

Fisheries Research Services
 RECORD SHEET
 CASE SHEET (FHI)

RS No:
 Version No:
 Issued by:
 Date of Issue:

Case No: 200508782 Inspector: YMM Date of Visit: 08/07/05
 Logged in by: YMM Time spent on site: 2 1/2 hrs Date of Receipt: 07/07/05

Site No: FS0108 Site Name: Shell
 Bus No: FB0119 Business Name: Marine Harvest (Scotland) Ltd

Orders: TDN (Y/N) N Date: 1/1 Agent(s)
 DAO (Y/N) N Date: 1/1 Agent(s)
 Contact: Robert MacKenzie Telephone: 01851 880356
 Address: The Pier Fax: 01851 880448

Case type(s) eg ECI, EC2, DIA: ECS, VMD
 Reason for visit: Routine Sampling
 Reference No. (for certification work only):

Water Temp (°C): 12.3 Thermometer No: 157 FHI 045 completed:

Samples taken (tick): Virology Bacteriology Histology Parasitology
 Priority processing PCR IFAT VMD Other (specify)

Site Details
 Total No. cages/tanks: 20 No. cages/tanks stocked: 10 No. cages/tanks Inspected: 10
 Species: SAL
 Age group: 2004 Q85
 No Fish: 147,500
 Mean Fish Wt (Kg): 1.6kg
 Harvest Out Date (Site): June 2006 Next Stock Date (Site): OCT 2006

Recent disease problems/treatments/escapes: since 9/6/06, NO PROBLEMS

Observations (continue overleaf if necessary):
 Dead/weak/abnormally behaving fish present? (tick) YES NO - If yes, number -
 Clinical signs of disease observed? (tick) YES NO - If yes, detail below or on clinical score sheet
 Post mortem signs of disease present? (tick) YES NO - If yes, detail below or on clinical score sheet
Fish on site all from flodday. No problems reported or mft numbers low. 8 VMD samples taken. No sick fish seen. 0508520, 0508416, 0518025, 0518127, 0508471, 0508372, 0508216, 0508517

Case input to FHDB: 12/07/05 Insp: YMM

Inspection Report Summary	Report Date	Insp	2 nd Insp

Signed:..... (Deputy Quality Manager) Date:..... 14.2.06.....

Fisheries Research Services RECORD SHEET	FHI 031	Page 1 of 1
	Issue No	3.00
Site Records Sheet	Issued By	Sonia Morrice
	Date of this Issue:	15/02/2005

Case No: 20050872 Site No: 0108 Site Name: SHELL

Date of Visit: 05/07/05

Mortality Records

1. Mortalities observed by site staff?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
2. Mortality Records available for inspection?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
3. Recent mortality: <u>3329, since input</u>			
4. Evidence of recent increased/atypical mortalities?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
If yes, facility nos/no mortality per facility/no stock per facility/reason:			
5. Any other peaks in mortality during period checked?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
If yes, detail:			
6. Mortalities during transport recorded?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>

7. Records checked between Start Date: MAR 05 Finish Date: JULY 05

8. Inspectors Observations: _____

9. Letter of non-conformity issued (tick): 10. Records received/not received* (date/init): _____

Movement Records

1. Movement records available for inspection?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
2. Date of last inspection: <u>05/05/04</u>			
3. Are records complete and correctly entered?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
4. Are health certificates for imports available?	YES <input type="checkbox"/>	NO <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

5. Inspectors Observations: _____

6. Letter of non-conformity issued (tick): 7. Records received/not received* (date/init): _____

Registration Details

1. Registration Details checked by site representative?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
2. Changes made to details?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>

Medicines Records

1. Medicines Records available for inspection?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	N/A <input type="checkbox"/>
2. Are fish in a withdrawal period?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	

Signature of Inspector:  Signature of Site Rep: 

Continue overleaf if necessary.

* Delete as appropriate

BACTERIOLOGY FINAL REPORT

Case No.: **20050872**

Date of Visit: **06 July 2005**

Business No.: **FB0119**

Site No.: **FS0108**

Business Name: **Marine Harvest (Scotland) Ltd**

Site Name: **Shell**

Case Type: **BKD**

Inspector: **Yvonne McMurchie**

RESULT: 6 groups of pooled kidney for BKD ELISA - negative

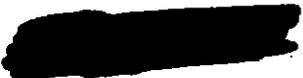
Antibiotic sensitivity profile:
(S=Sensitive, I=Intermediate, R=Resistant)

Amoxycillin:

Oxytetracycline:

Potentiated Sulphonamide:

Comments: PCR tubes discarded

Signed: 

Date: 13 July 2005

RECORD SHEET

VHS & IHN Virology Results

RS No: B 084
 Issue No: 8
 Issued by: Katrina Burnside
 Date of this issue: November 2001

Case No:	05/872	Site Name:	Skelle	Other viruses isolated:	No	VHS & IHN Results:	Negative
Inoculation date:	08/07/05	Site No.:	ES0108	Comments:		Deputy TM initials & date:	EM 22/7/05
Inspector:	YRM						

Inoculation: Primary/Repeat Page .1 of 1.

Pool No	1 st Reading						
	1 st Dil	2 nd Dil	3 rd Dil	4 th Dil	5 th Dil	6 th Dil	7 th Dil
BF-2/1	-V	CT	-V	-V	-V	-V	-V
BF-2/2	-V	↓	↓	↓	↓	↓	↓
BF-2/3	↓	CT	CT	CT	CT	CT	CT
EPC	↓	-V	-V	-V	-V	-V	-V
Initials/Date	RFE 12/07/05						
Comments							

Pool No	2 nd Reading						
	1 st Dil	2 nd Dil	3 rd Dil	4 th Dil	5 th Dil	6 th Dil	7 th Dil
BF-2/1	-V	CT	-V	-V	-V	-V	-V
BF-2/2	↓	-V	↓	↓	↓	↓	↓
BF-2/3	CT	CT	CT	CT	CT	CT	CT
EPC	-V	-V	-V	-V	-V	-V	-V
Initials/Date	LJM 13.7.05						
Comments							

Pool No	3 rd Reading						
	1 st Dil	2 nd Dil	3 rd Dil	4 th Dil	5 th Dil	6 th Dil	7 th Dil
BF-2/1	-V	C	-V	-V	-V	-V	-V
BF-2/2	↓	-V	↓	↓	↓	↓	↓
BF-2/3	CT	CT	CT	CT	CT	CT	C
EPC	-V	-V	-V	-V	-V	-V	-V
Initials/Date	LJM 15.7.05						
Comments							

Pool No	1 st Reading						
	1 st Dil	2 nd Dil	3 rd Dil	4 th Dil	5 th Dil	6 th Dil	7 th Dil
BF-2/1	-V	-V	-V	-V	-V	-V	-V
BF-2/2	↓	↓	↓	↓	↓	↓	↓
BF-2/3	↓	↓	↓	↓	↓	↓	↓
EPC	↓	↓	↓	↓	↓	↓	↓
Initials/Date	LJM 18.7.05						
Comments							

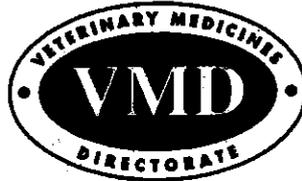
Pool No	2 nd Reading						
	1 st Dil	2 nd Dil	3 rd Dil	4 th Dil	5 th Dil	6 th Dil	7 th Dil
BF-2/1	-V	-V	-V	-V	-V	-V	-V
BF-2/2	↓	↓	↓	↓	↓	↓	↓
BF-2/3	↓	↓	↓	↓	↓	↓	↓
EPC	↓	↓	↓	↓	↓	↓	↓
Initials/Date	LJM 19.7.05						
Comments							

Pool No	3 rd Reading						
	1 st Dil	2 nd Dil	3 rd Dil	4 th Dil	5 th Dil	6 th Dil	7 th Dil
BF-2/1	-V	-V	-V	-V	-V	-V	-V
BF-2/2	↓	↓	↓	↓	↓	↓	↓
BF-2/3	↓	↓	↓	↓	↓	↓	↓
EPC	↓	↓	↓	↓	↓	↓	↓
Initials/Date	RFE 22/07/05						
Comments							

INITIAL REPLY BY PHOENIX ON 5/10/15

005/380

AM-F-061-042-00



ASSURING THE SAFETY, QUALITY AND EFFICACY
OF VETERINARY MEDICINES

Yvonne

An emamectin positive is enclosed for follow up. Maggie Greens' e-mail refers.

Stephanie

Veterinary Medicines Directorate

Woodham Lane, New Haw, Addlestone, Surrey KT15 3LS Telephone (01932) 336911 Fax (01932) 336618
Director and Chief Executive Steve Dean B.Vet.Med DVR MRCVS

The Veterinary Medicines Directorate is an Executive Agency of the Department for Environment, Food and Rural Affairs



INVESTOR IN PEOPLE

Forms returned to VMD. Following discussion with Maggie Green, follow-up was
not required as treatment & licensed product had been recorded
immediately prior to sample collection. Changes to the LMD data samples
have worked up (Ivermectin samples now screened for an avermectins) and
generated the positive result.

Charles Allen 1/1/15



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0508471

To **FRS**

Please collect in

June

the following sample and send to **Laboratory of the Government Chemist**

Place of sampling **Any Suitable Farm**

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only

Please use black ink and BLOCK letters

Please record full details of sample:

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
66	SHELL	0108	0119

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks: UMD0060341.02

Name of collecting officer in BLOCK letters please

YVONNE MCMURCHIE



Date of collection

06/07/05

Date of despatch to Lab.

12/7/5

For Laboratory use ONLY

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Ivermectin	-ve			
	NLdes	19/9/05		
2. Emamectin	+ve		+ve	110µg/kg
	NLdes	19/9/05	NLdes	19/9/05
3.				
	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.



Setting standards
in analytical science

Certificate of Analysis

Report number: FA20/05/137

CUSTOMER:

Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey, KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference (RIM Form Number)	Sample Type	LGC LIMS Number
0508471	Salmon muscle	V0508471

ANALYSIS REQUIRED:

Enamectin B1a

METHOD(S) USED:

Duplicate samples were extracted with acetonitrile. Extracts were cleaned up by alumina chromatography followed by solid phase extraction using C18 cartridges. Samples were dried at 50°C under nitrogen and re-suspended in 1ml of acetonitrile.

Samples were quantified against the spiked matrix curve. Analytical recovery is determined by comparing the slope of this curve and that of matrix-matched standards (post-extraction spikes).



Setting standards
in analytical science

ANALYTICAL RESULTS:

Sample Number	Description	Test	Confirmed Result ug/kg
V0508471	Salmon muscle	Emamectin 1B _a	110

REPORT DATE: 19 September 2005

Report prepared by:



**Anna Pålsson
Veterinary Residues Team, LGC**

Date: 19 September 2005

Report authorised by:



**Selina Teixeira
Veterinary Residues Team, LGC**

Date: 19 September 2005

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

THE FOOD SAFETY ACT 1990
THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR
RESIDUES AND MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS
AMENDED)

(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE

To.....

of.....

Reference analysis of the official sample described below has confirmed that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in box 10 overleaf.

Signature of analyst Date 19 September 2005

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) ANNA PÁLSSON

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0508471
2. Sample type and amount	Muscle, not known
3. Date of collection	06 07 2005
4. Method of collection	Not Known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	Various
9. Primary analysis result	Positive
10. Laboratory Ref. No.	V0508471

NOTES

You have the right to challenge the result of the primary analysis indicated in box 9 above. A challenge must be made in writing to the authorised officer at the official address indicated below within a period of seven days from receipt of the primary analysis certificate.

On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority:

Authorised Officer:

Address:

.....

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
DEPARTMENT
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

THE FOOD SAFETY ACT 1990
THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR
RESIDUES AND MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS
AMENDED)

(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE

To.....

of.....

Primary analysis of the official sample described below has shown that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in box 9 overleaf

Signature of analyst Date 19 September 2005

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) ANNA PÅLSSON

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0508471
2. Sample type and amount	Muscle, not known
3. Date of collection	06 07 2005
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Emamectin B1a
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive
10. Reference analysis result	110 µg/kg
11. Laboratory Ref. No.	V0508471

Enforcement authority:

Authorised Officer:

Address:

.....

Charles Allan

From: Charles Allan
Sent: 05 October 2005 16:15
To: Yvonne McMurchie
Subject: Emamectin positive follow-up at Shell A

Yvonne

You will have an e-mail from Maggie regarding a request for a follow-up to an Emamectin positive result at Shell A. Ignore it. I have dealt with it whilst you have been away.

The sample collected was for Ivermectin, however, all ivermectin samples are now routinely screened for avermectins. There was no surprise that Shell A tested positive for Emamectin, given that they had finished a SLICE treatment the week before. I have explained this to VMD and they are content that the positive is not followed up, given the circumstances.

The screening for avermectins came about as a result of concern over unlicensed emamectins being imported and used to treat fish illegally. This is not considered to be the case in this instance.

It may be one to discuss with VMD at Christmas time.

Happy to discuss further if required.

Charles

01/11/2005

Fisheries Research Services RECORD SHEET CASE SHEET (FHI)	RS No: Version No: Issued by: Date of Issue:	Page 1 of 1 FHI 001 15 Sonia Morrice 26/05/2005
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Case No: 2005 1263 Inspector: MOS Date of Visit: 3/11/5
 Logged in by: MOS Time spent on site: 3 1/2 hrs Date of Receipt: 4/11/5

Site No: FS0691 Site Name: Hoy A
 Bus No: FB0125 Business Name: Scottish Sea Farms Ltd

Orders: TDN (Y/N) N Date: 1/1 Agent(s) /
 DAO (Y/N) W Date: 1/1 Agent(s) /
 Contact: David Brown Telephone: 01595 690341
 Address: Sand Fax: 01595 860309

Case type(s) eg ECI, EC2, DIA: VMD
 Reason for visit: SAMPLE
 Reference No. (for certification work only): _____

Water Temp (°C): 10.8 Thermometer No: 1172 FHI 045 completed:

Samples taken (tick): Virology Bacteriology Histology Parasitology
 Priority processing PCR IFAT VMD Other (specify)

Site Details
 Total No. cages/tanks: 9 No. cages/tanks stocked: 9 No. cages/tanks Inspected: 5
 Species: A. SAL.
 Age group: MOS 05 04 50
 No Fish: 279 170
 Mean Fish Wt (Kg): 1.7 Kg
 Harvest Out Date (Site): Sept 06 Next Stock Date (Site): MAR 07

Recent disease problems/treatments/escapes: NO OXYTET IN MAROS SLICE (last July) / NO

Observations (continue overleaf if necessary):
 Dead/weak/abnormally behaving fish present? (tick) YES NO - If yes, number -
 Clinical signs of disease observed? (tick) YES NO - If yes, detail below or on clinical score sheet
 Post mortem signs of disease present? (tick) YES NO - If yes, detail below or on clinical score sheet

20 VMD FROM 5 FISH. NO HEALTH PROBSOR PREDATOR PROBS SOME FISH MOVED TO HDY (0481) SITE TO RUN AS PART OF SSF 'CATCHMENT' AREA IE CURRENT MA SPLIT INTO 2 1x 815 and 1x 5 1/2.

Case input to FHDB: 4/11/5 Insp: MOS

Inspection Report Summary	Report Date	Insp	2 nd Insp

Signed: (Deputy Quality Manager) Date:

Fisheries Research Services RECORD SHEET	RS No: Version No: Issued by: Date of issue	Page 1 of 1 FHI 031 3 Sonia Morrice February 2005
	Site Records Sheet	

Case No: 9005 1263 Site No: 0691 Site Name: H21 A

Date of Visit: 3 / 11 / 05

Mortality Records

1. Mortalities observed by site staff?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
2. Mortality Records available for inspection?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> N/A <input type="checkbox"/>
3. Recent mortality: <u>UPD FTK/UTH / SITE</u>		
4. Evidence of recent increased/atypical mortalities?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
If yes, facility nos/no mortality per facility/no stock per facility/reason:		
5. Any other peaks in mortality during period checked?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
If yes, detail: <u>SEE UPD: 3 TR/MTH, SURFED PD + 2 UNB CALLED</u>		
6. Mortalities during transport recorded?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> N/A <input type="checkbox"/>

7. Records checked between Start Date: FEB 05 Finish Date: NOV 05

8. Inspectors Observations: _____

9. Letter of non-conformity issued (tick): 10. Records received/not received* (date/init): _____

Movement Records

1. Movement records available for inspection?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
2. Date of last inspection: <u>21/2/5 DJP</u>		
3. Are records complete and correctly entered?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
4. Are health certificates for imports available?	YES <input type="checkbox"/>	NO <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

5. Inspectors Observations: _____

6. Letter of non-conformity issued (tick): 7. Records received/not received* (date/init): _____

Registration Details

1. Registration Details checked by site representative?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
2. Changes made to details?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Medicines Records

1. Medicines Records available for inspection?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> N/A <input type="checkbox"/>
2. Are fish in a withdrawal period?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>

Signature of Inspector:  Signature of Site Rep: 

Continue overleaf if necessary.

* Delete as appropriate

Fisheries Research Services RECORD SHEET	FHI 005	Page 1 of 2
	Issue No	15.00
Field Samples Sheet	Issued By	Sonia Morrice
	Date of this issue:	05/08/2005

Case no: 2005 1263 Site no: 0691 Site name: H04 A
 Date of visit: 3/11/15 Time sampling started (use 24hr clock) 13:00

Environmental conditions INDOORS

Sample details								
Fish No	Pool No	Species	Average age/wt (g/kg)	Sex (M/F)	SW/FW	Origin	Cage/Ta No	
1	/	A-SAL	04 1/2 2.1kg	/	SW	Ladlabah, KLD	3	
2							K Corrie klar	4
3								5
4								7
5								8

Continuation sheets used (Y/N): N State number of continuation sheets used: 0

Molecular Genetics (Fish/Pool nos, eg 1-6)				Bacteriology (Fish/Pool nos, specify)				
ISA/ VHS/ IHN/ SDV/ SPDV/ Noda/ SVC/ IPN*	SRS/KHV/Aqua*	TSA	TSA + NaCl	A&O	MHCA	SRS ELISA	BKD ELISA	BP PC

Histopathology			Immunodiag.		VMD
General (Fish nos)	BON/MAR (No of OED)	Gyrodactylus (Fish nos)	ISA IFAT (Fish nos)	Other (Specify)	No of Samples
					20
					10:00

Virology (Pool nos, eg 1-6)					Other (Specify)
ISA	VHS/IHN	IPN	SPDV/ SDV*	Other (Specify)	Fish/Pool nos (Specify)

*Delete as required

Condition of samples on receipt (Initial appropriate box):

Satisfactory MS Not satisfactory (Complete FHI 002)

Please write any additional information overleaf.



FISHERIES RESEARCH SERVICES

To:	[REDACTED]	From:	Sonia Morrice
Address:	Scottish Sea Farms, Shetland	Tel:	01224 295635
Country:		Our Ref:	AH-FF-061-042-007
Fax No:	01595 860309	Date:	27 June 2006
Copy To: (And Fax No)		No of Pages:	3

Message:

Dear [REDACTED]

As requested, attached is a copy of the Certificate of Analysis for the Emamectin samples from Sound of Hoy.

Regards

[REDACTED]



Setting standards
in analytical science

Commercial in Confidence

SOUND OF HOY

FS0691

Certificate of Analysis

Report number: FA20/06/28

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey, KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference (RIM Form Number)	Sample Type	LGC LIMS Number
0518169	Salmon muscle	V0518169
0518170	Salmon muscle	V0518170
0518171	Salmon muscle	V0518171
0518172	Salmon muscle	V0518172

ANALYSIS REQUIRED:

Enamectin B1a

METHOD(S) USED:

LGC Method Screen - VMD/C1-2015 Confirmation - VMD/C1-3015

Duplicate samples were extracted with acetonitrile. Extracts were cleaned up by alumina chromatography followed by solid phase extraction using C18 cartridges. Samples were dried at 50°C under nitrogen and re-suspended in 1ml of acetonitrile.

Samples were quantified against the spiked matrix curve. Analytical recovery is determined by comparing the slope of this curve and that of matrix-matched standards (post-extraction spikes).

The detection capability (CC β) was calculated as 120 μ g/kg in salmon muscle on the day of analysis.

LGC, Queens Rd, Teddington,
Middlesex, TW11 0LY

Report No: FA20/06/28
Page 1 of 2

O:\MAFFVMD\POSITIVE\REPORTS 2004 ONWARDS\VERMECTINS\V0518169-V0518170-V0518171-V0518172.doc

The results relate only to the items tested.
The test report shall not be reproduced except in full, without written approval of LGC Limited.



Setting standards
in analytical science

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ANALYTICAL RESULTS:

Sample Number	Description	Test	Confirmed Result ug/kg
V0518169	Salmon muscle	Emamectin B _{1a}	120
V0518170	Salmon muscle	Emamectin B _{1a}	110
V0518171	Salmon muscle	Emamectin B _{1a}	100
V0518172	Salmon muscle	Emamectin B _{1a}	110

REPORT DATE: 2 March 2006

Report prepared by:



Deborah Hart
Veterinary Residues Team, LGC

Date: 2 March 2006

Report authorised by:



Selina Teixeira
Veterinary Residues Team, LGC

Date: 2 March 2006

Sonia Morrice

From: Sonia Morrice
Sent: 09 March 2006 16:25
To: Maggie Green (Maggie Green)
Subject: Emamectin in salmon

Hi Maggie

I received the paperwork for the emamectin positives from Steph. All four related to the same site - Hoy A, belonging to Scottish Sea Farms. I have checked our case record for the visit. Mike Bland visited on the 3rd November and checked the medicines records. It is noted on the case sheet that a Slice treatment had been administered in July. I have spoken to the site contact who has confirmed that the site was treated for Slice in July (8-14th) and again in October (22 - 29th). I suspect that the latest treatment had not been entered in the treatment record (otherwise Mike would have noted it) - however we can not be certain. It is now in the record, a copy of which is to be faxed to me. The fish are still on site - harvesting has not started yet but is due to start in April.

I plan to send the results out by post. Please let me know if you wish us to take any further action.

With regard to the queries you passed to Steph - inspectors always check medicines records prior to collecting VMD samples. If the treatment record indicates fish are in withdrawal for a residue we were to test for we do not take samples for that residue. However, as Slice has a zero withdrawal (although perhaps this needs re-assessed) we would currently take samples immediately following treatment (this would apply to any other treatment with a zero withdrawal). Also, if a specific residue is on the form we would take samples for other residues not mentioned specifically - we were not instructed that Ivermectin samples would also be tested for emamectin ie we would have taken these samples even if the fish were in the middle of a Slice treatment.

I was not sure exactly what you meant regarding the following comment:

did the sampling
> officer check the medicine records? The results would suggest that
> they didn't as otherwise they would know emamectin had been used
> rather than ivermectin. Ideally we need to know what product was used and when the fish were slaughtered.

As mentioned above, inspectors always check medicine records prior to taking VMD samples. Are you meaning above that we should assume that Ivermectin has not been used if Slice has been? In the past we would not make this assumption - however, now that the forms are for Avermectins rather than Ivermectin we should not have this problem.

If you have any queries on the above please let me know. Also, we perhaps need some updated guidance if you do not want us to take samples immediately following treatment. It may also be useful to have a list of residues that will be tested for under each residue we sample for.

Regards

Sonia

Sonia Morrice
Senior Fish Health Inspector
Fisheries Research Services
PO Box 101
375 Victoria Road
Aberdeen AB11 9DB

Tel +44 (0) 1224 295635
Fax +44 (0) 1224 295620
Mob + 44 07775 818282
s.morrice@marlab.ac.uk
www.marlab.ac.uk

Fisheries Research Services is an agency of the Scottish Executive.

HS0691

009/104

Treatment

Period : 01/07/2005 - 27/02/2006

Superior Control - © AKVA smart ASA Licence #: 0044-002-0230-00286 Scottish Sea Farms Shetland

Date: 08/03/2006 Page: 1

Fish group #	Date	Type of treatment	Amount (l. or kg)	Period		Quarantine	Comment	
				Start	End			
0001	0403.001	08/07/2005	Slice	6.73	08/07/2005	14/07/2005	14/07/2005	
0001	04AB.012	22/10/2005	Slice	1.36	22/10/2005	29/10/2005	29/10/2005	
0002	0403.002	08/07/2005	Slice	6.25	08/07/2005	14/07/2005	14/07/2005	
0002	0403.006	22/10/2005	Slice	1.06	22/10/2005	29/10/2005	29/10/2005	
0003	0402.001	08/07/2005	Slice	6.75	08/07/2005	14/07/2005	14/07/2005	
0003	04AC.002	22/10/2005	Slice	1.72	22/10/2005	29/10/2005	29/10/2005	
0004	0401.001	08/07/2005	Slice	13.30	08/07/2005	14/07/2005	14/07/2005	
0004	04AC.003	22/10/2005	Slice	1.02	22/10/2005	29/10/2005	29/10/2005	
0005	0401.002	08/07/2005	Slice	12.24	08/07/2005	14/07/2005	14/07/2005	
0005	0403.003	22/10/2005	Slice	1.89	22/10/2005	29/10/2005	29/10/2005	
0006	0401.003	08/07/2005	Slice	10.33	08/07/2005	14/07/2005	14/07/2005	
0007	0402.002	08/07/2005	Slice	7.38	08/07/2005	14/07/2005	14/07/2005	
0007	0403.004	22/10/2005	Slice	1.48	22/10/2005	29/10/2005	29/10/2005	
0008	0404.001	08/07/2005	Slice	6.74	08/07/2005	14/07/2005	14/07/2005	
0008	04AB.013	22/10/2005	Slice	1.97	22/10/2005	29/10/2005	29/10/2005	
0009	0405.001	08/07/2005	Slice	5.91	08/07/2005	14/07/2005	14/07/2005	
0009	0405.004	22/10/2005	Slice	0.97	22/10/2005	29/10/2005	29/10/2005	
0010	0405.002	08/07/2005	Slice	6.88	08/07/2005	14/07/2005	14/07/2005	
0010	0405.003	22/10/2005	Slice	1.05	22/10/2005	29/10/2005	29/10/2005	
0011	04AB.014	22/10/2005	Slice	1.34	22/10/2005	29/10/2005	29/10/2005	
0012	0401.013	22/10/2005	Slice	2.25	22/10/2005	29/10/2005	29/10/2005	
0013	0401.014	22/10/2005	Slice	1.62	22/10/2005	29/10/2005	29/10/2005	
0014	04AB.010	22/10/2005	Slice	1.78	22/10/2005	29/10/2005	29/10/2005	
0015	04AB.007	22/10/2005	Slice	1.28	22/10/2005	29/10/2005	29/10/2005	
0016	04AB.006	22/10/2005	Slice	1.85	22/10/2005	29/10/2005	29/10/2005	
0017	04AB.008	22/10/2005	Slice	1.88	22/10/2005	29/10/2005	29/10/2005	
0018	04AB.009	22/10/2005	Slice	1.12	22/10/2005	29/10/2005	29/10/2005	
0019	0401.011	22/10/2005	Slice	1.24	22/10/2005	29/10/2005	29/10/2005	
0020	0401.012	22/10/2005	Slice	1.91	22/10/2005	29/10/2005	29/10/2005	

Hay treatment details.

F.A.O Sonia Morrice.

01226 295 620



Setting standards
in analytical science

Commercial in Confidence

Certificate of Analysis

Report number: FA20/06/28

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey, KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference (RIM Form Number)	Sample Type	LGC LIMS Number
0518169	Salmon muscle	V0518169
0518170	Salmon muscle	V0518170
0518171	Salmon muscle	V0518171
0518172	Salmon muscle	V0518172

ANALYSIS REQUIRED:

Emamectin B1a

METHOD(S) USED:

LGC Method Screen - VMD/C1-2015 Confirmation - VMD/C1-3015

Duplicate samples were extracted with acetonitrile. Extracts were cleaned up by alumina chromatography followed by solid phase extraction using C18 cartridges. Samples were dried at 50°C under nitrogen and re-suspended in 1ml of acetonitrile.

Samples were quantified against the spiked matrix curve. Analytical recovery is determined by comparing the slope of this curve and that of matrix-matched standards (post-extraction spikes).

The detection capability (CC β) was calculated as 120 μ g/kg in salmon muscle on the day of analysis.

LGC, Queens Rd, Teddington,
Middlesex, TW11 0LY

Report No: FA20/06/28
Page 1 of 2

O:\MAFF\VMD\POSITIVE\REPORTS 2004 ONWARDS\AVERMECTINS\V0518169-V0518170-V0518171-V0518172.doc

The results relate only to the items tested.
The test report shall not be reproduced except in full, without written approval of LGC Limited.

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
DEPARTMENT
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

THE FOOD SAFETY ACT 1990
THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR
RESIDUES AND MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS
AMENDED)

(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE

To.....
of..... *Scottish Sea Farms Ltd.*.....

Primary analysis of the official sample described below has shown that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.
as indicated in box 9 overleaf

Signature of analyst.....Date 2 March 2006

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) DEBORAH HART

Official address Queens Road, Teddington, Middlesex, TW11 0LY

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SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
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NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

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AMENDED)

(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE

To.....

of..... SCOTISH SEA FARMS LTD

Reference analysis of the official sample described below has confirmed that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

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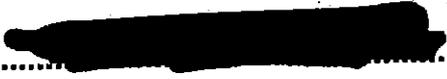
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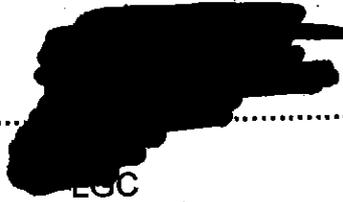
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Official address : Queens Road, Teddington, Middlesex, TW11 0LY

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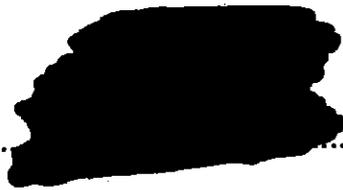
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An approved laboratory for the purposes of the Regulations.

Name (in block letters) DEBORAH HART

Official address Queens Road, Teddington, Middlesex, TW11 0LY



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0518169

September

To **FRS**

Please collect in

the following sample and send to

Laboratory of the Government Chemist

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
7	H01 A	0691	0125

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks: **um0056855 08**

Name of collecting officer in BLOCK letters please

MIRE BUND

Date of collection

3-11-5

Date of despatch to Lab.

07/11/05



0518169

For Laboratory use ONLY

8/11/05 08

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Ivermectin	+ve .Emmamectin		120µg/kg	
	A. Ranawake	02/03/06	A. Ranawake	02/03/06
2.	Name	Date	Name	Date
3.	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0518170

To **FRS**

Please collect in

September

the following sample and send to

Laboratory of the Government Chemist

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
5	H01 A	0691	0125

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

VMD0056871 82

Name of collecting officer in BLOCK letters please

MURIE BLAND

Date of collection

3.11.5

Date of despatch to Lab.

07/11/05



0518170

For Laboratory use ONLY

8/11/05 82

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Ivermectin	Positive for Emamectin		110 µg/kg	
	A. Ranaoaki	02/03/06	A. Ranaoaki	02/03/06
2.	Name	Date	Name	Date
3.	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0518171

To **FRS**

Please collect in

September

the following sample and send to

Laboratory of the Government Chemist

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
4	HTDA	0691	0125

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary Medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

UMD00086866 RQ

Name of collecting officer in BLOCK letters please

MIKE BLAND

Date of collection

3.11.5

Date of despatch to Lab.

07/11/05



0518171

For Laboratory use ONLY

8/11/05 (1900)

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Ivermectin	Positive for Emamectin		100mg/kg	
	A. Kanawake	02/03/06	A. Kanawake	02/03/06
2.				
	Name	Date	Name	Date
3.				
	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0518172

To **FRS**

Please collect in

September

the following sample and send to

Laboratory of the Government Chemist

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
3	HOYA	0691	0125

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

VMD0056895 82

Name of collecting officer in BLOCK letters please

MIKE BLAND

Date of collection

3-11-5

Date of despatch to Lab.

07/11/05



0518172

For Laboratory use ONLY

8/11/05 82

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Ivermectin	Positive for Emamectin		At 06/03/06 100 µg/kg 110	
	A. Ranaokata	06/03/06	A. Ranaokata	06/03/06
2.	Name	Date	Name	Date
3.	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

Johnston S (Sandra) (MARLAB)

From: Yvonne McMurchie
Sent: 08 March 2006 09:42
To: Sonia Morrice
Subject: FW: Salmon emamectin

For you I Think!

Yvonne

-----Original Message-----

From: Hunt, Stephanie [mailto:s.hunt@vmd.defra.gsi.gov.uk]
Sent: 08 March 2006 09:40
To: Yvonne@FRS (E-mail)
Subject: FW: Salmon emamectin

Yvonne

The paperwork for these 4 positives will be sent off today. Could you check on those areas as noted by Maggie in her e-mail below?

Thanks
Steph

> -----Original Message-----

> **From:** Green, Maggie
> **Sent:** 07 March 2006 12:59
> **To:** Hunt, Stephanie
> **Cc:** Rubidge, Janet
> **Subject:** RE: Salmon emamectin

>

> Steph,

>

> Slice which contains emamectin has a zero withdrawal period. I
> suspect these fish were not going to be harvested immediately. We
> need to remind FRS to check the medicines records before sampling so
> they don't sample fish that have just been treated. Hopefully now we
> have 'avermectins' on the RIM forms instead of 'ivermectin' this type
> of problem will not occur in future.

>

> However, there was some intelligence about a year to 18 months ago
> that farmers were using products containing this active that aren't
> authorised in the UK. Can you speak to or e-mail FRS about the
> possibility of illegal medicines being used i.e. did the sampling
> officer check the medicine records? The results would suggest that
> they didn't as otherwise they would know emamectin had been used
> rather than ivermectin. Ideally we need to know what product was used and when the fish were
slaughtered.

> If FRS feel they need to do a follow-up visit to get this information
> that's OK but I don't think we need further samples taken.

>

> Regards,

>

> Maggie.

Johnston S (Sandra) (MARLAB)

From: Green, Maggie [m.green@vmd.defra.gsi.gov.uk]
Sent: 28 March 2006 11:25
To: 'Sonia Morrice'
Subject: RE: Enamectin in salmon

Sonia,

Yes please.

Regards,

Maggie

-----Original Message-----

From: Sonia Morrice [mailto:S.Morrice@marlab.ac.uk]
Sent: 28 March 2006 08:07
To: 'Green, Maggie'
Subject: RE: Enamectin in salmon

Hi Maggie

I can ask the farm for a copy of the Veterinary Instruction if that would help?

Sonia

From: Green, Maggie [mailto:m.green@vmd.defra.gsi.gov.uk]
Sent: 27 March 2006 11:41
To: 'Sonia Morrice'
Cc: Rubidge, Janet; [REDACTED] Crutcher, Eric
Subject: RE: Enamectin in salmon

Sonia,

Thanks for the information on when the sampling was carried out in relation to the treatment with SLICE. If the residue was in excess of the MRL in the fish on 3 November then a nil withdrawal period would appear to be inadequate. I am copying in our colleagues in our Suspect Adverse Reaction Scheme and also our licensing Branch. Can you confirm that it was SLICE being used and not an imported generic treatment. I know that FRS inspectors had previously found an emamectin treatment from China on one site.

Regards,

Maggie

-----Original Message-----

From: Sonia Morrice [mailto:S.Morrice@marlab.ac.uk]
Sent: 21 March 2006 08:00
To: 'Green, Maggie'
Subject: RE: Enamectin in salmon

Hi Maggie

Thanks for the clarification. Maybe we're cynical up here but if I was using an illegal lice treatment I might try to cover it up by using a legal one as well!

However, now that there is an effective legal treatment for lice I would think that use of Ivermectin has reduced.

Re the Hoy samples. Treatment with Slice was between 22 and 29 October 2005 and the samples were taken on 3 November.

The list you mention would be appreciated.

Thanks

Sonia

From: Green, Maggie [mailto:m.green@vmd.defra.gsi.gov.uk]
Sent: 17 March 2006 18:27
To: 'Sonia Morrice'
Cc: Rubidge, Janet; Hunt, Stephanie
Subject: RE: Emamectin in salmon

Dear Sonia,

Many thanks for the e-mail. Its good to see that medicine records are being checked before samples are taken. I don't think there is any further action required for these results. I will flag up the withdrawal period issue with our SARS section and it would be helpful to know what treatment date is on the record that was faxed to you for the fish that tested positive.

I realise that having ivermectin on the RIM1 form was misleading and as you know this has been rectified for this year. As far as the comment I sent Stephanie is concerned my understanding is that Slice is a treatment for sea lice and ivermectin is used illegally for the same purpose. If that is the case, is there any reason why a farmer would be using both emamectin and ivermectin? Obviously we rely on FRS officers expertise when they select farms for sampling. Since the use of ivermectin is illegal any sample requests need to be targeted at those farms where use is most likely. If FRS consider that its use has reduced then we don't need to be analysing so many samples for these residues.

Happy to provide a list of what is included in each test. I have copied this to Janet who can provide a copy of the printout of the EU plan which has all the substances listed.

Regards,

Maggie

-----Original Message-----

From: Sonia Morrice [mailto:S.Morrice@marlab.ac.uk]
Sent: 09 March 2006 16:25
To: Maggie Green (Maggie Green)
Subject: Emamectin in salmon

Hi Maggie

I received the paperwork for the emamectin positives from Steph. All four related to the same site - Hoy A, belonging to Scottish Sea Farms. I have checked our case record for the visit. Mike Bland visited on the 3rd November and checked the medicines records. It is noted on the case sheet that a Slice treatment had been administered in July. I have spoken to the site contact who has

confirmed that the site was treated for Slice in July (8-14th) and again in October (22 - 29th). I suspect that the latest treatment had not been entered in the treatment record (otherwise Mike would have noted it) - however we can not be certain. It is now in the record, a copy of which is to be faxed to me. The fish are still on site - harvesting has not started yet but is due to start in April.

I plan to send the results out by post. Please let me know if you wish us to take any further action.

With regard to the queries you passed to Steph - inspectors always check medicines records prior to collecting VMD samples. If the treatment record indicates fish are in withdrawal for a residue we were to test for we do not take samples for that residue. However, as Slice has a zero withdrawal (although perhaps this needs re-assessed) we would currently take samples immediately following treatment (this would apply to any other treatment with a zero withdrawal). Also, if a specific residue is on the form we would take samples for other residues not mentioned specifically - we were not instructed that Ivermectin samples would also be tested for emamectin ie we would have taken these samples even if the fish were in the middle of a Slice treatment.

I was not sure exactly what you meant regarding the following comment:

did the sampling
> officer check the medicine records? The results would suggest that
> they didn't as otherwise they would know emamectin had been used
> rather than ivermectin. Ideally we need to know what product was used and when the fish were slaughtered.

As mentioned above, inspectors always check medicine records prior to taking VMD samples. Are you meaning above that we should assume that Ivermectin has not been used if Slice has been? In the past we would not make this assumption - however, now that the forms are for Avermectins rather than Ivermectin we should not have this problem.

If you have any queries on the above please let me know. Also, we perhaps need some updated guidance if you do not want us to take samples immediately following treatment. It may also be useful to have a list of residues that will be tested for under each residue we sample for.

Regards

Sonia

Sonia Morrice
Senior Fish Health Inspector
295635
Fisheries Research Services
295620
PO Box 101
818282
375 Victoria Road

Tel +44 (0) 1224
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www.marlab.ac.uk

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Veterinary Medicines Directorate (VMD)

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Johnston S (Sandra) (MARLAB)

From: Sonia Morrice
Sent: 28 March 2006 11:29
To: [REDACTED]@scottishseafarms.com
Subject: Slice treatment at Sound of Hoy

H [REDACTED]

Thanks for sending down the treatment records for Sound of Hoy. I have another request as a follow up. Would it be possible to fax down a copy of the Veterinary Instruction for the Slice treatment?

Thanks

Sonia

Sonia Morrice
Senior Fish Health Inspector
Fisheries Research Services
PO Box 101
375 Victoria Road
Aberdeen AB11 9DB

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Fax +44 (0) 1224 295620
Mob + 44 07775 818282
s.morrice@marlab.ac.uk
www.marlab.ac.uk

Fisheries Research Services is an agency of the Scottish Executive.

Johnston S (Sandra) (MARLAB)

From: Green, Maggie [m.green@vmd.defra.gsi.gov.uk]
Sent: 02 May 2006 11:59
To: O'Brien, John
Cc: Rubidge, Janet; [REDACTED]; Crutcher, Eric; [REDACTED] 'Sonia Morrice'
Subject: Emamectin residues in salmon

Dear John,

As part of the 2005 NSS programme, salmon on a site in Scotland were tested for residues of avermectins. The fish contained residues of emamectin above the MRL of 100ug/kg at concentrations between 110 and 120ug/kg.

Slice, the product that was used, has a zero withdrawal period and according to the Fisheries Research Services the fish were treated between 22-29 October and sampled on 3 November. This means that despite a five day gap between the last treatment and sampling the fish contained residues in excess of the MRL.

Please let me know if you would like us to do anything further.

Regards,

Maggie

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Johnston S (Sandra) (MARLAB)

From: Green, Maggie [m.green@vmd.defra.gsi.gov.uk]
Sent: 22 May 2006 09:08
To: 'Sonia Morrice'
Subject: RE: Avermectin samples - Slice treatments

Thanks,

Maggie

-----Original Message-----

From: Sonia Morrice [mailto:S.Morrice@marlab.ac.uk]
Sent: 22 May 2006 07:55
To: 'Green, Maggie'
Subject: RE: Avermectin samples - Slice treatments

Thanks for your response. The draft SLA should go to Charles.

Sonia

From: Green, Maggie [mailto:m.green@vmd.defra.gsi.gov.uk]
Sent: 17 May 2006 13:10
To: 'Sonia Morrice'
Cc: Crutcher, Eric; Rubidge, Janet
Subject: RE: Avermectin samples - Slice treatments

Sonia,

Thank you for the e-mail concerning sampling for avermectins. The object of the surveillance programme is two fold:

- i) to detect illegal use of medicines
- ii) to ensure that withdrawal periods have been observed when animals go for slaughter.

Looking at point two above, if Fish Health Inspectors know that fish are under withdrawal and they are not due to be slaughtered then there is little point in sampling them. It could be argued that for fish which are treated with products which have an MRL, samples should be taken at the processing unit since it is the only way that you can prove they didn't contain residues in excess of the MRL when they were going to enter the food chain. However, this has been raised before and we have decided to continue sampling at the farm level for the time being.

My advice would therefore be not to sample if the fish are under treatment and this would apply to any authorised veterinary medicine.

Regarding the use of Slice and the possible issue regarding withdrawal times I am awaiting comment from our Licensing division. Will update you when I have further information.

Can I check with you whether I should send you or Charles a draft of a Service Level Agreement?

Regards,

Maggie

-----Original Message-----

From: Sonia Morrice [mailto:S.Morrice@marlab.ac.uk]
Sent: 16 May 2006 09:11
To: Maggie Green (Maggie Green)
Subject: Avermectin samples - Slice treatments

Hi Maggie

I have had a couple of queries from inspectors as to how to proceed at the moment with Avermectin samples. As we are now aware that the withdrawal time may not be accurate there are likely to be some positive results if we continue to sample as normal. Do you want us to continue taking Avermectin samples from farms which are treating or have recently treated with Slice?

There are two points in particular which were raised, arguing both ways! Firstly, if we continue to sample as normal it could provide more evidence for the need to review the withdrawal period. Secondly, if we continue to sample as normal we could have positive results which are not necessarily the farmers fault as they are following the guidelines issued. I'm not sure how this could impact on farms as a positive result could cause problems with buyers.

Finally, is there any plan to issue a statement regarding the issue? Although it is unlikely that farms would treat immediately prior to a harvest it is a possibility. As Slice is an in feed treatment most farms would automatically have a minimum five day withdrawal due to starving prior to harvest.

I would appreciate your thoughts on the above.

Regards

Sonia

Sonia Morrice
Senior Fish Health Inspector
Fisheries Research Services
PO Box 101
375 Victoria Road
Aberdeen AB11 9DB

Tel +44 (0) 1224 295635
Fax +44 (0) 1224 295620
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s.morrice@marlab.ac.uk
www.marlab.ac.uk

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Johnston S (Sandra) (MARLAB)

From: Charles Allan
Sent: 09 June 2006 09:30
To: Sonia Morrice
Subject: RE: Emamectin positive

Sonia

Can you let me know her response, actions taken by FRS or actions taken by other agencies if no action is required of FRS.

Thanks

Charles

From: Sonia Morrice
Sent: 09 June 2006 09:11
To: Charles Allan
Subject: RE: Emamectin positive

I shall clarify with Maggie as in a previous e-mail she stated that she was copying the correspondence to their suspect adverse reaction group and licencing group.

Sonia

From: Charles Allan
Sent: 09 June 2006 08:52
To: Sonia Morrice
Subject: RE: Emamectin positive

Sonia

That is not what Maggie Green intimated to me.

Charles

From: Sonia Morrice
Sent: 09 June 2006 08:27
To: Charles Allan
Subject: RE: Emamectin positive

It was my understanding that VMD were going to complete this form and report it.

Sonia

From: Charles Allan
Sent: 08 June 2006 09:01
To: Sonia Morrice
Subject: Emamectin positive

Sonia

I had a conversation with Maggie Green with regard to the emamectin positive which was generated 'recently'. Given that SLICE has no withdrawal period it should not have tested positive. It was her opinion

that this qualifies as an adverse reaction and should be reported as such.

This should be done using an adverse reaction report form available on the VMD website.

Please discuss this with me once you have the form and before you dispatch it.

Thanks

Charles

Johnston S (Sandra) (MARLAB)

From: Charles Allan
Sent: 12 June 2006 11:48
To: Sonia Morrice
Subject: RE: Emamectin - suspect adverse reaction

Sonia

Now that we have clarification, can you deal with it.

Cheers

Charles

From: Sonia Morrice
Sent: 09 June 2006 14:58
To: Charles Allan
Subject: FW: Emamectin - suspect adverse reaction

Clarification!

From: Green, Maggie [mailto:m.green@vmd.defra.gsi.gov.uk]
Sent: 09 June 2006 14:56
To: 'Sonia Morrice'
Cc: Crutcher, Eric; Rubidge, Janet
Subject: RE: Emamectin - suspect adverse reaction

Sonia,

We need the officer who took the sample to complete the form which is available on the VMD website under the heading 'General', select Adverse reactions, select forms, select the first form and use the one for animals. If the officer can complete as much of the form as possible and put a note in the comments box to say the fish tested positive although the withdrawal period had been observed and then send it to the VMD it will be logged on the system and we can raise it with the company concerned.

Many thanks,

Maggie

(Janet, please can this e-mail go on the emamectin positives folder).

-----Original Message-----

From: Sonia Morrice [mailto:S.Morrice@marlab.ac.uk]
Sent: 09 June 2006 09:18
To: Maggie Green (Maggie Green)
Subject: Emamectin - suspect adverse reaction

Hi Maggie

Charles mentioned that he was speaking to you about the recent Emamectin positive. I just wanted to clarify the situation regarding reporting this as a suspect adverse reaction. Charles thought you wanted us to report it, but in your e-mail of 27 March you said you were copying the correspondence to the SARS group.

Do you want us to complete the form or has this already been reported?

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(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE

To.....

of.....

Primary analysis of the official sample described below has shown that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in box 9 overleaf

Signature of analyst  Date: 24 June 2009

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) NICOLA COLES

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0909538
2. Sample type and amount	Muscle, not known
3. Date of collection	14 05 09
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive Emamectin
10. Laboratory Ref. No.	V0909538

NOTES

You have the right to challenge the result of the primary analysis indicated in box 9 above. A challenge must be made in writing to the authorised officer at the official address indicated below within a period of seven days from receipt of the primary analysis certificate.

On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority:

Authorised Officer:

Address:

.....

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To.....

of.....

Reference analysis of the official sample described below has confirmed that
it contains a residue of:

- d) an authorised substance at a concentration exceeding the
relevant maximum residue limit.

as indicated in box 10 overleaf.

Signature of analyst.....Date: 24 June 2009

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) LOUISE CLIFFORD

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0909538
2. Sample type and amount	Muscle, not known
3. Date of collection	14 05 09
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive Emamectin
10. Reference analysis result	210 µg/kg
11. Laboratory Ref. No.	V0909538

Enforcement authority:

Authorised Officer:

Address:

.....

Johnston S (Sandra) (MARLAB)

From: Sonia Duguid
Sent: 03 July 2009 09:31
To: 'Rubidge, Janet'
Cc: Yvonne McMurchie; David Fraser; Charles Allan; Daniel Pendrey
Subject: Rim sample 0909538 - Enamectin positive

Hi Janet

I received the paperwork for the above sample. I note from the letter that you do not require further samples to be taken. I was wondering why no follow up samples are to be taken this time? While the site has not started harvesting yet, it is due to start in the next few weeks. I would have thought that they would need a negative test prior to commencing harvesting?

I can confirm that from the case sheet for the visit the sample was taken on that the fish had been treated with Slice, finishing on 1st May. The site is due to be visited again within the next couple of weeks and the investigation will be carried out then.

I was going to post out the A and B report forms to the Business - is this okay?

Regards

Sonia

Sonia Duguid

Senior Fish Health Inspector
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 876544
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Fax: +44 (0)1224 295620
e: s.duguid@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

Johnston S (Sandra) (MARLAB)

From: Hunt, Stephanie [s.hunt@vmd.defra.gsi.gov.uk]
Sent: 10 July 2009 11:15
To: Yvonne McMurchie
Cc: Sonia Duguid; Sandra Johnston
Subject: 0316

Hello Yvonne

I have 16 generated forms ready to send for targetting (I'll send on Monday 13th). Half of the forms are marked 'duplicate' and we will instruct the Lab not to test these. Otherwise there should be enough forms to take two samples per cage. If you could let us know when the Lab might expect them it would be helpful.

Thanks
Stephanie
Residues Surveillance
Tel: 01932 338329

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Johnston S (Sandra) (MARLAB)

From: Rubidge, Janet [j.rubidge@vmd.defra.gsi.gov.uk]
Sent: 10 July 2009 11:33
To: Sonia Duguid
Subject: RE: Out of Office AutoReply: Rim sample 0909538 - Enamectin positive

Sonia: Slight amendment to earlier e mail. We do not need restrictions at this stage apparently. They will only be placed if any of the follow-up samples also confirm non-compliant.

We will need to know if the fish move cages or sites.

Janet Rubidge

From: Sonia Duguid [mailto:S.Duguid@MARLAB.AC.UK]
Sent: 10 July 2009 09:55
To: Rubidge, Janet
Subject: Out of Office AutoReply: Rim sample 0909538 - Enamectin positive

I am currently unable to respond to your email. If your request is urgent, then please redirect your mail to fishhealth@marlab.ac.uk or telephone the reception on 01224 876544 and ask for the Duty Inspector. If your enquiry relates to access to information, then please redirect your email to enquiries@marlab.ac.uk or telephone 01224 876544. To help us help you, please include 'FOI' in the subject of your email.

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Report for Veterinary Medicines Directorate (VMD) – follow up investigation following positive samples attained on a fish farm site for emamectin benzoate (active ingredient of SLICE)

Introduction

In reference to positive samples being attained for emamectin benzoate above the Maximum Residue Limit (MRL) (sample ref's 0927638 and 0927639) at the site known as Bagh Dall Nan Cean (Marine Scotland ref. FS0805) a follow-up investigation on site was conducted on the 8th of February 2010. The following is a brief report on the investigation's findings -

Report

Inspectors present – Daniel J Pendrey and Andrew S Mayes
Company representative for Lakeland Marine Farm Ltd (Marine Scotland ref. FB0349) – Iain Webster

The positive samples were attained from Atlantic salmon (*Salmo salar*) in cages three and six. The inspectors were informed that these cages had not been harvested or moved since the positive samples had been taken. The fish on site should all be harvested by late summer 2010.

Medicine records were being kept and maintained correctly. The marketing authorisations in place for SLICE were PMF 01310050 and PMF 01310051 as recorded in the treatment record. A SLICE treatment was recorded as having been administered between the 13th of November 2009 and the 19th of November 2009. All cages on site were recorded as having been treated during these dates and at that time the fish were approximately 3Kg average weight and had been input to the site late in 2008.

The substance was administered as an in-feed treatment and the Veterinary Instruction (VI) was available for the treatment. However, the VI for the site appeared to have been supplemented by a proportion of the VI allocation for another of the company's sites known as Ardmaddy PMF ref. 01310050.

The treatment was reportedly administered within the seven day period for which SLICE is to be given. The medicated feed was reportedly stored in feed hoppers and stored correctly.

Additional information

The inspectors present were informed that due to fish health issues on site the original plan to feed the fish with SLICE was put back. As a consequence the company made a decision to transfer some of the VI treatment allocation from another site. Based on the numbers on site and the average weights it was estimated by the inspectors that the biomass on site at the time of treatment was below the biomass against which the VI was given.

In summary, it appears there has been a miscalculation by the company with regard to the biomass to be treated. Therefore, a higher dosage of active ingredient was administered with the likely result being the substance tested for being above the MRL.

DJP and ASM 18th February 2010



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REFERENCE ANALYSIS CERTIFICATE

To..........

of..... LAKELAND MARINE FARM LIMITED.....

Reference analysis of the official sample described below has confirmed that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in box 10 overleaf.

Signature of analyst.....Date 12 January 2010

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) TULAY D'SILVA

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0927638
2. Sample type and amount	Muscle, not known
3. Date of collection	23 11 09
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive (Emamectin)
10. Reference analysis result	170 µg/kg
11. Laboratory Ref. No.	V0927638

Enforcement authority: ..MARINE SCOTLAND SCIENCE.....

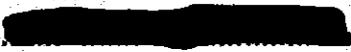
Authorised Officer: ..SONIA D. G. G. [REDACTED].....

Address: ..MARINE SCOTLAND SCIENCE, MARINE LABORATORY
 ..ABERDEEN, 375 VICTORIA RD, ABERDEEN.....

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To.....

of..... LAKELAND MARINE FARM LIMITED

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as indicated in box 9 overleaf

Signature of analyst..........Date 12 January 2010

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) TULAY D'SILVA

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0927638
2. Sample type and amount	Muscle, not known
3. Date of collection	23 11 09
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive(Emamectin)
10. Laboratory Ref. No.	V0927638

NOTES

You have the right to challenge the result of the primary analysis indicated in box 9 above. A challenge must be made in writing to the authorised officer at the official address indicated below within a period of seven days from receipt of the primary analysis certificate.

On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority: MARINE SCOTLAND SCIENCE.....

Authorised Officer: SONIA J. DUGUID, [REDACTED].....

Address: MARINE SCOTLAND SCIENCE, MARINE LABORATORY
 ABERDEEN, 375 VICTORIA ROAD, ABERDEEN.....

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REFERENCE ANALYSIS CERTIFICATE

To..... 

of..... LAKELAND MARINE FARM LIMITED

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- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in box 10 overleaf.

Signature of analyst Date 12 January 2010

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) TULAY D'SILVA

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0927639
2. Sample type and amount	Muscle, not known
3. Date of collection	23 11 09
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive (Emamectin)
10. Reference analysis result	230 µg/kg
11. Laboratory Ref. No.	V0927639

Enforcement authority: MARINE SCOTLAND SCIENCE.....

Authorised Officer: SONIA J. DUGLO [REDACTED].....

Address: MARINE SCOTLAND SCIENCE, MARINE LABORATORY.....

ABERDEEN, 375 VICTORIA RD, ABERDEEN.....

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SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
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- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.
as indicated in box 9 overleaf

Signature of analyst Date 12 January 2010

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) TULAY D'SILVA

Official address Queens Road, Teddington, Middlesex, TW11 0LY

1. Sample Reference No.	0927639
2. Sample type and amount	Muscle, not known
3. Date of collection	23 11 09
4. Method of collection	Not known
5. Species and sex	Salmon, not known
6. Age (months) approx.	Not known
7. Tested for	Avermectins
8. Relevant Maximum residue limit (if applicable)	100 µg/kg
9. Primary analysis result	Positive(Emamectin)
10. Laboratory Ref. No.	V0927639

NOTES

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On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority: MARINE SCOTLAND SCIENCE

Authorised Officer: SONIA J. DUGUID

Address: MARINE SCOTLAND SCIENCE, MARINE LABORATORY ABERDEEN, 375 VICTORIA RD, ABERDEEN

VMD:11310A

From: Mrs J Rubidge
Veterinary Medicines Directorate
GTN 3046 Ext 8328
Fax 01932 336618
29 June 2009

To: Mrs S Duguid
FRS Marine Laboratory

cc:

RIM SAMPLE 0909538

The RIM Sample above has confirmed non-compliant for a residue of Emamactin at a concentration of 210ug/kg.

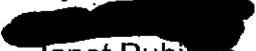
In accordance with the usual policy with non-compliant samples we would be grateful if you could arrange a follow-up visit to the source of this sample and conduct an investigation into the cause of this residue. The investigation should include an inspection of the site's medicine records.

I am enclosing a copy of the sampling form and the analytical report forms A & B. The forms should be given to the farmer/site owner as part of the investigation.

We would be grateful if we could have a copy of the report on this investigation when it is complete.

We do not require any further samples to be taken as part of this investigation.

If you have any queries on this please do not hesitate to contact me.


Janet Rubidge



Setting standards
in analytical science

Certificate of Analysis

Report number: FA20/09/174

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey, KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference (RIM Form Number)	Sample Type	LGC LIMS Number
0909538	Salmon, muscle	V0909538

ANALYSIS REQUIRED:

Avermectins

METHOD(S) USED:

Duplicate samples were extracted with acetonitrile. Extracts were cleaned up by alumina chromatography followed by solid phase extraction using C18 cartridges. Samples were dried at 50°C under nitrogen and re-suspended in 1ml of 50:50 0.15% acetic acid H₂O: methanol.

Samples were quantified against the spiked matrix curve. Analytical recovery is determined by comparing the slope of this curve and that of matrix-matched standards (post-extraction spikes).



Setting standards
in analytical science

ANALYTICAL RESULTS:

Sample Number	Description	Test	Confirmed Result ng/kg
V0909538	Salmon, muscle	Avermectins	210 (Emamectin)

REPORT DATE: 24 June 2009

Report prepared by:


Nicola Coles
Veterinary Residues Team, LGC

Date: 24 June 2009

Report authorised by:


Liam Gormley
Head Veterinary Residues, LGC

Date: 24 June 2009

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
DEPARTMENT
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

THE FOOD SAFETY ACT 1990
THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR
RESIDUES AND MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS
AMENDED)

(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE

To.....

of.....

Primary analysis of the official sample described below has shown that it contains a residue of:

- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.
as indicated in box 9 overleaf

Signature of analyst  Date: 24 June 2009

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) NICOLA COLES

Official address Queens Road, Teddington, Middlesex, TW11 0LY

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS
DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

THE FOOD SAFETY ACT 1990
THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR
RESIDUES AND MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS
AMENDED)

(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE

To.....

of.....

Reference analysis of the official sample described below has confirmed that
it contains a residue of:

- d) an authorised substance at a concentration exceeding the
relevant maximum residue limit.

as indicated in box 10 overleaf.

Signature of analyst  Date: 24 June 2009

Analyst at LGC
An approved laboratory for the purposes of the Regulations.

Name (in block letters) LOUISE CLIFFORD

Official address Queens Road, Teddington, Middlesex, TW11 0LY



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0909538

To **FRS**

Please collect in **April**

the following sample and send to **LGC**

Place of sampling **Any Suitable Farm**

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
5	Setter Joe	0316	0377

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks: **Um D0226606 8**

Name of collecting officer in BLOCK letters please **PAUL MCKAY**



Date of collection **14/5/09**

Date of despatch to Lab. **18/5/9**

For Laboratory use ONLY

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectins	AVE Emarectin		AVE Emarectin	
			210ug/kg	
	[Redacted]	11/6/9	[Redacted]	24/6/9
2.				
3.				

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

RIM 8 (Rev. 2/01)

Johnston S (Sandra) (MARLAB)

From: Daniel Pendrey
Sent: 31 July 2009 09:01
To: Sonia Duguid
Subject: FW: VMD National Surveillance Scheme
Attachments: VMD.pdf

Hi Sonia

[REDACTED] got the wrong end of the stick with this one. I discussed the fact that we took samples for not onlt emamectin etc.

Danny

From: [REDACTED]@talk21.com [mailto:[REDACTED]@talk21.com]
Sent: 21 July 2009 22:15
To: Daniel Pendrey
Cc: [REDACTED]; [REDACTED]
Subject: VMD National Surveillance Scheme

Danny

I write with regard to the VMD surveillance scheme results, copy attached, and note that the result is negative contrary to what Sonia advised recently. Is there any need for further sampling for VMD in light of this lab report.

Regards

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ASSURING THE SAFETY, QUALITY AND EFFICACY
OF VETERINARY MEDICINES

FB/0377
[REDACTED]

Printed: 14/07/2009

Skelda Salmon Farms Ltd
Gilbraes Hus
Twatt
Bixter
Shetland
ZE2 9LX

Dear Sir/Madam

NATIONAL SURVEILLANCE SCHEME RESULTS

I am writing to inform you of the test results for the samples collected at your fish farm as part of the Veterinary Medicines Directorate's (VMD) statutory surveillance programme for residues of veterinary medicines and contaminants. Under the programme, Fish Health Inspectors collect samples on the VMD's behalf from fish farms in GB.

The attached table sets out what your fish samples have been tested for and whether any of the tests were positive. Where a residue has been detected above permitted limits ("a positive"), additional information on the substance found is given on a separate page.

Please do not hesitate to contact me if you would like to discuss your results or receive further information on the programme.

Yours faithfully

[REDACTED]

Sandra Russell
Operations Manager - Residues Surveillance

Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Telephone (01932) 336911 Fax (01932) 336618
Director and Chief Executive Steve Dean B.Vet. Med DVR MRCVS

The Veterinary Medicines Directorate is an Executive Agency of the Department for Food, Environment and Rural Affairs



INVESTOR IN PEOPLE



VMD National Surveillance Scheme

FB/0377

Results Report For Year 2009 From Date 15/06/2009

Setter Voe (0316)

RIM No	Analysis	Matrix	Species	Result
0909490	Antimicrobial screen :	Muscle	Salmon	Negative
0909491	Antimicrobial screen :	Muscle	Salmon	Negative

Totals: 2

14/07/2009

Page 1 of 1

Johnston S (Sandra) (MARLAB)

From: Yvonne McMurchie
Sent: 17 August 2009 10:36
To: Sonia Duguid
Subject: FW: Target samples

Hi Sonia

I haven't been able to get hold of [REDACTED] yet to notify him of the negative result – could you try him this week?

Thanks

Yvonne

From: Russell, Sandra [mailto:s.russell@vmd.defra.gsi.gov.uk]
Sent: 17 August 2009 09:15
To: Yvonne McMurchie
Subject: RE: Target samples

Hi Yvonne

Unfortunately not, we only received paperwork from the Lab when a result is 'non-compliant', otherwise we received an e-mail from the Lab confirming they are compliant.

Kind regards

Sandra

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 14 August 2009 15:50
To: Russell, Sandra; Hunt, Stephanie
Subject: RE: Target samples

Hi Sandra / Steph

Sorry I forgot to ask – will we get a written report detailing the samples and results?

Yvonne

From: Russell, Sandra [mailto:s.russell@vmd.defra.gsi.gov.uk]
Sent: 12 August 2009 11:12
To: Yvonne McMurchie
Cc: Hunt, Stephanie
Subject: RE: Target samples

Hi Yvonne

We are happy for you to advise the farmer and we will also need an investigation report from yourselves following your visit.

Hope this helps

Sandra

From: Hunt, Stephanie
Sent: 12 August 2009 11:07
To: 'Yvonne McMurchie'
Cc: Russell, Sandra
Subject: RE: Target samples

Yvonne

I have to admit that I have no idea as Janet who is on holiday at the moment ususally deals with fish investigations and letter writing. I've copied Sandra in on this e-mail who may be able to shed some light.

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 12 August 2009 10:59
To: Hunt, Stephanie
Subject: RE: Target samples

Hi Steph,

Thanks for letting us know – do we need to do anything else at this end? Will the results go out to the farmer from you?

Yvonne

From: Hunt, Stephanie [mailto:s.hunt@vmd.defra.gsi.gov.uk]
Sent: 12 August 2009 10:51
To: Sonia Duguid
Cc: Yvonne McMurchie; Sandra Johnston
Subject: Target samples

Hello Sonia

Just to let you know that the Lab have looked at the target samples for avermectins and they have screened negative.

Regards
Stephanie
Residues Surveillance
Tel: 01932 338329

Veterinary Medicines Directorate (VMD)

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For more information please visit <http://www.messagelabs.com/email>

Johnston S (Sandra) (MARLAB)

From: Rubidge, Janet [j.rubidge@vmd.defra.gsi.gov.uk]
Sent: 13 October 2009 09:15
To: Sonia Duguid
Subject: RE: Rim sample 0909538 - Enamectin positive

Sonia: Have you any news on the follow-up visit regarding this sample. The VRC are meeting this week and would be useful to have some feedback to give them.

Janet Rubidge

From: Sonia Duguid [mailto:S.Duguid@MARLAB.AC.UK]
Sent: 03 July 2009 09:31
To: Rubidge, Janet
Cc: Yvonne McMurchie; David Fraser; Charles Allan; Daniel Pendrey
Subject: Rim sample 0909538 - Enamectin positive

Hi Janet

I received the paperwork for the above sample. I note from the letter that you do not require further samples to be taken. I was wondering why no follow up samples are to be taken this time? While the site has not started harvesting yet, it is due to start in the next few weeks. I would have thought that they would need a negative test prior to commencing harvesting?

I can confirm that from the case sheet for the visit the sample was taken on that the fish had been treated with Slice, finishing on 1st May. The site is due to be visited again within the next couple of weeks and the investigation will be carried out then.

I was going to post out the A and B report forms to the Business - is this okay?

Regards

Sonia

Sonia Duguid

Senior Fish Health Inspector
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB.

Tel: +44 (0)1224 876544
S/B: +44 (0)1224 295635
Mob: +44 (0)7775 818282
Fax: +44 (0)1224 295620
e: s.duguid@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

Veterinary Medicines Directorate (VMD)

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21/08/2012

Johnston S (Sandra) (MARLAB)

From: Daniel Pendrey
Sent: 24 November 2009 11:18
To: Sonia Duguid
Subject: RE: Setter Voe report on Emmamectin positive

Hi Sonia

I cannot remember but almost certainly I did not report anything to VMD. I was not aware anything was required. Can easily put something together on your return.

Danny

From: Sonia Duguid
Sent: 20 November 2009 07:54
To: Daniel Pendrey
Subject: Setter Voe report on Emmamectin positive

Hi Danny

Did you do a report for VMD from the follow up visit you did to Setter Voe? If not, would you be able to draft something - happy to help.

cheers

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
Mob:+44 (0)7775 818282
Fax: +44 (0)1224 295620
e: s.duguid@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Rubidge, Janet [<mailto:j.rubidge@vmd.defra.gsi.gov.uk>]
Sent: 19 November 2009 09:44
To: Sonia Duguid
Subject: Emmamectin positive

Sonia: We had a brief report on the salmon sample that was non-compliant for emmamectin but do you have a full report please we can see.

There is a VRC meeting in December and this may well be raised.

Thanks

Janet Rubidge

Veterinary Medicines Directorate (VMD)

21/08/2012

C10/027



ASSURING THE SAFETY, QUALITY AND EFFICACY OF VETERINARY MEDICINES

Mrs S Duguid
Marine Scotland
The Marine Laboratory
PO Box 101
Victoria Road
Aberdeen
AB11 9DB

Direct dial: 01932 338328
E-mail: j.rubidge@vmd.defra.gsi.gov.uk
Your Ref:
Our Ref: VMD 11310A
Date: 18 January 2010

Dear Mrs Duguid.

Please see attached paperwork for 2 samples that have confirmed non-compliant for residues of Avermectin.

RIM 0927638 taken from Cage/Pen 6 at Bagh Dail Nan Caen on 23rd November 2009 -
Emmamectin 170ug/kg
and
RIM 0927639 taken from Cage/Pen 3 at Bagh Dail Nan Caen on 23rd November 2009 -
Emmamectin 230ug/kg.

We would be grateful if you could arrange for a follow-up investigation to be carried out into the cause of these residues. As we are aware that there have been residues in the past when fish have been apparently correctly treated with the authorised product "Slice" we would suggest that particular attention be paid to the medicine records relating to the treatment of these ponds.

On this occasion we have decided that further follow-up samples are not required.

We would be grateful for a copy of the written report on this investigation once it is completed.

If you have any queries on this please do not hesitate to contact me.



Janet Rubidge (Mrs)
Residues Surveillance





**Setting standards
in analytical science**

Commercial in Confidence

Certificate of Analysis

Report number: FA20/10/11

CUSTOMER: **Veterinary Medicines Directorate**
Woodham Lane, New Haw, Addlestone, Surrey, KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference (RIM Form Number)	Sample Type	LGC LIMS Number
0927638	Salmon, muscle	V0927638
0927639	Salmon, muscle	V0927639

ANALYSIS REQUIRED:

Avermectins

METHOD(S) USED:

Duplicate samples were extracted with acetonitrile. Extracts were cleaned up by alumina chromatography followed by solid phase extraction using C18 cartridges. Samples were dried at 50°C under nitrogen and re-suspended in 1ml of 50:50 0.15% acetic acid H₂O: methanol.

Samples were quantified against the spiked matrix curve. Analytical recovery is determined by comparing the slope of this curve and that of matrix-matched standards (post-extraction spikes).



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ANALYTICAL RESULTS:

Sample Number	Description	Test	Confirmed Result ug/kg
V0927638	Salmon, muscle	EMAMECTIN	170
V0927639	Salmon, muscle	EMAMECTIN	230

REPORT DATE: 12 January 2010

Report prepared by:



**Tulay D'Silva
Veterinary Residues Team, LGC**

Date: 12 January 2010

Report authorised by:



**Deborah Hart
Veterinary Residues Team, LGC**

Date: 12 January 2010



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0927638

To

FRS

Please collect in

November

the following sample and send to

LGC

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
6	BAGH DAIL NAN CEAN	0805	0349

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

UM00205242 α

Name of collecting officer in BLOCK letters please

M PATERSON

Date of collection

23/11/09

Date of despatch to Lab.

1/12/09



0927638

For Laboratory use ONLY

Date of receipt at LGC	Sample condition		
2/12/09 α			
'Test for'	Screening	Confirmatory	
1. Avermectins	the Emamectin	Emamectin = 140ng/kg 12/11/09	
	Name	Date	Name
2.			
	Name	Date	Name
3.			
	Name	Date	Name

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

0927639

To **FRS**

Please collect in **November**

the following sample and send to **LGC**

Place of sampling **Any Suitable Farm**

Sample type	Species type
Muscle	Salmon Any

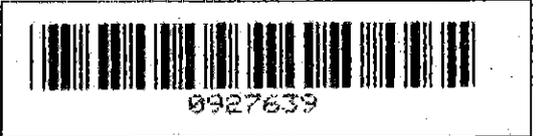
For use by Collecting Officer only
 Please record full details of sample: **Please use black ink and BLOCK letters**

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
3	BAGH DAIL NAN CEAN	0805 ---	0349 ---

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks: UMD0205240 02

Name of collecting officer in BLOCK letters please **M PATERSON**



Date of collection **23/11/09**

Date of despatch to Lab. **1/12/09**

For Laboratory use ONLY

Date of receipt at LGC	2/12/09 02	Sample condition		
'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectins	Emmectin ME	23/11/09	Emmectin ME	23/11/09
2.				
3.				

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

RIM 8 (Rev. 2/01)

Hunt, Stephanie

From: Lesley Redmond [Lesley.Redmond@lgc.co.uk]
Sent: 12 January 2010 14:13
To: Hunt, Stephanie
Cc: ██████████ Greenwood, Vincent (FSA), ██████████
Subject: Confirmed positives

Good afternoon,

The following have confirmed positive for Avermectins.

0927638
0927639

The original documents are in the post.

Kind regards
Lesley.

Mrs Lesley Redmond
Administrator
Veterinary Residues Lab.
LGC, Queens Rd, Teddington, TW110LY
Tel: +44(0)20 8943 7492
Fax: +44(0)20 8943 7599 Web: www.lgc.co.uk

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Johnston S (Sandra) (MARLAB)

From: Yvonne McMurchie
Sent: 14 July 2009 08:48
To: Sonia Duguid
Subject: FW: 0316

Hi Sonia

Danny and Andy are in Shetland next week – they could pick this up on the Thursday – they are going to setter voe to do the monthly ISA inspection then anyway.

Yvonne

From: Hunt, Stephanie [mailto:s.hunt@vmd.defra.gsi.gov.uk]
Sent: 10 July 2009 11:15
To: Yvonne McMurchie
Cc: Sonia Duguid; Sandra Johnston
Subject: 0316

Hello Yvonne

I have 16 generated forms ready to send for targetting (I'll send on Monday 13th). Half of the forms are marked 'duplicate' and we will instruct the Lab not to test these. Otherwise there should be enough forms to take two samples per cage. If you could let us know when the Lab might expect them it would be helpful.

Thanks
Stephanie
Residues Surveillance
Tel: 01932 338329

Veterinary Medicines Directorate (VMD)

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Johnston S (Sandra) (MARLAB)

From: Sonia Duguid
Sent: 03 July 2009 13:12
To: Yvonne McMurchie; David Fraser; Charles Allan; Daniel Pendrey
Subject: FW: Rim sample 0909538 - Enamectin positive

Hiya

Charles pointed out that I hadn't included which site this was! It was Setter Voe (FS0316). I have spoken to [REDACTED] to inform him of the result.

Sonia

Sonia Duguid

Senior Fish Health Inspector
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 876544
S/B: +44 (0)1224 295635
Mob: +44 (0)7775 818282
Fax: +44 (0)1224 295620
e: s.duguid@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Sonia Duguid
Sent: 03 July 2009 09:31
To: 'Rubidge, Janet'
Cc: Yvonne McMurchie; David Fraser; Charles Allan; Daniel Pendrey
Subject: Rim sample 0909538 - Enamectin positive

Hi Janet

I received the paperwork for the above sample. I note from the letter that you do not require further samples to be taken. I was wondering why no follow up samples are to be taken this time? While the site has not started harvesting yet, it is due to start in the next few weeks. I would have thought that they would need a negative test prior to commencing harvesting?

I can confirm that from the case sheet for the visit the sample was taken on that the fish had been treated with Slice, finishing on 1st May. The site is due to be visited again within the next couple of weeks and the investigation will be carried out then.

I was going to post out the A and B report forms to the Business - is this okay?

Regards

Sonia

Sonia Duguid

Senior Fish Health Inspector
Marine Scotland – Science

21/08/2012

Johnston S (Sandra) (MARLAB)

From: Yvonne McMurchie
Sent: 09 July 2009 13:38
To: Sonia Duguid
Subject: FW: 0361

FYI – sorry forgot to copy you in!

From: Yvonne McMurchie
Sent: 08 July 2009 13:14
To: 'Hunt, Stephanie'
Subject: RE: 0361

Hi Steph

The site has eight stocked cages. At the last visit on 17th June these were at an average weight of 2.3kg and are due to start being harvested in august. Can I just check with you the site number though – I thought the samples came from Setter voe which is site number 0316 not 0361? Site number 0361 is a site called Sian Bay?

Yvonne

From: Sandra Johnston
Sent: 08 July 2009 11:50
To: Yvonne McMurchie
Subject: FW: 0361

Hi Yvonne,
Can you help Steph.
Thanks
S

Sandra Johnston
Fish Health Inspectorate Administrator
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375, Victoria Road | Aberdeen AB11 9DB

Tel: +44 (0)1224 295525
S/B: +44 (0)1224 876544
Fax: +44 (0)1224 295620
e: johnstons@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Hunt, Stephanie [<mailto:s.hunt@vmd.defra.gsi.gov.uk>]
Sent: 08 July 2009 11:04
To: Sandra Johnston
Cc: Sonia Duguid
Subject: 0361

Hello Sandra

Rim 0909538 has confirmed positive for ememectin - taken from 0361. We need to take some target samples - can you tell me how many tanks/ponds there are?

21/08/2012

Johnston S (Sandra) (MARLAB)

From: Daniel Pendrey
Sent: 14 July 2009 09:53
To: Yvonne McMurchie
Cc: Sonia Duguid; Amanda Walker
Subject: RE: 0316 setter

Thanks Yvonne

For whoever goes please get them to also conduct the ISA inspection for the month, and to look out for any gross path in the fish sampled as I'm sure they would.

I'll be on ALV.

Danny

From: Yvonne McMurchie
Sent: 14 July 2009 09:30
To: Daniel Pendrey; Sonia Duguid
Subject: FW: 0361

We can probably assume from this that it will be next week before anyone is required to go

From: Hunt, Stephanie [mailto:s.hunt@vmd.defra.gsi.gov.uk]
Sent: 14 July 2009 09:28
To: Yvonne McMurchie
Cc: Sonia Duguid; Russell, Sandra
Subject: RE: 0361

Hi Yvonne

Sandra is out till Thursday but we should be able to give you an answer by the end of the week. In the meantime I have asked the Lab about turnaround times.

Thanks
Steph

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 14 July 2009 09:19
To: Russell, Sandra; Hunt, Stephanie
Cc: Sonia Duguid
Subject: RE: 0361

Hi Sandra / Steph

We have an inspector scheduled to visit the Setter Voe site on 30 July as part of our routine ISA inspection work. This would mean that the samples could be with the lab on Tuesday 4 Aug. As the site may start harvesting that week will this be sufficient time for analysis? If not it would be possible to send an inspector to Shetland specifically do take the samples either later this week or next week. Please advise when you would like these samples taken by.

Thanks

Yvonne

From: Russell, Sandra [mailto:s.russell@vmd.defra.gsi.gov.uk]
Sent: 10 July 2009 08:13
To: Hunt, Stephanie; Yvonne McMurchie
Cc: Sonia Duguid
Subject: RE: 0361

Yvonne/Steph

The original letter did state that no more samples were needed, however, after an e-mail from Sonia I looked into this further and it does now seem appropriate that follow up samples should be taken, especially, as Sonia stated that they are due to harvest soon.

Hope this helps

Sandra

From: Hunt, Stephanie
Sent: 10 July 2009 07:03
To: 'Yvonne McMurchie'
Cc: Russell, Sandra
Subject: RE: 0361

Yvonne
I'll check with Sandra this morning and confirm.
Regards
Steph

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 09 July 2009 13:42
To: Hunt, Stephanie
Cc: Sonia Duguid
Subject: FW: 0361

Hi again Steph

I just wanted to check with you – Sonia said that the letter she got with the results from this site indicated that follow up samples weren't being requested. She had queried this with Janet but not sure if she has had reply yet but I take it from your request that it is intended to take more samples?

Thanks

Yvonne

From: Sandra Johnston
Sent: 08 July 2009 11:50
To: Yvonne McMurchie
Subject: FW: 0361

Hi Yvonne,
Can you help Steph.
Thanks
S

Sandra Johnston
Fish Health Inspectorate Administrator
Marine Scotland – Science

21/08/2012

Scottish Government | Marine Laboratory, PO Box 101 | 375, Victoria Road | Aberdeen AB11 9DB

Tel: +44 (0)1224 295525
S/B: +44 (0)1224 876544
Fax: +44 (0)1224 295620
e: johnstons@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Hunt, Stephanie [<mailto:s.hunt@vmd.defra.gsi.gov.uk>]
Sent: 08 July 2009 11:04
To: Sandra Johnston
Cc: Sonia Duguid
Subject: 0361

Hello Sandra

Rim 0909538 has confirmed positive for ememectin - taken from 0361. We need to take some target samples - can you tell me how many tanks/ponds there are?

Thanks
Stephanie
Residues Surveillance
Tel: 01932 338329

Veterinary Medicines Directorate (VMD)

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Johnston S (Sandra) (MARLAB)

From: Yvonne McMurchie
Sent: 16 July 2009 09:00
To: Sonia Duguid
Cc: Amanda Walker
Subject: FW: 0361

Hi Sonia

As VMD are not going to prevent the site harvesting anyway is it worth spending the extra money to send someone up for the day next week when Danny is scheduled to go on 30th July?

Yvonne

From: Russell, Sandra [mailto:s.russell@vmd.defra.gsi.gov.uk]
Sent: 16 July 2009 08:53
To: Yvonne McMurchie; Hunt, Stephanie
Cc: Sonia Duguid
Subject: RE: 0361

Hi Yvonne

It is not our intention to put a movement restriction on the fish, so they can go ahead and harvest. With regard to the samples, we should have a result within a week of these being taken and dependent on what is found we will then decide what action (if any) to take.

Kind regards

Sandra

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 14 July 2009 09:19
To: Russell, Sandra; Hunt, Stephanie
Cc: Sonia Duguid
Subject: RE: 0361

Hi Sandra / Steph

We have an inspector scheduled to visit the Setter Voe site on 30 July as part of our routine ISA inspection work. This would mean that the samples could be with the lab on Tuesday 4 Aug. As the site may start harvesting that week will this be sufficient time for analysis? If not it would be possible to send an inspector to Shetland specifically do take the samples either later this week or next week. Please advise when you would like these samples taken by.

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Sent: 10 July 2009 08:13
To: Hunt, Stephanie; Yvonne McMurchie
Cc: Sonia Duguid
Subject: RE: 0361

Yvonne/Steph

21/08/2012

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Hope this helps

Sandra

From: Hunt, Stephanie
Sent: 10 July 2009 07:03
To: 'Yvonne McMurchie'
Cc: Russell, Sandra
Subject: RE: 0361

Yvonne
I'll check with Sandra this morning and confirm.
Regards
Steph

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 09 July 2009 13:42
To: Hunt, Stephanie
Cc: Sonia Duguid
Subject: FW: 0361

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Thanks

Yvonne

From: Sandra Johnston
Sent: 08 July 2009 11:50
To: Yvonne McMurchie
Subject: FW: 0361

Hi Yvonne,
Can you help Steph.
Thanks
S

Sandra Johnston
Fish Health Inspectorate Administrator
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375, Victoria Road | Aberdeen AB11 9DB

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e: johnstons@marlab.ac.uk
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From: Hunt, Stephanie [mailto:s.hunt@vmd.defra.gsi.gov.uk]
Sent: 08 July 2009 11:04
To: Sandra Johnston
Cc: Sonia Duguid
Subject: 0361

Hello Sandra

Rim 0909538 has confirmed positive for ememectin - taken from 0361. We need to take some target samples - can you tell me how many tanks/ponds there are?

Thanks
Stephanie
Residues Surveillance
Tel: 01932 338329

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Johnston S (Sandra) (MARLAB)

From: Russell, Sandra [s.russell@vmd.defra.gsi.gov.uk]
Sent: 16 July 2009 10:56
To: Yvonne McMurchie
Cc: Sonia Duguid; Hunt, Stephanie
Subject: RE: 0361

Thank you for the clarification

Sandra

From: Yvonne McMurchie [mailto:Y.McMurchie@MARLAB.AC.UK]
Sent: 16 July 2009 10:48
To: Russell, Sandra
Cc: Sonia Duguid; Hunt, Stephanie
Subject: RE: 0361

Hi Sandra

As the site can go ahead with harvests we will take the samples at the time of the programmed ISA inspection visit on 30th July rather than send someone up to Shetland next week. The samples should therefore be with the lab the week beginning 3rd August.

Yvonne

From: Russell, Sandra [mailto:s.russell@vmd.defra.gsi.gov.uk]
Sent: 16 July 2009 08:53
To: Yvonne McMurchie; Hunt, Stephanie
Cc: Sonia Duguid
Subject: RE: 0361

Hi Yvonne

It is not our intention to put a movement restriction on the fish, so they can go ahead and harvest. With regard to the samples, we should have a result within a week of these being taken and dependent on what is found we will then decide what action (if any) to take.

Kind regards

Sandra

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Sent: 14 July 2009 09:19
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21/08/2012

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Stephanie
Residues Surveillance
Tel: 01932 338329

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Johnston S (Sandra) (MARLAB)

From: Yvonne McMurchie
Sent: 16 October 2009 11:26
To: Sonia Duguid
Subject: FW: RIM 0909538

I have filed this in objective as well

From: Yvonne McMurchie
Sent: 13 October 2009 14:38
To: 'Rubidge, Janet'
Subject: RE: RIM 0909538

Hi Janet,

I have looked into this and from looking at the case sheets it appears that the original samples taken on 14 May were taken just two weeks after a slice treatment had been completed (last treatment on 1 May). The follow up visit on 30 July showed that there had been no other treatments done since the original visit. The fish were not in a withdrawal period at the time the original sample was taken but it was still quite close in time to the treatment. The inspectors case sheet does not suggest that there were any irregularities in the treatment, with the treatments being recorded appropriately. Following the negative result from the follow-up samples no further action was taken.

Yvonne

From: Rubidge, Janet [mailto:j.rubidge@vmd.defra.gsi.gov.uk]
Sent: 13 October 2009 09:19
To: Yvonne McMurchie
Subject: RIM 0909538

Yvonne: This was a salmon sample positive for emmamectin that we asked for a follow-up visit on. The VRC are meeting this week and we would like to be able to say something about the cause of this residue and the investigation.

I gather Sonia is out of the office - can you help please.

Thanks

Janet Rubidge

Veterinary Medicines Directorate (VMD)

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21/08/2012

Johnston S (Sandra) (MARLAB)

From: Russell, Sandra [s.russell@vmd.defra.gsi.gov.uk]
Sent: 03 February 2010 15:17
To: Sonia Duguid; Rubidge, Janet
Subject: RE: Emmamectin positive

Hi Sonia

Many thanks for the update.

Best regards

Sandra

From: Sonia Duguid [mailto:S.Duguid@MARLAB.AC.UK]
Sent: 03 February 2010 14:03
To: Rubidge, Janet
Cc: Russell, Sandra
Subject: Emmamectin positive

Hi Janet/Sandra

Just to update you on the emmamectin positive at Bagh Dail Nan Caen. The primary and reference analysis certificates have been issued [REDACTED] at Lakeland Marine Farm Limited (copies attached). A follow up investigation is to be carried out on Monday 8 Feb. From the case sheet completed during the visit which resulted in the positive (23/11/09) the fish had been treated with Slice, finishing treatment on 20/11/09.

I will forward on the report from the follow up investigation once complete.

Regards

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
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Johnston S (Sandra) (MARLAB)

From: Agrawal, Reena [r.agrawal@vmd.defra.gsi.gov.uk]
Sent: 12 March 2010 10:06
To: Sonia Duguid
Cc: Russell, Sandra
Subject: RE: Follow up investigation 0927638 & 0937639

Thank you.

From: Sonia Duguid [mailto:S.Duguid@MARLAB.AC.UK]
Sent: 12 March 2010 09:24
To: Agrawal, Reena
Subject: RE: Follow up investigation 0927638 & 0937639

Hi Reena

Apologies for not sending this through, Danny Pendrey and Andy Mayes conducted the follow-up investigation on 8th February. Attached are copies of the completed primary and reference certificates and a copy of the report.

If you need any further information please let me know.

Regards

Sonia Duguid

Senior Fish Health Inspector
Marine Scotland – Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

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S/B: +44 (0)1224 876544
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Fax: +44 (0)1224 295620
e: s.duguid@marlab.ac.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Agrawal, Reena [mailto:r.agrawal@vmd.defra.gsi.gov.uk]
Sent: 09 March 2010 09:46
To: Sonia Duguid
Cc: Russell, Sandra
Subject: Follow up investigation 0927638 & 0937639

Hi Sonia,

Janet last sent a letter to you in January re the follow up of the above samples which confirmed non-compliant for residues of avermectin. I would be grateful if you could send me the report or update of any action taken.

Kind Regards
Reena

Veterinary Medicines Directorate (VMD)

21/08/2012

Johnston S (Sandra) (MARLAB)

From: Brailsford, Carol [c.brailsford@vmd.defra.gsi.gov.uk]
Sent: 27 April 2012 10:32
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie
Subject: FW: Confirmed positive - 1209487
Attachments: 1209487 [S12-004656].pdf

Hi Sonia,

A copy of the paperwork for a salmon sample found to non-compliant for emamectin 150 ug/kg, is attached. Please could you arrange for a follow-up inspection to take place as soon as possible.

Thanks

Carol

Carol Brailsford | Residues Surveillance | Veterinary Medicines Directorate

Direct Dial: +44 (0)1932 338330 | **Fax:** +44 (0)1932 336618 | **E-mail:** c.brailsford@vmd.defra.gsi.gov.uk

www.vmd.gov.uk

From: Hunt, Stephanie
Sent: 27 April 2012 10:26
To: Brailsford, Carol
Subject: FW: Confirmed positive - 1209487

From: Tom Griffiths [<mailto:Tom.Griffiths@fera.gsi.gov.uk>]
Sent: 27 April 2012 10:14
To: Hunt, Stephanie
Cc: Russell, Sandra; Residues_Statutory_Programme_Positives
Subject: Confirmed positive - 1209487

Hi Steph

A copy of the RIM form, Forms A & B and a Certificate of Analysis for sample 1209487 containing a confirmed emamectin residue reported yesterday, is attached.

A hard copy will be forwarded shortly.

Regards

Tom

Tom Griffiths
Delivery Manager - Pesticides & Veterinary Drugs
The Food and Environment Research Agency

21/08/2012



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

1209487

Any Month

To: FRS

Please collect in

the following sample and send to

FERA, Room 50G30, Sand Hutton, York, YO41 1LZ

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle & Skin	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
10	Lamlash	0423	0169

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

Potential withdrawal for mszzz.

Name of collecting officer in BLOCK letters please

D. TOMLINSON

Date of collection

27-3-12

Date of despatch to Lab

3/4/12



1209487

For Laboratory use ONLY

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectina				
2. <small>Vera AS12-004656-003</small> Sample type: Salmon Muscle & Skin Aliquot Type: Paperwork				
3. 				

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

FORM A

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

THE FOOD SAFETY ACT 1990

THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)

(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE

To.....

of.....

Primary analysis of the official sample described below has shown that it contains a residue of:

- a) an unauthorised substance;
- b) a substance reasonably suspected of being an unauthorised substance;
- c) an authorised substance at a concentration which an authorised officer has notified the analyst as being one which he reasonably suspects will produce, in meat or a meat product derived from the animal to which the sample relates, an authorised substance at a concentration exceeding the relevant maximum residue limit.
- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 9; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

FORM A

1. Sample Reference No.	1209487
2. Sample type and amount	Muscle & Skin
3. Date of collection	27-Mar-2012
4. Method of collection	Not known
5. Species and sex	Salmon, Any
6. Age (months) approx.	Any
7. Tested for	Avermectins
8. Date result reported	23-Apr-012
9. Primary analysis result	Screen Positive
10. Laboratory Ref. No.	S12-004656

NOTES

You have the right to challenge the result of the primary analysis indicated in box 9 above.

A challenge must be made in writing to the authorised officer at the official address indicated below within a period of seven days from receipt of the primary analysis certificate.

On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority:

Authorised Officer:

Address:

.....

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

THE FOOD SAFETY ACT 1990

**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)**

**(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE**

To.....

of.....

Reference analysis of the official sample described below has confirmed that it contains a residue of:

- a) an unauthorised substance;
- b) a substance reasonably suspected of being an unauthorised substance;
- c) an authorised substance at a concentration which an authorised officer has notified the analyst as being one which he reasonably suspects will produce, in meat or a meat product derived from the animal to which the sample relates, an authorised substance at a concentration exceeding the relevant maximum residue limit.
- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 10; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

FORM B

1. Sample Reference No.	1209487	
2. Sample type and amount	Muscle & Skin	
3. Date of collection	27-Mar-2012	
4. Method of collection	Not known	
5. Species and sex	Salmon, Any	
6. Age (months) approx.	Any	
7. Tested for	Avermectins	
8. Date result reported	26-Apr-2012	
9. Primary analysis result	Positive	
10. Reference analysis result	Emamectin	150 µg/kg
11. Laboratory Ref. No.	S12-004656	

Enforcement authority:

Authorised Officer:

Address:

.....
.....
.....
.....

Certificate of Analysis

Report number: CA/190/12

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference [RIM Form Number]	Sample Type	FERA LIMS Number
1209487	Salmon, muscle & skin	S12-004656

ANALYSIS REQUIRED:

Avermectins

METHOD USED:

FERA Method No: FSG/302

Avermectins are extracted from tissue by organic solvent and the extract applied to a solid-phase extraction cartridge (C18 reverse phase). The eluate is concentrated and derivatised prior to determination using reverse phase HPLC and fluorescence detection. The presence of a residue is confirmed using HPLC coupled to a mass spectrometer.

ANALYTICAL RESULTS:

Sample Number	Description	Emamectin - Screen result ($\mu\text{g}/\text{kg}$)	Confirmed Result ($\mu\text{g}/\text{kg}$)
S12-004656	Salmon, Muscle & skin	Positive	150

REPORT DATE: 26 April 2012

Report prepared by:



Marianne Caldwell
Veterinary Medicines Team, FERA

Date: 26 April 2012

Report authorised by:



Tom Griffiths
Veterinary Medicines Team, FERA

Date: 26 April 2012

Johnston S (Sandra) (MARLAB)

From: Duguid S (Sonia) (MARLAB)
Sent: 27 April 2012 15:45
To: Brailsford, Carol
Cc: Russell, Sandra; Hunt, Stephanie; Gray P (Patrick)
Subject: RE: Confirmed positive - 1209487

Hi Carol

Thanks for sending this through – we should carry out the follow up the week commencing 14 May. Do you want any follow-up samples at this stage or just for us to carry out an investigation in the first instance?

Regards

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland - Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

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Subject: FW: Confirmed positive - 1209487

Hi Sonia,

A copy of the paperwork for a salmon sample found to non-compliant for emamectin 150 ug/kg, is attached. Please could you arrange for a follow-up inspection to take place as soon as possible.

Thanks

Carol

Carol Brailsford | Residues Surveillance | Veterinary Medicines Directorate
Direct Dial: +44 (0)1932 338330 | **Fax:** +44 (0)1932 336618 | **E-mail:** c.brailsford@vmd.defra.gsi.gov.uk
www.vmd.gov.uk

From: Hunt, Stephanie
Sent: 27 April 2012 10:26
To: Brailsford, Carol
Subject: FW: Confirmed positive - 1209487

21/08/2012

From: Tom Griffiths [<mailto:Tom.Griffiths@fera.gsi.gov.uk>]
Sent: 27 April 2012 10:14
To: Hunt, Stephanie
Cc: Russell, Sandra; Residues_Statutory_Programme_Positives
Subject: Confirmed positive - 1209487

Hi Steph

A copy of the RIM form, Forms A & B and a Certificate of Analysis for sample 1209487 containing a confirmed emamectin residue reported yesterday, is attached.

A hard copy will be forwarded shortly.

Regards

Tom

Tom Griffiths
Delivery Manager - Pesticides & Veterinary Drugs
The Food and Environment Research Agency
Sand Hutton
York YO41 1LZ

Email: tom.griffiths@fera.gsi.gov.uk
Web: <http://www.defra.gov.uk/fera>
Phone: +44 (0)1904 462444
GTN: 5129 2444
Fax: +44 (0)1904 462111

Veterinary Medicines Directorate (VMD)

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Whilst this email and associated attachments will have been checked for known viruses whilst within VMD systems we can accept no responsibility once it has left our systems.

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This email has been received from an external party and

has been swept for the presence of computer viruses.

21/08/2012

VMD investigation – follow up of positive for Emamectin – Lamlash, 16/05/2012

Following notification from VMD that a muscle sample taken at the Scottish Salmon Company (FB0169) site Lamlash (FS0423) was over the maximum residue limit (MRL) for Emamectin an investigation was conducted to determine the cause. The salmon muscle sample (RIM 1209487) was taken by Marine Scotland Science (MSS) Fish Health Inspector David Tomlinson, at Lamlash on 27 March 2012. The sample was processed by the Food and Environment Research Agency (FERA) and found to have a residue level of 150µg/kg of Emamectin, therefore being above the MRL.

On 16 May 2012 an unannounced inspection was conducted at the Lamlash site by MSS Fish Health Inspectors Sonia Duguid and David Tomlinson. 125,000 Atlantic salmon of an average weight of 3.5kg were on site at the time of the investigation.

Medicine records were checked for the site and all requirements of the Veterinary Medicines Regulations in respect of administration of medicines were maintained. Two treatments of Slice had been administered over the last few months – the first was administered between 19-25 December 2011 and the second between 19-25 March 2012. The second treatment finished only two days prior to the positive sample being taken. Veterinary Instructions were inspected for both treatments and found to be present and correct. Both veterinary instructions stated a 'zero withdrawal'. Two Alphamax treatments had also taken place on site this year – on 13 February 2012 and 8 May 2012. Although the official withdrawal for the slice treatments was zero, the company has customers in the USA and therefore has a company policy of a 60 day (not degree day) withdrawal for Slice. Under the company policy withdrawal, the site was under withdrawal at the time the sample was taken, and in fact still at the time of the investigation. It was clear from both the records and the farm software which cages were under the company imposed withdrawal.

Movement records were checked to confirm that no movement (of live or dead fish – including for harvest) had taken place. No harvests have taken place on the site for the current cycle of fish. The first harvests are due to take place in July 2012.

The storage of medicines was checked on site. A locked metal cupboard, located within the office building, is used for storage of medicines. The site uses an automated feed system which has four feed hoppers. For the Slice treatments one of the hoppers is used for the administration of medicated feed. The site manager confirmed that the hopper was cleaned before and after the administration of medicated feed.

The site had suffered a large scale mortality in autumn/winter 2011/12. The site manager confirmed that a count of the remaining fish had taken place prior to the Slice treatment in March to enable as accurate a biomass as possible to be calculated for the treatment.

During inspection of the site, no abnormal swimming behaviour was observed. A total of five fish (one each from five separate cages) were collected for sampling. From each fish two samples were collected. These samples were returned to MSS Marine

Laboratory on 18 May 12 and frozen for subsequent dispatch to FERA on 22 May 2012.

In summary, all records were maintained in accordance with the requirements of the relevant legislation. Veterinary instructions had been followed. Medicine storage and handling of medicated feed appeared to be satisfactory. The company had carried out appropriate biomass calculations. Therefore, it is believed that The Scottish Salmon Company had acted responsibly with regard to the situation on site and the administration of the treatment.

It is my opinion that the most likely cause of the sample testing above the MRL is due to the difficulties involved in treating aquaculture animals in general. There is always a natural variation in fish weight in populations, which makes calculation of biomass problematic and therefore the administration of an exact dose of medicine impossible. There will also be variations in appetite between fish in a cage, making it extremely difficult to administer an exact dose of an oral medicine. It was recommended that the company submit a suspect adverse reaction report.



Sonia Duguid
1 June 2012

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

THE FOOD SAFETY ACT 1990

**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)**

**(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE**

To..... 

of..... THE SCOTTISH SALMON COMPANY

Primary analysis of the official sample described below has shown that it contains a residue of:

- a) an unauthorised substance;
- b) a substance reasonably suspected of being an unauthorised substance;
- c) an authorised substance at a concentration which an authorised officer has notified the analyst as being one which he reasonably suspects will produce, in meat or a meat product derived from the animal to which the sample relates, an authorised substance at a concentration exceeding the relevant maximum residue limit.
- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 9; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

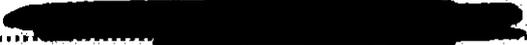
Official address: Sand Hutton, York. YO41 1LZ

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

THE FOOD SAFETY ACT 1990

**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
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**(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE**

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of..... THE SCOTTISH SALMON COMPANY

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as indicated in 10; overleaf.

Signature of analyst.......... Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

Certificate of Analysis

Report number: CA/190/12

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference [RIM Form Number]	Sample Type	FERA LIMS Number
1209487	Salmon, muscle & skin	S12-004656

ANALYSIS REQUIRED:

Avermectins

METHOD USED:

FERA Method No: FSG/302

Avermectins are extracted from tissue by organic solvent and the extract applied to a solid-phase extraction cartridge (C18 reverse phase). The eluate is concentrated and derivatised prior to determination using reverse phase HPLC and fluorescence detection. The presence of a residue is confirmed using HPLC coupled to a mass spectrometer.



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

RECEIVED
30 APR 2012
 Please collect in

Directive 96/23/EC
 Sample Ref. No. (RIM NO)
1209487
 Any Month

To **FRS**

the following sample and send to **FERA, Room 50G30, Sand Hutton, York, YO41 1LZ**

Place of sampling **Any Suitable Farm**

Sample type Muscle & Skin	Species type Salmon Any
---	-----------------------------------

For use by Collecting Officer only
 Please record full details of sample: Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
10	Lamlash	0423	0169

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks: **Potential withdrawal for mszzz.**

Name of collecting officer in BLOCK letters please **D. TOMLINSON**

Date of collection **27.3.12** Date of despatch to Lab. **3/4/12**



For Laboratory use ONLY

'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectins				
2. Salmon Muscle & Skin				
3.				

A912-004656-003
 Sample type:
Salmon Muscle & Skin
 Aliquot Type:
Paperwork



Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

RJM 8 (Rev. 2/01)

Johnston S (Sandra) (MARLAB)

From: Brailsford, Carol [c.brailsford@vmd.defra.gsi.gov.uk]
Sent: 27 April 2012 10:32
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie
Subject: FW: Confirmed positive - 1209487
Attachments: 1209487 [S12-004656].pdf

Hi Sonia,

A copy of the paperwork for a salmon sample found to non-compliant for emamectin 150 ug/kg, is attached. Please could you arrange for a follow-up inspection to take place as soon as possible.

Thanks

Carol

Carol Brailsford | Residues Surveillance | Veterinary Medicines Directorate

Direct Dial: +44 (0)1932 338330 | **Fax:** +44 (0)1932 336618 | **E-mail:** c.brailsford@vmd.defra.gsi.gov.uk
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Regards

Tom

Tom Griffiths
Delivery Manager - Pesticides & Veterinary Drugs
The Food and Environment Research Agency

21/08/2012



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM:NG)

1209487

Any Month

To **FR5**

Please collect in

the following sample and send to

FERA, Room 50G30, Sand Hutton, York, YO41 1LZ

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle & Skin	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

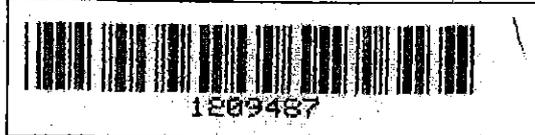
Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
10	Lamlash	0423	0169

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary Medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks: **Potential withdrawal for M222.**

Name of collecting officer in BLOCK letters please

D. TOMLINSON



Date of collection

27-3-12

Date of despatch to Lab.

3/4/12

For Laboratory use ONLY

Date of receipt: GC	Sample condition:			
'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectina				
2. AS12-004656-003 Sample type: Salmon Muscle & Skin Aliquot Type: Paperwork				
3.				
	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

RIM 8 (Rev. 2/01)

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT

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**(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE**

To.....

of.....

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- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 9; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

FORM A

1. Sample Reference No.	1209487
2. Sample type and amount	Muscle & Skin
3. Date of collection	27-Mar-2012
4. Method of collection	Not known
5. Species and sex	Salmon, Any
6. Age (months) approx.	Any
7. Tested for	Avermectins
8. Date result reported	23-Apr-012
9. Primary analysis result	Screen Positive
10. Laboratory Ref. No.	S12-004656

NOTES

You have the right to challenge the result of the primary analysis indicated in box 9 above.

A challenge must be made in writing to the authorised officer at the official address indicated below within a period of seven days from receipt of the primary analysis certificate.

On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority:

Authorised Officer:

Address:

.....

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

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**(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE**

To.....

of.....

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as indicated in 10; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)
An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

FORM B

1. Sample Reference No.	1209487	
2. Sample type and amount	Muscle & Skin	
3. Date of collection	27-Mar-2012	
4. Method of collection	Not known	
5. Species and sex	Salmon, Any	
6. Age (months) approx.	Any	
7. Tested for	Avermectins	
8. Date result reported	26-Apr-2012	
9. Primary analysis result	Positive	
10. Reference analysis result	Emamectin	150 µg/kg
11. Laboratory Ref. No.	S12-004656	

Enforcement authority:

Authorised Officer:

Address:

.....
.....
.....
.....

Certificate of Analysis

Report number: CA/190/12

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference [RIM Form Number]	Sample Type	FERA LIMS Number
1209487	Salmon, muscle & skin	S12-004656

ANALYSIS REQUIRED:

Avermectins

METHOD USED:

FERA Method No: FSG/302

Avermectins are extracted from tissue by organic solvent and the extract applied to a solid-phase extraction cartridge (C18 reverse phase). The eluate is concentrated and derivatised prior to determination using reverse phase HPLC and fluorescence detection. The presence of a residue is confirmed using HPLC coupled to a mass spectrometer.

ANALYTICAL RESULTS:

Sample Number	Description	Emamectin - Screen result ($\mu\text{g}/\text{kg}$)	Confirmed Result ($\mu\text{g}/\text{kg}$)
S12-004656	Salmon, Muscle & skin	Positive	150

REPORT DATE: 26 April 2012

Report prepared by:



Marianne Caldwell
Veterinary Medicines Team, FERA

Date: 26 April 2012

Report authorised by:



Tom Griffiths
Veterinary Medicines Team, FERA

Date: 26 April 2012

Johnston S (Sandra) (MARLAB)

From: Duguid S (Sonia) (MARLAB)
Sent: 30 April 2012 11:07
To: Warwick A (Andrea) (MARLAB)
Subject: FW: Confirmed positive - 1209487

Hi Andrea

See below for info.

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland - Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
Mob:+44 (0)7775 818282
Fax: +44 (0)1224 295620
e: sonia.duguid@scotland.gsi.gov.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Brailsford, Carol [<mailto:c.brailsford@vmd.defra.gsi.gov.uk>]
Sent: 30 April 2012 11:04
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie; Gray P (Patrick)
Subject: RE: Confirmed positive - 1209487

Hi Sonia,

We think it would be worth taking 5 target samples at the inspection, give the current controversy with this substance. Steph will let you have the paperwork before week beginning 14th May.

Thanks

Carol

From: Sonia.Duguid@scotland.gsi.gov.uk [<mailto:Sonia.Duguid@scotland.gsi.gov.uk>]
Sent: 27 April 2012 15:45
To: Brailsford, Carol
Cc: Russell, Sandra; Hunt, Stephanie; Patrick.Gray@scotland.gsi.gov.uk
Subject: RE: Confirmed positive - 1209487

Hi Carol

Thanks for sending this through – we should carry out the follow up the week commencing 14 May. Do you want any follow-up samples at this stage or just for us to carry out an investigation in the first instance?

Regards

Sonia Duguid

21/08/2012

Senior Fish Health Inspector
Marine Scotland - Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
Mob: +44 (0)7775 818282
Fax: +44 (0)1224 295620
e: sonia.duguid@scotland.gsi.gov.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Brailsford, Carol [<mailto:c.brailsford@vmd.defra.gsi.gov.uk>]
Sent: 27 April 2012 10:32
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie
Subject: FW: Confirmed positive - 1209487

Hi Sonia,
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Please could you arrange for a follow-up inspection to take place as soon as possible.
Thanks
Carol

Carol Brailsford | Residues Surveillance | Veterinary Medicines Directorate
Direct Dial: +44 (0)1932 338330 | **Fax:** +44 (0)1932 336618 | **E-mail:** c.brailsford@vmd.defra.gsi.gov.uk
www.vmd.gov.uk

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Sent: 27 April 2012 10:26
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Subject: FW: Confirmed positive - 1209487

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Sent: 27 April 2012 10:14
To: Hunt, Stephanie
Cc: Russell, Sandra; Residues_Statutory_Programme_Positives
Subject: Confirmed positive - 1209487

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A hard copy will be forwarded shortly.

Regards

21/08/2012

Tom

Tom Griffiths
Delivery Manager - Pesticides & Veterinary Drugs
The Food and Environment Research Agency
Sand Hutton
York YO41 1LZ

Email: tom.griffiths@fera.gsi.gov.uk
Web: <http://www.defra.gov.uk/fera>
Phone: +44 (0)1904 462444
GTN: 5129 2444
Fax: +44 (0)1904 462111

Veterinary Medicines Directorate (VMD)

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Communications on VMD's computer systems may be monitored and/or recorded to secure the effective operation of the system and for other lawful purposes.

This email has been received from an external party and
has been swept for the presence of computer viruses.

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Communications with the Scottish Government may be monitored or recorded in order to secure the effective operation of the system and for other lawful purposes. The views or opinions contained within this e-mail may not necessarily reflect those of the Scottish Government.

Tha am post-d seo (agus faidhle neo ceanglan còmhla ris) dhan neach neo luchd-ainmichte a-mhàin. Chan eil e ceadaichte a chleachdadh ann an dòigh sam bith, a' toirt a-steach còraichean, follseachadh neo sgaoileadh, gun chead. Ma 's e is gun d'fhuair sibh seo le gun fhiosd', bu choir cur às dhan phost-d agus lethbhreac sam bith air an t-siostam agaibh, leig fios chun neach a sgaoil am post-d gun dàil.

Johnston S (Sandra) (MARLAB)

From: Hunt, Stephanie [s.hunt@vmd.defra.gsi.gov.uk]
Sent: 02 May 2012 11:45
To: Duguid S (Sonia) (MARLAB)
Subject: Targets

Hi Sonia

The Lab have asked if you could let them know when the target samples likely to be with them?

Thanks

Stephanie

Residues Surveillance

Tel: 01932 338329

Fax: 01932 336618

E-mail: s.hunt@vmd.defra.gsi.gov.uk

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Johnston S (Sandra) (MARLAB)

From: Duguid S (Sonia) (MARLAB)
Sent: 22 May 2012 12:02
To: [REDACTED]@scottishsalmon.com
Subject: VMD paperwork for Lamlash
Attachments: 1209487 [S12-004656].pdf

Hi [REDACTED]

Sorry I didn't get this sent through yesterday. Attached are copies of the paperwork I received from VMD regarding the Emamectin positive at Lamlash. I am still waiting on the originals to be sent through. Once I receive them I will complete and forward to yourself.

Also, as discussed on the phone, I would recommend submitting a suspect adverse reaction form to VMD. This can be submitted at the link below.

<http://www.vmd.defra.gov.uk/adversereactionreporting/>

Regards

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland - Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
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The Food and Environment Research Agency
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Email: tom.griffiths@fera.gsi.gov.uk
Web: <http://www.defra.gov.uk/fera>
Phone: +44 (0)1904 462444
GTN: 5129 2444
Fax: +44 (0)1904 462111

Veterinary Medicines Directorate (VMD)

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21/08/2012



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

Directive 96/23/EC

Sample Ref. No. (RIM NO)

1209487

Any Month

To FRS

Please collect in

the following sample and send to

FERA, Room 50G30, Sand Hutton, York, YO41 1LZ

Place of sampling

Any Suitable Farm

Sample type	Species type
Muscle & Skin	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
10	Lamlash	0423	0169

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

Potential withdrawal for M222.

Name of collecting officer in BLOCK letters please

D. TOMLINSON



1209487

Date of collection

27.3.12.

Date of despatch to Lab.

3/4/12

For Laboratory use ONLY

Date of receipt at CC	Sample condition			
'Test for'	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectins				
2. <small>AS12-004656-003</small> Sample type: Salmon Muscle & Skin Aliquot Type: Paperwork				
3. 				
	Name	Date	Name	Date

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

RIM 8 (Rev. 2/01)

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

THE FOOD SAFETY ACT 1990

**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)**

**(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE**

To.....

of.....

Primary analysis of the official sample described below has shown that it contains a residue of:

- a) an unauthorised substance;
- b) a substance reasonably suspected of being an unauthorised substance;
- c) an authorised substance at a concentration which an authorised officer has notified the analyst as being one which he reasonably suspects will produce, in meat or a meat product derived from the animal to which the sample relates, an authorised substance at a concentration exceeding the relevant maximum residue limit.
- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 9; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

FORM A

1. Sample Reference No.	1209487
2. Sample type and amount	Muscle & Skin
3. Date of collection	27-Mar-2012
4. Method of collection	Not known
5. Species and sex	Salmon, Any
6. Age (months) approx.	Any
7. Tested for	Avermectins
8. Date result reported	23-Apr-012
9. Primary analysis result	Screen Positive
10. Laboratory Ref. No.	S12-004656

NOTES

You have the right to challenge the result of the primary analysis indicated in box 9 above.

A challenge must be made in writing to the authorised officer at the official address indicated below within a period of seven days from receipt of the primary analysis certificate.

On receipt of such a challenge the officer will submit the official sample for a reference (i.e. confirmatory) analysis.

Enforcement authority:

Authorised Officer:

Address:

.....

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

THE FOOD SAFETY ACT 1990

**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)**

**(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE**

To.....

of.....

**Reference analysis of the official sample described below has confirmed that it contains a
residue of:**

- a) an unauthorised substance;**
- b) a substance reasonably suspected of being an unauthorised substance;**
- c) an authorised substance at a concentration which an authorised officer
has notified the analyst as being one which he reasonably suspects will
produce, in meat or a meat product derived from the animal to which the
sample relates, an authorised substance at a concentration exceeding the
relevant maximum residue limit.**
- d) an authorised substance at a concentration exceeding the relevant
maximum residue limit.**

as indicated in 10; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

FORM B

1. Sample Reference No.	1209487	
2. Sample type and amount	Muscle & Skin	
3. Date of collection	27-Mar-2012	
4. Method of collection	Not known	
5. Species and sex	Salmon, Any	
6. Age (months) approx.	Any	
7. Tested for	Avermectins	
8. Date result reported	26-Apr-2012	
9. Primary analysis result	Positive	
10. Reference analysis result	Emamectin	150 µg/kg
11. Laboratory Ref. No.	S12-004656	

Enforcement authority:

Authorised Officer:

Address:

.....
.....
.....
.....

Certificate of Analysis

Report number: CA/190/12

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference [RIM Form Number]	Sample Type	FERA LIMS Number
1209487	Salmon, muscle & skin	S12-004656

ANALYSIS REQUIRED:

Avermectins

METHOD USED:

FERA Method No: FSG/302

Avermectins are extracted from tissue by organic solvent and the extract applied to a solid-phase extraction cartridge (C18 reverse phase). The eluate is concentrated and derivatised prior to determination using reverse phase HPLC and fluorescence detection. The presence of a residue is confirmed using HPLC coupled to a mass spectrometer.

ANALYTICAL RESULTS:

Sample Number	Description	Emamectin - Screen result (µg/kg)	Confirmed Result (µg/kg)
S12-004656	Salmon, Muscle & skin	Positive	150

REPORT DATE: 26 April 2012

Report prepared by:



Marianne Caldwell
Veterinary Medicines Team, FERA

Date: 26 April 2012

Report authorised by:



Tom Griffiths
Veterinary Medicines Team, FERA

Date: 26 April 2012

Johnston S (Sandra) (MARLAB)

From: Brailsford, Carol [c.brailsford@vmd.defra.gsi.gov.uk]
Sent: 22 May 2012 13:34
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie; Gray P (Patrick)
Subject: RE: Confirmed positive - 1209487

Hi Sonia,
Apologies, I assumed the originals would do. Ill get it out to you now.
Carol

From: Sonia.Duguid@scotland.gsi.gov.uk [mailto:Sonia.Duguid@scotland.gsi.gov.uk]
Sent: 22 May 2012 11:56
To: Brailsford, Carol
Cc: Russell, Sandra; Hunt, Stephanie; Patrick.Gray@scotland.gsi.gov.uk
Subject: RE: Confirmed positive - 1209487

Hi Carol

I haven't received the original documentation for this positive yet. Could you send it out so I can issue to the business? The site was visited last week and I gave them a copy of the results but in the past we have always provided them with the originals.

I will forward the report once complete but nothing untoward. I have recommended that the company complete a suspect adverse reaction form for this.

Regards

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland - Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road| Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
Mob:+44 (0)7775 818282
Fax: +44 (0)1224 295620
e: sonia.duguid@scotland.gsi.gov.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Brailsford, Carol [mailto:c.brailsford@vmd.defra.gsi.gov.uk]
Sent: 30 April 2012 11:04
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie; Gray P (Patrick)
Subject: RE: Confirmed positive - 1209487

Hi Sonia,
We think it would be worth taking 5 target samples at the inspection, give the current controversy with this substance. Steph will let you have the paperwork before week beginning 14th May.
Thanks

21/08/2012

Carol

From: Sonia.Duguid@scotland.gsi.gov.uk [<mailto:Sonia.Duguid@scotland.gsi.gov.uk>]
Sent: 27 April 2012 15:45
To: Brailsford, Carol
Cc: Russell, Sandra; Hunt, Stephanie; Patrick.Gray@scotland.gsi.gov.uk
Subject: RE: Confirmed positive - 1209487

Hi Carol

Thanks for sending this through – we should carry out the follow up the week commencing 14 May. Do you want any follow-up samples at this stage or just for us to carry out an investigation in the first instance?

Regards

Sonia Duguid
Senior Fish Health Inspector
Marine Scotland - Science

Scottish Government | Marine Laboratory, PO Box 101 | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
Mob:+44 (0)7775 818282
Fax: +44 (0)1224 295620
e: sonia.duguid@scotland.gsi.gov.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: Brailsford, Carol [<mailto:c.brailsford@vmd.defra.gsi.gov.uk>]
Sent: 27 April 2012 10:32
To: Duguid S (Sonia) (MARLAB)
Cc: Russell, Sandra; Hunt, Stephanie
Subject: FW: Confirmed positive - 1209487

Hi Sonia,

A copy of the paperwork for a salmon sample found to non-compliant for emamectin 150 ug/kg, is attached. Please could you arrange for a follow-up inspection to take place as soon as possible.

Thanks

Carol

Carol Brailsford | Residues Surveillance | Veterinary Medicines Directorate
Direct Dial: +44 (0)1932 338330 | Fax: +44 (0)1932 336618 | E-mail: c.brailsford@vmd.defra.gsi.gov.uk
www.vmd.gov.uk

From: Hunt, Stephanie
Sent: 27 April 2012 10:26
To: Brailsford, Carol
Subject: FW: Confirmed positive - 1209487

21/08/2012

From: Tom Griffiths [<mailto:Tom.Griffiths@fera.gsi.gov.uk>]
Sent: 27 April 2012 10:14
To: Hunt, Stephanie
Cc: Russell, Sandra; Residues_Statutory_Programme_Positives
Subject: Confirmed positive - 1209487

Hi Steph

A copy of the RIM form, Forms A & B and a Certificate of Analysis for sample 1209487 containing a confirmed emamectin residue reported yesterday, is attached.

A hard copy will be forwarded shortly.

Regards

Tom

Tom Griffiths
Delivery Manager - Pesticides & Veterinary Drugs
The Food and Environment Research Agency
Sand Hutton
York YO41 1LZ

Email: tom.griffiths@fera.gsi.gov.uk
Web: <http://www.defra.gov.uk/fera>
Phone: +44 (0)1904 462444
GTN: 5129 2444
Fax: +44 (0)1904 462111

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21/08/2012

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Tel: +44 (0)1224 295635
S/B: +44 (0)1224 876544
Mob:+44 (0)7775 818282
Fax: +44 (0)1224 295620
e: sonia.duguid@scotland.gsi.gov.uk
w: <http://www.scotland.gov.uk/marinescotland>

From: [redacted] [mailto:[redacted]@scottishsalmon.com]
Sent: 22 May 2012 13:22
To: Duguid S (Sonia) (MARLAB)
Subject: Lamlash emmamectin result

Dear Sonia,

I thought I ought to introduce myself, I am the new biologist for The Scottish Salmon Company. [redacted] passed on your email to me, although I have already been investigating the issue. Has Marine Scotland finished their investigation following your site visit last week and is your only corrective suggestion to submit a Suspected Adverse Reaction form to the VMD?

We are currently reviewing the incident internally and with both our feed supplier and our prescribing vet to ensure this does not happen again and to determine the root cause.

Kind regards

[redacted]
[redacted]
Biologist



The Scottish Salmon Company  **Companaidh Bhradan na h-Al**

1 Smithy Lane, Lochgilphead, Scotland. PA31 8TA www.scottishsalmon.com
TEL: +44 (0)1546 602 172 Mob: +44 (0)7423 436 601

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Johnston S (Sandra) (MARLAB)

From: Duguid S (Sonia) (MARLAB)
Sent: 01 June 2012 12:41
To: Brailsford, Carol
Cc: Russell, Sandra; Gray P (Patrick)
Subject: Investigation report - Lamlash FS0423

Attachments: MSS Aquaculture - Fish Farm Residue Testing - Investigation report for confirmed Emamectin positive at Lamlash.pdf; MSS Aquaculture - Fish Farm Residue Testing - Result paperwork for confirmed Emamectin positive at Lamlash.pdf



MSS Aquaculture -
Fish Farm Re...



MSS Aquaculture -
Fish Farm Re...

e

r Carol/Sandra

Please find attached copies of paperwork issued to The Scottish Salmon Company regarding the Emamectin positive at Lamlash, along with my report of the investigation carried out.

If you have any queries please let me know, however I am on leave from now until 20 June. Patrick should be able to help in my absence.

Regards

Sonia

VMD Investigation – follow up of positive for Emamectin – Lamlash, 16/05/2012

Following notification from VMD that a muscle sample taken at the Scottish Salmon Company (FB0169) site Lamlash (FS0423) was over the maximum residue limit (MRL) for Emamectin an investigation was conducted to determine the cause. The salmon muscle sample (RIM 1209487) was taken by Marine Scotland Science (MSS) Fish Health Inspector David Tomlinson, at Lamlash on 27 March 2012. The sample was processed by the Food and Environment Research Agency (FERA) and found to have a residue level of 150µg/kg of Emamectin, therefore being above the MRL.

On 16 May 2012 an unannounced inspection was conducted at the Lamlash site by MSS Fish Health Inspectors Sonia Duguid and David Tomlinson. 125,000 Atlantic salmon of an average weight of 3.5kg were on site at the time of the investigation.

Medicine records were checked for the site and all requirements of the Veterinary Medicines Regulations in respect of administration of medicines were maintained. Two treatments of Slice had been administered over the last few months – the first was administered between 19-25 December 2011 and the second between 19-25 March 2012. The second treatment finished only two days prior to the positive sample being taken. Veterinary instructions were inspected for both treatments and found to be present and correct. Both veterinary instructions stated a 'zero withdrawal'. Two Alphamax treatments had also taken place on site this year – on 13 February 2012 and 8 May 2012. Although the official withdrawal for the slice treatments was zero, the company has customers in the USA and therefore has a company policy of a 60 day (not degree day) withdrawal for Slice. Under the company policy withdrawal, the site was under withdrawal at the time the sample was taken, and in fact still at the time of the investigation. It was clear from both the records and the farm software which cages were under the company imposed withdrawal.

Movement records were checked to confirm that no movement (of live or dead fish – including for harvest) had taken place. No harvests have taken place on the site for the current cycle of fish. The first harvests are due to take place in July 2012.

The storage of medicines was checked on site. A locked metal cupboard, located within the office building, is used for storage of medicines. The site uses an automated feed system which has four feed hoppers. For the Slice treatments one of the hoppers is used for the administration of medicated feed. The site manager confirmed that the hopper was cleaned before and after the administration of medicated feed.

The site had suffered a large scale mortality in autumn/winter 2011/12. The site manager confirmed that a count of the remaining fish had taken place prior to the Slice treatment in March to enable as accurate a biomass as possible to be calculated for the treatment.

During inspection of the site, no abnormal swimming behaviour was observed. A total of five fish (one each from five separate cages) were collected for sampling. From each fish two samples were collected. These samples were returned to MSS Marine

Laboratory on 18 May 12 and frozen for subsequent dispatch to FERA on 22 May 2012.

In summary, all records were maintained in accordance with the requirements of the relevant legislation. Veterinary instructions had been followed. Medicine storage and handling of medicated feed appeared to be satisfactory. The company had carried out appropriate biomass calculations. Therefore, it is believed that The Scottish Salmon Company had acted responsibly with regard to the situation on site and the administration of the treatment.

It is my opinion that the most likely cause of the sample testing above the MRL is due to the difficulties involved in treating aquaculture animals in general. There is always a natural variation in fish weight in populations, which makes calculation of biomass problematic and therefore the administration of an exact dose of medicine impossible. There will also be variations in appetite between fish in a cage, making it extremely difficult to administer an exact dose of an oral medicine. It was recommended that the company submit a suspect adverse reaction report.



Sonia Duguid
1 June 2012

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

THE FOOD SAFETY ACT 1990

**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)**

**(Regulation 14)
PRIMARY ANALYSIS CERTIFICATE**

To..... 

of..... THE SCOTTISH SALMON COMPANY

Primary analysis of the official sample described below has shown that it contains a residue of:

- a) an unauthorised substance;
- b) a substance reasonably suspected of being an unauthorised substance;
- c) an authorised substance at a concentration which an authorised officer has notified the analyst as being one which he reasonably suspects will produce, in meat or a meat product derived from the animal to which the sample relates, an authorised substance at a concentration exceeding the relevant maximum residue limit.
- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 9; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)
An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS,
SCOTTISH EXECUTIVE ENVIRONMENT AND RURAL AFFAIRS DEPARTMENT,
NATIONAL ASSEMBLY FOR WALES AGRICULTURE DEPARTMENT**

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**THE ANIMALS AND ANIMAL PRODUCTS (EXAMINATION FOR RESIDUES AND
MAXIMUM RESIDUE LIMITS) REGULATIONS 1997 (AS AMENDED)**

**(Regulation 16)
REFERENCE ANALYSIS CERTIFICATE**

To..... 

of..... THE SCOTTISH SALMON COMPANY

Reference analysis of the official sample described below has confirmed that it contains a residue of:

- a) an unauthorised substance;
- b) a substance reasonably suspected of being an unauthorised substance;
- c) an authorised substance at a concentration which an authorised officer has notified the analyst as being one which he reasonably suspects will produce, in meat or a meat product derived from the animal to which the sample relates, an authorised substance at a concentration exceeding the relevant maximum residue limit.
- d) an authorised substance at a concentration exceeding the relevant maximum residue limit.

as indicated in 10; overleaf.

Signature of analyst  Date: 26 April 2012

Analyst at The Food and Environment Research Agency (Fera)

An approved laboratory for the purposes of the Regulations.

Name: Thomas Griffiths

Official address: Sand Hutton, York. YO41 1LZ

Certificate of Analysis

Report number: CA/190/12

CUSTOMER: Veterinary Medicines Directorate
Woodham Lane, New Haw, Addlestone, Surrey KT15 3NB

SAMPLE DETAILS AND RESULTS:

VMD Sample Reference [RIM Form Number]	Sample Type	FERA LIMS Number
1209487	Salmon, muscle & skin	S12-004656

ANALYSIS REQUIRED:

Avermectins

METHOD USED:

FERA Method No: FSG/302

Avermectins are extracted from tissue by organic solvent and the extract applied to a solid-phase extraction cartridge (C18 reverse phase). The eluate is concentrated and derivatised prior to determination using reverse phase HPLC and fluorescence detection. The presence of a residue is confirmed using HPLC coupled to a mass spectrometer.



Veterinary Medicines Directorate
National Surveillance Scheme for Residues in Fish
Primary sample

RECEIVED
 30 APR 2012
 Please collect...

Directive 96/23/EC
 Sample Ref. No. (RIM NO)
 1209487
 Any Month

To **FRS**

the following sample and send to **FERA, Room 50G30, Sand Hutton, York, YO41 1LZ**

Place of sampling **Any Suitable Farm**

Sample type	Species type
Muscle & Skin	Salmon Any

For use by Collecting Officer only

Please record full details of sample:

Please use black ink and BLOCK letters

Cage/Pen Number	Name of Site	Site Number (FS Number)	Company (FB Number)
10	Lamlash	0423	0169

Important: If sample cannot be taken, give reasons and return top two copies to the Veterinary medicines Directorate, Woodham Lane, New Haw, Addlestone, Surrey, KT15 3LS. Tel: 01932 336911 ext. 8328

Remarks:

Potential withdrawal for MS222.

Name of collecting officer in BLOCK letters please

D. TOMLINSON

Date of collection

27-3-12

Date of despatch to Lab.

3/4/12



1209487

For Laboratory use ONLY

"Test for"	Screening		Confirmatory	
	Name	Date	Name	Date
1. Avermectins				
2. <small>AS12-004656-003</small> Sample type: Salmon Muscle & Skin Aliquot Type: Paperwork				
3.				

Please send the 1st and 2nd copies to the Laboratory with the sample. The 3rd copy is for your retention.

Title :		Salmon (Followups) 2009						
Rim No.	Residue	Bus No (FB)	Site Name	Site No (FS)	Facility No	Month Sample Due	Sampling Inspector	
927479	Avermectins	0377	Setter Voe	0316		1 July	DJP	
927480	Avermectins	0377	Setter Voe	0316		1 July	DJP	
927481	Avermectins	0377	Setter Voe	0316		2 July	DJP	
927482	Avermectins	0377	Setter Voe	0316		2 July	DJP	
927483	Avermectins	0377	Setter Voe	0316		3 July	DJP	
927484	Avermectins	0377	Setter Voe	0316		3 July	DJP	
927485	Avermectins	0377	Setter Voe	0316		4 July	DJP	
927486	Avermectins	0377	Setter Voe	0316		4 July	DJP	
927487	Avermectins	0377	Setter Voe	0316		5 July	DJP	
927488	Avermectins	0377	Setter Voe	0316		5 July	DJP	
927489	Avermectins	0377	Setter Voe	0316		6 July	DJP	
927490	Avermectins	0377	Setter Voe	0316		6 July	DJP	
927491	Avermectins	0377	Setter Voe	0316		7 July	DJP	
927492	Avermectins	0377	Setter Voe	0316		7 July	DJP	
927493	Avermectins	0377	Setter Voe	0316		8 July	DJP	
927494	Avermectins	0377	Setter Voe	0316		8 July	DJP	

Johnston S (Sandra) (MARLAB)

From: Hunt, Stephanie [s.hunt@vmd.defra.gsi.gov.uk]
Sent: 08 June 2012 07:11
To: Marianne Caldwell
Cc: Russell, Sandra; Duguid S (Sonia) (MARLAB)
Subject: RE: target fish - avermectins

Marianne
Thanks for letting us know.
Steph

From: Marianne Caldwell [mailto:marianne.caldow@fera.gsi.gov.uk]
Sent: 07 June 2012 14:50
To: Hunt, Stephanie
Subject: target fish - avermectins

Steph

The target samples of fish sent for avermectin analysis have been analysed – there are no residues greater than the reporting limit

Regards

Marianne

Marianne Caldwell
Residues Analyst
The Food Environment Research Agency
Sand Hutton
York YO41 1LZ

Phone: +44 (0)1904 462000/3402
GTN: 5129 3402
Fax: +44 (0)1904 462253
Email: marianne.caldow@fera.gsi.gov.uk
Web: <http://www.defra.gov.uk/fera>

Veterinary Medicines Directorate (VMD)

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