

Report on [redacted] , [redacted] [redacted] following the finding of “Visible Lesions” of M. bovis in the carcass of an IR.

Immediate Background

- 1 [redacted] Liverpool [redacted] sold 16 bison to [redacted]), [redacted] ([redacted]), 12 arriving on farm on 29th February 2012 and 4 arriving on 15th March 2012. All animals had been pre-movement tested on 16th January 2012 before being consigned from [redacted].
- 2 Two (2) of these purchases ([redacted]& [redacted]) died on 22nd May 2012 and 21st June 2012 respectively, [redacted].
- 3 14 animals were, therefore, post-movement tested (late) in small groups between August and December 2012.

Post- Movement Test

- 4 The Post- Movement Test for these animals was carried out as follows:

Date	Herd Mark	Individual ID	Sex	Age (yrs)	Test Result
21 st & 24 th August 2012	[redacted]	[redacted]	F	3	Inconclusive (IR)
		[redacted]	F	4	Clear
		[redacted]	F	3	Clear
		[redacted]	M	7	Clear
24 th & 27 th September 2012	[redacted]	[redacted]	F	1	Clear
		[redacted]	F	8	Clear
		[redacted]	F	7	Clear
		[redacted]	M	5	Clear
		[redacted]	M	2	Clear
3 rd & 6 th December 2012	[redacted]	[redacted]	F	1	Clear
		[redacted]	F	3	Clear
		[redacted]	F	6	Clear
		[redacted]	F	9	Clear
		[redacted]	F	7	Clear
3 rd & 6 th December Young calves of “part 3” post-movement test bison also tested.	[redacted]	[redacted]			Clear
		[redacted]			Clear
		[redacted]			Clear
		[redacted]			Clear

5 The table above shows that a single IR ([redacted]) was identified at the first part-test of the [redacted] animals read on 24th August 2012.

6 This inconclusive animal was privately slaughtered on 3rd December and subjected to Post-Mortem Examination at SAC Veterinary Laboratory at Craibstone on on 4th December 2012.

7 Laboratory Results Summary

Examination	Findings				
Post- Mortem: Lesions in both retro-pharyngeal LN's	Multiple	< 2mm	Yellow	Calcified Gritty	Typical
Histology	Typical		Acid Fast +ve		
Culture	Mycobacterium bovis +ve		Spoligotype 17		

Current Herd Make- up

9 There are currently recorded 52 bison at [redacted]:

- Purchased animals : 28

4 from [redacted], Wiltshire ([redacted])
1 from [redacted], Aberdeenshire ([redacted]) 10 from
[redacted], Gloucestershire ([redacted]) 13 from [redacted],
Liverpool ([redacted])

- Homebred Animals : 24

M. bovis risk from Purchases

- 10 [redacted], **Wiltshire** ([redacted]). Purchase in December 2005 of 12 bison – 4 still in the herd. There remains no history of TB Reactors or IR's at [redacted] although the premises is in a current 12 month testing area.

- **Low Risk Origin.**

- 11 [redacted] ([redacted]) (now dispersed) where there had been no history of TB. There had been approximately 20 Irish bison added to the herd but a clear WHT is recorded in March 2005 – 46 tested out of 58. A single animal, purchased in December 2006, remains in the herd.

- **Medium Risk Origin** (difficult to quantify).

- 12 [redacted], **Gloucestershire** ([redacted]). 12 animals purchased in April 2009, followed by 12 further animals in March 2010. This is a premises with confirmed M. bovis in February 2008, July and October 2010, June & December 2011, March, June and November 2012 and is in a 12 month testing parish.

- **Very High Risk Origin.**

[Pre-movement tests are recorded for [redacted] in February and March 2009 and February 2010 but no animal identities are available to confirm the inclusion of the [redacted] purchases.

The 9 animals remaining in the herd which were purchased in March 2010 were post-movement tested clear at [redacted] on 8th June 2010 and the single remaining animal from the 2009 purchase group, was tested clear on 4th September 2009.]

- 13 [redacted], **Liverpool** ([redacted]) – 12 bison purchased on 29th February 2012, followed by a further 4 on 15th March 2012. The 16 were pre-movement tested on 16th January 2012 and 14 were post-movement tested between August and December 2012 at [redacted]

There had been M. bovis confirmed [redacted] in 2005.

- **High Risk Origin** (due to confirmed M. bovis and no skin testing having been done before lifting of the TB 2. It is also understood that multiple species have close contact within the compound which housed the bison.)

Consideration of the Origin of M bovis infection at [redacted]

- 14 The origin of the infection in the IR is not clear. The highest risk of infection within the herd comes from [redacted].
- 15 The spoligotype of the isolate (“17”) is consistent with a [redacted] origin.
- 16 The IR came from [redacted] and has had no known direct or indirect contact with any [redacted] animals.
- 17 The spoligotype of the isolate from the [redacted] in 2005 is “21”.
- 18 It is not known what other M.bovis infection may be present in bison or other species at [redacted] and what the degree of contact may have been.
- 19 Although the herd at [redacted] is long established, it is not known if bison from another infection source may have been added to this herd prior to the purchase by [redacted].
- 20 A back tracing to [redacted] has been initiated.

Details of the Current Bison at [redacted]

- 21 See attached excel document



excel on farm 31'1'13
[redacted].xls

TB Testing History of Current Stock at [redacted]

- 22 Please see attached excel document



Testing Summary
[redacted]2009 -
20

- 23 As this document shows, all of the purchased bison have been tested once since arrival at [redacted]. Only the Visibly Lesioned IR ([redacted]) did not pass the skin test.

Group Separation and Bio-security

- 24 Biosecurity was fully discussed with [redacted] prior to the arrival of the [redacted] animals and [redacted] has taken care with bio-secure separation of the new animals from the “Resident Herd”.
- 25 After a brief mistaken use of Jeyes Fluid as disinfectant, [redacted] has used FAM 30 for routine disinfection on farm and has also avoided indirect contact with the new animals, where at all possible.
- 26 There is reported to have been no direct contact between [redacted] animals and the “Resident Herd”.

[redacted]

- 27 Ref Map above:

- Pink coloured field is where the purchased animals were originally isolated.
- Red spotted area is handling paddock with crate.
- Orange hatching shows isolation field where first post-movement test group (with IR) was held.
- Green coloured strip field is where resident herd has been held.

- 28 A tractor and tractorman from a local farm has been used to deliver feed to the resident herd. This vehicle has not accessed the round field or the double (pink) field. He has no cattle registered on CTS but confirmation that he has had no cattle on his premises, recently, is required.

- 29 The separation of the test groups has not been maintained, due to pressure on pasture. The 5 animals in the 2nd test group, after their test in September, were added to the round field to join the 4 animals (including IR) from the 1st test group.
- 30 The 3rd test group of 5 cows (+4 calves) have remained in the original double field and have been separated from other [redacted] animals since September 2012. They were tested for the Post-Movement test on 3rd December.
- 31 There are no boundaries with other premises where contact is possible with other livestock. All groups are held securely bounded by wood, wire and electric fencing.

Containment of Infection

Movement Restrictions TB 2

- 32 TB2 Restrictions continue to apply to the whole of the premises, not just to the [redacted] animals.

Further Testing

- 33 Two (2) clear Short Interval Tests (SIT's) are required for the whole herd starting at least 60 days after the removal of the infection animal from the herd (3rd December 2012).
- 34 The requirement to test the resident herd has been reinforced as it has been moved to join the (part 3) 5 cows and 4 calves in the double (pink) field.
- 35 This move was made due to shortage of pasture due to recent weather conditions and was done after a further test of these 3rd part animals.
- 36 Unfortunately the test was performed early (at 49 days since last test) and therefore a further 2 tests of the 5 cows and 4 calves will be required, in addition to the 2 tests required for the resident herd and the group 1 & 2 animals in the small round field.

Planned Move of Premises

- 37 It is proposed that the Bison herd at [redacted] will be moved to a section of the [redacted] in Aberdeenshire, in mid March 2013.
- 38 TB2 restrictions will be applied to the occupied premises until such time as the required testing is completed.

- 39 Prior to the move, the premises must be approved by Aberdeenshire Council (DangerousWild Animals Act) and by Animal Health with respect to disease security.
- 40 Further testing of the herd before the move to [redacted] may be difficult due to pressure of space at [redacted].

Public Health

- 41 Health Protection Team specialist nurse at the CPHM office in Aberdeen has been informed of the M. bovis isolation at [redacted]

Further Considerations

- 42 Full genotyping results may assist in identifying the source of infection and assist with a consideration of the ability of this particular strain of M bovis to spread indirectly.
- 42 As none of the [redacted] animal has a passport, they cannot enter the food chain and are not eligible for compensation if slaughtered as a TB Reactor or Dangerous Contact.
- 43 The tractorman's contacts with susceptible livestock will be explored and a check test initiated where appropriate.
- 44 The SIT's will be progressed as soon as possible, the OV practice ([redacted]) being willing to continue with the testing. They are well aware of the welfare issues surrounding the handling of these animals but are also aware of the priority of the testing.
- 45 [redacted] has told me that he has informed the press of his planned move and that bovine TB has been confirmed in the herd. He is contemplating allowing them camera access to the herd at the time when his planned move to other premises is being considered, but is prepared to listen to the opinion of Animal Health.

[redacted], BVM&S MRCVS
Veterinary Officer

7th January 2013

BISON ON FARM AT [redacted]

Ear No	Age (Mths)	Date of Birth	Sex	"ON" date	Dam	Premises or Origin	CPH	Comment	Post-Movement Test	Further Comment
1	[Redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12		
2	[Redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12		
3	[redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	21st Aug 2012	[Redacted]
4	[redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	21st Aug 2012	
5	[redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12		
6	[Redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12		[redacted]
7	[Redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	24th Sept 2012	
8	[Redacted]		F	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	24th Sept 2012	[redacted] Died
9	[Redacted]		F	15/03/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12		[redacted]
10	[Redacted]		F	15/03/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	24th Sept 2012	[redacted]
11	[Redacted]		M	15/03/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	24th Sept 2012	
12	[Redacted]		M	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	24th Sept 2012	
13	[Redacted]		M	29/02/2012		[Redacted]	[Redacted]	Pre-m. Test 16/1/12	21st Aug 2012	
14	[Redacted]	56 *	F	03/05/2008	15/04/2009	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	4th September 2009	10 other bison from same herd also post-movement tested same day - these are confirmed dead on CTS.
15	[Redacted]	56 *	F	11/05/2008	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
16	[Redacted]	53 *	F	03/08/2008	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
17	[Redacted]	45	M	28/04/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
18	[Redacted]	44 *	F	11/05/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
19	[Redacted]	44	M	12/05/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010	8th June 2010	
20	[Redacted]	44 *	F	13/05/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
21	[Redacted]	44	M	16/05/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
22	[Redacted]	42 *	F	07/07/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	
23	[Redacted]	42 *	F	08/07/2009	11/03/2010	[Redacted]	[Redacted]	Confirmed M. bovis Feb 2008, July & Oct. 2010, June & Dec 2011, March, June Nov 2012	8th June 2010	

24	[Redacted]	92 *	12/05/2005	F	13/12/2006	[Redacted]	[Redacted]	[Redacted]	No TB history	NH1 clear 6/11/09	
25	[Redacted]	92 *	13/05/2005	F	13/12/2006	[Redacted]	[Redacted]	[Redacted]	No TB history	NH1 clear 6/11/09	
26	[Redacted]	92 *	16/05/2005	F	13/12/2006	[Redacted]	[Redacted]	[Redacted]	No TB history	NH1 clear 6/11/09	
27	[Redacted]	92 *	19/05/2005	F	13/12/2006	[Redacted]	[Redacted]	[Redacted]	No TB history	NH1 clear 6/11/09	
28	[Redacted]	92 *	12/05/2005	F	07/06/2007	[Redacted]	[Redacted]	[Redacted]	No TB history but did import some Irish	NH1 clear 6/11/09	2011 Calf [redacted] died
29	[Redacted]	56 *	10/05/2008	F	10/05/2008	[Redacted]	Homebred	[Redacted]		NH1 clear 6/09/09	Calf [redacted] died
30	[Redacted]	56 *	15/05/2008	F	15/05/2008	[Redacted]	Homebred	[Redacted]		NH1 clear 6/09/09	
31	[Redacted]	56 *	22/05/2008	F	22/05/2008	[Redacted]	Homebred	[Redacted]		NH1 clear 6/09/09	
32	[Redacted]	56 *	22/05/2008	F	22/05/2008	[Redacted]	Homebred	[Redacted]		NH1 clear 6/09/09	
33	[Redacted]	31	21/06/2010	F	21/06/2010	[Redacted]	Homebred	[Redacted]			
34	[Redacted]	32	03/05/2010	M	03/05/2010	[Redacted]	Homebred	[Redacted]			
35	[Redacted]	33	29/04/2010	M	29/04/2010	[Redacted]	Homebred	[Redacted]			
36	[Redacted]	33	24/04/2010	M	24/04/2010	[Redacted]	Homebred	[Redacted]			
37	[Redacted]	33	24/04/2010	F	24/04/2010	[Redacted]	Homebred	[Redacted]			
38	[Redacted]	33	25/04/2010	F	25/04/2010	[Redacted]	Homebred	[Redacted]			
39	[Redacted]	20	24/05/2011	M	24/05/2011	[Redacted]	Homebred	[Redacted]			
40	[Redacted]	20	25/05/2011	F	25/05/2011	[Redacted]	Homebred	[Redacted]			
41	[Redacted]	19	11/06/2011	F	11/06/2011	[Redacted]	Homebred	[Redacted]			
42	[Redacted]	19	24/06/2011	F	24/06/2011	[Redacted]	Homebred	[Redacted]			
43	[Redacted]	9	28/04/2012	M	28/04/2012	[Redacted]	Homebred	[Redacted]			
44	[Redacted]	8	09/05/2012	F	09/05/2012	[Redacted]	Homebred	[Redacted]			
45	[Redacted]	6	01/07/2012	F	01/07/2012	[Redacted]	Homebred	[Redacted]			
46	[Redacted]	6	09/07/2012	M	09/07/2012	[Redacted]	Homebred	[Redacted]			
47	[Redacted]	6	15/07/2012	M	15/07/2012	[Redacted]	Homebred	[Redacted]			
48	[Redacted]	6	16/07/2012	F	16/07/2012	[Redacted]	Homebred	[Redacted]			
49	[Redacted]	4	04/09/2012	M	04/09/2012	[Redacted]	Homebred	[Redacted]			
50	[Redacted]	4	04/09/2012	F	04/09/2012	[Redacted]	Homebred	[Redacted]			
51	[Redacted]	4	08/09/2012	M	08/09/2012	[Redacted]	Homebred	[Redacted]			
52	[Redacted]	4	24/09/2012	F	24/09/2012	[Redacted]	Homebred	[Redacted]			

calved in 2012

Female
Male
Breeding Female *

TB TESTING OF CURRENT STOCK AT [redacted]

Official I D	Birth	Sex	"ON"	Premises of Origin (Test Interval)	NH1 4/9/09	NH1 6/11/09	Post 8/6/10	Post 21/8/12	Post 24/9/12	Post 3/12/12
[redacted]		F	29/02/2012	[redacted]						√
[redacted]		F	29/02/2012	[redacted]				√ IR		
[redacted]		F	29/02/2012	[redacted]						√
[redacted]		F	29/02/2012	[redacted]				√		
[redacted]		F	29/02/2012	[redacted]				√		
[redacted]		F	29/02/2012	[redacted]						√
[redacted]		F	29/02/2012	[redacted]						√
[redacted]		F	29/02/2012	[redacted]					√	
[redacted]		F	29/02/2012	[redacted]					√	
[redacted]		F	15/03/2012	[redacted]						√
[redacted]		F	15/03/2012	[redacted]					√	
[redacted]		M	15/03/2012	[redacted]					√	
[redacted]		M	29/02/2012	[redacted]					√	
[redacted]		M	29/02/2012	[redacted]				√		
[redacted]	03/05/2008	F	15/04/2009	[redacted]	√					
[redacted]	11/05/2008	F	11/03/2010	[redacted]			√			
[redacted]	03/08/2008	F	11/03/2010	[redacted]			√			
[redacted]	28/04/2009	M	11/03/2010	[redacted]			√			
[redacted]	11/05/2009	F	11/03/2010	[redacted]			√			
[redacted]	12/05/2009	M	11/03/2010	[redacted]			√			
[redacted]	13/05/2009	F	11/03/2010	[redacted]			√			
[redacted]	16/05/2009	M	11/03/2010	[redacted]			√			
[redacted]	07/07/2009	F	11/03/2010	[redacted]			√			
[redacted]	08/07/2009	F	11/03/2010	[redacted]			√			
[redacted]	12/05/2005	F	13/12/2006	[redacted]		√				
[redacted]	13/05/2005	F	13/12/2006	[redacted]		√				
[redacted]	16/05/2005	F	13/12/2006	[redacted]		√				
[redacted]	19/05/2005	F	13/12/2006	[redacted]		√				
[redacted]	12/05/2005	F	07/06/2007	[redacted]		√				
[redacted]	10/05/2008	F	10/05/2008	Homebred (48)	√					
[redacted]	15/05/2008	F	15/05/2008	Homebred (48)	√					
[redacted]	22/05/2008	F	22/05/2008	Homebred (48)	√					
[redacted]	22/05/2008	F	22/05/2008	Homebred (48)	√					
[redacted]	21/06/2010	F	21/06/2010	Homebred (48)						
[redacted]	03/05/2010	M	03/05/2010	Homebred (48)						
[redacted]	29/04/2010	M	29/04/2010	Homebred (48)						
[redacted]	24/04/2010	M	24/04/2010	Homebred (48)						
[redacted]	24/04/2010	F	24/04/2010	Homebred (48)						
[redacted]	25/04/2010	F	25/04/2010	Homebred (48)						
[redacted]	24/05/2011	M	24/05/2011	Homebred (48)						
[redacted]	25/05/2011	F	25/05/2011	Homebred (48)						
[redacted]	11/06/2011	F	11/06/2011	Homebred (48)						
[redacted]	24/06/2011	F	24/06/2011	Homebred (48)						
[redacted]	28/04/2012	M	28/04/2012	Homebred (48)						
[redacted]	09/05/2012	F	09/05/2012	Homebred (48)						
[redacted]	01/07/2012	F	01/07/2012	Homebred (48)						
[redacted]	09/07/2012	M	09/07/2012	Homebred (48)						
[redacted]	15/07/2012	M	15/07/2012	Homebred (48)						
[redacted]	16/07/2012	F	16/07/2012	Homebred (48)						
[redacted]	04/09/2012	M	04/09/2012	Homebred (48)						√
[redacted]	04/09/2012	F	04/09/2012	Homebred (48)						√
[redacted]	08/09/2012	M	08/09/2012	Homebred (48)						√
[redacted]	24/09/2012	F	24/09/2012	Homebred (48)						√

