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

Why is this form needed?

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 Anchorage 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:	Dragon's Lair LLC	**MJ License #:**		41043	
License Type:	Limited Marijuana Cultivation Facility				
Doing Business As:	Dragon's Lair				
Premises Address:	21468 W. Kobuk Lane				
City:	Wasilla	**State:**	Alaska	**ZIP:**	99654

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Form MJ-04: Marijuana Cultivation Facility Operating Plan Supplemental

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 Dragon's Lair will be tracked from seed or clone to sale or destruction in Metrc. All plants that reach eighteen (18) inches will be tagged and assigned a tracking number. Marijuana will be harvested and grouped into batches up to ten (10) pounds of individual strains and will be assigned a Metrc harvest batch number. A harvest batch representative will be collected from each harvest batch and sent to a licensed testing facility. The remainder of the batch will be segregated until the testing results are received. A transport manifest generated from Metrc will be sent with each transfer of marijuana to another licensed facility. Marijuana will be sealed in not more than ten-pound containers inside a locked storage compartment within the vehicle for wholesale transactions and up to one ounce containers for re-sale by retailers without re-packaging. Package labels will include: (1) the name and license number of the cultivation facility; (2) the date the marijuana was harvested; (3) the harvest batch number assigned to the marijuana; (4) the date the marijuana was packaged, (5) the net weight and the quality of usable marijuana packaged in a standard of measure compatible with the inventory tracking system; and (6) a complete list of all pesticides, fungicides, and herbicides used in the cultivation of the marijuana.

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;**

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**

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.**

Section 4 – Cultivation Plan

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

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

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

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

4.2. 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:

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Form MJ-04: Marijuana Cultivation Facility Operating Plan Supplemental

4.3. 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:

Dragon's Lair Cultivation will ensure that marijuana cannot be visible by the public from any door or window to the cultivation areas. All entrance/exits will not have a direct view of any marijuana. All movement of marijuana will be discrete. All growing, processing, curing, drying, packaging and labeling activities will be done inside the facility in a dedicated space not visible from outside. All marijuana will be securely packaged, labeled and organized for transport within the facility before bing moved to the transport vehicle.

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

Dragon's Lair will be using deep water horticulture The growing mediums used may include: clay pebbles (Hydroton), perlite, or lava rocks to support the plant within a net pot and keep it from falling into the reservoir. Net pots may be used with wide mesh to allow the roots to easily reach the nutrient solution. Rockwool can be used to germinate seeds or root clones before transferring them to the Deep Water Culture (DWC) system.

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

Dragon's Lair Cultivation may utilize any of the approved for use on cannabis pesticides found on DEC's website at any given time, if the need arises.

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

The fertilizers used may include Flora Series (FloraGro, FloraBloom, FloraMicro), pH Perfect Sensi Grow, Bloom, FoxFarm Grow Big, Tiger Bloom, Big Bloom, or CaliMagic. Dragon's Lair may use either a two part or three part nutrient system or complete nutrient solutions. The types of DWC systems that may be used include singe DWC, recirculating DWC, or Bubbleponics. An air pump with air stone will oxygenate nutrient solution, preventing root rot. Net pots will be used to hold the plant and growing medium. Macro Nutrients may include: Nitrogen, Phosphorus and Potassium, Secondary Nutrient may include: Calcium, Magnesium and Sulfur, Micro Nutrients may include: Iron, Manganese, Zinc, Boron, Copper, Molybdenum and Chlorine. Carbon dioxide will be monitored to ensure levels remain at desired range. Air circulation and ventilation will be maintained to ensure adequate air exchange preventing CO_2 depletion. Dragon's Lair may use CO_2 generators or CO_2 tanks if needed. No chemical gases will be used.

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

The facility will be using a deep water horticulture system and will utilize one or more of the following waste water procedures: 1. Drain-to-Waste - waste water will be discarded after a set period or when nutrient levels drop significantly, 2. Recirculation - water will be recirculated after treatment to remove waste, 3. Wastewater treatment - wastewater will be treated to remove pollutants and make it suitable for reuse, 4. Constructed Wetlands - aquatic plants will be used to filter and purify the wastewater, absorbing nutrients and pollutants, 5. Dilution and Reuse: wastewater will be diluted with tap water and reused after testing of nutrient levels to ensure plants do not get over-fertilized.

Section 5 – Waste Disposal

5.1. 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:

Dragon's Lair will be disposing of: (1) marijuana that is identified as contaminated, infected or is otherwise rejected for quality or fails to meet quality testing; (2) waste from marijuana flowers, plant material and trimmings; (3) wastewater from cultivation and processing; (4) any other materials or containers in contact with marijuana waste that risks contamination; (5) any other marijuana deemed as waste by the Marijuana Control Board or its director. Marijuana waste will be stored away from all other marijuana in a locked container and will be rendered unusable prior to leaving the facility for disposal. All marijuana waste will be recorded in Metrc. Marijuana waste will be rendered unusable by grinding and then mixing it with other compostable materials such as food waste, yard waste, vegetable-based grease, or oils until the mixture is no more than fifty percent (50%) marijuana waste. The mixture will then be composted on-site. If the marijuana waste cannot be composted, it will be mixed with non-compostable materials such as paper waste, cardboard waste, plastic waste, or oil, until the resulting mixture is no more than fifty percent (50%) marijuana waste. Once rendered unusable, the waste will be securely stored on the premises until a waste truck comes to collect and dispose of the waste. Management will maintain a log on the status of all marijuana waste, tracking the type, date of disposal, reason for disposal, date it was rendered unusable, and final destination. Dragon's Lair's wastewater management is outlined in Section 4.7. Waste information will be recorded in the disposal log and securely stored as a business record, available to AMCO upon request.

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.

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:

Dragon's Lair will equip the current facility to minimize odor through the use of multiple carbon filters. All plants will be separated into vegetative, bloom and flower rooms that share common air. Carbon filters will be used to filter the air for particulates and odor. The air filtration and potential circulation systems will control the heat buildup and eliminate exhaust odor. A licensee or employee will frequently partake in "smell tests" where they will walk the perimeter of the premises lot and attempt to "smell" marijuana. Dragon's Lair will either change their carbon filters, utilize commercial fans, or install additional odor control methods if smell is detected. Smell tests will be logged and kept on record.

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.

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.

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

Marijuana will be harvested and grouped into batches. All batches for testing purposes will be of one single strain and will be assigned a Metrc harvest batch number. In compliance with AMCO regulations, testing samples will be collected from each harvest batch and sent to a licensed testing facility. The individual responsible for collection will prepare a signed statement attesting that each sample is representative of the harvest batch package and maintain a copy as an official business record. The remainder of the batch will be segregated in the secured quarantined product area until the testing results are received. During this period of segregation, Dragon's Lair will maintain the harvest batch package from which a sample was taken, in a secure, cool, and dry location to prevent the marijuana from becoming contaminated or losing its efficacy. Dragon's Lair will transport all samples to a licensed testing facility in compliance with state regulations and the company's transportation policies. The facility will ensure that any individual transporting marijuana has a valid AMCO marijuana handler permit. The facility will maintain all testing results as part of its official business records and will enter the results in Metrc. Dragon's Lair will comply with any request from AMCO for a harvest batch sample from any growing medium, soil amendment, fertilizer, crop production aid, pesticide, or water and shall bear the expense for all such requests.

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:

Dragon's Lair will package all marijuana in sealed, tamper-evident shipping containers that have a label stating that a licensed testing facility has tested each batch in the shipment, and list: (1) the date of final testing; (2) the cannabinoid potency profile, expressed as a range of percentages that extends from the lowest percentage to the highest percentage of concentration for each cannabinoid listed from every test conducted on that strain of marijuana from the same marijuana cultivation facility within the last three months; (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. Any packaging done at the facility will be performed in an area specifically set aside for packaging and monitored with continuous surveillance. Packaging will be uniform with labels secured and prominently displayed. In compliance with the Alaska Weights and Measures Act, the facility will use certified scales and will maintain registration and inspection reports as a business record... (Continued on Page 7)

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

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 ten (10) pounds consisting of a single strain or a mixture of strains with all strain names identified on the label. Plastic packaging will be heat sealed without an easy-open tab, dimple, corner, or flap. Packaged marijuana will be stored in a secured area until ready for transport. All packaging will be inspected, accepted or rejected, recorded in the log, and a Licensee or a designated employee will check all final packages to ensure that they will secure marijuana from contamination and not impart toxic or deleterious substances. Dragon's Lair will also disclose in writing, with each shipment, all soil/medium amendments, fertilizers used, name of testing lab and results of test, and identify any pesticides, herbicides, and/or fungicides that were used in the cultivation of that strain of marijuana. The sealed, tamper-evident shipping container will have a label stating that a licensed testing facility has tested each batch in the shipment, and list:... (Continued on Page 7)

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

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 hereby certify that I am the person herein named and subscribing to this application and that I have read the complete application, and I know the full content thereof. I declare that all of the information contained herein, and evidence or other documents submitted are true and correct. I understand that any falsification or misrepresentation of any item or response in this application, or any attachment, or documents to support this application, is sufficient grounds for denying or revoking a license/permit. I further understand that it is a Class A misdemeanor under Alaska Statute 11.56.210 to falsify an application and commit the crime of unsworn falsification.

Jacob Robertson

Printed name of licensee

Signature of licensee

Form MJ-04: Marijuana Cultivation Facility Operating Plan Supplemental

(Additional Space as Needed):

Section 8.1 Continued: After marijuana is packaged, it will be placed in sanitized, air-tight containers, labeled with all compliant information, and be given a bar code for the inventory control system. Plastic packaging will be heat-sealed without an easy-open tab, dimple, corner, or flap. Packaged marijuana will be stored in a secured area until ready for transport. All packaging will be inspected, accepted or rejected, and recorded in the log. The Licensee or a designated employee will check all final packages to ensure that they will secure marijuana from contamination and not impart toxic or deleterious substances, and that no images that appeal to children, such as cartoons or similar images, are on the packaging. Labels will include: (1) Dragon's Lair's name and license number; (2) the date the marijuana was harvested; (3) the harvest batch number assigned to the marijuana; (4) the date the marijuana was packaged; (5) the net weight and the quantity of usable marijuana packaged in a standard of measure compatible with the inventory tracking system; (6) a complete list of all pesticides, fungicides, and herbicides used in the cultivation of the marijuana. All marijuana shipped to a retailer will not exceed one (1) ounce for resale to consumers without additional handling by the retail marijuana store. A space will be left on all packaging for the retail store to add their own name/logo and license number.

Section 8.2 Continued: (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 listed from every test conducted on that strain of marijuana from the same marijuana cultivation facility within the last three months; (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. Any packaging done at the facility will be performed in an area specifically set aside for packaging and monitored with 24-hour surveillance.

Form MJ-04: Marijuana Cultivation Facility Operating Plan Supplemental

(Additional Space as Needed):

Retailer: **License No:**
Cultivator: Dragon's Lair **License No: 41043**
Harvest Batch No: **Package No:**
Net MJ Weight: **OZ(g)** **Strain:**
Testing Facility: **License No:**
THC: **THCA:** **CBD:** **CBDA:** **CBN:**
Microbial Test: **Fungicides:** **Pesticides:** **Herbicides:**
Fertilizers: **Soil Amendment:**

Alaska Safety Warning: 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.

Front of Package

window to view product

Strain Name

Indica-Dominant

Net Weight: 3.5 g (0.124 oz.)

PLACE HOLDER FOR RETAILER TO PUT RETAILER STICKER LABEL

Back of Package

Cultivator: Dragon's Lair
License #41043
HB#: northstarvalley252018
Strain: North Star OG

METRC #: 36B875000036451115AB
Testing Lab: ABC Lab **License #:**
Testing Date: 02/05/2018
Fungicides: None **Herbicides:** None **Pesticides:** None
Cannabinoid Profile:
Total THC: XXXX% **Total CBD:** XXXX% **THC:** XXXX%
CBD: XXXX% **THC-A:** XXXX% **CBD-A:** XXXX%
CBN: XXXX%

Alaska Safety Warning: 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.

*or similar format and content

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