



Australian Government

Department of Health and Ageing

Office of the Gene Technology Regulator

Licence for dealings involving the intentional release of GMOs into the environment

Licence No: DIR 012/2002

Licence Holder: Monsanto Australia Ltd

Title: Commercial release of Bollgard II[®] and Bollgard II[®]/Roundup Ready[®] cotton

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More information about this licence is contained in the risk assessment and risk management plan prepared in connection with this licence. This document can be obtained from the Office of the Gene Technology Regulator website at <http://www.ogtr.gov.au> or by telephoning the Office on 1800 181 030.

Note in relation to herbicide and insect resistance

One of the genetically modified organisms referred to in this licence (Bollgard[®] II cotton) falls into *the Agricultural and Veterinary Chemicals Code (1994)* definition of an agricultural chemical product, due to its production of an insecticidal substance, and therefore is subject to regulation by the Australian Pesticides and Veterinary Medicines Authority (APVMA), formerly the National Registration Authority for Agricultural and Veterinary Chemicals.

The APVMA has imposed conditions in connection with the insecticidal activity of this genetically modified organism, including specifying maximum areas for release, for the purpose of managing the development of insecticide resistance in the target pest species. Conditions of this licence do not relate to management of insecticide resistance, and do not replace any conditions set by the APVMA. The licence holder must comply with any conditions imposed by the APVMA in relation to dealings with this GMO.

Bollgard[®] II/Roundup Ready[®] cotton has been modified to tolerate a herbicide. The APVMA has responsibility for setting registration conditions for the use of herbicides in Australia, including implementation of herbicide resistance management programs. Conditions of this licence do not relate to use of herbicide, and do not replace any conditions set by the APVMA. The licence holder must comply with any conditions imposed by the APVMA in relation to the use of herbicides in connection with these GMOs.

PART 1

This instrument, including its attachments, is a licence authorising dealings involving the intentional release of GMOs into the environment. It is issued by the Gene Technology Regulator (the Regulator) pursuant to the *Gene Technology Act 2000* (Cth).

Holder of licence

1. The holder of this licence ('the licence holder') is Monsanto Australia Ltd.

Project Supervisor

2. The Project Supervisor in respect of this licence is the person identified at 'Project Supervisor' at Attachment A

Persons covered by licence

3. The persons covered by this licence are the licence holder and other persons who undertake any dealings in connection with the GMO authorised by condition 5 of Part 1 of this licence.

(Explanatory note: Each person covered by this licence is a 'person covered by a GMO licence' for the purposes of the Gene Technology Act 2000 (Cth)).

Description of GMO covered

4. The GMO covered by this licence ('the GMO') is identified and described at 'GMO Description' at Attachment B.

Dealings authorised by licence

5. This licence authorises the licence holder and persons covered by the licence to conduct certain limited dealings with the GMO subject to the limitations on dealing with the GMO that are contained elsewhere in the conditions in this licence.

Period covered by licence

6. This licence remains in force until it is cancelled or surrendered. No dealings with the GMO are authorised during any period of suspension.

(Explanatory note: If adverse effects are reported by the Licence holder or detected through the research program, these must be reported to the Gene Technology Regulator immediately, who will then vary the Licence conditions to protect the health and safety of people and the environment)

PART 2

Interpretation and Definitions

Words and phrases used in this licence have the same meanings as they do in the *Gene Technology Act 2000* (the Act) and the *Gene Technology Regulations 2001*.

Words importing a gender include any other gender.

Words in the singular include the plural and words in the plural include the singular.

Words importing persons include a partnership and a body whether corporate or otherwise.

References to any statute or other legislation (whether primary or subordinate) is to a statute or other legislation of the Commonwealth of Australia as amended or replaced from time to time unless the contrary intention appears.

Where any word or phrase is given a defined meaning, any other part of speech or other grammatical form in respect of that word or phrase has a corresponding meaning.

In this licence:

‘APVMA’ means the Australian Pesticides and Veterinary Medicines Authority

‘Burial site’ means a site at which seed from the GMOs or the Pollen Trap plants is destroyed by burial under at least 1 metre of soil.

‘Clean’ (or **‘Cleaned’** or **‘Cleaning’**) means, as the case requires:

in relation to a Location or an area, the destruction of the GMO, viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants in that Location or area, to the reasonable satisfaction of the Regulator; or

in relation to Equipment, the removal and destruction of the GMO and viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants from the Equipment, to the reasonable satisfaction of the Regulator.

‘Cotton’ means plants of the species *Gossypium hirsutum* L.

‘Covered Vehicles’ means vehicles that use tight fitting covers to prevent spillage of the seed transported in them (for example, vehicles that contain seed in steel or aluminium bulk bins covered with tight, well fitting weather-proof tarpaulins or similar).

‘Destroy’, (or **‘Destroyed’** or **‘Destruction’**) means, as the case requires, killed by one or more of the following methods:

- a) stalk pulling; or
- b) uprooting by ploughing; or
- c) burning; or
- d) treatment with herbicide; or
- e) hand weeding; or
- f) autoclaving; or
- g) in respect of seed only, burial under at least 1 metre of soil.

Note (1): 'As the case requires' has the effect that, depending on the circumstances, one or more of these techniques may not be appropriate. For example, in the case of killing the remains of harvest of the GMO, treatment of post harvest remains by herbicide would not be a sufficient mechanism.

Note (2): Where method (g) is adopted, this licence contains additional conditions relating to burial as a method of destruction. 'Equipment' includes harvesters, seeders, storage equipment, transport equipment (eg bags, containers, trucks), ginning facilities, clothing and tools.

'Feral cotton' means naturalised, self-perpetuating populations of *Gossypium hirsutum* L. and/or *Gossypium barbadense* L.

'GM' means genetically modified.

'GMO' means Bollgard® II and Bollgard® II/Roundup Ready® cotton, which are genetically modified cotton, as described at 'GMO Description' at Attachment B.

'Isolation Zone' means the area of land, extending outwards 50 metres in all directions from the outer edge of a Location.

'Location' means an area of land where the GMO is planted and grown.

Explanatory note: In this licence, before the GMO is planted and grown in a field or other area, this licence refers to that field or area as an area or place. Once the GMO is planted in a field or place, while it is being grown and thereafter, this licence refers to that field or place as a Location

'Material from Pollen Trap plants' means seed, stubble, pollen or any GM material (including parts of a plant) that is derived from or produced by cotton from a Pollen Trap.

'Material from the GMO' means GM seed, stubble, pollen or any other GM material (including part of GMO) that is derived from or produced by the GMO, but does not include cotton lint derived from ginning.

Note: cotton lint derived from ginning is not intended to be controlled by any licence conditions in this licence.

'Natural Waterways' means waterway other than irrigation channel, holding dam or storage pond used to collect water run-off from irrigated areas.

'OGTR' means the Office of the Gene Technology Regulator.

'Pollen Trap' means an area of land, extending at least 20 metres in all directions from the outer edge of a Location, containing non-genetically modified cotton that is grown in such a way as to reasonably promote a dense and vigorous growth and flowering of the non-genetically modified cotton at the same time as the GMO.

'Pollen Trap plant' means a cotton plant from a Pollen Trap.

‘Restricted Zone’ means north of latitude 22° South in NT, QLD and WA.

‘Sign-off’ means a notice in writing from the Regulator that the conditions of this licence no longer apply.

‘Volunteer plant’ means progeny of the GMO or of a Pollen Trap plant, or regrowth of previous GM or non-GM cotton plants.

PART 3

Conditions of licence

The licence holder and persons covered by this licence must comply with the conditions of this licence.

Section 1: General Conditions

Informing people of their obligations

1.1 The licence holder must inform each person covered by this licence of the obligations imposed on them as a result of the conditions in this licence.

Reporting

1.2 The licence holder must immediately notify the Regulator in writing if the licence holder becomes aware of:

- (a) additional information as to any risks to the health and safety of people, or to the environment, associated with the dealings authorised by the licence; or
- (b) any contraventions of the licence by a person covered by the licence; or
- (c) any unintended effects of the dealings authorised by the licence.

1.3 The licence holder must provide the Regulator with a written report within 90 days of each anniversary of this licence, in accordance with any Guidelines issued by the Regulator in relation to annual reporting. This report must include notification of any adverse impacts on human health and safety or the environment, caused as a result of the GMO.

Material Changes in circumstances

1.4 The licence holder must immediately, by notice in writing, inform the Regulator of:

- (a) any relevant conviction of the licence holder occurring after the commencement of this licence;
- (b) any revocation or suspension of a licence or permit held by the licence holder under a law of the Commonwealth, a State or a foreign country, being a law relating to the health and safety of people or the environment;
- (c) any event or circumstances occurring after the commencement of this licence that would affect the capacity of the holder of this licence to meet the conditions in it.

Remaining an Accredited organisation

- 1.5 The licence holder must, at all times, remain an accredited organisation in accordance with the Act and comply with any conditions of accreditation set out in the OGTR Guidelines for Accreditation of Organisations.

Changes to details

- 1.6 The licence holder must immediately notify the Regulator in writing if any of the contact details of the Project Supervisor change.

Testing Methodology

- 1.7 The licence holder must provide a written instrument to the Regulator describing an experimental method that is capable of reliably detecting the presence of the GMO and any transferred genetically modified material that might be present in a recipient organism. The instrument must be provided within 30 days of planting the GMO.

Section 2: Specific Conditions in connection with any release of the GMOs in Australia south of latitude 22° south (outside the Restricted Zone)

- 2.1 The licence holder may conduct dealings with the GMOs south of latitude 22 degrees South.

Transport of GM whole cotton seed into the Restricted Zone

- 2.2 The licence holder must provide written notification to cotton gins from which GM whole cotton seed will be transported into the Restricted Zone stating the requirements for transportation into the Restricted Zone required by Condition 2.5. The licence holder must also maintain a record of this action.
- 2.3 The licence holder must prepare and distribute to cotton gins from which GM whole cotton seed will be transported into the Restricted Zone sufficient copies of the sign required by Condition 2.5 (b). This sign must accompany each shipment of cotton seed into the restricted Zone, as required by Condition 2.5.
- 2.4 Cotton gins from which GM whole cotton seed is transported into the Restricted Zone must convey the information in the notification prepared by the licence holder under Condition 2.2 to transporters of GM whole cotton seed into the Restricted Zone, provide transporters with a sign to accompany every shipment of cottonseed into the restricted Zone, and must maintain a record of this action.
- 2.5 Transporters of GM whole cotton seed to destinations within the Restricted Zone must:
- (a) only transport the GM whole cotton seed in Covered Vehicles;
 - (b) sign Covered Vehicles to indicate that they contain GM whole cotton seed, and with instructions to contact the licence holder in the event that the GM whole cotton seed is spilt or misdirected, including telephone contact numbers.

Use of ginned GM whole cotton seed within the Restricted Zone

- 2.6 Following ginning, the GMO and Material from the GMO may be fed to stock in the Restricted Zone only if feeding takes place inside stockyards, feedlots or dairies.
- 2.7 The licence holder must, in consultation with the OGTR, develop a communication strategy, including a document for distribution, to convey the importance of appropriate control of cotton volunteers, to all recipients of GM whole cotton seed within the Restricted Zone.
- 2.8 The licence holder must provide a written request to cotton gins from which GM whole cottonseed is transported into and within the Restricted Zone that the cotton gins attach the document required by Condition 2.7 to bills of loading, invoices, weighbridge certificates and like documents, such that recipients of GM whole cotton seed in the Restricted Zone will receive a copy of the document.

- 2.9 The licence holder must take all reasonable steps to distribute the document specified in Condition 2.7 to:
- a) the cotton gins from which GM whole cotton seed is sourced for transport into and within the Restricted Zone;
 - b) the transporters of GM whole cotton seed into and within the Restricted Zone; and
 - c) all recipients of GM whole cotton seed within the Restricted Zone, including retailers and the end users of the GM whole cotton seed.
- 2.10 The licence holder must, in consultation with the OGTR, survey farms within the Restricted Zone to seek to determine the incidence of Volunteer plants on those farms and their management by farmers. The survey results must be included in the written report that must be submitted to the Regulator within 90 days of each anniversary of this licence.

Research on gene flow and environmental impacts

- 2.11 The licence holder must, in consultation with the OGTR, develop an agreed research program to ensure the ongoing effectiveness of management actions and to monitor the environmental impacts of the GMO outside the Restricted Zone. This must include (but need not be limited to) collecting information on:
- a) the effects of the GMO on key pests and beneficial insects (including Diptera) and soil microorganisms; and
 - b) the potential development of pests resistant to the insecticidal activity of the GMO.

Section 3: Specific Conditions in connection with any release of the GMO in Australia within the Restricted Zone

GMO not permitted in Restricted Zone except as contemplated by this licence

- 3.1. The GMO and Material from the GMO are not permitted in the Restricted Zone (including the growing of the GMO and the transportation of the GMO into or within the Restricted Zone), except in accordance with the exceptions in Section 2 above and the following specific conditions.

Locations and size of release

- 3.2. The GMO may be planted and grown at up to 20 (and not more than 20) Locations at any one point in time.
- 3.3. If the GMO is grown, it may only be planted at the Locations specified in Attachment C.
- 3.4. No single Location may exceed 200 hectares in area.
- 3.5. The maximum area of all Locations under all Licences planted to the GMO at any one point in time must not exceed 800 hectares.
- 3.6. The GMO must not be planted within 50 metres of a Natural Waterway.

Notification of Locations

- 3.7. Prior to planting the GMO at an area, the area's GPS coordinates and either a street address or other directions to the area must be provided to the Regulator by notice in writing. The notice must identify the GMO proposed to be grown at the area, by reference to its 'GMO details' as set out at Attachment B. If more than one of the GMOs identified at 'GMO details' at Attachment B is proposed to be grown at the area, the notice must provide additional details about where, within the area, the different GMOs are proposed to be grown.

Licence holder must be able to access and control places used in connection with this licence

- 3.8. The licence holder must be able to access and control a Location or other area used in connection with this licence, other than areas where stock are fed GM cotton seed and areas where stock fed with GM cotton seed are subsequently grazed, to the extent necessary to comply with this licence, for the duration of the life of the licence.

Notification of planting of the GMOs

- 3.9. The licence holder must provide notices in writing to the Regulator of the actual date or dates of commencement of planting of the GMOs at each Location (and Pollen Trap in respect of each Location) ('the actual planting date notice'), together with the Location's

GPS coordinates and either a street address, or other directions to the Location. This notice must be provided within 7 days of commencement of planting of the GMOs at the Location.

Notification of flowering and harvest of the GMOs

- 3.10. The licence holder must provide notices in writing to the Regulator in respect of the forecasted date or dates of commencement of flowering of the GMOs at each Location (and Pollen Trap in respect of each Location) ('the forecast flowering date notice'). This notice must be provided at least 7 days, and not more than 40 days, prior to the forecasted date or dates of commencement of flowering set out in the notice.
- 3.11. The licence holder must provide notices in writing to the Regulator in respect of the forecasted date or dates of harvest of the GMOs at each Location (and Pollen Trap in respect of each Location) ('the forecast harvest date notice'). This notice must be provided at least 7 days prior to the forecasted date or dates of harvest set out in the notice, and not prior to the provision of the forecast flowering date notice. (The forecast flowering date notice and the forecast harvest date notice may be combined.)
- 3.12. The licence holder must provide notices in writing to the Regulator in respect of the actual date or dates of completion of harvesting of the GMOs at each Location (and Pollen Trap in respect of each Location) ('the actual harvest date notice'). This notice must be provided within 21 days of completion of harvesting of the GMOs at a Location.

Measures to manage gene flow

- 3.13. Each Location must be surrounded by either:
- a) a Pollen Trap; or
 - b) an Isolation Zone which complies with Condition 3.14.
- 3.14. An Isolation Zone may only be used for a Location where there are:
- (a) no naturalised cotton populations (*Gossypium hirsutum* or *G. barbadense*) within 450 m of the Location; and
 - (b) no Cotton crops within 450 m of the Location, except for Cotton crops grown pursuant to this licence.

Conditions relating to Pollen Traps

- 3.15. If a Pollen Trap is planted, the plants in it (Pollen Trap plants) must be handled and controlled as if they are the GMO (ie subject to other applicable conditions elsewhere in this licence), and Material from Pollen Trap plants must be handled and controlled as if it is Material from the GMO (ie subject to applicable conditions elsewhere in this licence).

- 3.16. A Pollen Trap must be able to be accessed and controlled by the licence holder to an extent that is commensurate with the licence holder's rights to access the Location within it.

Note: Specific conditions about Cleaning Pollen Traps occur elsewhere in this licence.

Conditions relating to Isolation Zones

- 3.17. No cotton of any kind may be grown in an Isolation Zone, nor may any flowering cotton plants be present in an Isolation Zone, while the GMO is being grown at the Location within it, excepting another Location planted with the same GMO authorised by this licence or a previous licence.
- 3.18. If any vegetative cotton plants, excepting another Location planted with the same GMO authorised by this licence or a previous licence, occurs in an Isolation Zone, the vegetative cotton plants must be Destroyed prior to flowering, and any subsequent Material handled as if it is Material from the GMO.
- 3.19. An Isolation Zone must be able to be accessed and controlled by the licence holder to an extent that is commensurate with the licence holder's rights to access the Location within it.
- 3.20. Subject to condition 3.61, if any cotton crop not grown pursuant to this licence occurs within 450 m of a Location with an Isolation Zone while the GMOs are being grown at the Location, either the cotton crop or the GMOs in the Location must be Destroyed prior to flowering. If GMOs are Destroyed pursuant to this condition, the GMOs are taken to have been harvested for the purposes of this licence.

Material from the GMOs may be collected

- 3.21. Any Material from the GMO and Material from Pollen Trap plants may be collected from a Location for the purpose of conducting experiments on it.
- 3.22. Subject to condition 3.23, any Material from the GMO and Material from Pollen Trap plants that is collected may be transported off the Location to:
- a) a facility certified by the Regulator to physical containment level 2 (PC2); or
 - b) a facility approved in writing by the Regulator and signed so as to indicate that GM material is stored within the facility,

and may be experimented on and stored in any one or more of these facilities.

- 3.23. Any Material from the GMO and Material from Pollen Trap plants that is collected from Locations at the Frank Wise Institute (Kununurra) or from Locations in Broome may be transported off the Location to the following facilities:
- a) building 6 and building 21, Room 1 (laboratories); or
 - b) building 7 (office); or
 - c) buildings 12, 18, 19 and 20 (sheds); or
 - d) storage shed and/or Department laboratory at Hunter Street, Broome,

and may be experimented on and stored in any one or more of these facilities. Each facility must be signed so as to indicate that GM material is stored within the facility.

3.24. After any experiments with the material from the GMOs are completed, the Material from the GMO and Material from Pollen Trap plants must be Destroyed.

Harvest and post-harvest procedures

3.25. If the GMO or Pollen Trap plants are harvested, they must be harvested separately from any other cotton.

3.26. If seed cotton harvested from the GMO or from Pollen Trap plants is ginned in areas north of latitude 22° South, it must be ginned separately from any other cotton.

3.27. Following ginning in areas north of latitude 22° South, seed from the GMO and Pollen Trap plants must be:

- a) stored in a sealed container that is signed so as to indicate that it contains GM cotton seed, within a locked facility that is signed so as to indicate that GM cotton seed is stored within the facility; or
- b) exported; or
- c) transported south of latitude 22° South; or
- d) used for stockfeed in accordance with the conditions in this licence (see Condition 2.6); or
- e) rendered non-viable by roller crushing or extrusion; or
- f) incinerated.

3.28. Any cotton seed obtained from harvest may only be transported to the extent necessary to gin it and then to comply with this licence.

Note: This licence contains other conditions relating more specifically to transportation of the GMO and GM Material from the GMO.

Conditions relating to burial of seed

3.29. If seed from the GMOs or Pollen Trap plants is buried, the licence holder must:

- (a) Within 30 days of burial, provide the Regulator by notice in writing of the precise location of the Burial site (GPS coordinates and either a street address or other directions to the Burial site) and the date on which it was buried.
- (b) Monitor the burial site at least once every 3 months for a period of 12 months to identify:
 - (i) any significant disturbance that may effect the emergence of volunteer plants and if disturbance is identified, notify the Regulator of appropriate remedial action taken; and
 - (ii) any emergence of Volunteer plants. If Volunteer plants are identified, the Burial site must be Cleaned.

Cleaning – post harvest and generally

- 3.30. Where Equipment (including harvesters, storage equipment, transport equipment, ginning facilities and clothing), a Location or other area is used pursuant to this licence in respect of the GMO, viable Material from GMO, Pollen Trap plants or viable Material from Pollen Trap plants, it must be Cleaned.
- 3.31. For each Location, either within 14 days of harvest of the GMO or 12 months after planting, whichever occurs first, the Location must be Cleaned.
- 3.32. Within 14 days of either harvest or Cleaning of the GMO at a Location, whichever occurs first, the area containing the Pollen Trap in respect of that Location, if any, must be harvested or Cleaned.
- 3.33. Equipment used on Site 19 from 1 September 2005 until harvest of sugarcane, including equipment used during harvest of the sugarcane, must be Cleaned.
- 3.34. Equipment used on Locations while post-harvest soybean crops are grown, including equipment used during harvest of soybean crops, must be Cleaned.
- 3.35. When Equipment is Cleaned, the area in which the Equipment is Cleaned must also be Cleaned.

Explanatory note: For the sake of clarity, it is not necessary for Equipment to be Cleaned only at a Location.

- 3.36. Cleaning must occur immediately or as soon as practicable after the use and before use for any other purpose.

Explanatory note: For example, if seed is harvested with a mechanical harvester, the harvester must be Cleaned immediately following its use and before any other cotton is harvested.

Post-harvest monitoring

- 3.37. Following Cleaning of each Location, the following places must be inspected for the existence of Volunteer plants:
 - a) the Location;
 - b) the Pollen Trap in respect of the Location, if any;
 - c) the Isolation Zone in respect of the Location, if any;
 - d) any areas used to Clean Equipment used in connection with the GMO or to destroy the GMO, viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants;
 - e) irrigation channels or drains through which water used on the Location (or Pollen Trap, if any) flows;
 - f) any area of land where non-GM cotton has been grown pursuant to Condition 3.20;and

- g) the area between the Location and any sinkholes into which water from the Location flows, as well as the immediate area surrounding these sinkholes.
- 3.38. Unless otherwise provided for in this licence, a place must be inspected at least once every 60 days:
- (a) between the times when crops of the GMOs are grown pursuant to this licence; and
 - (b) after the last GMOs are grown pursuant to this licence;
- until such time as the Regulator has issued a Sign-off.
- 3.39. Inspection must be performed by a person who is able to recognise Volunteer plants.
- 3.40. Any Volunteer plants detected during monitoring must be Destroyed before setting seed. The results of inspection activities must be recorded in a logbook or paper file. The findings of the inspections as recorded in the logbook or paper file must be forwarded to the Regulator within 14 days of inspection taking place and must also be included in the licence holder's Annual Report to the Regulator. The logbook or paper file must contain at least the following:
- (a) details of the areas inspected;
 - (b) details of the date of inspection;
 - (c) the names of the person or persons who undertook the monitoring and details of the experience, training or qualification that enabled them to recognise Volunteer Plants;
 - (d) the means of inspection used;
 - (e) the number of Volunteer Plants observed, if any;
 - (f) details of the development stages reached by the Volunteer Plants, if any; and
 - (g) details of methods used to Destroy Volunteer Plants, if any.
- 3.41. A Location which has been planted with adzuki beans, green beans or chickpeas must be inspected at least once every 35 days until the crop is harvested. Following harvest, the Location must be inspected at least once every 60 days
- 3.42. Inspections at places in relation to Site 19 must be conducted at least once every 35 days until 1 September 2005.
- 3.43. From 1 September 2005 inspections at Site 19 may be suspended until the sugarcane planted on the Location is harvested.
- 3.44. After harvest of the sugar cane crop on Site 19, inspections at the Location must occur at least once every 60 days.
- 3.45. If a soybean crop is planted at a Location, inspection must be suspended from five weeks after planting the soybean crop until the crop is harvested.

3.46. After the harvest of the soybean crop, inspection at the Location must occur at least once every 60 days.

3.47. If:

- (a) inspections have been routinely completed in a place for a period of a year; and
- (b) inspection records for that place show that no Volunteers have been observed in the most recent 6 month inspection period;

the licence holder may make written application to the Regulator that these inspection conditions no longer apply in respect of that place.

3.48. Inspection conditions do not apply in respect of a place if the Regulator has issued a Sign-off in respect of that place.

General conditions on use of Locations post-harvest

3.49. If the GMO is grown at a Location, no plants may be planted at the Location, or Pollen Trap in respect of the Location, if any, until monitoring obligations are completed unless:

- a) the plants are grasses (grass pastures); or
- b) the plants are cereals (cereal crops); or
- c) the plants are peanuts; or
- d) the plants are adzuki beans; or
- e) the plants are chickpeas; or
- f) the plants are green beans; or
- g) the plants are lucerne; or
- h) the plants are navy beans; or
- i) the plants are burgundy beans; or
- j) the plants are lablab; or
- k) the plants are sugarcane planted during March 2005 on site 19 in the Burdekin shire, Northern Queensland; or
- l) the plants are plants agreed to in writing by the Regulator; or
- m) the plants are the GMOs planted for the season 2005/2006; or
- n) the Regulator has issued a Sign-off.

Use of Locations in successive years

3.50. If the Regulator agrees in writing, pursuant to condition 3.49 above, to the planting of crops of either GM or non-GM cotton, then the GM or non-GM cotton is a crop of the GMOs for the purposes of this licence.

(This means that all the conditions in Section 3 of this licence, including restrictions on the total amount of GMOs that can be planted, the requirement for a Pollen Trap or Isolation Zone and Cleaning and post-harvest inspection conditions, apply to the Location if it is replanted with GM or non-GM cotton.)

Transportation of the GMO, Material from the GMO, Pollen Trap plants and Material from Pollen Trap plants

3.51. Unless otherwise provided for in the transport conditions below, the GMO, Material from the GMO, Pollen Trap plants and Material from Pollen Trap plants must not be transported within or into the Restricted Zone unless in accordance with the OGTR Guidelines for the Transport of GMOs (June 2001) issued by the Regulator.

Explanatory note: Cotton lint derived from ginning is not subject to these transportation conditions.

3.52. Harvested GMOs, Material from the GMOs, Pollen Trap plants and Material from Pollen Trap plants may be transported to a ginning facility in a cotton module that is:

- (a) completely enclosed within 2 layers of tarpaulin ('double wrapped in tarpaulin'); or
- (b) completely enclosed within a layer of tarpaulin and a layer of shade cloth ('double wrapped in tarpaulin and shade cloth'); or
- (c) contained within an enclosed chain-bed truck specifically designed for the purpose of transporting cotton modules.

3.53. Seeds from the GMO or Pollen Trap plants that have been ginned may only be transported for export in sealed, airtight shipping containers.

3.54. Seeds from the GMO or Pollen Trap plants that have been ginned may be transported to stockyards, feedlots or dairies (for use as stockfeed) in Covered Vehicles.

3.55. Every container used to transport the GMO, viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants must be labelled:

- (a) to indicate that it contains genetically modified cotton; and
- (b) with telephone contact numbers for the licence holder and instructions to contact the licence holder in the event that the container is broken or misdirected.

3.56. The licence holder must have in place accounting procedures to verify whether the same quantity of GMO, viable Material from the GMO, Pollen Trap Plants or Material from Pollen Trap plants sent is delivered. Routes, methods and procedures used for transportation of the GMO, viable Material from the GMO, Pollen Trap plants and viable Material from Pollen Trap plants must be documented.

Contingency Plan

- 3.57. Within 30 days of the date of the commencement of this licence, a written Contingency Plan must be submitted to the Regulator detailing measures to be taken in the event of the unintended presence of the GMO, viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants outside a Location, Pollen trap in respect of a Location or other area that must be monitored.
- 3.58. The Contingency Plan must include details of procedures to:
- a) ensure the Regulator is notified immediately if the licence holder becomes aware of an event;
 - b) destroy any of the GMO, viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants; and
 - c) monitor for and destroy any Volunteer plants that may exist as a result of the event.
- 3.59. The Contingency Plan must be implemented in the event that the unintended presence of the GMO, viable Material from the GMO, Pollen Trap plants or viable Material from Pollen Trap plants is discovered outside an area that must be monitored.

Compliance Management Plan

- 3.60. Prior to planting the GMO, a written Compliance Management Plan must be provided to the Regulator. The Compliance Management Plan must describe in detail how the licence holder intends to ensure compliance with these conditions and to document that compliance.

Research on gene flow and environmental impacts

- 3.61. The licence holder must, in consultation with the OGTR, conduct an annual survey of:
- (a) the incidence of volunteer cotton in areas where stock are fed GM whole cotton seed;
 - (b) the incidence of volunteer cotton in areas where stock graze after being fed GM whole cotton seed; and
 - (c) the extent to which the communication strategy, required by condition 2.7, has been effective.
- 3.62. The licence holder must, in consultation with the OGTR, develop an agreed research program to ensure the ongoing effectiveness of management actions and to monitor the environmental impacts of the GMO within the Restricted Zone (north of latitude 22° South). This must include (but need not be limited to) collecting information on:
- a) the potential weediness of GM cotton in northern Australia;
 - b) the effects of the GMO on key pests and beneficial insects (including Diptera) and soil microorganisms; and
 - c) the potential development of pests resistant to the insecticidal activity of the GMO.

- 3.63. The licence holder is encouraged to conduct research in connection with dealings within the Restricted Zone (north of latitude 22° South) in connection with the following:
- a) the distribution of Feral cotton in northern Australia;
 - b) the effectiveness of any Pollen Trap in preventing gene flow from the GMO to non-genetically modified cotton, including Feral cotton;
 - c) the effectiveness of any Isolation Zone in preventing gene flow from the GMO to non-genetically modified cotton, including Feral cotton;
 - d) the relative prevalence and impact on Feral cotton in northern Australia of lepidopteran and other arthropod herbivores;
 - e) integrated pest management strategies for Bollgard[®] II and Bollgard[®] II/Roundup Ready[®] cotton, particularly in northern Australia;
 - f) the distribution of volunteer cotton along transport routes in northern Australia.
- 3.64. The licence holder must, in consultation with the OGTR, develop an agreed research program in connection with dealings within the restricted zone involving Locations without a Pollen Trap, to help determine effectiveness of measures to manage gene flow. For this purpose, plots of non-GM cotton may be grown outside an Isolation Zone but within 450 m of a Location. Once such non-GM cotton begins to flower, it must be handled and controlled as if it is the GMO, ie subject to other applicable conditions of this licence.
- 3.65. The findings of research, detailed in conditions 3.58 to 3.61 must be included in the licence holder's annual report to the OGTR.

Note: The OGTR will review licence conditions, including approval for further planting, in light of results from the research program after two years from the date of issue of this licence (or earlier).

Special conditions in relation to the planting of the GMOs in Winter 2004 in Burdekin Shire

- 3.66. The following special conditions apply, additionally to the other conditions in this licence, to the Locations identified in Attachment C to this licence as Location sites Eighteen and Nineteen, in the Shire of Burdekin (collectively 'the Winter 2004 Burdekin Locations'). To the extent of any inconsistency between these special conditions and other conditions in this licence, these special conditions prevail.
- 3.67. One crop of the GMOs, and one crop only, may be grown at each of the Winter 2004 Burdekin Locations during the winter 2004 cotton-growing season. GMOs may not be planted at the Winter 2004 Burdekin Locations after June 2004.
- 3.68. The maximum size of all the Winter 2004 Burdekin Locations must not exceed 30 hectares and no single Winter 2004 Burdekin Location may exceed 15 hectares.

- 3.69. Prior to planting the GMO at an area, the area's GPS coordinates and either a street address or other directions to the area must be provided to the Regulator by notice in writing. The notice must identify the GMO proposed to be grown at the area, by reference to its 'GMO details' as set out at Attachment B. If more than one of the GMOs identified at 'GMO details' at Attachment B is proposed to be grown at the area, the notice must provide additional details about where, within the area, the different GMOs are proposed to be grown.
- 3.70. The research conditions set out elsewhere in this Section do not apply to the Winter 2004 Burdekin Locations.

Special conditions in relation to the planting of the GMOs in Summer 2004/2005 in Mareeba Shire

- 3.71. The following special conditions apply, additionally to the other conditions in this licence, to the Locations identified in Attachment C to this licence as Location sites Thirty four and Thirty five, in the Shire of Mareeba (collectively 'the Summer 2004/2005 Mareeba Locations'). To the extent of any inconsistency between these special conditions and other conditions in this licence, these special conditions prevail.
- 3.72. One crop of the GMOs, and one crop only, may be grown at each of the Summer 2004/2005 Mareeba Locations during the Summer 2004/2005 cotton-growing season. GMOs may not be planted at the Summer 2004/2005 Mareeba Locations after February 2005.
- 3.73. The maximum size of all the Summer 2004/2005 Mareeba Locations must not exceed 60 hectares and no single Summer 2004/2005 Mareeba Location may exceed 30 hectares.
- 3.74. Prior to planting the GMO at an area, the area's GPS coordinates and either a street address or other directions to the area must be provided to the Regulator by notice in writing. The notice must identify the GMO proposed to be grown at the area, by reference to its 'GMO details' as set out at Attachment B. If more than one of the GMOs identified at 'GMO details' at Attachment B is proposed to be grown at the area, the notice must provide additional details about where, within the area, the different GMOs are proposed to be grown.
- 3.75. Not used.
- 3.76. The research conditions set out elsewhere in this Section do not apply to the Summer 2004/2005 Mareeba Locations.

Special conditions in relation to the planting of the GMOs in Summer 2004/2005 in Burdekin Shire

- 3.77. The following special conditions apply, additionally to the other conditions in this licence, to the Locations identified in Attachment C to this licence as Location sites Twenty four and Twenty nine through Thirty two in the Shire of Burdekin (collectively 'the Summer 2004/2005 Burdekin Locations'). To the extent of any inconsistency between these special conditions and other conditions in this licence, these special conditions prevail.

- 3.78. One crop of the GMOs, and one crop only, may be grown at each of the Summer 2004/2005 Burdekin Locations between December 2004 and December 2005.
- 3.79. Crops of the GMOs may be planted at a Location in stages (to facilitate experiments with the GMOs.) However, GMOs may not be planted before December 2004 or after April 2005. If a crop of the GMOs is planted in stages, it is taken to have been planted when the first stage of the crop is planted.

Note: Condition 3.31 of this licence requires a crop of the GMOs to be harvested or Cleaned 12 months after it is planted. Condition 3.79 is intended to enable a crop of the GMOs to be planted progressively over a period of months. Where this takes place, the entire crop (containing all the various stages that have been planted over time) must be harvested or Cleaned when the earliest planted part of the crop has been in the ground for 12 months.

- 3.80. The maximum size of all the Summer 2004/2005 Burdekin Locations must not exceed 100.4 hectares.
- 3.81. Prior to planting the GMO at an area, the area's GPS coordinates and either a street address or other directions to the area must be provided to the Regulator by notice in writing. The notice must identify the GMO proposed to be grown at the area, by reference to its 'GMO details' as set out at Attachment B. If more than one of the GMOs identified at 'GMO details' at Attachment B is proposed to be grown at the area, the notice must provide additional details about where, within the area, the different GMOs are proposed to be grown. The, size of the Location and a statement as to whether the Location is to be planted in stages must be included in the notice.
- 3.82. Not used.
- 3.83. The research conditions set out elsewhere in this Section do not apply to the Summer 2004/2005 Burdekin Locations.

Special conditions in relation to the planting of the GMOs in Summer 2005/2006 in Burdekin Shire

- 3.84. The following special conditions apply, additionally to the other conditions in this licence, to the Locations identified in Attachment C to this licence as Location site Thirty two in the Shire of Burdekin. To the extent of any inconsistency between these special conditions and other conditions in this licence, these special conditions prevail.
- 3.85. One crop of the GMOs, and one crop only, may be grown at the Summer 2005/2006 Burdekin Location between December 2005 and December 2006.
- 3.86. GMOs may not be planted before December 2005 or after April 2006.
- 3.87. The maximum size of the Summer 2005/2006 Burdekin Location must not exceed 10 hectares.

- 3.88. Prior to planting the GMO at an area, the area's GPS coordinates and either a street address or other directions to the area must be provided to the Regulator by notice in writing. The notice must identify the GMO proposed to be grown at the area, by reference to its 'GMO details' as set out at Attachment B. If more than one of the GMOs identified at 'GMO details' at Attachment B is proposed to be grown at the area, the notice must provide additional details about where, within the area, the different GMOs are proposed to be grown. The size of the Location must be included in the notice.
- 3.89. The research conditions set out elsewhere in this Section do not apply to the Summer 2005/2006 Burdekin Location.

Special conditions where GMOs are grown in pots on concrete flooring inside a shade house or glasshouse

- 3.90. If the GMOs are grown, in pots, at a Location comprising a shade house, or a glasshouse, constructed over concrete flooring:
- a) conditions 3.36-3.46 do not apply in respect of the Location; and
 - b) the notice required to be given to the Regulator by condition 3.9 must include a statement that the Location comprises a shade house, or a glasshouse, constructed over concrete flooring; and
 - c) following harvest or Destruction of the GMOs, soil from the pots in which the GMOs were grown must be immediately relocated to a Location where the GMOs are being grown in a field; and
 - d) the notice required to be given to the Regulator by condition 3.12 must specify the Location to which soil has been relocated
- 3.91. If the GMOs are grown, in pots, at a Location comprising a shade house, or a glasshouse, constructed over concrete flooring, then prior to commencement of seed set, the plants may be moved to the area directly outside the shade house or glasshouse, provided that the details given in Attachment C for the Location include this area.

Section 4: Specific Conditions in connection with monitoring of trial sites formerly licensed under Deemed Licence PR89X(2)

Explanatory note: Dealings conducted under deemed licence PR89X(2) experimentally compared aspects of the growth of four cotton genotypes; either Bollgard[®] II cotton, Double insecticidal cotton, INGARD[®] or non-GM cotton. It is intended that the research conducted in this Section of the licence continues to compare aspects of the performance of these cotton genotypes at certain experimental sites. The GMOs to which this Section of the licence pertains were planted at the experimental sites under deemed licence PR89X(2).

Locations

- 4.1 The GMOs to which Section 4 pertains have been planted under former Deemed Licence PR89X(2). GMO plants must be monitored at the locations detailed in Attachment D.
- 4.2 No further intentional planting of GMOs is to occur at the locations detailed in Attachment D.

Licence holder must be able to access and control places used in connection with this licence

- 4.3 The licence holder must be able to access and control a location or other area used in connection with Section 4 to the extent necessary to comply with Section 4.

Conditions relating to Research

- 4.4 Research must be performed by a person able to recognise Volunteer plants.
- 4.5 The licence holder must, in consultation with the OGTR, develop an agreed research program to monitor the spread and persistence of the GMOs planted at the locations detailed in Attachment D.
- 4.6 Research must continue until such time as the GMOs are Destroyed and the Locations are Cleaned such that no GMO or Material from the GMO remains at any Location and until the licence holder is notified by the Regulator that monitoring may cease.

Post-Research Destruction of GMOs, Cleaning of Locations and Monitoring

- 4.7 The GMOs may be destroyed and the Locations Cleaned after 30 June 2005, or at such time as the Regulator requests.
- 4.8 The Locations must be monitored at the end of the dry season, prior to rains at the commencement of the wet season and at the end of the dry season, after Cleaning of the Locations and Destruction of any Volunteers. Annual monitoring of the Locations must continue until such time as no further Volunteers are identified at the Location.

Reporting

- 4.9 The Licence Holder must provide the Regulator with a written report within 90 days of each anniversary of this licence, in accordance with any Guidelines issued by the Regulator in relation to annual reporting. This report must include the results of research conducted under Condition 4.6 of this Section.

Cleaning

- 4.10 Where Equipment is used at the Locations pursuant to Section 4 it must be Cleaned. When Equipment is Cleaned, the area in which the Equipment is Cleaned must also be Cleaned. Cleaning must occur immediately or as soon as practicable after the use and before use for any other purpose.

Transportation of the GMO and Material from the GMO

- 4.11 The GMO and Material from the GMO must not be transported within or into the Restricted Zone unless contained with a primary, sealed container that is packed in a secondary, unbreakable container.
- 4.12 Every container used to transport the GMO or viable Material from the GMO must be labelled:
- (a) to indicate that it contains genetically modified cotton; and
 - (b) with telephone contact numbers for the Licence Holder and instructions to contact the Licence Holder in the event that the container is broken or misdirected.
- 4.13 The Licence Holder must have in place accounting procedures to verify whether the same quantity of GMO or viable material from the GMO is delivered. Routes, methods and procedures used for transportation of the GMO and viable Material from the GMO must be documented.

Attachment A to the Licence for dealing involving an intentional release of GMOs into the environment

DIR No: 012/2002

***1. Full Title**

Commercial release of Bollgard® II and Bollgard® II/Roundup Ready® cotton

2. Organisation Details

***Organisation:** Monsanto Australia Ltd
Postal address: PO Box 6051
St Kilda Rd Central VIC 8008
Phone No: (03) 9522 7122
Fax No: (03) 9525 2253

3. Project Supervisor Details

Surname: *[Personal Information Redacted]*
First Name: *[Personal Information Redacted]*
Title: *[Personal Information Redacted]*
Phone No: *[Personal Information Redacted]*
Fax: *[Personal Information Redacted]*
Email Address: *[Personal Information Redacted]*
Position: *[Personal Information Redacted]*
Organisation: Monsanto Australia Ltd
Postal Address: PO Box 6051
St Kilda Rd Central VIC 8008

4. IBC Details

IBC Name: Monsanto IBC

* **Information that must be included in the Record of GM Products and GMOs Dealings.**

Attachment B to the Licence for dealing involving an intentional release of GMOs into the environment

DIR No: 012/2002

GMOs Description

* **Parent Organism(s) Common Name:** Cotton

* **Parent Organism(s) Scientific Name:** *Gossypium hirsutum* L.

* **GMO details:** Bollgard® II and Bollgard® II/Roundup Ready® cotton

Attachment B (continued)

Modified Trait(s)

* **Category:** Insecticidal and/or Insecticidal and Herbicide Tolerance

* **Description:**

Cotton has been genetically modified to contain two insecticidal genes and/or insecticidal genes in combination with a gene that confers tolerance to the herbicide glyphosate (N-(phosphonomethyl)glycine), the active ingredient of Roundup®.

Gene(s) Responsible for Conferring the Modified Trait(s)

Cry1Ac and *Cry2Ab* (insecticidal activity), *CP4 EPSPS* (herbicide tolerance), *nptII* (antibiotic resistance marker) and *uidA* gene (reporter gene).

Purpose of the Dealing with the GMOs

Purpose of the release is the commercial cultivation of Bollgard® II and Bollgard® II/Roundup Ready® cotton south of latitude 22° South, and for a limited and controlled release of these GM cottons on up to 800 hectares north of latitude 22° South in the Northern Territory, northern Western Australia and northern Queensland.

* **Information that must be included in the Record of GM Products and GMOs Dealings.**

* **Information that must be included in the Record of GM Products and GMOs Dealings.**

Attachment B (continued)

The following GMOs relate to locations described in Attachment D

1. GMO Description

***Parent Organism(s) Common Name:** Cotton

***Parent Organism(s) Scientific Name:** *Gossypium hirsutum* L.

***GMO details:** INGARD[®], Double insecticidal cotton, and Bollgard[®] II

2. Modified Trait(s):

***Category:** Insecticidal

***Description:**

INGARD[®] cotton has been genetically modified to contain one insecticidal gene

Double insecticidal cotton and Bollgard[®] II have been genetically modified to contain two insecticidal genes

3. Gene(s) Responsible for Conferring the Modified Trait(s):

INGARD[®] cotton - *Cry1Ac* (insecticidal activity) and *nptII* (antibiotic resistance marker).

Double insecticidal cotton - *Cry1Ac* and *Cry2Aa* (insecticidal activity) and *nptII* (antibiotic resistance marker).

Bollgard[®] II - *Cry1Ac* and *Cry2Ab* (insecticidal activity), *uidA* (reporter gene) and *nptII* (antibiotic resistance marker).

4. Purpose of the Dealing with the GMOs:

Purpose of the release is the continued study of the long-term persistence and spread of GM insecticidal cottons in environments in northern Australia where water is not a limiting factor.

* **Information that must be included in the Record of GM Products and GMOs Dealings.**

Attachment C to the Licence for dealings involving an intentional release of GMOs into the environment in north of 22° South

DIR No: 012/2002

1. The dealings north of latitude 22° South covered by this Licence must only be conducted at the sites described below:

Site One
 Area (hectares): 4.77
 Local Government Area (s): Wyndham/East Kimberley
 Street Address / Directions: Field 2A, Frank Wise Institute, Kununurra
 Map Attached (Yes): No
 GPS Coordinates:

Limits	GPS Co-ordinates
SW	15° 39.175' S 128° 42.597' E
SE	15° 39.208' S 128° 42.701' E
NW	15° 39.051' S 128° 42.661' E
NE	15° 39.088' S 128° 42.758' E

Site Two
 Area (hectares): 10.03
 Local Government Area (s): Wyndham/East Kimberley
 Street Address / Directions: Field 4B, Frank Wise Institute, Kununurra
 Map Attached (Yes): No
 GPS Coordinates:

Limits	GPS Co-ordinates
SW	15° 39.102' S 128° 42.894' E
SE	15° 39.152' S 128° 43.008' E
NW	15° 38.891' S 128° 42.994' E
NE	15° 38.953' S 128° 43.123' E

Site Three
 Area (hectares): not used
 Local Government Area (s):
 Street Address / Directions:
 Map Attached (Yes):
 GPS Coordinates:

Limits	GPS Co-ordinates

Site Four
 Area (hectares): 6.85
 Post harvest monitoring

Local Government Area (s):
Street Address / Directions:

Wyndham/East Kimberley
Field 10A3, Frank Wise
Institute, Kununurra
No

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
SW	15° 38.923 S 128° 42.842 E
SE	15° 38.960 S 128° 42.921 E
NW	15° 38.736 S 128° 43.042 E
NE	15° 38.694 S 128° 42.957 E

Site Five

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

Post harvest monitoring
1.95
Broome
Shamrock Station
No

Limits	GPS Co-ordinates
SW	18° 36.330 S 121° 58.946 E
SE	18° 36.330 S 121° 59.020 E
NW	18° 36.249 S 121° 58.947 E
NE	18° 36.249 S 121° 59.021 E

Site Six

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

3.4
Wyndham/East Kimberley
Field 6A, Frank Wise
Institute, Kununurra
No

Limits	GPS Co-ordinates
SE	15° 39' 29.0" S 128° 42' 59.9" E
SW	15° 39' 27.7" S 128° 42' 57.0" E
NE	15° 39' 19.1" S 128° 42' 05.1" E
NW	15° 39' 17.7" S 128° 42' 02.2" E

Site Seven

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

not used

Limits	GPS Co-ordinates

Site Eight

Area (hectares):

Post harvest monitoring
7.1

Local Government Area (s):
Street Address / Directions:

Wyndham/East Kimberley
Field 10F, Frank Wise
Institute, Kununurra
No

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
SE	15° 38' 36.3" S 128° 42' 50.5" E
SW	15° 38' 33.3" S 128° 42' 44.3" E
NE	15° 38' 23.3" S 128° 42' 57.1" E
NW	15° 38' 22.2" S 128° 42' 49.9" E

Site Nine

Area (hectares):
Local Government Area (s):
Street Address / Directions:

Post harvest monitoring
10
Katherine
Katherine Research
Station, Steemson's
Paddock
No

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
NE	14°27.936'S 132°18.603'E
NW	14°27.917'S 132°18.556'E
SW	14°28.360'S 132°18.422'E
SE	14°28.373'S 132°18.493'E

Site Ten

Area (hectares):
Local Government Area (s):
Street Address / Directions:

27.5
Katherine
Katherine Research
Station, Rideout Paddock
No

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
N	14.27.662'S 132°18.498'E
E	14.27.517'S 132°18.727'E
W	14.27.662'S 132°18.432'E
S	14.27.725'S 132°18.658'E

Site Eleven

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

not used

Limits	GPS Co-ordinates

Site Twelve

Area (hectares):
 Local Government Area (s):
 Street Address / Directions:
 Map Attached (Yes):
 GPS Coordinates:

Not used

Limits	GPS Co-ordinates

Site Thirteen

Area (hectares):
 Local Government Area (s):
 Street Address / Directions:
 Map Attached (Yes):
 GPS Coordinates:

30
 Katherine
 Katherine Research
 Station, Hickeys Farm
 No

Limits	GPS Co-ordinates
SE	14.28.32.96"S 132°13.27.19"E
SW	14.28.33.32"S 132°12.45.32"E
NW	14.27.28.34"S 132°12.45.30"E
NE	14.27.29.47"S 132°13.23.39"E

Site Fourteen

Area (hectares):
 Local Government Area (s):
 Street Address / Directions:
 Map Attached (Yes):
 GPS Coordinates:

5
 Katherine Town Council
 Katherine Research
 Station, Steemson's
 Paddock
 No

Limits	GPS Co-ordinates
NW	14°27.783'S 132°18.478'E
NNE	14°27.815'S 132°18.596'E
NE	14°27.860'S 132°18.616'E
SE	14°27.923'S 132°18.605'E
SW	14°27.876'S 132°18.459'E

Site Fifteen

Area (hectares):
 Local Government Area (s):
 Street Address / Directions:
 Map Attached (Yes):
 GPS Coordinates:

Post harvest monitoring
 20.98
 Katherine Town Council
 Katherine Research
 Station, Hickey's farm
 No

Limits	GPS Co-ordinates
Northern	14°27.960'S 132°12.747'E

Eastern	14°28.217'S 132°13.000'E
Southern	14°28.457'S 132°12.747'E

Site Sixteen

Area (hectares):
Local Government Area (s):
Street Address / Directions:

Post harvest monitoring
6.98
Wyndham/East Kimberley
Field 4A, Frank Wise
Institute, Kunnanurra

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
SW	15°39.284'S 128°42.812'E
NW	15°39.115'S 128°42.889'E
NE	15°39.166'S 128°43.001'E
SE	15°39.313'S 128°42.928'E

Site Seventeen

Not used

Site Eighteen

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

Post harvest monitoring
12.9
Shire of Burdekin
Black's Road, Roy's Block
No

Limits	GPS Co-ordinates
SE	19°40.474'S 147°06.483'E
SW	19°40.515'S 147°06.395'E
NW	19°39.986'S 147°06.466'E
NE	19°39.940'S 147°06.544'E

Site Nineteen

Area (hectares):
Local Government Area (s):
Street Address / Directions:

Post harvest monitoring
10.9
Shire of Burdekin
Shadforth Road,
Lindsay's Block
No

Map Attached (Yes):

GPS Coordinates:

Limits	GPS Co-ordinates
E	19°50.857'S 147°12.252'E
S	19°50.927'S 147°12.243'E
W	19°50.579'S 147°11.814'E
N	19°50.505'S 147°11.819'E

Site Twenty

Area (hectares):

0.96

Local Government Area (s):

Broome

Street Address / Directions:

Broome Highway,
Skuthorpe

Map Attached (Yes):

No

GPS Coordinates:

Limits	GPS Co-ordinates
SW	17°51.257'S 122°27.594'E
NW	17°51.221'S 122°27.580'E
NE	17°51.208'S 122°27.662'E
SE	17°51.242'S 122°27.670'E

Site Twenty one

Area (hectares):

10

Local Government Area (s):

Katherine

Street Address / Directions:

Katherine Research
Station, Steemson's
Paddock

Map Attached (Yes):

No

GPS Coordinates:

Limits	GPS Co-ordinates
NW	14°27.889'S 132°18.456'E
NE	14°27.909'S 132°18.525'E
SE	14°28.358'S 132°18.411'E
SW	14°28.342'S 132°18.340'E

Site Twenty two

Area (hectares):

<0.01

Local Government Area (s):

Katherine

Street Address / Directions:

DBIRD Katherine shade
house

Map Attached (Yes):

No

GPS Coordinates:

Limits	GPS Co-ordinates
	14°28.53S 132°18.246E
	14°28.513S 132°18.25E
	14°28.528S 132°18.237E
	14°28.532S 132°18.235E

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Site Twenty three

Area (hectares):
Local Government Area (s):
Street Address / Directions:

Post harvest monitoring
2.85
Wyndham/East Kimberley
Field 1B, Frank Wise
Institute, Kununurra
No

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
NW	15°38.854S 128°42.601E
NE	15°38.901S 128°42.698E
SE	15°38.973S 128°42.662E
SW	15°38.924S 128°42.565E

Site Twenty four

Area (hectares):
Local Government Area (s):
Street Address / Directions:

Post harvest monitoring
9
Burdekin
Mulgowie Pivot, Kirknie
Road
No

Map Attached (Yes):
GPS Coordinates:

Limits	GPS Co-ordinates
NE	19°45.666S 147°16.003E
SE	19°45.742S 147°15.826E
NW	19°45.509S 147°15.933E
SW	19°45.602S 147°15.809E
S	19°45.682S 147°15.796E

Site Twenty five

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

24.2
Wyndham / East Kimberley
Durak Drive, Kununurra
No

Limits	GPS Co-ordinates
SW	15°38.688S 128°42.956E
NW	15°38.447S 128°43.076E
NE	15°38.571S 128°43.341E
SE	15°38.809S 128°43.219E

Site Twenty six

Area (hectares):
Local Government Area (s):
Street Address / Directions:
Map Attached (Yes):
GPS Coordinates:

Not used

No

Limits	GPS Co-ordinates

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Site Twenty seven

Area (hectares): 7.9
 Local Government Area (s): Wyndham / East Kimberley
 Street Address / Directions: Field 5B, Frank Wise
 Institute, Durak Drive,
 Kununurra
 Map Attached (Yes): No

GPS Coordinates:

Limits	GPS Co-ordinates
SW	15°39.236S 128°42.935E
NW	15°39.038S 128°43.034E
NE	15°39.087S 128°43.132E
SE	15°39.281S 128°43.033E

Site Twenty eight

Area (hectares): Not used
 Local Government Area (s):
 Street Address / Directions:
 Map Attached (Yes):
 GPS Coordinates:

Site Twenty nine

Area (hectares): 15
 Local Government Area (s): Shire of Burdekin
 Street Address / Directions: Roy's 2005 Site, Black's
 Road (near Ayr)
 Map Attached (Yes): No

GPS Coordinates:

Limits	GPS Co-ordinates
SE	19°40.621S 147°07.116E
NE	19°40.319S 147°06.872E
NW	19°40.218S 147°06.707E
SW	19°40.363S 147°06.685E

Site Thirty

Area (hectares): 1.48
 Local Government Area (s): Shire of Burdekin
 Street Address / Directions: Shed Flood 1, Kirknie Road
 (near Home Hill)
 Map Attached (Yes): No

GPS Coordinates:

Limits	GPS Co-ordinates
NW	19°46.019S 147°15.308E
SW	19°46.180S 147°15.384E
SE	19°46.189S 147°15.413E

NE	19°46.008S 147°15.331E

Site Thirty one

Area (hectares):

2.56

Local Government Area (s):

Shire of Burdekin

Street Address / Directions:

Shed Flood 2, Kirknie Road
(near Home Hill)

Map Attached (Yes):

No

GPS Coordinates:

Limits	GPS Co-ordinates
NE	19°46.011S 147°15.308E
NW	19°45.999S 147°15.252E
SW	19°46.204S 147°15.344E
SE	19°46.190S 147°15.375E

Site Thirty two

Area (hectares):

Post harvest monitoring
3.07

Local Government Area (s):

Shire of Burdekin

Street Address / Directions:

Mulgowie Farm, Kirknie
Road, Home Hill,
Queensland

Map Attached (Yes):

No

GPS Coordinates:

Limits	GPS Co-ordinates
S	19°45.932S 147°15.370E
E	19°45.865S 147°15.277E
NW	19°45.788S 147°15.453E

Site Thirty three

Area (hectares):

<0.01

Local Government Area (s):

Katherine

Street Address / Directions:

DBIRD Horti Block, Stuart
Highway, Katherine
Research Station

Map Attached (Yes):

No

GPS Coordinates:

Limits	GPS Co-ordinates
NW	14°28.070S 132°18.696E
SW	14°28.084S 132°18.708E
NE	14°28.074S 132°18.706E
SE	14°28.079S 132°18.710E

Site Thirty four

Area (hectares):

Not used

Local Government Area (s):

Mareeba

Street Address / Directions:

Map Attached (Yes):

GPS Coordinates:

Limits	GPS Co-ordinates

Site Thirty five

Area (hectares):

Not used

Local Government Area (s):

Mareeba

Street Address / Directions:

Map Attached (Yes):

GPS Coordinates:

Limits	GPS Co-ordinates

Attachment D to the Licence for dealings involving an intentional release of GMOs into the environment north of 22° South

DIR No: 012/2002

1. The dealings north of latitude 22° South covered by Section 4 of this Licence must only be conducted at the sites described below:

Total Area (hectares): <3

Site One Kununurra Drain site Post harvest monitoring
 Area (hectares): <1
 Local Government Area (s): Shire of Wyndham/East Kimberley
 Street Address / Directions: Legune Road, @ 12 km on the dirt road
 Map Attached (Yes): No
 GPS Coordinates:

Limits	GPS Co-ordinates
Northern	15° 31' 77' S 128° 49' 06' E
Southern	
Western	
Eastern	

Additional notes: Sown December 1999

Site Two Broome Cattle Site 1 Post harvest monitoring
 Wonglie Yards
 Area (hectares): <1
 Local Government Area (s): Shire of Broome
 Street Address / Directions: Shamrock Station @ 150 km south of Broome on Great Northern Highway
 Map Attached (Yes): No
 GPS Coordinates:

Limits	GPS Co-ordinates
Northern	18° 35' 33' S 122° 00' 14' E
Southern	
Western	
Eastern	

Additional notes: Sown January 2000

Site Three Broome Cattle Site 2 Post harvest monitoring
 Lunguda Yards
 Area (hectares): <1
 Local Government Area (s): Shire of Broome
 Street Address / Directions: Shamrock Station @150 km south of Broome on Great Northern Highway
 Map Attached (Yes): No
 GPS Coordinates:

Limits	GPS Co-ordinates
Northern	18° 35' 30' S 122° 03' 14' E
Southern	
Western	
Eastern	

Additional notes: Sown January 2001
 (Second Season sowing)