

PPL Therapeutics (NZ) Ltd Whakamaru Main Road R.D.1 Mangakino New Zealand

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BY:

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17 December 1999

ERMA NZ 20 Customhouse Quay PO Box 131 WELLINGTON

Attention: \_

- Applications Officer

ANNUAL REPORT TO THE ENVIRONMENT RISK MANAGEMENT AUTHORITY (ERMA) ON COMPLIANCE WITH THE CONTROLS LAID DOWN IN THE AUTHORITIES DECISION ON GMF98001 DATED 24<sup>TH</sup> MARCH 1999

Statement:

"PPL Therapeutics (NZ) Ltd has at all times complied with the controls laid down in the ERMA Decision to approve the application "GMF98001 with Controls" on the field test (maintain a manufacturing ewe flock of) transgenic sheep for the purposes of producing a biopharmaceutical (human alpha-1-antitrypsin, hAAT)."

In support of this statement please find the following documents

- Appendix 1 Agriquality 6-monthly audit report on PPL Therapeutics(NZ)
   Ltd. This document addresses the specific areas identified in MAFR
   Standard 154.03.06 section 4.13 which you request comment on.
- Appendix 2 Breakdown of numbers of transgenic animals on site.

Yours sincerely

**FARM MANAGER** 

Appendix 1

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15 December 1999

PPL Theapentics Main Rel MacKamany



MAF Biosecurity Authority Box 2526 Wellington

Six Monthly Audit: PPL Therapeutics (NZ) Ltd Registered Sheep Transitional Facility, Whakamaru

As per MAFRA Standard 154.02.02.01, attached is the six monthly audit report for the above facility undertaken on 14 December 1999.

#### **Primary Facility** 1.0

#### 1.1 Livestock Tally

Livestock at 05/05/99 Sheep	111			
Sentinel Goats	8			
Total Stock	O	119		
Total Stock		117		
Livestock Introduced (05/05/99 - 14/12/	(99)			
Sheep	0			
Sentinel goats	0			
Total additions		0		
				119
Less deaths (05/05/99 - 14/12/99)				
Sheep	7			
Sentinel goats	0			
Total deaths				7
Livestock on books				112
Physical count (14/12/99)				
Sheep			104	
Sentinel Goats			8	
Total livestock				112
Discrepancy				0

### 1.2 Comments

- 4 'Indigenous' ewes euthanased as surplus to requirements.
- 3 'Original Imports' died during the period with laboratory evidence of (i) Pulpy Kidney, (ii) Ovine Johnes Disease and (iii) Chronic Facial eczema. No evidence of scrapie seen on histological examination of brain tissue.

### 1.3 Genetic Material

### 1.3.1 Stock take of Imported Ram Semen

No physical count of remaining semen was undertaken at this audit as PPL NZ Ltd intend to request their parent Board to approve destruction of stored genetic material early in 2000. Data below refers thus to the May 1999 audit.

Semen straws imported into New Zealand Less semen straws for viability testing Total straws placed into quarantine	461 4	457
Less straws used in quarantine	172	
Straws destroyed by incineration	<u>32</u>	
		204
Book balance		253
Physical count (05/05/99)		
Ram 10122	106	
Ram 10141	146	
Total		252
Discrepancy		1

### 1.3.2 Comments

One straw from Ram 10141 appears to be missing. This has been noted in previous audits and a signed statement from BVSc has been received that one straw was inadvertently dropped into the tank during transfer procedures. The only way to confirm this is to drain the tank completely which at this stage is not warranted.

### 1.3.3 Lymph Node material

• The balance of imported lymph node material is still held frozen within the primary quarantine facility.

### 1.3.4 Sentinel Goats

The 8 sentinel goats were intra cerebrally innoculated with lymph node suspension derived from founder rams on 4/4/97. MAFRA Standard 154.02.02 requires that these animals be observed for a minimum period of 3 years. If after this period there are no clinical signs of scrapie, then the sentinals are to be slaughtered and brains examined histologically. The 8 goats have remained clinically normal and are thus due for euthanasia and postmortem early April 2000.

## 2.0 Secondary Facility

PPL's Secondary quarantine facility was approved on 23 March 1998 as a Transitional Facility under section 39 of the Biosecurity Act 1993.

### 2.1 Livestock Tally

Livestock Lany	•			
Livestock at last audit (05/05/99)				
Sheep	1046			
Goats	0			
Total			1046	
Livestock Introduced (05/05/99 - 14/12/9	99)			
Sheep (purchased / transferred)		53		
Sheep (born)		177		
Total Additions			230	
				1276
Less deaths (05/05/99 - 14/12/99)				
Sheep (non exotic)	31			
Sheep (exotic)	21			
Total deaths				52
Livestock on books				1224
Physical Count (14/12/99)				1224
Discrepancy				0

### 2.2 Comments

- 23 sheep were euthanased during the period either on welfare grounds or as surplus to requirements.
- Post mortem reports on exotic animals that died indicated a range of conditions which are common in New Zealand
- No evidence of exotic disease was found following laboratory of tissues submitted as per MAFRA Standard 154.02.02.

Current stock details in the secondary facility are as follows:

1 <sup>st</sup> Generation exotic progeny	127
2 <sup>nd</sup> Generation and higher exotic progeny	113
Non exotic	<u>984</u>
	1224

# 3 Supervision in relation to ERMA

ERMA approved on 17 March 1999 PPL's application to field test (maintain a manufacturing flock) of transgenic sheep for the purposes of producing a biopharmaceutical (hAAT) in the Waikato region, subject to certain controls (Application GMF98001). Although the flock is not yet in production (ie. milk being taken for field trial purposes), PPL have agreed to implement these controls. Most are currently mandatory under MAFRA Standard 154.02.02, but additional ones are as follows:

- Both perimeter fences are now electronically monitored and alarmed.
- Biological material (except wool) from transgenic sheep including carcases is / are being disposed of by on site incineration.
- All sheep (over 3 months of age) in the containment facility are implanted with electronic microchips.

### 4 General Comments

- A new facility across the road has now been developed to allow for the planned increase in stock numbers on the secondary site. A site inspection has been undertaken and the facility, management and procedures comply with MAFRA Standard 154.02.02. Formal approval is now sought for this extension to be included as part of the registered Transitional Facility (see separate document).
- Management of both primary and secondary quarantine facilities including livestock, record keeping and structural maintenance continues to be of a high standard.

### 5 Acknowledgements

The assistance of Mr audit is acknowledged.

d and his staff at PPL Therapeutics Whakamaru during this

AgriQuality New Zealand Ltd Rotorua

cc PPL Therapeutics NZ Ltd

# Appendix II

To: ERMA NZ

Details of transgenic animals as at 15 December 1999.

<u>PQF</u>

Total No. Animals

Total No. Transgenic Animals

Born 1997:

98

53

**SQF** 

Born 1998:

117

89

Born 1999:

152

24 confirmed

plus 98 newborn/very young animals whose transgenic status has not yet been confirmed. Of these 98 animals, we expect approximately 75% to be transgenic.