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Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-04: Marijuana Cultivation Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana cultivation facility license and must accompany **Form MJ-01: Marijuana Establishment Operating Plan**, per 3 AAC 306.020(b)(11). Applicants should review **Chapter 306: Article 4** of the **Alaska Administrative Code.** This form will be used to document how an applicant intends to meet the requirements of the statutes and regulations.

If your business has a formal operating plan, you may include a copy of that operating plan with your application, but all fields of this form must still be completed per 3 AAC 306.020 and 3 AAC 306.420(2).

What additional information is required for cultivation facilities?

Applicants must identify how the proposed establishment will comply with applicable regulations regarding the following:

- Prohibitions
- Cultivation plan
- Waste disposal
- Odor control
- Testing procedure and protocols
- Packaging and labeling

This form must be completed and submitted to AMCO's main office before any new or transfer application for a standard marijuana cultivation facility or limited marijuana cultivation facility license will be considered complete.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	Raspberry Roots, LLC	**MJ License #:**		10098	
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Raspberry Roots				
Premises Address:	501 Raspberry Rd, Suite 102				
City:	Anchorage	**State:**	Alaska	**ZIP:**	99518

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Section 2 – Overview of Operations

2.1. Provide an overview of your proposed facility's operations. Include information regarding the flow of marijuana from seed or clone to harvest and transfer from your premises:

All marijuana cultivated at Raspberry Roots will be tracked from seed or clone to sale or destruction in METRC, the marijuana inv entory tracking system. After seeds are popped or clones are taken, it's recorded in Metrc in batches. Plants that reach eight inch es will be tagged and assigned a tracking number. Once a flowering room is available, those tagged plants are moved in and recor ded in Metrc in the new room in Flowering stage. They stay in the 12 hours of light/ 12 hours of dark for 8-10 weeks before harve sting. Plants then get chopped to hang as whole plants in the Cure room for at least 14 days. Marijuana will be harvested and gro uped into batches up to five pounds of individual strains and will be assigned a METRC harvest batch number. A random sample will be collected from each batch and sent to a licensed testing facility. The remainder of the batch will be segregated until the te sting results are received. A transport manifest generated from METRC will be sent with each transfer of marijuana to another lic ensed facility. Marijuana will be sealed in not more than five pound containers inside a secured storage compartment within the vehicle for wholesale transactions and up to one ounce containers for resale by retailers without repackaging. Package labels will include: (1) the name and license number of the cultivation facility; (2) the date the marijuana was harvested; (3) the harvest bat ch number assigned to the marijuana; (4)strain information; (5) the net weight and the quantity of usable marijuana packaged in a standard of measure compatible with the inventory tracking system; (6) Testing information from State licensed Lab, and the 5 warning statements (7) and the 5 warning statements. A complete list of all pesticides, fungicides, and herbicides used in the cult ivation of the marijuana will be made avaiable on the transfer documents.

Section 3 – Prohibitions

Review the requirements under 3 AAC 306.405 and 3 AAC 306.410.

3.1. I certify that the marijuana cultivation facility will not: Initials

a. **sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation;** CAK

b. **allow any person, including a licensee, employee, or agent, to consume marijuana or marijuana product on the licensed premises or within 20 feet of the exterior of any building or outdoor cultivation facility; or** CAK

c. **treat or otherwise adulterate marijuana with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana.** CAK

Section 4 – Cultivation Plan

Review the requirements under 3 AAC 306.420 and 3 AAC 306.430.

4.1. Describe the size of the space(s) the marijuana cultivation facility intends to be under cultivation, including dimensions and overall square footage. Provide your calculations below:

The facility is approximately 13,000 square feet, currently utilizing 2 specific Bloom rooms measuring 1520 square feet total, and 1 Veg room measuring 1026 square feet. Additionally, it has Inventory a nd Security Offices, a break room, trimming/ packaging room, warehouse space for multi use purpos es, a cure room, quarantine, and a multi purpose room. It has one front door for all regular ingress an d egress from the building, and 2 emergency exit doors (break room and warehouse). There are two floors to the facility. Eventually, there will be 2 specific Veg rooms and 8 specific Bloom rooms.

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You must be able to certify the statement below. Read the following and then sign your initials in the box to the right: Initials

4.2. The proposed area(s) for cultivation are clearly identified on the Form MJ-02: Premises Diagram that is submitted with this application. KAK

Answer "Yes" or "No" to the following question: Yes No

4.3. Will the marijuana cultivation facility include outdoor production? ☐ ☒

If "Yes", describe the outdoor structure(s) or the expanse of open or clear ground and how it is fully-enclosed by a physical barrier:

4.4. Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility, whether indoors or outdoors, cannot be observed by the public from outside the facility:

Raspberry Roots will ensure that marijuana cannot be visible by the public from any door to the facility or windows. All windows in the cultivation facility will be blacked out making it impossible to see into the veg rooms. All movement/transport of marijuana will be discrete, utilizing the designated side door away from views of retail customers . All growing, processing, curing, packaging and labeling activities will be done inside the facility, not visible from outside. All marijuana will be securely packaged, labeled and organized for transport within the facility before being moved to the transport vehicle.

4.5. Describe the marijuana cultivation facility's growing medium(s) to be used:

We use Grodan rockwool cubes, which are made from basalt rocks and stone wool (silica, Ca, Al, Mg, Fe, Na, Ti, K, and Mn). This is a type of hydroponic growing method that allows the plants to use fewer root balls to uptake more water and nutrients. There is an automatic irrigation system utilizing tables designed in conjunction with a nutrient management system to maximize production yield.

4.6. Provide the complete product name and EPA registration # (if applicable) for each of the cultivation facility's pesticides and pest control products to be used. All proposed products must be on DEC's list of approved pesticides in the state of Alaska:

Potential products to use:

Botanigard ES: 82074-1
70% Neem Oil: 70051-2-54705
AZASOL: 81899-4-4578
Monterey Take Down Garden Spray: 67702-5-54705
Pyrethrum TR Total Release: 499-479
Regalia PTO BioFungicide: 984059-3-87865
Serenade Garden Disease Control Concentrate: 264-1152
Zerotol 2.0: 70299-12
Harmex Rooting Powder: 8281-6
Milstop Broad Spectrum Foliar: 70870-1-68539

4.7. Describe all other fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used at the marijuana cultivation facility:

The facility uses the following plant nutrients as fertilizer added to the hydroponic water solution: (1) Nitrogen; (2) Phosphorus; (3) Potassium; (4) Sulfur; (5) Calcium; (6) Magnesium; (7) Iron; (8) Manganese; (9) Boron; (10) Copper; (11) Zinc; (12) Molybdenum; (13) Chlorine; (14) Nickel; and (15) Silicon. Naturally occurring atmospheric gases absorbed through the plant roots or leaves include: (1) Hydrogen; (2) Oxygen; and (3) Carbon dioxide. The facility will use carbon dioxide (CO_2) as a gas distributed in the growing rooms by pressurized cylinders of carbon dioxide. The parts per million (ppm) of carbon dioxide gas distributed to each growing room will be constantly electronically monitored and set to turn on and off when the ppm concentration of CO_2 gas falls below or rises above a set concentrate.

4.7. Describe the marijuana cultivation facility's irrigation and waste water systems to be used:

The facility uses hand watering techniques and drip irrigation methods for plants growing in individual Grodan cubes. There is very little water run-off from these watering systems. The facility uses an aut omated watering system pulled from reservoir tanks specific to each grow room and plant stages. Ot her smaller tanks that are moveable are sometimes used for specific purposes based on indivudual p lant needs. There are Floor drains in every room for any water run off.

Section 5 – Waste Disposal

Review the requirements under 3 AAC 306.740.

You must be able to certify the statement below. Read the following and then sign your initials in the box to the right: Initials

5.1. The marijuana cultivation facility shall give the board at least three days written notice required under 3 AAC 306.740(c) before making marijuana waste unusable and disposing of it.

5.2. Describe how you will store, manage, and dispose of any solid or liquid marijuana waste, including wastewater generated during marijuana cultivation, in compliance with any applicable laws. Include details about the material(s) you will mix with ground marijuana waste and the processes that you will use to make the marijuana waste unusable for any purpose for which it was grown:

Raspberry Roots will implement a thorough Disposal Plan to safeguard marijuana consumers, employees, and the community from the potential hazards presented by marijuana waste. The expected waste that the Company will be disposing of includes fan leaves, stems, stalks, and roots from the plant, as well as marijuana that fails to meet testing standards or is contaminated by mistakes (dropped on floor, etc.) The waste is stored away from other marijuana product in containers strictly for waste material. The Company will ensure that all marijuana waste is rendered unusable prior to leaving the property by grinding the material with either non compostable or compostable solid wastes, resulting in at least a fifty percent (50%) non marijuana mixture. The company has purchased two large, heavy duty grinders. The grinding will take place right outside our ' bay door', underneath a camera and on facility property away from public any passage, to prevent injury and or gas/fume contamination to product and/or employees. Management will ensure that the resulting mixture is composed of no more than fifty percent (50%) marijuana by volume. The Waste mixture is placed in heavy duty contractor bags and placed in the dumpster the night before or the morning of Trash pick up. A Disposal Log including the date and weight of disposed products. This information will be kept as part of the Company's business records.

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Section 6 – Odor Control

Review the requirements under 3 AAC 306.430.

Answer "Yes" or "No" to the following question:	Yes	No
6.1. Have you received an exemption from your local government for the odor control requirement set forth in 3 AAC 306.430(c)(2)?	☐	☒

If "Yes", you must be able to certify the statement below. Read the following and then sign your initials in the box: Initials

I am attaching to this form documentation of my odor control exemption from the local government. [illegible]

If "No" to question 6.1., describe the odor control method(s) to be used and how the marijuana cultivation facility will ensure that any marijuana at the facility does not emit an odor that is detectable by the public from outside the facility:

Commercial grade, activated carbon filters and high velocity fans will be used throughout the cultivation areas to filter all air before being vented outside. The carbon filters will be regularly replaced to ensure maximum performance at all times. Raspberry Roots will take additional odor control measures by utilizing ozone generators as well as sealed grow rooms. Additionally, employees will be tasked with weekly "smell tests". The "smell test" will consist of the employee walking to each edge of the property line and attempting to smell marijuana. If marijuana odor is present at the edge of property line - the facility will replace the carbon filters (if necessary) and/or install additional odor controls. The ambient air outside of the grow rooms and circulating in the building will have a closed system air conditioner also filtering the air for particulates and odor while maintaining the building's air temperatures. The air filtration and circulation systems will be essential to controlling heat buildup and eliminating exhaust odors.

Section 7 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.455 and 3 AAC 306.465.

You must be able to certify each statement below. Read the following and then sign your initials in the corresponding box: Initials

7.1. I understand and agree that the board or director will, from time to time, require the marijuana cultivation facility to provide samples of the growing medium, soil amendments, fertilizers, crop production aids, pesticides, or water for random compliance checks. [illegible]

7.2. I will ensure that any individual responsible for collecting random, homogenous samples for required laboratory testing under 3 AAC 306.455 will prepare the necessary accompanying signed statement, provide the signed statement to the marijuana testing facility, and maintain a copy as a business record under 3 AAC 306.755. [illegible]

7.3. Describe the testing procedures and protocols the marijuana cultivation facility will follow:

All harvested marijuana will be processed into batches five (5) pounds or less. A designated agent from the facility will collect a testing sample at random from each batch. The individual responsible for collection will prepare a signed statement attesting that each sample was randomly selected and provide a signed statement to the testing facility. Raspberry Roots will transport all samples to a licensed testing facility in compliance with the state regulations and the company's transportation policies. The facility will ensure that any individual transporting marijuana has a valid marijuana handler permit issued by AMCO. While awaiting the testing results, the remainder of the batch will be segregated in a secure, cool, and dry storage to protect the marijuana from contamination and to maintain batch accuracy. The facility will maintain all testing results as part of its official business records. The facility will not sell or transport any products from the batch until the testing facility has completed its testing and provided those results to the facility. R.Roots will comply with any request from AMCO for a random sample from any growing medium, soil amendment, fertilizer, crop production aid, pesticide, or water and shall bear the expense for all such requests.

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Section 8 – Packaging and Labeling

Review the requirements under 3 AAC 306.470 and 3 AAC 306.475.

Answer "Yes" or "No" to the following question:	Yes	No
8.1. Will the marijuana cultivation facility be packaging marijuana for a retail marijuana store to sell to a consumer without repackaging?	✓	

If "Yes", describe how the marijuana cultivation facility will ensure that the marijuana sold will meet the packaging requirements in 3 AAC 306.470, and provide a sample label that the facility will use to meet the labeling requirements set forth in 3 AAC 306.475:

Marijuana that will not get repackaged by the Retailers will be in quantities less than one ounce, in resealable mylar bags that have been heat sealed shut, making them child resistant OR in child resistant drams. The label includes the name Raspberry Roots, the license #, the harvest batch number, strain information, weight of the product, the total THC, and the 5 warning statements. Accompanying the prepacked units, the shipping container will have additional information such as official testing report from state licensed labroatory, and information regarding the use of pesticides and fungicides, if any. All packaging will be inspected by both parties to ensure the safety and integrity of the original packaging from contamination and not impart toxic or deleterious substances.

Answer "Yes" or "No" to the following question:	Yes	No
8.2. Will the marijuana cultivation facility be packaging marijuana in wholesale packages?	X	

If "Yes", describe how the marijuana cultivation facility will ensure that the marijuana sold will meet the packaging requirements in 3 AAC 306.470, and provide a sample label that the facility will use to meet the labeling requirements set forth in 3 AAC 306.475:

Wholesale packages of marijuana will be sold to other licensed facilities in packages up to five pounds consisting of a single strain or a mixture of strains with strain names identified on the label. Plastic packaging will be heat sealed without an easy open tab, dimple, corner, or flap to keep secure from contamination and not impart toxic or deleterious substances. Wholesale labels include Raspberry Roots, license # 4a-10098, the harvest batch #, the weight of the package, THC percentages, and the 5 warning statements. Additionally, the testing results from state licensed laboratory that includes (1) the date of final testing; (2) the cannabinoid potency profile, expressed as a range of percentages that extends from the lowest percentage to highest percentage of concentration for each cannabinoid(3) a statement listing the results of microbial testing; and (4) a statement listing the contaminants for which the marijuana was tested, including molds, mildew, filth, herbicides, pesticides, fungicides, and harmful chemicals is supplied along with a list of all pesticides, fungicides, and herbicides used in cultivation. A METRC generated tracking label will be affixed to each package.
All packaging will be inspected by both parties to ensure the safety and integrity of the original packaging from contamination and not impart toxic or deleterious substances.

I certify that as a marijuana cultivation facility, I will submit monthly reports to the Department of Revenue and pay the excise tax required under AS 43.61.010 and AS 43.61.020 on all marijuana sold or provided as a sample to a marijuana establishment, as required under 3 AAC 306.480.

I declare under penalty of unsworn falsification that this form, including all accompanying schedules and statements, is true, correct, and complete.

Kimberly A Kole
Signature of licensee

Kimberly A. Kole
Printed name of licensee

VALERIE MASTOLIER
Notary Public
State of Alaska
My Commission Expires Jun 7, 2022

Notary Public in and for the State of Alaska

My commission expires: 6/7/22

Subscribed and sworn to before me this 17 day of December, 2018.

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(Additional Space as Needed):

Example:

RASPBERRY ROOTS

Raspberry Roots **3a-10097**
Raspberry Roots **4a-10098**
Dark Star Indica
207 DKS 031418
THC%: 18.18 TOTAL%: 21.22 WEIGHT: 3.50g

"Marijuana has intoxicating effects and may be habit forming and addictive.; Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence.; There are health risks associated with consumption of marijuana.; For use only by adults twenty-one and older. Keep out of the reach of children.; Marijuana should not be used by women who are pregnant or breast feeding."

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