Cultivation Plan

Mayers Flat Farm LLC
Location: 13360 Dyerville Loop Rd. Meyers Flat CA 95554
County: Humboldt
APN: 211-372-006
Address: P.O. Box 2114 Redway, CA 95560
Contact Name: Vanessa Valare
Telephone: 707.923.1180/760.613.6520
Email: etahumboldt@gmail.com

Cultivation Site

This project will consist of 2 (two) flowering greenhouses. Total cultivation on this parcel is 8,500 Sq. ft. All cannabis in gardens grown in greenhouses. All cannabis is harvested and dried on site. Cultivation site has 2 (two) light deprivation greenhouses, 4,250 ft² each. Two cycles of light deprivation cannabis grown between 2 greenhouses.

Footprint explanation

Cannabis Garden POU #1- This area contains 2 (two) 4,250 ft². light deprivation Greenhouses. (34' X 125' each)

Pond- 350,000 gallons approx.

Water Tanks- 3 qty. 3,000-Gallon HDPE Water Storage Tank

Water Tanks- 1 qty. 1,100-Gallon HDPE Water Storage Tank

Fertilizer Mixing Tank- 1 qty. 550-gallon HDPE Tank

Storage/Drying Processing Building

Immature Plants

Each spring the Applicant takes cuttings or clones from mother plants and rears them in processing building (immature plant area) till plants are approximately 14 inches tall. The Applicant uses supplemental light to start plants flowering the first three weeks of

April and then again in the first three weeks of July. Once the plants have been forced into flowering the Applicant discontinues supplemental lighting inside the greenhouse.

Cultivation Cycles

The Applicant cultivates in light deprivation greenhouses in cycles from April to October. Each spring the Applicant takes cuttings or clones from mother plants and rears them in processing building (immature plant area) till plants are approximately 14 inches tall. The Applicant uses supplemental light to start plants flowering the first three weeks of April and then again in the first three weeks of July. Once the plants have been forced into flowering the Applicant discontinues supplemental lighting inside the greenhouse. The Applicant uses a blackout tarp over the greenhouse, at regular intervals. The Applicant has two mixed light cultivation cycles. The first cycle is from April to July, the second cycle is from roughly July to October.

Monthly Cultivation Site Activities

Month	**Activities**
January	Finish processing of fall harvest, trimming and storage. Plan new year. Mow cover crop. Check greenhouse for issues/fix. Check water lines, tanks and all equipment for repairs or damages. Make plan for repairs.
February	Work on trenches/and holes for plants layer more compost in beds. Treat compost if necessary. Finishing processing last year's crop if still necessary.
March	Get clones from other permitted grow operation. Transplant and move into garage with seedlings. Amend beds, fix fences, service equipment, make plan for independent contractors i.e.; painting, fence building, greenhouse fixing, etc.
April	Amend and start turning beds, prep dirt and supplies for greenhouse plants Add nematodes compost for pest prevention. Mid- April move first round of plants to greenhouses. Weed whacking, mowing, and brush cleanup.
May	Plant Long Term Plants. Spray with preventive sulfur. Treat with biodynamic preparations for pest control and mold control. Greenhouse plants switched into flower using a blackout cover mid-late May. Turn beds, fix/ replace and clean drip emitters, check timers. Double check all water systems for leaks and clogs. Put out sound sensors for rodents.
June	Hay put over each trench for water retention. Use re mesh for supports as well as bamboo stakes which are cleaned with bleach before each use. Bamboo reused for multiple years. Regular feeding schedule of compost teas adhered to. Pests are dealt with as they arise with oils, nematodes and predator mites from

	compost. Procure next round of plants from licensed nursery.
July	Harvest greenhouse mid-month, replant with new clones from a permitted nursery. Treat plants with preventive measures. Harvested flowers to hang in drying room, then to be cured and hand trimmed per processing plan.
August	Finish processing July's harvest. Monitor water supply, check lines and all areas for insect/ animal disturbance.
September	Prepare for Harvest. Clean and prepare lines and drying spaces in drying room. Clean all supplies and purchase new items needed. Harvest, cure and trim as outlined above in processing plan.
October	Harvest greenhouses. Harvest Long term Plants. Process as outlined above. Pull all root-balls, pack hay and cover crop seeds on beds. Pull drip system. Check all equipment and tools for leaks and damages before storing for winter. Store all supplies possible, cleanup site.
November	Winterize water system, greenhouse and sheds. Clean up drying rooms remove all lines and debris. Put away all supplies i.e. fans, dehumidifiers. Continue processing cannabis as outlined above.
December	Start amendments for winter. Prep all water and water storage system for shut down. Clean all garden implements. Put all left over supplies away. Driveway fixing, other farm/garden maintenance.

Processing Plan

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Processing Plan

Harvest

Cannabis will be harvested using gloves and clean tools. All cannabis will be hung to dry in the storage/Drying/Processing building. Dehumidifiers and fans will aid drying in the building. Cannabis will be dried for 10-21 days on lines in these areas depending on weather. The rooms will have proper ventilation, fans, and dehumidifiers to maintain proper environment. Moldy cannabis will be removed and destroyed using county and state approved procedures for holding and destroying unwanted product.

Curing

Curing will take place after cannabis is dried on the lines. Cannabis will be visually checked for mold then placed into plastic totes for (2) weeks to two (2) months for curing. During this time the bins with be checked for mold and moisture consistency. Curing cannabis will be stored in processing building. Moldy or defective cannabis will be removed and destroyed using county and state approved procedures for holding and destroying unwanted product.

Processing

Cannabis Trimming, trimming will occur as cannabis becomes ready from curing process. Trimming will physically take place in storage/drying/processing building (see on map) with plenty of ventilation and fresh air. The Applicant plans to process the cannabis himself with the aid of trim machines. If needed, he will hire 1-3 independent contractors to help. Processed cannabis will be bagged into turkey bags or sealed bags to be held until a distributor is ready. The trim or remaining leaves from processed cannabis, will be bagged into brown lawn bags and into contractor bags to be stored until needed, sold or destroyed in the legal manner. Using a processing center for trimming would be ideal scenario in future. As soon as option is available, the applicant intends to utilize it.

Processing- Independent Contractors

Independent contractors will have access to parking, spacious work zone, clean supplies for task, hand washing areas with soap, bathroom with sink and flushing toilet and break area. The break area has a stove, refrigerator and ample counter space for all meal preparation. Fresh spring water is available, from the residence, which is fed by domestic use spring, but workers are encouraged to bring their own drinking water. All areas are kept clean and in good condition. All independent contractors will have access to personal safety equipment to meet the needs of the job for example, face mask, gloves, Tyvek suits, safety glasses, rubber boot covers etc. There are no worker sleeping quarters on site. Workers are encouraged to carpool to work daily, and applicant intends to mitigate any additional traffic on Dyerville Loop Road, by reducing his own travel during times he has workers.

Worker Safety Practices

Safety protocols will be implemented to protect the health and safety of employees. All employees shall be provided with adequate safety training relevant to their specific job functions, which may include:

Employee accident reporting

Security breach

Fire prevention

Materials handling policies

Use of protective clothing such as long sleeve shirts, brimmed hats, and sunglasses.

Each garden site and or processing area have the following emergency equipment:

Personal protective equipment including gloves and respiratory protection are provided where necessary

Fire extinguisher

First Aid Kit

Snake Bite/Bee Sting Kit

Eye Washing Kit

Comply with all applicable federal, state, and local laws and regulations governing California Agricultural Employers, which may include: federal and state wage and hour laws, CAL/OSHA, OSHA, California Agricultural Labor Relations Act, and the Humboldt County Code (including the Building Code).

Security Plan

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Security

The private driveway off Dyerville Loop Road has a gate that we keep locked at all times for security purposes. The processing building is also long-term storage for cannabis and is always locked. No items of value shall be left in visible areas. The applicant plans to add a camera system to each of the gardens with a central base at the cabin or connected to smartphone. Applicant plans to have this system fully functional by 2022.

Soils Management Plan

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Soils Management Plan

Cultivation Soils

All soil from cultivation site will be reused and never dumped. Reused meaning the applicant either tills the soils in place in the garden areas or creates a pile with straw waddles at the bottom and covers with black plastic. These areas will meet all BMP's required. Applicant amends the garden soils every year with basic amendments. Greenhouses plants are planted in air pots. Protection from overuse of inputs and reuse of these soils shall be a key component of operations.

Operations will protect the resources through the following means:

The Site management plan will be implemented, Cultivations will occur in beds, air pots, or in the ground. Mixing, tilling, and amending of soils will occur within the receptacles. Composting is in a secure dedicated area. Vegetative materials will be chipped back into the compost pile. Cover crops will be utilized when not in cultivation for a month or more to reduce soil loss. Garbage from the cultivation is limited to bags from amendments and fertilizer containers. All items will be cleaned out properly into the garden area, recycled if possible and if not removed to the transfer station. Cultivation-related wastes including, but not limited to, empty soil/soil amendment/ fertilizer/pesticide bags and containers, empty plant pots or containers, dead or harvested plant waste, and spent growth medium shall, for as long as they remain on the site, be stored at locations where they will not enter or be blown into surface waters, and in a manner that ensures that residues and pollutants within those materials do not migrate or leach into surface water or groundwaters.

Stormwater Management

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Erosion Control

This cultivation site is flat. Daily inspections to verify that spoils are not be stored or placed in or where they can enter any surface water. Spoils will be adequately contained or stabilized to prevent sediment delivery to surface waters. Spoils generated through development or maintenance of roads, driveways, earthen fill pads, or other cleared or filled areas shall not be side cast in any location where they can enter or be transported to surface waters. We will use appropriate erosion control measures to minimize erosion of disturbed areas, potting soil, or bulk soil amendments to prevent discharges of waste. Fill soil shall not be placed where it may discharge into surface water. Weed-free straw mulch is used on exposed soils and, if warranted by site conditions, shall be secured to the ground. We will not plant or seed noxious weeds. Prohibited plant species, only locally native, non-invasive, and non-persistent grass species will be used for temporary erosion control. We will incorporate erosion control and sediment detention devices and materials into the design, work schedule, and implementation of all cannabis cultivation activities. Measures to limit or prevent erosion, include, but are not limited to, removal of fill from watercourses, stream restoration, riparian vegetation planting and maintenance, soil stabilization, erosion control, upgrading stream crossings if needed, road out sloping and rolling dip installation where safe and suitable as needed, installing ditch relief culverts and over side drains if prescribed, stabilizing unstable areas, reshaping cut banks, and rocking native- surfaced roads. We will do our best to implement all applicable Erosion Control and Soil Disposal and Spoils Management Requirements in addition to the Winterization Requirements below by the onset of the winter period (November 15).

Measures to protect watershed

All spraying of plants for any type of pest control, mildew/mold control or foliage feeding is done when winds are at 0 and sprayed directly onto plants without over spray. No generators or household projects of any sort happen within 200 ft feet of the watershed. No pumping or dumping ever occurs in watershed. All fertilization of plants is monitored closely. Fertilizer comes from separate tanks. Implementing water conservation measures, irrigating at

conservative rates, applying fertilizers at conservative rates, applying chemicals according to the label specifications, and maintaining stable soil and growth media should serve to minimize the amount of runoff and the concentration of chemicals in that water. If irrigation runoff occurs, measures shall be in place to treat/control/contain the runoff. We try to be water conservative and use no more then what is required. Irrigation runoff will be contained so that any pollutants are trapped in the ditch relief. Irrigation runoff will be managed so that any entrained constituents, such as fertilizers, fine sediment and suspended organic particles, and other oxygen consuming materials are not discharged to nearby watercourses. We will do our best to ensure that irrigation tailwater is not discharged towards or impounded over unstable features or landslides.

Water Irrigation and Storage Plan

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Water Plan

Water Storage and Usage Water Storage and Usage

Projected Water use for this site is approximately 86,462.5-gallons. The projected water use for the cannabis is approx. 68,212.5-gallons. Domestic water use is expected to be approx. 18,250-gallons. This water use is an estimate to the best of my knowledge. Domestic water is sourced from Domestic Use Spring, S028042. The applicant also has a Small Irrigation Use Right H508360/H505233 to use water for irrigation if need be. The irrigation water source for this operation is rainwater stored in a pond that has a capacity of approximately 350,000-gallons. The rainwater stored in the pond provides enough water for all seasonal irrigation uses. The applicant also has a well on the property, which is 220' deep and yields 20GPM, for backup water in case the pond recedes. There are 3 (three) 3,000-gallon HDPE water storage tanks that are filled from the spring during the diversion period and from the well during the forbearance period, and one 1,100-gallon HDPE water storage tank that is used to store the water from the pond for short periods of time. (less than 30 days).

Water Discharge

Water storage is separate from cannabis feeding tank. Feeding tank is at least 200 ft from nearest water source and on flat ground. Mulched organic matter is spread on topsoil to help with evaporation and runoff. Heavy amounts of peat moss and coco coir are also amended into soil periodically to help with runoff of fertilizer. No run-off from cultivation watering flows into the ground. Cannabis cultivation occurs at least 200 feet away from the Class II watercourse. All poly-flex irrigation water lines are anchored,

located up and out of drainages, and sited in a responsible way so as not to impede water flow through stream channels.

Monthly Water Use Table

Month	**Cannabis Use in Gallons**	**Domestic Use**
January	0	1,550
February	0	1,400
March	0	1,550
April	9,562.5	1,500
May	9,881.25	1,550
June	9,562.5	1,500
July	9,881.25	1,550
August	9,881.25	1,550
September	9,562.5	1,500
October	9,881.25	1,550
November	0	1,500
December	0	1,550
Total	**68,212.5**	**18,250**

I have read and keep a copy in my binder of the "Best Management Practices of Waste Resulting from Cannabis Cultivation and Associated Activities or operations with Similar Environmental Risk", "Performance Standards for all CMMLUO Cultivation and Processing Operations" and the "Legal Pest Management practices for Marijuana Growers in California". I intend to practice the guidelines set forth by these documents to help ensure my compliance with laws. I also intend to be flexible with county and state officials, make changes as necessary and upgrade my property to comply. Please feel free to contact me for any more information.

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The applicant employs following methods to help prevent the introduction and spread of invasive species;

- Cleans outdoor recreation gear
- Not releasing any unwanted pets or fish into the wild
- Identifying the most troublesome invasive species, avoid spreading them, and trying to control them.
- Using only native plants that are appropriate for the region.
- Cleans all machines before and after use.
- Avoid disturbing natural areas whenever possible.
- Remove any invasive plant species using the hand pulling method to mitigate regrowth and the spread of seed.

The sixteen most harmful weeds in Humboldt County include: Scotch broom (*Cytisus scoparius*), Pampas grass (*Cortaderia jubata*), gorse (*Ulex Europaea*), Himalaya berry (*Rubus discolor*), English ivy (*Hedera helix*), Cape ivy (*Delairia odorata*), European beachgrass (*Ammophila arenaria*), Ice plant (*Carpobrotus edulis*), yellow bush lupine (*Lupinus arboreus*), yellow star thistle (*Centaurea solstitialis*), spotted & diffuse knapweed (*Centaurea maculosa* &*Centaurea diffusa*), bull & Canada thistle (*Cirsium Vulgare* & *Cirsium arvense*), common reed (*Phragmites australis*), Spanish heath (*Erica lusitanica*), and Chilean cordgrass (*Spartina densiflora*).

If any of these invasive species are encountered, the applicant will use the hand pulling method to remove the invasive species, while mitigating regrowth and preventing the spread of seed. All Hand pulling of invasive species will be done wearing gloves and protective clothing.

Parking Plan

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There is 1 (one) parking area on the property.

Parking area is located adjacent to the processing building.

Parking area has a capacity of 4 (four) cars.

This provides ample space for parking of any vehicles associated with the cultivation.

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Storage/Drying Processing Building

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April and then again in the first three weeks of July. Once the plants have been forced into flowering the Applicant discontinues supplemental lighting inside the greenhouse.

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Domestic Wastewater

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Domestic Wastewater

Disposal of domestic sewage shall meet applicable County health standards, local agency management plans and ordinances, and/or the Regional Water Board's Onsite Wastewater Treatment System (OWTS) policy and shall not represent a threat to surface water or groundwater.

Wastewater is generated using one toilet and 2 sinks, that are in one bathroom and one kitchen area in the residence.

The wastewater is contained into a septic tank

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Light Pollution Control Plan

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Light Pollution Control

The only light applicant uses is supplemental light for immature plants. Immature plants located in the processing building. Area is well maintained and inspected for light leaks every day that plants are under this light. The light is small supplemental light 30-40 22w light bulbs. All doors and windows of processing shed are blacked out with black plastic to prevent light leaks. Applicant guarantees that there are no light leaks coming from the processing shed.