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

May 22, 2019 Version

Preparer Name:	Christopher Kirk	**Application Number:**	12398
Email Address:	Ckirk@hohmanandassociates.com	**Tier and Risk Designation:**	
Site Name:	Cali's Finest LLC Parcel 008	**Disturbed Area (ft^2):**	116,305
County:	Humboldt	**Cultivation Area (ft^2):**	22,000
APN(s):	210-054-008	**Cumulative Disturbed Area (ft^2)*:**	
Site Address:	2248 Run Down Acres Ln, Bridgeville, CA !	**Cumulative Cultivation Area (ft^2)*:**	

**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

There are several portions of the road system which require additional drainage facilities and or maintenance of existing drainage facilities. Please see the attached work order for descriptions of the sites and maps for the location.

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

✔ Yes No

As directed by CDFW LSAA agreement, properly sized metal culverts and rolling dips will properly maintain drainage. Please see attached work order for detailed descriptions of the sties and the remediations. The attached maps are provided to disclose the locations of the sites.

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

Commuter vehicles: 3 per Day

Commercial vehicles: 1 per Day

Heavy equipment: 1 per Month

Other Visitors: 2 per Week

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)

Temporary or decommissioned roads will divert drainage with Water-bars and or straw wattles.

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

Water drainage features will be kept to a maximum spacing of 200' based on the general slope of the roads. The features used are "outsloping", "Rocked Rolling Dips", "Inside Ditches" & Ditch Relief Culverts. All surface drainage will be disconnected prior to any stream crossings and will not be discharged into any unstable areas. Specific Drainage features are described in the attached Work Order.

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: Rock and Gravel

Sediment Capture Measures

☑ Fiber Rolls ☐ Silt fences ☐ Other: ________________________

Describe the selected measures in the space below:

Straw mulch will be used to stabilize disturbed soils and to reduce sediment at crossings as described within the attached work order. Where existing vegetation stabilization exists disturbance of these areas is to be avoided if possible. Vegetated storm drainage channels will be used to dissipate surface drainage and reduce sediments entering the streams. Rock and Gravel will be used to reduce surface erosion from runoff and to stabilize road surfaces to reduce dust and fine erosion from wind. Heavy rock will be used to stabilize stream crossings and rolling dips as described within the attached work order.

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

Regular maintenance and monitoring of the road surface drainage facilitates, stream crossings & surfacing are required to keep the road system functioning correctly. Maintenance and monitoring includes
1. Checking and clearing all culvert inlet of debris ensuring that the culverts (both stream crossings and ditch relief culverts) are clear and functioning properly.
2. Checking on all surface drainage such as rocked rolling dips, outsloped surfaces and inside ditches are functional and not eroding. All issues are to be corrected in a timely manor to ensure further degradation does not occur.
3. Insure that all roads leading to the sites are surfaced to provide year around access and to reduce dust during the dry period and surface erosion during the winter period. Monitor and reapply gravel as necessary.
4.Monitoring shall occur monthly with a mandatory monitoring and maintenance prior to the onset of the winter period.

For specific corrective road maintenance please see the attached work order.

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":

The parcel contains unnamed streams that are tributaries to Butte Creek, a tributary to the Little Van Duzen River, a tributary to the Van Duzen River, which is a tributary to the Eel River. Proposed sites will be more than 50 feet from the nearest class III drainage or watercourse, more than 100 feet from a class II, and more than 150 feet from a class I.

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?

20.00 feet Measurement method: Laser Rangefinder (Site E all cannabis related materials removed. S

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.

The road system crosses Class II & III streams at RP-4, 5, 6, 7, 8, 9, 67, 68, 69, 70, 71 & 72. All crossing were evaluated by a Registered Professional Forester Stephen Hohman and/or his designee. The crossings were evaluated using current Forest Practice standards and the standards for commercial cannabis roads. For detailed information on each stream crossing please see the attached work order.

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?

The proposed sites are on well drained soils with >5% slopes minimal overland flow is expected. A buffer of native vegetation will be maintained and not disturbed surrounding the site. All exposed or disturbed soils will be covered with straw mulch and planted with native grass seeds. Any erosion observed on site will be controlled with straw wattles and bales. See attached SMP work order for specific mitigation points.

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:

Rock and Gravel

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

A buffer of native vegetation will be maintained and not disturbed, surrounding the site. All exposed or disturbed soils will be covered with straw mulch and planted with native grass seeds. Any erosion observed on site will be controlled with straw wattles and bales. All stream crossings and road drainage facilitates shall be monitored to ensure they are functioning properly and free from debris. See attached SMP work order for specific mitigation points.

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:

Grass Seeding and Straw Mulch, Waddles & Bales

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

The proposed sites are on well drained soils with >5% slopes minimal overland flow is expected. A buffer of native vegetation surrounding the site will be maintained and not disturbed. All exposed or disturbed soils will be covered with straw mulch and planted with native grass seeds. Any erosion observed on site will be controlled with straw wattles and bales. See attached SMP work order for specific mitigation points.

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: Rock Armoring

Biological BPTC measures:

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

Hand Seeded Native Grass Mix

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

All disturbed or bare soils shall be covered with straw mulch and planted with native grass seed mix prior to Nov 15 each year. See attached SMP work order for specific mitigations.

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: Road Surface and Inside Ditch Rocking

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

All access roads shall be regular monitored and maintained insuring that surfaces are adequately rocked and drainage and stream crossings are functioning properly and free of derbies. Any erosion issues observed shall be addressed and the measures described below implemented in a timely manor. See attached SMP work order for specific mitigation points.

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

☐ Vegetated outfalls ☐ Hydro seeding ☑ Other: Hand Seeded Native Grass Mix

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

The proposed sites are on well drained soils with >5% slopes minimal overland flow is expected. A buffer of native vegetation surrounding the site will be maintained and not disturbed. All exposed or disturbed soils will be covered with straw mulch and planted with native grass seeds. Any erosion observed on site will be controlled with straw wattles and bales. See attached SMP work order for specific mitigation points.

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: Road rocking , culvert and drainage ditch arn

Biological BPTC measures:

☐ Vegetated outfalls ☐ Hydro seeding ☑ Other: Straw Mulch and Grass Seed

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

All access road have been rocked to reduce surface erosion. Exposed bare soils shall be covered with straw mulch and planted with native vegetation to reduce erosion. Any area within the site or access roads where erosion is observed will implement straw waddles and or bales to capture sediments. Regular maintenance and monitoring shall occur to ensure all erosion control measure are in place and functioning properly throughout the winter period. See attached SMP work order for specific mitigation measures.

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.

As stated in the approved LSAA culverts are to be replaced within 5 years. All associated road will be storm proofed prior to November 15 each year. Regular maintenance and monitoring will occur during the winter period to ensure all culvert crossings and drainage structures are functioning and free of derbies. See attached SMP work order.

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:

All areas of exposed soil will be covered with straw mulch and planted with native grass seed. If erosion and sediment transportation is observed straw bales and waddles will be used to capture sediments which will be excavated and stabilized on site. See attached SMP work order for detailed mitigations.

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	
Product Name	*Product Description*
Iguana Juice Organic grow OMI	100% Organic with all macro and mirco nutrients
Ancient Earth Organic OIM	humic and Fulvic acids
Sensizym Organic OIM	root enzyme
Iguana Juice Organic bloom OM	contains all macro and micro nutrients
Big Bud Organic OIM	Phosphorus, Potassium and amino acids
Bud Candy Organic OIM	carbohydrates and glucose
Mother Earth Super Tea Organi	complex, vitamins, potassium, phosphorus and nutrients
ii. Pesticides	
Product Name	*Active Ingredient and Product Description*
Diatomaceous earth	cristobalite quartz applied to soil
Plant therapy	soybean oil, peppermint essential oil, citric acid. Saturate your infested plants as neede
Lady Bugs	Natural insect predation
Neem Oil	Pest deterrent
Ceder Oil	Pest deterrent
Rosemary Oil	Pest deterrent
Omni shield mildew cure	Controls mildew problems

iii. Herbicides	
Product Name	*Active Ingredient and Product Description*
None	

iv. Rodenticides	
Product Name	*Active Ingredient and Product Description*
None	

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. Please see Cultivation Storage Location Map for location of the barn#2 for chemical storage for this application on the 008 parcel

C. Bulk Fertilizers and Chemical Concentrates
i. How are bulk fertilizers and chemical concentrates stored, mixed, and applied? Fertilizers and pesticides are brought on site by the site manager. A secondary containment for the storage of fertilizers and pesticides is used. The products listed in the tables above are stored in the designated site. All products are placed on top of catchment containers on the floors. The catchment container trays are designed to prevent spills and spill kits are kept in the storage container. The bulk fertilizers and chemical concentrates are mixed within totes in catchment containers in the Barn.
ii. How are empty containers disposed of? Empty containers will be temporally stored in the trash storage area in sorted 50' gallon trash cans and then property disposed/recycled of at the local refuge site.

D. Spill Prevention and Cleanup Plan
i. What procedures are in place to prevent spills of fertilizers, pesticides, herbicides, and rodenticides? All fertilizers, and pesticides will be stored and mixed in approved containers. with catchment containers placed below them. All storage and mixing will be done in specified areas.

ii. What procedures are in place to clean up spills if they occur?   Granulated liquid absorbent,or pads will be kept on site. If a liquid chemical spill occurs granulated absorbent will be used to create a berm around the spill to prevent it from spreading then cover the spill area. If pads are used, start laying them down around the edge to arrest the spill then cover spill area allow the absorbent to become fully saturated. Pick up all of the saturated material and repeat until the bulk of the spill is picked absorbed. Contain and dispose of the used absorbent according to local laws and ordinances.   For dry chemical spills sweep or vacuum the settled residual dry chemical. If vacuuming, use a filter such as a HEPA filter which is capable of trapping the small dry chemical particles. If necessary, wipe with a damp soft cloth. Wash the area with a mild soap and water solution; then rinse and blow dry to remove residual water.

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*
Gasoline	Gasoline for quads, vehicles, and generators
Diesel	Diesel for small equipment
Oil	Oil for quads and or equipment
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.

Please see Cultivation Storage Location Map for location of the barn#2 for chemical and fuel storage

C. Product Use

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

Petroleum products are stored in state approved plastic containers. Gas and oil is used for quads generators, and other small equipment. The containers are stored in the barn. Total combined gas, diesel and oil stored on site will not exceed 200 gallons.

ii. How are empty containers disposed of?

Empty oil containers will be temporally stored in the trash storage area in the large barn in sorted 50' gallon trash cans and then property disposed/recycled of at the local refuge site. Gasoline and Diesel containers are reusable.

D. Spill Prevention and Cleanup Plan

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

Catchment trays are placed below equipment before fueling or oil changes.

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

Granulated fuel absorbent,or pads will be kept on site. If a fuel spill occurs granulated absorbent will be used to create a berm around the spill to prevent it from spreading then cover the spill area. If pads are used, start laying them down around the edge to arrest the spill then cover spill area allow the absorbent to become fully saturated. Pick up all of the saturated material and repeat until the bulk of the fuel is picked up. Contain and dispose of the used absorbent according to local laws and ordinances. Wet the area with water and scrub it using soap and a brush if applicable and rinse it thoroughly with fresh water.

A first aid kit, eyewash station, and fire extinguishers will be made available at the barn. There will be a Safety Data Sheet (SDS) station located in the barn, central to the designated storage area for all products utilized on site.

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.)

Trash and refuse generated at the site are mainly cultivation related waste with a small amount of household waste. Cultivation waste includes nutrient containers, soil bags, and other related items.

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

Trash will temporary be stored in 50 gallon trash cans in the barn to prohibit disturbance from wildlife 50 gallon cans will also be used for sorted recycling. The trash will be hauled to the dump and property disposed/recycled weekly to the Fortuna Transfer station.

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

Please see Cultivation Storage Location Map below.

B. Personal Waste
i. How many employees, visitors, and residents will you have at the site? <u>Employees:</u> 5 <u>Residents:</u> 1 <u>Visitors:</u> 2 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: B&B Portable Toilets serviced seasonally ☐ 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? Once the harvest is finished farm personnel will start the winterizing procedure, which consists of disconnecting and storing the irrigation system, planting cover crops, and installing mulch and erosion prevention measures. All irrigation equipment, tools, and other cultivation related equipment will be labeled, cleaned, winterized and stored in barn#2. These activities will occur prior to the winter period of Nov 15 each year.

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.
All exposed soil shall be reseeded and mulched with straw. Erosion control measures consisting of straw waddles, straw bales and straw mulch shall be in place no later than Nov 15. All captured sediment will be excavated and stabilized on site prior to Nov 15 each year. Site is proposing drip irrigation and is on well drained soils with mild slopes >5% minimal sediment is anticipated.

C. Revegetation Activities
What revegetation activities will occur at the beginning or end of the precipitation season?
Native vegetation will be maintained around the site to buffer the cultivation area. Winter cover crops are recommended to reduce erosion of the site.

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:
All winterization activities shall occur prior to Nov 15 each year.

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 Day

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 _____________________