

Cannabis Regulatory Program
North Coast Regional Water Quality Control Board
Site Management Plan

May 22, 2019 Version

Preparer Name:		Application Number:	
Email Address:		Tier and Risk Designation:	
Site Name:		Disturbed Area (ft²):	
County:		Cultivation Area (ft²):	
APN(s):		Cumulative Disturbed Area (ft²)*:	
Site Address:		Cumulative Cultivation Area (ft²)*:	

**For sites with multiple enrollments on the same property, report the combined disturbed area and cultivation area of all cannabis cultivation on the property. If this does not apply, leave this section blank.*

This plan describes how the cultivator is implementing the best practical treatment or control (BPTC) measures listed in Attachment A of the Cannabis General Order. Refer to Attachment D of the General Order for further technical report guidance. If the sections below do not provide sufficient space, you may attach additional pages.

Fill out the form electronically, save as a PDF file, and email the completed electronic form along with maps and photos to NorthCoast.Cannabis@waterboards.ca.gov. Please do not submit forms that have been printed and scanned.

1. Sediment Discharge BPTC Measures

A. Site Characteristics

i. Site Map

Attach a map of the site. The map should contain the following features with labels:

- Access roads
- Vehicle parking areas
- Streams
- Stream crossings
- Cultivation site(s)
- Disturbed areas
- Buildings
- Other site features that are referenced in this plan. (e.g. BPTC measures, pesticide/ fertilizer storage, trash/ refuse storage, etc.)

The map should also include:

- A legend
- A north arrow
- A scale bar
- Topographic lines

ii. Access Road Conditions

a. What is the road surface type(s)? Check all that apply.

☐ Asphalt ☐ Gravel ☐ Dirt ☐ Concrete ☐ Other (describe): _____

b. Is there evidence of erosion, such as gullies or rills? If yes, describe current conditions and how they will be remediated in the space below.

☐ Yes ☐ No

c. Does any portion of the access road(s) act as a conveyance for water? If yes, describe in the space below.

☐ Yes ☐ No

d. What is the estimated vehicle traffic on these roads?

Commuter vehicles: _____ per

Commercial vehicles: _____ per

Heavy equipment: _____ per

Other _____: _____ per

e. How is storm water drained from the roads? Check all that apply. Refer to *The Handbook for Forest Ranch and Rural Roads* for information on the methods listed below. (Available at <http://www.pacificwatershed.com/PWA-publications-library>.)

☐ Crowned ☐ Out slope ☐ Armored ditch ☐ Culverts ☐ Rolling dips ☐ Other (describe below)

f. Describe the number, spacing, and discharge location of water drainage features.

g. Select the erosion control and sediment capture measures used on the access roads and water drainage features. Check all that apply.

Erosion Control Measures

- ☐ Erosion control blankets ☐ Geotextiles ☐ Straw mulch ☐ Hydromulch ☐ Wood mulch
☐ Vegetation Preservation ☐ Vegetation Planting ☐ Hydroseeding ☐ Vegetated channels
☐ Check dams ☐ Other: _____

Sediment Capture Measures

- ☐ Fiber Rolls ☐ Silt fences ☐ Other: _____

Describe the selected measures in the space below:

h. What activities are done to maintain the roads? What activities are done to maintain erosion control measures? What is the maintenance schedule?

iii. Streams

a. Do you have any streams, drainages, or channels on or adjacent to your property?

☐ Yes ☐ No

b. If applicable, provide the name(s) of the stream(s). If the stream, drainage, or channel doesn't have a name, write "Unnamed Stream":

c. If there is a stream, what is the distance between the edge of the stream bank and the edge of the disturbed area at the closest point? How did you take this measurement?

_____ feet Measurement method:

d. Do you have any stream crossings?

☐ Yes ☐ No

e. If yes, what types of crossings are they? If there are multiple crossings, check all that apply.

☐ Bridge ☐ Culvert ☐ Low water ☐ Other, Describe: _____

f. If yes, was the crossing designed by a Qualified Professional (e.g. licensed engineer)?

☐ Yes ☐ No

g. Provide a description of all stream crossings, including who designed them, number of crossings, material, size, frequency of use, and any other relevant details. Indicate the location of stream crossings on your site map. Attach photos of all stream crossings and cross-sectional areas of all engineered flow conveyances (e.g. culverts and ditches) used at crossings.

B. Sediment Erosion Prevention and Sediment Capture

If you are classified as Moderate Risk Tier 1 or Moderate Risk Tier 2 and are submitting a Site Erosion and Sediment Control Plan that includes the following information, you may skip this section.

i. Erosion Prevention BPTC Measures

On your site map, indicate the location of erosion prevention BPTC measures described below. Describe erosion prevention BPTC measures around all disturbed areas and features. Include BPTC measures implemented to address erosion resulting from storm water runoff from impervious surfaces, including but not limited to parking lots and roofs of greenhouses, warehouses, or storage facilities. Attach photos documenting implemented measures and locations for planned implementation.

a. How is storm water drained from buildings, greenhouses, and other structures? How are storm water conveyance systems monitored and maintained to protect water quality?

b. What physical BPTC measures have been implemented to prevent or limit erosion? Check all that apply.

- ☐ Straw mulch ☐ Wood mulch ☐ Hydromulch ☐ Plastic covers ☐ Slope stabilization ☐ Soil binders
☐ Erosion control blankets ☐ Geotextiles ☐ Culvert outfall armoring ☐ Other:

Describe the physical BPTC measures checked above, including when they are used and where they are placed.

c. What biological BPTC measures have been implemented to prevent or limit erosion? (e.g. vegetation preservation/ replacement, hydro seeding, etc.)? Check all that apply.

- ☐ Vegetation preservation ☐ Vegetation planting ☐ Hydroseeding ☐ Other:

Describe the biological BPTC measures checked above, including when they are used and where they are employed.

d. What physical and biological BPTC measures do you plan to implement to prevent or limit erosion? Check all that apply.

Physical BPTC measures:

- ☐ Straw mulch ☐ Wood mulch ☐ Plastic covers ☐ Slope stabilization ☐ Soil binders
☐ Culvert outfall armoring ☐ Other:

Biological BPTC measures:

- ☐ Vegetation preservation ☐ Native vegetation planting ☐ Hydroseeding ☐ Other:

Describe the planned BPTC measures and provide an implementation schedule below.

ii. Sediment Control BPTC Measures

On your site map, indicate the location of sediment control BPTC measures described below. Describe sediment control BPTC measures around all disturbed areas and features. Attach photos documenting implemented measures and locations for planned implementation.

a. What physical BPTC measures have been implemented to capture sediment that has been eroded? Check all that apply.

☐ Silt fences ☐ Fiber rolls ☐ Settling ponds/ areas ☐ Other:

Describe the physical BPTC measures checked above, including when they are used and where they are placed.

b. What biological BPTC measures have been implemented to capture sediment that has been eroded? Check all that apply.

☐ Vegetated outfalls ☐ Hydro seeding ☐ Other:

Describe the biological BPTC measures checked above, including when they are used and where they are employed.

c. What physical and biological BPTC measures do you plan to implement to prevent or limit erosion? Check all that apply.

Physical BPTC measures:

☐ Silt fences ☐ Fiber rolls ☐ Settling ponds/ areas ☐ Other:

Biological BPTC measures:

☐ Vegetated outfalls ☐ Hydro seeding ☐ Other:

Describe the planned BPTC measures and provide an implementation schedule below.

iii. Maintenance Activities- Erosion Prevention and Sediment Control

a. How will erosion prevention BPTC measures, sediment control BPTC measures, and stormwater conveyance systems be monitored and maintained to protect water quality? Describe all required maintenance tasks and a schedule for implementation.

b. How will captured sediment be handled? Check all that apply.

☐ Stabilized in place. ☐ Excavated and stabilized on site. ☐ Removed from the site.

Describe the procedure for handling captured sediment below:

2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures

A. Product List

In the sections below, list all products used and describe how they are delivered to the site, how they are stored, and how they are used at the site. Also describe how products will be removed from the site or stored to prevent discharge if they are not consumed before the winter season. If there is not enough space, list remaining products on a separate sheet.

i. Fertilizers

[illegible]

ii. Pesticides

[illegible]

iii. Herbicides

[illegible]

iv. Rodenticides

[illegible]

B. Product Storage Location

i. Do you use secondary containment for the storage of fertilizers, pesticides, herbicides, and rodenticides?

☐ Yes ☐ No

ii. Where are products stored on site? Indicate the storage location on your site map.

C. Bulk Fertilizers and Chemical Concentrates

i. How are bulk fertilizers and chemical concentrates stored, mixed, and applied?

ii. How are empty containers disposed of?

D. Spill Prevention and Cleanup Plan

i. What procedures are in place to prevent spills of fertilizers, pesticides, herbicides, and rodenticides?

ii. What procedures are in place to clean up spills if they occur?

3. Petroleum Product BPTC Measures

A. Product List

In the sections below, list all products used and describe how they are delivered to the site, how they are stored, and how they are used at the site. Also describe how products will be removed from the site or stored to prevent discharge if they are not consumed before the winter season.

Product Name	Product Description

B. Product Storage Location

i. Do you use secondary containment for the storage of petroleum products?

☐ Yes ☐ No

ii. Where are products stored on site? Indicate the storage location on your site map.

C. Product Use

i. How are fuels, lubricants, and other petroleum products stored, mixed, and applied?

ii. How are empty containers disposed of?

D. Spill Prevention and Cleanup Plan

i. What procedures are in place to prevent spills of petroleum products?

ii. What procedures are in place to clean up spills if they occur?

4. Trash/ Refuse, and Domestic Wastewater BPTC Measures

A. Type of Trash/ Refuse

i. What types of trash/ refuse will be generated at the site? Include a description of all solid waste materials (e.g. spent hydroponic growing media, organic materials, plastic, paper, glass, clay, etc.)

ii. How will trash/ refuse be contained and properly disposed of?

iii. Where will trash/ refuse be stored? Indicate the location of trash/ refuse storage on your site map.

B. Personal Waste

i. How many employees, visitors, and residents will you have at the site?

Employees:

Residents:

Visitors: _____ per

ii. What types of domestic wastewater will be generated at the site? Check all that apply.

☐ Household generated wastewater ☐ Chemical toilet waste ☐ Other:

iii. How will domestic wastewater be disposed? Check all that apply.

☐ Sewer

☐ Permitted onsite wastewater treatment system (e.g. septic tank and leach lines) Provide a schematic and a copy of your permit for the system.

☐ Chemical toilets or holding tank. If so, provide the name of the servicing company and frequency of service:

☐ Outhouse, pit privy, or similar. (Use of this alternative requires approval from the Regional Board Executive Officer. Attach the approval from the Executive Officer and any conditions imposed if using this alternative. Indicate the location of any domestic wastewater treatment, storage, or disposal areas on your site map, as well as the locations of all water wells (e.g. drinking water, irrigation water, commercial water, etc.) inside or within 0.5 mile of the site boundary.)

5. Winterization BPTC Measures**A. Winterization Activities Performed**

What activities will be performed to winterize the site and prevent discharges of waste?

B. Maintenance of Drainage and Sediment Capture Features

What maintenance activities will be performed to remove debris and soil blockages from drainage and sediment capture features (e.g. drainage culverts, drainage trenches, settling ponds, etc.) and ensure adequate capacity exists? Include a description of how all solid waste materials are managed.

C. Revegetation Activities

What revegetation activities will occur at the beginning or end of the precipitation season?

D. Compliance Schedule

If any Winterization BPTC measure cannot be completed before the onset of winter period, contact the Regional Water Board to establish a compliance schedule.

Provide a timeline for implementation of these measures:

6. Cannabis Cultivation Details

A. Growing Methods
i. Where is cannabis grown? ☐ Fully outdoor ☐ Hoophouse ☐ Greenhouse with permeable floors ☐ Other (please describe):
ii. What type of container is cannabis grown in? Check all that apply. ☐ In ground ☐ Raised beds ☐ Pots/ grow bags/ trays on the ground ☐ Pots/ grow bags/ trays elevated off the ground ☐ Other (describe): _____
iii. If cannabis is grown in containers elevated off the ground, is irrigation tailwater collected? ☐ Yes ☐ No ☐ A portion of it is collected ☐ N/A If yes, describe what you do with the captured irrigation tailwater:
B. Irrigation Water Treatment
i. Is irrigation water filtered prior to use? ☐ Yes ☐ No If irrigation water is filtered, answer the questions below:
ii. What type of filtration is used (i.e. reverse osmosis, ion exchange, etc.)?
iii. What is the maximum volume of water filtered per day?
iv. How are filter residuals (i.e. brines, etc.) disposed of?
v. What is the volume of residual produced? _____ gallons per

7. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

☐ I have read and accept the above terms.

Operator/Responsible Party _____ Date Prepared _____

Fertilizer:

Max Sea	NPK 16-16-16
Base Farm Micro	NPK 6-0-0 + Calcium,Boron, Iron, Manganese, Molybdenum
Base Farm Grow	NPK 2-1-6 (derived from ammonium sulfate,potassium nitrate, magnesium phosphate, potassium carbonate)
Base Farm bloom	NPK 0-6-5 (derived from magnesium phosphate, phosphoric acid, potassium carbonate, potassium sulfate)
Grow more Grow	NPK 30-10-10 fertilizer
Grow more bloom	fertilizer
Dr. Earth all purpose	fertilizer
Dr. Earth Bud & Bloom	fertilizer
mocha bat	fertilizer
high nitro bat	fertilizer
alfalfa meal	fertilizer
chicken manure	fertilizer
Rebel Rise	NPK 12-6-6 (derived from :Soy protein hydrolysate, Mono potassium phosphate, Di-potassium phosphate, Mono ammonium phosphate, Kelp extract, Boric acid , Copper EDTA, Iron EDTA , Manganese EDTA , Zinc EDTA
Rebel Rush	NPK 5-10-5 derived from Soy protein hydrolysate, Mono potassium phosphate, Di-potassium phosphate, Mono ammonium phosphate, Kelp extract, Boric acid, Copper EDTA, Iron EDTA, Manganese EDTA Zinc EDTA
Symbys Cal Mag	NPK 2-0-0 derived from calcium nitrate, magnesium nitrate, iron edta

Chemical(s)/Pesticides to Be Applied at any Stage of Plant Growth

Product Name:	Active Ingredient(s):
Neem Gold 4-1-2	100% Organic Cold Pressed Neem
Hydroguard	Bacillus root inoculant
Pro-Tekt	Potassium, silicate
Monterey Once a Year Insect Control	Imidacloprid
SNS 209 All Natural Systemic Pest Control	Rosemary Extract, Rosemary Oil
Green Clean	Soybean Oil, Sodium Laurel Sulfate
Chester Boone's All Purpose	Soap, Citric Acid, Potassium Sorbate
The Amazing Doctor Zymes Eliminator	Citric Acid
Dyna- Gro Pure Neem Oil	Neem
Mammoth CannControl	Corn Oil, Thyme Oil, Oleic Acid
SNS 203 Concentrated All Natural Pesticide	Rosemary Oil, Clove Oil
Flying Skull Nuke Em	Citric Acid
AzaPro Repellant	Azadirachtin
Plant Therapy	Organic Soy Oil, Peppermint, Citric Acid
Pest Out	Cottonseed Oil, Clove Oil, Garlic Oil
Javelin	Bacillus thuringiensis, subsp. kurstaki
cease	Bacillus subtilis
Kopa	Potassium salts of fatty acids
Dr. Zymes	Citric acid
Botanigard	Beauveria bassiana
Actinovate	(soil use only) Streptomyces lydicus WYEC 108
Defgaurd	Bacillus amyloliquefaciens
Preferal	Isaria fumosorosea
Baking soda	Sodium Bicarbonate
RootShield	Trichoderma harzianum rifai strain KRL-AG2
Mad farmer peroxide	Hydrogen peroxide
Mole scram	castor oil, citronella oil, garlic oil, hulled peanut shells