Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

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 the **Marijuana Establishment Operating Plan (Form MJ-01)**, 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 those 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
- *Odor control*
- Testing procedure and protocols
- Security

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This form must be submitted to AMCO's main office before any marijuana cultivation facility license application will be considered complete.

Section 1 – Establishment Information

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

Licensee:	ELLIOTT LANGFORD; STEVEN NICOL	**License Number:**	11651		
License Type:	Limited Marijuana Cultivation Facility				
Doing Business As:	ALASKA CANNABIS PROPAGATION				
Premises Address:	2301 South Knik-Goose Bay Road #4B				
City:	Wasilla	**State:**	ALASKA	**ZIP:**	99654

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Section 2 – Prohibitions

Applicants should review 3 AAC 306.405 – 3 AAC 306.410 and be able to answer "Agree" to all items below.

The marijuana cultivation facility will not:	Agree	Disagree
Sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation	☒	☐
Allow any person, including a licensee, employee, or agent, to consume marijuana or marijuana product *on its licenses premises or within 20 feet of the exterior of any building or outdoor cultivation facility*	☒	☐
Treat or otherwise adulterate marijuna with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana	☒	☐

Section 3 – Cultivation Plan

Review the requirements under 3 AAC 306.420, and identify how the proposed premises will meet the listed requirements.

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:

Our warehouse consists of a 900 square foot ground floor which will hold our flowering and vegetation areas.

We will use 320sqft of our entitled 500sqft, for strictly flowering plants. Our flowering areas will be contained inside sealed rooms, inside our warehouse. The total area of a single flowering room will be an estimated 300sqft. Our flowering plants will be designated to the alotted 160sqft inside each sealed room.

Our remaining 180sqft allotment, will be utilized for our vegetation area. This will be kept in the free space within our warehouse and will hold all of our clones, seedlings and mother plants. We will have extra cultivating room within this area to work with so mother plants and clones can be easily organized without removing them from our cultivation area.

L x W x H	CULTIVATING ROOM
30' x 10' x 12' (Flowering Rooms) x2	160sqft (x2) = 320'
10' x 18' x 8' (Vegetation Room)	180sqft

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

Our main cultivation plan is to use 6" x 6" Grodan rockwool cubes for our flowering room. After a few harvests we may impliment a side-by-side test of coco coir and rockwool cubes.

We will be using a combination of Grodan rock wool, soil, and coco coir for our mothers.

Our clones will be propagated in small 2" x 2" rockwool cubes and aeroponic cloners. The cloners use no medium other then tap water and individual, reusable foam pucks which get sanitized and reused for every round of clones.

Describe the marijuana cultivation facility's fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used:

We plan on hand watering our mother plants, but our flowering room will have an automated non-recirculating watering system, designed to reduce wastewater.

Carbon Dioxide will be utilized in our flowering rooms. Co2 regulation will be digitally controlled and monitored by our HVAC system. We will have sensors in all areas of our warehouse. The Co2 concentration in our flowering rooms will range from 600ppm, to 1500ppm, depending on what life cycle our plants are in.

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

Our flowering rooms will consist of non-recirculating automated hydroponic systems, designed to reduce waste water runoff and nutrient usage. We will have several 55-Gallon drums filled with filtered tap water. Once the water reaches room temperatures, our Veg-Bloom nutrients will be added and mixed inside these containers. We will have 2 drums designated for our flowering rooms, 1 for our vegetation area, and 2 for extra water and condensate run-off.

Once mixed and Ph is calibrated, the nutrient solution will be pumped to our plants through pvc pipes. Each plant in our flowering room will have their own inidividual drippers installed.

Any large amount of wastewater will be stored in a large 1,000 gallon container and stored outside until full. Once the container is full we will have it picked up and disposed of through the proper chemical disposal facility.

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Describe the marijuana cultivation facility's waste disposal arrangements:

Our drain to waste hydroponic systems are designed to reduce wastewater and nutrient usage by watering only when the plants are thirsty and require water. The water collected from our 3 cultivating areas will be filtered of sediment, and then stored in a 1,000 gallon container. Once full the container will be picked up and will be brought to a chemical disposal facility.

All plant waste will be collected in three main parts:

During the growing stage we will prune fan leaves and collect them in 55-gallon trash cans. These will be mixed with equal parts commercial compost, wood chippings or another organic material and kept inside our warehouse until used on in-house soil applications.

During the harvesting stage we will have waste in the form of our rockwool growing medium

* Continued →

Section 4 – Odor Control

Review the requirements under 3 AAC 306.430, and identify how the proposed premises will meet the listed requirement.

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:

Our warehouse is sealed and airtight to begin with. The cultivating areas will be contained inside sealed, airtight rooms, inside our sealed warehouse. Each cultivating area will have separate HVAC systems with ozone-filters installed to eliminate all airborn odors and dust contamination. Our drying area will be sealed with a dehumidifier, and have its own, designated carbon air filters to reduce odors. The trimming area will also have its own air circulation and odor control in the form of carbon and ozone filters.

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Describe the marijuana cultivation facility's waste disposal arrangements:

During the harvesting stage we will have waste in the form of our rockwool growing medium with the roots, and excess stems and stalks. The plants rootballs will be contained inside the 6" x 6" rockwool cubes. These will get thouroughly mixed with 50% non-compostable material, such as wood shavings, paperwaste, plasticwaste or excess Rockwool. This mixed material will be delivered to a permitted solid waste facility, incinerator, or other facility with approval of any applicable local government entity.

During the trimming stage, we will have excess stems and clippings. These will be disposed of through our previous mentioned composting methods and be kept on-site.

Section 4 – Odor Control

Review the requirements under 3 AAC 306.430, and identify how the proposed premises will meet the listed requirement.

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:

Our warehouse is sealed and airtight to begin with. The cultivating areas will be contained inside sealed, airtight rooms, inside our sealed warehouse. Each cultivating area will have separate HVAC systems with ozone-filters installed to eliminate all airborn odors and dust contamination. Our drying area will be sealed with a dehumidifier, and have its own, designated carbon air filters to reduce odors. The trimming area will also have its own air circulation and odor control in the form of carbon and ozone filters.

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Section 5 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.455 and 3 AAC 306.465, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the item below.

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I understand and agree that:	Agree	Disagree
The board will or the director shall 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	●	○

Describe the testing procedure and protocols the marijuana cultivation facility will follow:

We will have every batch produced in our facility tested through a licensed marijuana testing facility before we sell or transport any marijuana to a licensed retailer or manufacturer.

The test samples collected will be randomly selected from every batch of individual strains of bud/flower, and trim. Every sample will be chosen by our primary owner, "Elliott Langford", and will be accompanied by an affidavit showing that the sample has been randomly selected for testing. The original affidavit will be given to the marijuana testing facility, and a copy will be kept for business records.

We will segregate the entire batch from which the testing sample was selected until the marijuana testing facility reports the results from the test. During this period of segregation, we will maintain the individual batches in a secure, cool and dry location to prevent the marijuana from becoming contaminated or losing its efficacy.

Only once we have received our written results from the marijuana testing facility will we commence the sell or transportation of the product.

Upon request, samples of our growing medium, fertilizer, water, amendments, pesticides, and any other requested item will be sent to a designated testing facility and our results will be tracked and sent to to the board or director. We will also bear all costs.

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Section 6 – Security

Review the requirements under 3 AAC 306.430 and 3 AAC 306.470 – 3 AAC 306.475, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the two items below.

The marijuana cultivation facility applicant has:	Agree	Disagree
Read and understands and agrees to the packaging of marijuana requirements under 3 AAC 306.470	◉	○
Read and understands and agrees to the labeling of marijuana requirements under 3 AAC 306.475	◉	○

Restricted Access Area (3 AAC 306.430):

	Yes	No
Will the marijuana cultivation facility include outdoor production?	○	◉

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

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Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility cannot be observed by the *public from outside the facility:*

Our main warehouse area does not have any windows, giving us full and complete concealment. Each cultivating area is inside a sealed room within our warehouse. There is no way any person of the public could see our cultivating areas from the outside of our building.

Our final trimming will be done in our front office area where there are several windows, but each window will be covered by curtains, preventing any body outside our facility from viewing our product.

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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 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 perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

Signature of licensee

Elliott Langford ; Steven Nicol
Printed name

Subscribed and sworn to before me this 11 day of April, 20 17.

PARRISH SPOHN
Notary Public, State of Alaska
My Commission Expires
November 24, 2018

Notary Public in and for the State of Alaska.

My commission expires: NOV. 24, 2018