swab	Not detected
_5_M	Nasal swab	Not detected
_5_N	Nasal swab	Indeterminate
_5_O	Nasal swab	Not detected
_5_P	Nasal swab	Not detected
A	Nasal swab	Not detected

Washington Animal Disease Diagnostic Lab Case#: 2016-10050

Page 1 of 4

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PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

		niae SOP: 501.40RT	.2016.07.18		
Animal	Specimen	Result			
_2_B	Nasal swab	Not detected			
-2_C	Nasal swab	Not detected			
_2_D	Nasal swab	Not detected			
-6_A	Nasal swab	Not detected			
_1_A	Nasal swab	Not detected			
_2_B	Nasal swab	Not detected			
_2_C	Nasal swab	Not detected			
_2_A	Nasal swab	Not detected			
_2_B	Nasal swab	Not detected			
_2_C	Nasal swab	Not detected			
_2_D	Nasal swab	Not detected			
25_A	Nasal swab	Not detected			
25_B	Nasal swab	Not detected			
25_C	Nasal swab	Not detected			
25_D	Nasal swab	Not detected			
25_E	Nasal swab	Not detected			
_1_A	Nasal swab	Not detected			
-1_B	Nasal swab	Not detected			
_1_C	Nasal swab	Not detected			
_1_D	Nasal swab	Not detected			
_1_E	Nasal swab	Not detected			
4_4_A	Nasal swab	Not detected			
4_B	Nasal swab	Not detected			
4_C	Nasal swab	Not detected			
14_D	Nasal swab	Not detected			
1_1_A	Nasal swab	Not detected			
Γ_1_B	Nasal swab Nasal swab	Not detected Not detected			
Г_1_А Г_1_В	Nasal swab	Not detected			
-1_D	Nasal swab	Not detected			
[_1_D	Nasal swab	Not detected			
D	Nasal swab	Not detected			
_6_B	Nasal swab	Not detected			
_6_C	Nasal swab	Not detected			
_2_A	Nasal swab	Not detected			
_2_B	Nasal swab	Not detected			
_2_C	Nasal swab	Not detected			
_2_D	Nasal swab	Not detected			
-2_E	Nasal swab	Not detected			
F	Nasal swab	Not detected			
`_2_G	Nasal swab	Not detected			
H	Nasal swab	Indeterminate			
J2_I	Nasal swab	Not detected			
Y_1_A	Nasal swab	Not detected			
Υ_1_B	Nasal swab	Not detected			
Z_1_C	Nasal swab	Not detected			
_1_D	Nasal swab	Not detected			
-1_E	Nasal swab	Not detected		1	
_1_F	Nasal swab	Not detected			
_1_G	Nasal swab	Not detected			
1_1_A	Nasal swab	Not detected			
07.1.B	Nasal swab	Not detected			

Washington Animal Disease Diagnostic Lab Case#: 2016-10050

Page 2 of 4 This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

	-	mae SOP: 501.40K1.2	.010.07.18			
Animal	Specimen	Result				
1_1_C	Nasal swab	Not detected				
	Nasal swab	Not detected				
1_E	Nasal swab	Not detected				
-1_F	Nasal swab	Not detected				
11_G	Nasal swab	Not detected				
5_A	Nasal swab	Not detected				
_5_B	Nasal swab	Not detected				
[_5_C	Nasal swab	Not detected				
_5_D	Nasal swab	Not detected				
_5_E	Nasal swab	Not detected				
7_5_F	Nasal swab	Not detected				
 G	Nasal swab	Not detected	· · · ·			
Т. 6 _5_Н	Nasal swab	Not detected				
7_5_I	Nasal swab	Not detected				
[_5_J	Nasal swab	Not detected				
_5_K	Nasal swab	Not detected				
_5_L	Nasal swab	Not detected				
[_5_M	Nasal swab	Not detected				
_5_N	Nasal swab	Not detected				
7_5_O	Nasal swab	Not detected			,	
_5_P	Nasal swab	Not detected				
7_5_Q	Nasal swab	Not detected				
7_5_R	Nasal swab	Not detected				
7_5_S	Nasal swab	Not detected				
_5_T	Nasal swab	Not detected				
_5_U	Nasal swab	Not detected				
_5_V	Nasal swab	Not detected				
_5_W	Nasal swab	Not detected				
[_5_X	Nasal swab	Not detected				
_5_Y	Nasal swab	Not detected				
3_A	Nasal swab	Not detected				
3_B	Nasal swab	Not detected				
1_A	Nasal swab	Not detected				
L1_B	Nasal swab	Not detected				
L1_C	Nasal swab	Not detected				
_1_D	Nasal swab	Not detected				
_1_E	Nasal swab	Not detected				
L1_F	Nasal swab	Not detected				
G	Nasal swab	Not detected				
A	Nasal swab	Not detected				
5_B	Nasal swab	Not detected				
1_A	Nasal swab	Not detected				
1_B	Nasal swab	Not detected				
1_C	Nasal swab	Not detected				
_1_D	Nasal swab	Not detected				
L_1_E	Nasal swab	Not detected				
_7_A	Nasal swab	Not detected				
-7_B	Nasal swab	Not detected				
_7_C	Nasal swab	Not detected				
-7_D	Nasal swab	Not detected				
_2_A	Nasal swab	Not detected				
_2_B	Nasal swab	Not detected				
			· · · · · · · · · · · · · · · · · · ·			

Washington Animal Disease Diagnostic Lab Case#: 2016-10050

Page 3 of 4

This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal Disease Diagnostic Lab

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

Animal	Specimen	Result	
2_C	Nasal swab	Not detected	
L1_H	Nasal swab	Not detected	

PCR-Mycoplasma ovipneumoniae test comment: This assay detects only Mycoplasma ovipneumoniae. Culture is available at WADDL to detect other species of Mycoplasma if desired. Fees for culture are available on our website. Please contact the lab if Mycoplasma culture or other testing is desired.

Washington Animal Disease Diagnostic Lab Case#: 2016-10050

Page 4 of 4

This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal Disease Diagnostic Lab Case Tracking	g HALF SHEET
Quantity/Description/Routing of Samples	
133 nuser swebs - dropped off by Magysic Highland	2016 – 10050 Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU Breed: Domestic Goat Routed: md
Sample Condition: Room Temp. On ice Frozen Fixed Contents match forms: Opened by:	
Samples Received Via: US Mail FedEx Drop off Yes No Mq UPS FedEx-R Other: Explain below:	
Comments for Case Tracking:	
	Land Label V

	M FOR GENERAL DIA I Disease Diagnostic		
College of Veterinary	/ Medicine, Washington St	ate University	8 1
LIS Deated Service mailing address:	tp://waddl.vetmed.wsu.edu	Phone: (509) 335-	
PO Box 647034 UPS, Fedex C	or Courier shipping address: tad Hall, Rm.155-N	FAX: (509) 335 7	9696 424 I.wsu.edu I.wsu.edu I.wsu.edu
Pullman, WA. 99164-7034 Pullma Please type or use black ink and print clearly.	an, WA. 99164-7034	E-Mail: waddl@vetmec	
Veteringtion of Loct	First	Maggie	1231 ghland, DA – AR Destic Go
Case Coordinator: Name: Highland	Name: N	viaggie	9696 9696 424 Rowner: USDA – ARS – ADRU Breed: Domestic Goat Novied: md
Clinic: ADRU-ARS-USDA	Adollar Adda		- ADJ
Street address: ADBF 3033	Mailing Address or PO Box:		5 <u>5</u>
City: Pullman	State: WA	Zip: 991	64
Phone: 509-335-6327 Fax: 509-335-832	8 _{E-mail:} mah@vet	med.wsu.edu	
Owner: Last Name first: same as above	Guardian Name: (if owner is under 18)		
Farm Name:	First Time Su	bmitter?	
Street address:	Mailing Address	<u>L</u>	
	or PO Box:	·····	* 2
City:	State:	Zip:	O
Phone: Fax:	E-mail:		ii
			bill the clinic if provided, unless prepaid
Reporting Preference:MailFax	Web access - reg	gister on web site at http:/	//waddl.vetmed.wsu.edu
Please fill out completely as possible: Specimen(s) Submitted:		4-	Date Collected: Aug-Sept 2016
(Please use WADDL Animal ID Shoot for multiple animals)	os-frozen		Collected: Aug-Sept 2010 Date Shipped: N/A
Sheet for mulliple animals.) Necropsy Virology	Bacteriology		Shipped: 170
Tests Histopathology Serology	Mycoplasma culture	✓ PCR	
Toxicology Fungal Culture	Parasitology	Other:	
Note: WADDL reserves the right to modify the tests requested for more efficien Animal ID (name/taot#) Species	nt case work-up and / or to send spe Breed		to perform testing not done at WADDL. Sex Animal Weight
Animal ID (name/tag#) Species See multiple animal form domestic goat		1 " 1	Sex Anima Weight
Location of Lesion No. in group	p No. Dead N	o. Sick No. on I	Premises Duration of Problem
N/A * Was animal euthanized? If so, what method? N/A	N/A	<u>N/A</u>	N/A
Additional Vaccinations, signs, stress factors, treatments, po History: WADDL Case Numbers. (Attach additional sheet		feed or feed additives, c	linical lab results, previous
M. ovipneumoniae qPCR on each sample	.,		
Please save remaining DNA isolations and	call Maggie for pick	up or may reque	st further testing
(sequencing) be performed by WADDL, dep			
Please bill to ADRU-ARS-USDA account #I	RSA 2540-1094		
WADDL is an official brucellosis testing laboratory. All serolog			
WADDL is an official brucellosis testing laboratory. All serolog sample collection, and signature of an "I certify that the specimens submitted with this form Veterinarian's, Clinician's	n accredited veterinarian attes were collected by me from	sting to the following state	ement:

IDENTIFICATION SHEET FOR MULTIPLE ANIMALS

(To accompany WADDL Accession form, if needed)

College of Veterinary Medic	ine, Washington State University	
Mailing address:	Shipping address:	
P.O. Box 647034	Bustad Hall, Rm. 155-N	2016-12311
Pullman, WA. 99164-7034	Pullman, WA. 99164-7034	
Phone: (509) 335-9696	FAX: (509) 335-7424	Ref Vet: Highland, Margaret Owner: USDA – ARS – ADRU
E-Mail: waddl@vetmed.wsu	ı.edu	Breed: Domestic Goat
Web Site: http://waddl.vetm	Routing: md	

Owner: Highland, Maggie

Veterinarian: Highland, Maggie

TEST(S) REQUESTED: _____

Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name	Tube	Animal # or Name
1	_2_A	26	_2_F	51	_4_B (3)	76	1_J (2)
2	2_B	27	G	52	_4_C (3)	77	_1_L (2)
3	2_C	28	H	53	4_D (3)	78	_1_N (2)
4		29	_2_I	54	E (3)	79	1_O (2)
5	9_A	30	/ <u>2</u> J	55	F (3)	80	1_P (2)
6	9_B	31	3_A	56	4_G (3)	81	1 <u>_</u> Q (2)
7	9_C	32	<u>3</u> B	_ 57	4_H (3)	82	1_R (2)
8	9_D	33	3_C	_ 58	4_l (3)	83	1_S (2)
9	<u>9_</u> E	34	4_A	_ 59	<u> </u>	_ 84	_1_T (2)
10	5_A	35	4_B	_ 60	4_K (3)	85	1_U (2)
. 11	5_B	36	4_C	61	4_L (3)	_ 86	_1_V (2)
12	5_C	37	_4_D	_ 62	4_M (3)	87	_1_W (2)
13	_5_D	38	4_E	63	(_ 88	1_X (2)
14	5_E	39	3_A	64	L_4_0 (3)	89	Y (2)
15		40	<u>3_</u> B	_ 65	S (3)	90	1_HH (2)
16	G	_ 41	3_C	_ 66	9_F (2)	91	1_ll (2)
17	5_H	42	_3_D	_ 67	9_G (2)	92	1_KK (2)
18	<u>5_</u> I	_ 43	3_E	68	J (2)	93	1_LL (2)
19	_5_J	_ 44	F	69	K (2)	_ 94	MM (2)
20	5_K	_ 45	G	70	<u>X1_A (2)</u>	95	1_NN (2)
21	2_A	46	3_H	_ 71	tB (2)	96	1_SS (2)
22	B	_ 47	A_3_I	72	1_D (2)	97	1_ZZ (2)
23	C	_ 48	26_A	_ 73	1_E (2)	98	1_BC (2)
24		49	26_B	_ 74	1_F (2)	_ 99	2_H (4)
25	E	50	4_A (3)	75	1_1_G (2)	_ 100 *	-
					•		· · · · · · · · · · · · · · · · · · ·

* For over 100 samples, please copy this form and continue numbering.

09/21/16

P.O. Box 647034 Pullman, WA 99164-7034 Telephone : (509) 335-9696 Fax : (509) 335-7424

Dr. Margaret Highland **USDA-ARS-ADRU WSU - 3003 ADBF**

Case#: 2016-12311 **Report Date: 10/05/16**

Pullman, WA 99164-6630

Submittal Date: 09/21/16	Species: Domestic Goat	ł
Owner: USDA-ARS-ADRU		S

Age: Sex:

Final Report:

Molecular Diagnostics- Reported on 10/05/16 Authorized by Daniel Bradway, Lab Manager

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

<i>v</i> 1		
Animal	Specimen	Result
_2_A	Nasal swab	Not detected
• <u>; _2_</u> B	Nasal swab	Not detected
C	Nasal swab	Not detected
_2_D	Nasal swab	Not detected
_9_A	Nasal swab	Not detected
_9_B	Nasal swab	Not detected
-9_C	Nasal swab	Not detected
_9_D	Nasal swab	Not detected
_9_E	Nasal swab	Not detected
_5_A	Nasal swab	Not detected
_5_B	Nasal swab	Not detected
_5_C	Nasal swab	Not detected
_5_D	Nasal swab	Not detected
_5_E	Nasal swab	Not detected
_5_F	Nasal swab	Not detected
「5_G	Nasal swab	Not detected
L5_H	Nasal swab	Not detected
_5_I	Nasal swab	Not detected
_5_J	Nasal swab	Not detected
_5_K	Nasal swab	Not detected
_2_A	Nasal swab	Not detected
_2_B	Nasal swab	Not detected
_2_C	Nasal swab	Not detected
L_2_D	Nasal swab	Not detected
_2_E	Nasal swab	Not detected
_2_F	Nasal swab	Not detected
L2_G	Nasal swab	Not detected
-2_H	Nasal swab	Not detected

Washington Animal Disease Diagnostic Lab Case#: 2016-12311

Page 1 of 3 This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal Disease Diagnostic Lab

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

Animal	Specimen	Result	
4 -2 -I	Nasal swab	Not detected	
_2_J	Nasal swab	Not detected	
-3_A	Nasal swab	Not detected	
_3_B	Nasal swab	Not detected	
_3_C	Nasal swab	Not detected	
4_A	Nasal swab	Not detected	
_4_B	Nasal swab	Not detected	
-4_C	Nasal swab	Not detected	
[_4_D	Nasal swab	Not detected	
Г_4_Е	Nasal swab	Not detected	
X_3_A	Nasal swab	Not detected	
_3_B	Nasal swab	Not detected	
_3_C	Nasal swab	Indeterminate	
_3_D	Nasal swab	Indeterminate	
_3_E	Nasal swab	Not detected	
_3_F	Nasal swab	Indeterminate	
-3_G	Nasal swab	Not detected	
H	Nasal swab	Not detected	
	Nasal swab	Not detected	
26_A	Nasal swab	Not detected	
_26_B	Nasal swab	Not detected	
_4_A (3)	Nasal swab	Not detected	
_4_B (3)	Nasal swab	Not detected	
_4_C (3)	Nasal swab	Indeterminate	
4_D (3)	Nasal swab	Indeterminate	
L4_E (3)	Nasal swab	Not detected	
1_4_F (3)	Nasal swab	Not detected	
_4_G (3)	Nasal swab	Not detected	
_4_H (3)	Nasal swab	Not detected	
_4_I (3)	Nasal swab	Not detected	
_4_J (3)	Nasal swab	Indeterminate	
	Nasal swab	Not detected	
_4_L (3)	Nasal swab	Indeterminate	
4_M (3)	Nasal swab	Indeterminate	
_4_N (3)	Nasal swab	Not detected	
_4_O (3)	Nasal swab	Not detected	
4_S (3)	Nasal swab	Indeterminate	
.9_F (2)	Nasal swab	Not detected	
.9_G (2)	Nasal swab	Not detected	
_17_J (2)	Nasal swab	Indeterminate	
_17_K (2)	Nasal swab	Not detected	
$-1_A(2)$	Nasal swab	Not detected	
$1_{B}(2)$	Nasal swab	Not detected	
1 D (2)	Nasal swab	Not detected	
$1 \pm (2)$	Nasal swab	Not detected	
$1_{LF}(2)$	Nasal swab	Not detected	
(P)	Nasal swab		
$1_{-G}(2)$		Not detected	
1_J (2)	Nasal swab	Not detected	
1 - 1 - L (2)	Nasal swab	Not detected	
$-1_N(2)$	Nasal swab	Not detected	
_1_0 (2)	Nasal swab	Not detected	
1_P (2)	Nasal swab	Not detected	

Washington Animal Disease Diagnostic Lab Case#: 2016-12311

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Washington Animal Disease Diagnostic Lab

PCR-Mycoplasma ovipneumoniae SOP: 501.40RT.2016.07.18

Animal	Specimen	Result
 1_Q (2)	Nasal swab	Not detected
_1_R (2)	Nasal swab	Not detected
_1_S (2)	Nasal swab	Not detected
5_1_T (2)	Nasal swab	Not detected
_1_U (2)	Nasal swab	Not detected
_1_V (2)	Nasal swab	Indeterminate
_1_W (2)	Nasal swab	Not detected
_1_X (2)	Nasal swab	Not detected
_1_Y (2)	Nasal swab	Not detected
1_HH (2)	Nasal swab	Indeterminate
1_I (2)	Nasal swab	Not detected
-1_KK (2)	Nasal swab	Not detected
_1_LL (2)	Nasal swab	Not detected
_1_MM (2)	Nasal swab	Indeterminate
_1_NN (2)	Nasal swab	Not detected
_1_SS (2)	Nasal swab	Not detected
1.ZZ (2)	Nasal swab	Not detected
1_BC (2)	Nasal swab	Not detected
_2_H (4)	Nasal swab	Not detected

PCR-Mycoplasma ovipneumoniae test comment: This assay detects only Mycoplasma ovipneumoniae. Culture is available at WADDL to detect other species of Mycoplasma if desired. Fees for culture are available on our website. Please contact the lab if Mycoplasma culture or other testing is desired.

Washington Animal Disease Diagnostic Lab Case#: 2016-12311

Page 3 of 3 This report contains information that is confidential and is intended for the use of the individual or entity named on page 1. If you have received this report in error, please notify WADDL immediately.

Washington Animal Disease Diagnostic Lab	Case Tracking HALF SHEET
Quantity/Description/Routing of Samples	
99 Misal Swabs -7 Mi # per Mith bo Mi Hi -7 25	rahland Goat BB
	forms: Opened by: No ain below:
Comments for Case Tracking: MD わいき	09/21/16
	Form WADDL 070, Version 05-14