

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

May 22, 2019 Version



Preparer Name:	Dashiell Miller	Application Number:	
Email Address:	barrettfarmshumboldt@gmail.com	Tier and Risk Designation:	Tier 1 Low Risk
Site Name:	project site	Disturbed Area (ft²):	30,000
County:	humboldt	Cultivation Area (ft²):	14,800
APN(s):	208-341-032 208-341-034	Cumulative Disturbed Area (ft²)*:	30,000
Site Address:	690/740 Cobb Rd Dinsmore CA 95526	Cumulative Cultivation Area (ft²)*:	15,800

**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

Two culverts on Cobb Road, connected to our property on one end.

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

Commuter vehicles: 2 per Day

Commercial vehicles: 1 per Month

Heavy equipment: 2 per Year

Other _____: _____ per Day

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.

There are 7 culverts for drainage leading up to the furthest side. All have been upgraded in 2022 to meet current state requirements. side channels, out slopes and two rolling dips currently in place, with 4 additional dips and 2 relief culverts proposed.

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: straw wattles

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?

The maintenance schedule is annually or sooner if need be. Drainage ways are cleared of oak leaves and debris along with any necessary maintenance based on that years road usage.

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":

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?

500.00 feet Measurement method: done during site visit

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.

North west side of the property has a culvert approx 20" in diameter. it is steel and has a bed of rock at the inlet and outlet of the pipe. its a culvert that runs during storms for water relief. it is covered under the LSA agreement with Cobb rd. association along with all culverts on the road. it was designed in the 1970s under direction of Blue Rock Ranch. see attached photos of culvert.

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?

Main building has rain-catchment collecting storm water. Around all greenhouses and structures are series of french drains allowing for even relief of ground water, and no standing or flowing ground water during a storm

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:

french drains throughout the property

Describe the physical BPTC measures checked above, including when they are used and where they are placed.
french drains are permanent and wattles/straw mulch is added annually

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.

Existing vegetation is cared for and maintained/preserved throughout the year to prevent erosion.

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.

straw mulch, wattles, slope stabilization, vegetation preservation, as well as culvert armoring is tended to prior to the rain season, and maintained throughout the year. this helps prevent and limit any potential erosion

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. Settling ponds are found where storm water is relieved from the road.

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. Native vegetation is abundant where storm water drains allowing for sediment capture

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.

Existing settling areas and vegetated outfalls are to be monitored and maintained annually

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.

All drainage cleaned of any debris annually. Adequate tank space for storm water catchment from roof system. Drainage is checked and monitored prior to, and during, and after storms.

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:

Captured sediment is excavated by hand (typically from road) and is normally more organic material like fallen oak leaves that are moved to an open area nearby. This keep the drainage areas clear.

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.

Products are stored in secondary storage inside the indoor fertilizer sheds

C. Bulk Fertilizers and Chemical Concentrates

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

Products are stored in original containers, in secondary fertilizer containment, within fertilizer storage shed. They are mixed either in an approved container for external coverage (sprayed) or diluted in a stock tank and applied through pressure compensating low flow emitters at base of plant (irrigated)

ii. How are empty containers disposed of?

Empty containers are handled according to the requirements stated in the pesticide applicators handbook, and disposed of at the Eel River dispose center in Fortuna CA.

D. Spill Prevention and Cleanup Plan

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

Secondary containment is used with all fertilizer and pesticides, and all products are stored safely indoors.

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

Spill prevention cleanup kits are onsite in each designated fertilizer containment building.

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.

<i>Product Name</i>	<i>Product Description</i>
diesel fuel	fuel
unleaded fuel	fuel
10w-30	oil
15w-40	engine oil
propane	fuel

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.
products are stored in secondary containment in and along side the backup generator housings

C. Product Use

i. How are fuels, lubricants, and other petroleum products stored, mixed, and applied?
the oil is stored in secondary containment inside backup generator housing along with the propane. fuel is stored in 30 and 50 gal fuel cells in both generator houses, and a 300gal fuel storage has its own containment

ii. How are empty containers disposed of?
disposed of properly at refuse sites

D. Spill Prevention and Cleanup Plan

i. What procedures are in place to prevent spills of petroleum products?
secondary containment and spill kits on site

ii. What procedures are in place to clean up spills if they occur?
spill prevention kits placed at all fuel storage locations

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.)
home and garden waste. paper glass plastic, debris

ii. How will trash/ refuse be contained and properly disposed of?
on site trash containment, brought to eel river dispose center bi weekly

iii. Where will trash/ refuse be stored? Indicate the location of trash/ refuse storage on your site map.
indicated on site map on parcel 208-341-032 right next to living quarters

B. Personal Waste

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

Employees: 3

Residents: 2

Visitors: 1 per Week

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 size and prevent discharges of waste?
all lines and pumps drained, facility is checked on weekly or at least biweekly

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.

1,500gal septic tank will be pumped as needed. gray water drainage is maintained throughout the year. french drains have never needed maintenance but is still checked annually and during storms. any areas sediment may collect is monitored and maintained monthly or at the very least prior to and during the storm season

C. Revegetation Activities

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

all vegetation is managed and maintained though out the year, dead foliage is removed to allow the thriving plants to take over

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:

october- clean all drainage and remove oak leaves

november-march- continue to maintain waterways culverts and any areas where water relief is necessary

april-september- monitor all culverts and areas water drains

6. Cannabis Cultivation Details

A. Growing Methods
i. Where is cannabis grown? <input type="checkbox"/> Fully outdoor <input type="checkbox"/> Hoophouse <input checked="" type="checkbox"/> Greenhouse with permeable floors <input type="checkbox"/> Other (please describe):
ii. What type of container is cannabis grown in? Check all that apply. <input type="checkbox"/> In ground <input type="checkbox"/> Raised beds <input checked="" type="checkbox"/> Pots/ grow bags/ trays on the ground <input type="checkbox"/> Pots/ grow bags/ trays elevated off the ground <input type="checkbox"/> Other (describe): _____
iii. If cannabis is grown in containers elevated off the ground, is irrigation tailwater collected? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> A portion of it is collected <input checked="" type="checkbox"/> 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If irrigation water is filtered, answer the questions below:
ii. What type of filtration is used (i.e. reverse osmosis, ion exchange, etc.)? disk media separator (sediment filter)
iii. What is the maximum volume of water filtered per day? 1,000gal
iv. How are filter residuals (i.e. brines, etc.) disposed of? in compost
v. What is the volume of residual produced? <u>1</u> gallons per Year

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 Dashiell Miller (Barrett Farms) Date Prepared 12/20/2022