# 2010 SOIL FUMIGANT MANAGEMENT PLAN (METHYL BROMIDE/CHLOROPICRIN PRODUCTS)

#### **FMP Elements:**

I. Certified Applicator Supervising the Fumigation II. General Site Information III. Owner/Operator of Application Block IV. Recordkeeping V. General Application Information VI. Emergency Response Plan VII. Communication Between Applicator, Owner/Operator and Other On-site Handlers VIII. Handler Information IX. Tarps X. Soil Conditions XI. Weather Conditions XII. Posting Signs – Fumigant Treated Area XIII. Air Monitoring Plan XIV. Good Agricultural Practices (GAPs)

2010 SOIL FUMIGANT MAN	AGEMENT PLAN (METHY	L BROMIDE/CHLOROPICR	IN PRODUCTS)
I. Certified Applicator Supervising the I	Fumigation		· · · · · · · · · · · · · · · · · · ·
Name: Pho	one number: Lic	ense and/or certificate number:	Commercial applicator
			□ Private applicator
Employer name: Em	ployer address:		
II. General Site Information			
Application block/field location (e.g., coun system (GPS) coordinates:	ty, township-range-section qua	drant), address including zip code	, or global positioning
system (Gr 5) coordinates.			
	-		
<b>III. Owner/operator of Application Bloc</b> Name:	K Address:	Phone number	er:
IV Decendrosping			
IV. Recordkeeping			
The owner/operator of the application bloof the site-specific FMP and the post-applic			tor must keep a signed copy
V. General Application Information	ation summary for 2 years not	in the date of upplication.	
Target application date/window:	EPA Registration Number	Fumigant Product Name:	
Application method:	Application Rate (lbs or gate of product/treated acre):	llons Injection Depth (inches):	Application Block Size (acres):
□ Tarp bedded	of product/treated acre).		(actes).
□ Tarp broadcast			
Deep untarp broadcast (CA only)			
□ Hot gas – outdoor			

□ Hand held probes (tree hole)

VI. Emergency Response Plan Description of evacuation routes (a diagram or dra	wing may be attached to the FMP).	
□ Check here if diagram or drawing is attached		
Transforma - Adalanda - marca		
Locations of telephones:		
Contact information for first responders:	Local/state/federal contacts:	Other contact information for
		emergencies:
Emergency procedures/responsibilities in case of a	an incident, equipment/tarp/seal failure, complaints	s or elevated air concentration levels
suggesting potential problems, or other emergenci	es:	
VII. Communication Between Applicator, Own		r employees to review
Will the certified applicator be at the application s the entry restricted period expires? $\Box$ Yes $\Box$ No.		r the application is complete until
If no, describe how the certified applicator will sha the application site after the application is complet		d/or handlers who will be present at
	e unit de endy resulted period expires.	
	Page of	

VIII. Handler Information							
□Information for all handlers is attached to the Comments/notes:	FMP						
<b>IX. Tarps</b> (check here if section is not applied	cable [])						
Brand name and tarp manufacturer:	Lot Number: Ba Part Number:	tch Number	:	Thickness:			
Schedule for checking tarps for damage, tears, an	nd other problems:						
Maximum time following notification of damage	that the person(s) responsible t	for tarp repa	ir will respond:				
Minimum time following damage that tarp will b	be repaired: Minim	num size of	damage that will be re	paired:			
Other factors used to determine when tarp repair	will be conducted:						
Equipment/methods used to perforate tarps:							
□ mechanical:							
□ hand:							
Schedule and target dates for perforating tarps:							
Equipment, schedule and target dates for removing	ng tarps:						
X. Soil Conditions							
Soil texture/clay content:							
$\underline{\text{Organic Content:}}  \Box < 1\% \qquad \Box \ge 1\%-2\%$	□ ≥2%-3% □ >3%						
· · · ·	Soil Temperature: Has the air temperature been above 100 $^{\circ}$ F in any of the 3 days prior to application? $\Box$ Yes or $\Box$ No If yes, record the soil temperature measurement:						
Soil Moisture: (check the box of the method used to determine the soil moisture) Date and time soil moisture determined:							
<b>USDA Feel and Appearance Method</b> Description of soil:	Instrument  Instrument used:		Other Describe method:				
Percent soil moisture estimate	Percent soil moisture:		Percent soil moisture	:			

XI. Weather Conditions
Summary of the weather <b>on the day of the application</b> (a printed copy may be attached to the FMP):
Check here if printed copy is attached to the FMP or complete the following:
Wind Speed:
Inversion conditions:
Air-Stagnation Advisories:
Other:
Summary of the weather forecast <b>during the 48-hour period following the fumigant application</b> (a printed copy may be attached to
the FMP):
□ Check here if printed copy is attached to the FMP or complete following:
Wind Speed:
Inversion conditions:
Air-Stagnation Advisories:
Other:
XII. Posting Signs – Fumigant Treated Area
XII. Fosting Signs – Funigant Treated Area         Name(s) of person(s) posting Funigant Treated Area signs:
Treated Area Signs posting date:
Treated Area Signs removal date:

#### XIII. Air Monitoring Plan

If monitoring indicates air concentrations greater than or equal to 1.5 ppm for chloropicrin or greater than or equal to 5 ppm for methyl bromide, handlers must stop work and leave the application block.

Will the product applied contain at least 20% chloropicrin?  $\Box$  Yes or  $\Box$  No

If Yes, if sensory irritation is experienced check which of the following be procedures will be followed:

 $\Box$  Intend to cease operations or  $\Box$  Intend to continue operations with respiratory protection

Handler Tasks to be Monitored	Monitoring Equipment	Timing	

#### Full Face Respirator Response Plan

If either: (1) a handler experiences any sensory irritation when wearing an full face air-purifying respirator, or (2) a methyl bromide air sample is greater than 5 ppm or a chloropicrin air sample is greater than or equal to 1.5 ppm, then all handler activities must cease and handlers must be removed from the application block and the following ease the emergency plan detailed will be implemented:

### **XIV.** Good Agricultural Practices (GAPs)

 $\Box$ Check here if applicable mandatory GAPs are attached to the FMP (this could be a copy of the label highlighting the applicable GAPs). If this box is not checked, the checklist below must be completed.

<u>General</u>	<b>Bedded and Broadcast Shank Applications</b>
□Tarps	□Tarps
□ Weather Conditions	□ Soil Preparation
□ Soil Temperature	□ Application Depth and Spacing
□ Soil Moisture	□Prevention of End Row Spillage
□ Soil Preparation	Calibration, Set-up, Repair, and Maintenance for Application Rigs

#### **Tree Replant Application Using Handheld Equipment**

□ Soil Preparation

□ Application Depth

□ System Flush

□ Soil sealing

Hot Gas Applications to Soil, Potting Mixes, and Tobacco Seedling Trays

□Pre-Plant Soil Fumigation in Greenhouses

Control of Armilluria mellea (oak root fungus) for orchard replant applications

 $\Box$  Non-tarp nematode control (only for deep shank orchard replant and hand held tree-hole application in CA) Description of other product specific GAPs from label that will be followed:

Before beginning the fumigation, I have verified that this site-specific FMP reflects current site conditions and product label directions.

Signature of certified applicator supervising the fumigation

Date

List of Attachments:

#### **Handler Information**

Handler Name, Address, and Phone Number	Employer Name, Address, and Phone Number	Tasks Handlers are Trained and Authorized to Perform* (check number(s) from below)	<b>PPE</b> (check all that apply)	<b>Respirator Information</b> (leave blank if "no respirator" is checked under PPE)
		□ 1 □ 2 □ 3 □ 4 □ 5 □ 6 □ 7 □ 8 □ 9 □ 10	<ul> <li>Long-sleeved shirt/long-pants, shoes, socks</li> <li>Chemical-resistant apron</li> <li>Chemical-resistant footwear and socks</li> <li>Protective eyewear (NOT goggles)</li> <li>Chemical-resistant gloves</li> <li>Half-mask air-purifying respirator</li> <li>Full-face air-purifying respirator</li> <li>Self contained breathing apparatus</li> <li>Other:</li> <li>No respirator</li> <li>PPE training date:</li> </ul>	Make: Model: Type: Style: Size: Cartridge type: Fit test date: Training date: Medical date: Make: Model: Type: Style: Size: Cartridge type: Fit test date: Training date: Medical date: Make: Model: Type: Style: Size: Cartridge type: Fit test date: Type: Style: Size: Cartridge type: Fit test date: Type: Style: Size: Cartridge type: Fit test date: Training date: Make: Model: Type: Style: Size: Cartridge type: Fit test date: Training date: Cartridge type: Size: Cartridge type: Size: Size: Cartridge type: Size: Cartridge type: Size: Cartridge type: Size: Cartridge type: Size: Size: Cartridge type: Size: Cartridge type: Size: Size: Cartridge type: Size: Cartridge type: Size: Size: Cartridge type: Size: Si

□ The above handler has received Fumigant Safe Handling information within the past 12 months.

\*1. Loaders, drivers, tractor co-pilots, shovelers, cross-ditchers, or other direct application participants

- 2. Cleaning up fumigant spills (does not include emergency personnel not associated with the application)
- 3. Tasks with liquid contact potential

4. Installing, perforating, removing, repairing, or monitoring tarps until:

-14 days after the application is complete if tarps are not perforated and removed during those 14 days, -Tarp removal is complete if tarps are both perforated and removed less than 14 days after the application, or -48 hours after tarp perforation is complete if tarps will not be removed within 14 days after application. 5. Taking air samples (breathing zone)

6. Handling or disposing of fumigant containers

- 7. Cleaning, handling, adjusting, or repairing equipment that may contain fumigant residues
- 8. Installing, repairing, operating, or removing irrigation equipment in the application block
- 9. Performing scouting, crop advising, or monitoring tasks in the application block
- 10. Performing other WPS handling tasks

**Comments/notes:** 

# 2010 SOIL FUMIGANT POST APPLICATION SUMMARY (METHYL BROMIDE/CHLOROPICRIN PRODUCTS)

# **Post Application Summary Elements:**

General Application Information Tarp Damage and Repair Tarp Perforation/Removal Weather Conditions Complaints Description of Incidents Communication Between Applicator, Owner/Operator, and Other On-site Handlers Posting Signs – Fumigant Treated Area Other Deviations from the FMP

#### **Attached Tables:**

Check boxes if tables are applicable (i.e., there are changes from the FMP, or monitoring information has been recorded. Tables that are not applicable do not need to be included in the final post-application summary).

- □ <u>Handler Information (for changes since the FMP)</u>
- <u>Respirator Cartridge Replacement</u>
- □ Air Monitoring Results When Sensory Irritation Is Experienced
- □ Breathing Zone Air Monitoring with Direct Read Instruments

#### 2010 SOIL FUMIGANT POST APPLICATION SUMMARY FOR (INSERT GENERAL SITE INFORMATION FROM THE FMP):

#### (METHYL BROMIDE/CHLOROPICRIN PRODUCTS)

# (Only fill-in information if it is different from the FMP or where the label requires that measurements/information are recorded in post-application summary)

General Application Information								
Application date and time:	EPA Registration Number	er:	Fumigant Product Name:					
Application method:	Application Rate (lbs or		Injection Depth (inches):	Application Block Size				
□ Tarp bedded	of product/treated acre):			(acres):				
□ Tarp broadcast								
□ Deep untarp broadcast (CA only)								
□ Hot gas – outdoor								
□ Hot gas – greenhouse								
☐ Hand held probes (tree hole)								
Tarp Damage and Repair (check here if sec	tion is not applicable $\Box$ )							
Location and size of tarp damage:								
Description of tarp/tarp seal/tarp equipment fai	lure:							
Date and time of tarp repair:								
Additional comments or other deviations from FMP (if applicable):								
— — —	ection is not applicable	)						
Description of tarp removal procedures (if diffe	erent than in the FMP):							
Date tarps were perforated:		Date ta	rps were removed:					

#### Weather Conditions

Summary of the weather **on the day of the application** (a printed copy may be attached to the post-application summary):

 $\Box$ Check here if printed copy is attached to the post-application summary or complete the following: Wind Speed:

Inversion conditions:

Air-Stagnation Advisories:

Other:

Summary of the weather **during the 48-hour period following the fumigant application** (a printed copy may be attached to the post-application summary):

 $\Box$  Check here if printed copy is attached to the post-application summary or complete following: Wind Speed:

Inversion conditions:

Air-Stagnation Advisories:

Other:

<b>Complaints</b> (check here if section is not appli	cable 🗆 )	
Person filing complaint:	If off-site person, name, address, and phone number of J	person filing complaints:
$\Box$ On-site handler $\Box$ Person off-site		
Description of control measures or emergency p	rocedures followed after complaint:	
t		
Additional comments:		
<b>Description of Incidents</b> (check here if section		Data and times
Description of incident, equipment failure, or ot	her emergency:	Date and time:
Description of emergency procedures followed:		
Description of emergency procedures followed.		
Weethe incident superiod to the training of		
Was the incident reported to the state agency? Additional comments (include contact informati		

Communication Between Applicator, Owner/Operator, and Other	On-site Handlers (check if no ch	nanges from the FMP $\Box$ )					
Was the certified applicator at the application site during all handler as	ctivities that took place after the	Date contacted:					
application was completed until the entry restricted period expired?							
If no, list the names and phone numbers of persons contacted:							
Comments/notes (any deviation from FMP regarding how the information of the comments of the co	tion was shared):						
Posting Signs – Fumigant Treated Area	1						
Date(s) of Fumigant Treated Area sign removal:	Description of deviations from F	MP (if applicable):					
Handler Information for Changes Since the FMP							
Have there been any changes to the handler information since the FMI							
listed in FMP)?       □ Yes       □ No If yes, the updated handler informati         Other Deviations from the FMP	on must be attached to the post app	blication summary.					
Additional comments/notes:							
L							
I have verified that this post application summary reflects the actual si description of deviations from the FMP (if applicable).	te conditions that occurred during t	he fumigation and is an accurate					

Signature of certified applicator that supervised the fumigation

Date

List of Attachments:

# Air Monitoring Results When Sensory Irritation Is Experienced

Date and Time	Handler Name	Handler Task/Activity	Handler Location Where Irritation	Resulting Action	Comments
			Was Observed	Cease operations	
				_	
				Respiratory protection	
				□ Cease operations	
				Respiratory protection	
				□ Cease operations	
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				□ Respiratory protection	
Additional Comm	ients:				

# Breathing Zone Air Monitoring with Direct Read Instruments

Image: Section of the section of th	Sample Date/Time	Handler Name	Handler Task/Activity	Handler Location	Air Concentration	Sampling Method	Comments (e.g., sensory irritation experienced while wearing respirator, description of control measures or emergency procedures followed)
Additional Comments:       Image: Comments:       Image: Comments:       Image: Comments:							
Image: Additional Comments:       Image: Additional Comments:       Image: Additional Comments:							
Image:							
Additional Comments:       Image: Source Sourc							
Image: Sector of the sector							
Image: Additional Comments:       Image: Additional Comments:							
Additional Comments:							
Additional Comments:							
Additional Comments:							
Additional Comments:							
	Additional Co	omments:					

# **Respirator Cartridge Replacement**

After 8 hours of use       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded       Image 1 air concentration was exceeded       Image 1 air concentration was exceeded         Image 1 air concentration was exceeded <th>Handler Name</th> <th>Why Cartridge Replaced</th> <th>Time of Cartridge Replacement</th> <th>Comments</th>	Handler Name	Why Cartridge Replaced	Time of Cartridge Replacement	Comments
Sensory irritation felt while wearing a full-face air-purifying respirator       Image: Content of the sensory irritation was exceeded         Target air concentration was exceeded       Sensory irritation felt while wearing a full-face air-purifying respirator         Other       Image: Content of the while wearing a full-face air-purifying respirator         Other       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-purifying respirator       Image: Content of the while wearing a full-face air-purifying respirator         Image: Content of the while wearing a full-face air-pu		□ After 8 hours of use		
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Sensory irritation felt while wearing a full-face air-purifying respirator         Other         After 8 hours of use         Target air concentration was exceeded         Sensory irritation felt while wearing a full-face air-purifying respirator         Other         After 8 hours of use         Other         After 8 hours of use         After 8 hours of use         Other         After 8 hours of use         Target air concentration was exceeded         Sensory irritation felt while wearing a full-face air-purifying respirator         After 8 hours of use         Target air concentration was exceeded         Sensory irritation felt while wearing a full-face air-purifying respirator         Sensory irritation felt while wearing a full-face air-purifying respirator         Other		□ After 8 hours of use		
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After 8 hours of use       Image: After 8 hours of use         Target air concentration was exceeded       Image: Sensory irritation felt while wearing a full-face air-purifying respirator         Other       Image: After 8 hours of use         Target air concentration was exceeded       Image: After 8 hours of use         Target air concentration was exceeded       Image: After 8 hours of use         Sensory irritation felt while wearing a full-face air-purifying respirator       Image: After 8 hours of use         Other       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use         Image: After 8 hours of use       Image: After 8 hours of use       Image: After 8 hours of use		□ Sensory irritation felt while wearing a full-face air-purifying respirator		
Image air concentration was exceeded       Image air concentration was exceeded         Image air concentration felt while wearing a full-face air-purifying respirator       Image air concentration was exceeded         Image air concentration was exceeded       Image air concentration was exceeded         Image air concentration felt while wearing a full-face air-purifying respirator       Image air concentration was exceeded         Image air concentration felt while wearing a full-face air-purifying respirator       Image air concentration felt while wearing a full-face air-purifying respirator         Image air concentration felt while wearing a full-face air-purifying respirator       Image air concentration felt while wearing a full-face air-purifying respirator		□ Other		
Sensory irritation felt while wearing a full-face air-purifying respirator         Other         After 8 hours of use         Target air concentration was exceeded         Sensory irritation felt while wearing a full-face air-purifying respirator         Other		□ After 8 hours of use		
Other         After 8 hours of use         Target air concentration was exceeded         Sensory irritation felt while wearing a full-face air-purifying respirator         Other		□ Target air concentration was exceeded		
<ul> <li>□ After 8 hours of use</li> <li>□ Target air concentration was exceeded</li> <li>□ Sensory irritation felt while wearing a full-face air-purifying respirator</li> <li>□ Other</li> </ul>		□ Sensory irritation felt while wearing a full-face air-purifying respirator		
<ul> <li>Target air concentration was exceeded</li> <li>Sensory irritation felt while wearing a full-face air-purifying respirator</li> <li>Other</li> </ul>		□ Other		
□ Sensory irritation felt while wearing a full-face air-purifying respirator □ Other		□ After 8 hours of use		
		□ Target air concentration was exceeded		
		□ Sensory irritation felt while wearing a full-face air-purifying respirator		
Additional Comments:		□ Other		
	Additional Comments:			