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

Form MJ-15: Operating Plan Change

What is this form?

This operating plan change form is required for all marijuana establishment licensees seeking to change a licensed marijuana establishment's existing operating plan, as required by 3 AAC 306.100. With this form, a licensee may request changes to as much or as little as desired of Form MJ-01 and/or the corresponding operating plan supplemental for the establishment's license type. **The required $250 change fee may be made by check, cashier's check, or money order.**

Please complete and submit with this form the pages of Form MJ-01 and/or the corresponding operating plan supplemental that contain sections that you are requesting to change. **All fields must be completed of any page for which you are requesting changes** – upon board approval, the submitted pages will replace those currently on file. If your current, approved operating plan is on the original version of the forms, you may be required to complete and submit the new operating plan forms in their entirety.

The form(s) that I am requesting board approval to change is:

- ☐ **Form MJ-01:** Marijuana Establishment Operating Plan
- ☐ **Form MJ-03:** Retail Marijuana Store Operating Plan Supplemental
- ☑ **Form MJ-04:** Marijuana Cultivation Facility Operating Plan Supplemental
- ☐ **Form MJ-05:** Marijuana Product Manufacturing Facility Operating Plan Supplemental
- ☐ **Form MJ-06:** Marijuana Testing Facility Operating Plan Supplemental

This form must be completed and submitted to AMCO's main office prior to changing existing operations. The licensed establishment's operations may not be altered unless and until the director has given temporary approval or the Marijuana Control Board (MCB) has given final approval of the changes. Please note that licensees seeking to change operating plans for multiple licenses must submit a separate completed copy of this form for each license.

Section 1 – Establishment Information

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

Licensee:	Greatland Ganja, LLC	**MJ License #:**		10015	
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Greatland Ganja, LLC				
Premises Address:	56475 Sterling Highway				
City:	Kasilof	**State:**	Alaska	**ZIP:**	99610

AMCO Received 1/17/2020

Alaska Marijuana Control Board

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Section 2 – Summary of Changes

Provide a summary of the changes for which you are requesting approval.

Greatland Ganja would also like to update their Cultivation Facility's Growing Mediums, Fertilizers, Chemicals, Gases and Delivery Systems to be used. - See attached Detailed List of all above mentioned items. Page 3 sections 1 and 2.

Section 3 – Declarations

Read each statement below, and then sign your initials in the corresponding box to the right: Initials

The proposed changes conform to all applicable public health, fire, and safety laws. [LA]

I understand that any temporary approval granted by the director is pending a final decision by the MCB; therefore, any investment I make, based upon temporary approval, is at my own risk. [LA]

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

Signature of licensee

Leif B. Abel

Printed name of licensee

Notary Public
SHAUNTEALA GRAHAM
State of Alaska
My Commission Expires April 10, 2022

Notary Public in and for the State of Alaska.

My commission expires: April 10, 2022

Subscribed and sworn to before me this 2nd day of January, 2020.

AMCO Director Review for Temporary Approval Pending Final MCB Decision: Approved [X] Disapproved [ ]

GLEN KLINKHART

Printed name of Director

1-30-2020

Date

Signature of Director

Director Comments:

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Operating Plan Supplemental

Form MJ-04: Marijuana Cultivation Facility

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

Growing Mediums: Organic Soil comprised primarily of Kasilof Peat, Sterling Sandy Loam, Composted Steer Manure from Susitna Organics, Local Farm Manure/Pasture Composting, Organic Perlite, Earthworm Castings, Gypsum, Dolomite Lime, Clam Flour, Bone Meal, Blood Meal, Shrimp Meal, Crab Meal, Fish Bone Meal, kelp, and Fish Meal. Hydroponic and Soilless Medium comprised of Clay Pellets, Rockwool, Coco Fiber, Vermiculite, Perlite, Commercial Peat.

Please see attached list for detailed introduction and detailed list of all cultivation growing mediums etc. to be used in the cultivation facility.

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

Please see attached list for detailed list of all fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management.

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

The irrigation system in the greenhouses and row covers will be efficient and will provide irrigation of the organic soil via hand watering or delivery via wands on the surface of the soil.
The irrigation system in the warehouse will be delivered primarily via vats, pumps, and plumbing, recirculating to hydroponically feed directly to the plants.
Any waste water from either the outdoor greenhouses/row covers and the warehouse will be disposed of in compliance with in compliance with all Alaska Department of Agriculture and DEC regulations pertaining to disposal or treatment of agricultural hydroponic effluent. The following methods may be used unless guidance from the local state or federal government indicates otherwise:
- Fertigation of alternate crops on premises;
- Treatment on site through a Sand based Leach field. Treatment on site through the use of Constructed Wetlands;
- Shipment offsite to approved alternate treatment facilities or for fertigation of alternate crops.

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Cultivation Facility's Growing Mediums, Fertilizers, Chemicals, Gases, and Delivery Systems To Be Used

Introduction: What follows is a comprehensive list of all substances we use at Greatland Ganja. When practical we list the most base or common chemical description of the ingredient used, rather than the brand name. This is done to protect the intellectual property of our growing style and because the chemical name, when researched, should most accurately educate a person as to the use and effect of the chemical. When a product has multiple ingredients, we list them all. We maintain SDS sheets for every chemical we use in a visible binder in the office. Employees are trained in accessing the information on the SDS sheets, proper PPE, Safety Procedures, application, disposal and storage.

Growing Mediums: Organic Soil comprised primarily of Kasilof Peat, Sterling Sandy Loam, Composted Steer Manure from Susitna Organics, Local Farm Manure/Pasture Composting, Organic Perlite, Earthworm Castings, Gypsum, Dolomite Lime, Clam Flour, Bone Meal, Blood Meal, Shrimp Meal, Crab Meal, Fish Bone Meal, kelp, and Fish Meal. Hydroponic and Soilless Medium comprised of Clay Pellets, Rockwool, Coco Fiber, Vermiculite, Perlite, Commercial Peat.

Fertilizers: Earthworm Castings, Ammonium Molybdate, Ammonium Nitrate, Calcium Carbonate, Calcium Nitrate, Calcium Chloride, Cobalt Nitrate, Copper EDTA, Iron DTPA, Iron EDDHA, Iron EDTA, Manganese EDTA, Potassium Borate, Potassium Nitrate, Zinc EDTA, Ammonium Phosphate, Magnesium Carbonate, Magnesium Nitrate, Magnesium Sulfate, Potassium Bicarbonate, Potassium Phosphate, Potassium Sulfate, Magnesium Phosphate, Phosphoric Acid, Sulfuric Acid, Hydrolyzed Soybean Protein, Monopotassium Phosphate, Boric Acid, Potassium Hydroxide

Delivery Systems: Added directly to the soil or mixed with water in tanks and pumped to the root zone.

Additives: Humeric Acid, Fulvic Acid, Natural Barley Extract, Cane Sugar, Molasses, Potassium Silicate, Ammonium Sulfate, Harpina-B Protein, Hydrogen Peroxide, Yucca, Endo/Ecto Trichoderma, Mycorrhizae Trichoderma, Endo Mycorrhizae, Triethanolamine, Citric Acid, Amino Acids, Leonardite, Ascophyllum Nodosum, Indole-3-Butyric Acid, Coriander Oil, Canola Oil, Triethanolamine, Rosemary Oil, Thyme Oil, Clove Oil, Cod Liver Oil, Cottonseed Oil, Safflower Oil, Soybean Oil, Canola Oil, Tea Tree Oil Lemon Oil, Orange Oil, Peppermint Oil, Eucalyptus Oil, Lauric Acid, Soap

Delivery Systems: Added directly to the soil or mixed with water in tanks and pumped to the root zone.

Organic Pesticides: Rosemary, Soap Bark (Quillaja Saponin), Humic Acid, Polyglycerl Oleate, Lauric Acid, Pyrethrium, Pyrethrins, Soap, Horticultural Oils (Cottonseed, Safflower, Soybean, Vegetable, Canola)

We may use anything on the Alaska DEC "Pesticides that Meet Criteria to be Used on Cannabis Crops" if the situation warrants it.

Delivery Systems: Fog onto the plants, or apply as described on the label, during vegetative phase only.

Organic Fungicides: Streptomyces, Bacillus Subtilis, Trichoderma Harzianum & Trichoderma Virens, SNS 244, Reynoutria sachalinensus

Delivery Systems: Root Zone Drench except that the Bacillus Subtilis is Fogged onto the plant or applied via Root Zone Drench.

Compressed Gases: CO_2, Food Grade Nitrogen (N_2), Propane

Delivery Systems: Compressed Tanks with valves and tubing or Gas Burner, Fire Marshall & OSHA Approved Life Safety Systems in Place.

Cleaning Products: Hydrogen Peroxide, Vinegar, Bleach, Simple Green, Isopropyl Alcohol, Hemp Oil, Dish Soap

Liquid Fuel: Gasoline, Diesel

Delivery Systems: Tanks and Fuel Lines Installed as per building/fire and life safety code.

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Operating Plan Supplemental

Form MJ-04: Marijuana Cultivation Facility

(Additional Space as Needed):

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

CO2. We have applied for and received a State of Alaska Fire Marshal Building Permit to run CO2 injection and burners in every plant area of our facility. This is a regulator and emitter system you would hook to bottled CO2. Active Air CO2 System with Timer, 1-20 cubic ft per hour or equivalent. This is a CO2 Burner for the warehouse rooms and gnome domes. IR-42-MF MULTI-FUEL INFRARED CO2 GENERATOR or equivalent. Equipment (meters or gauges or sensors) shall be provided to indicate CO2 levels in each grow cultivation area/room (Autopilot). Grow cultivation area/room meters shall be calibrated and inter-connected to each natural gas burner stopping the generation of CO2 in each grow room to limit CO2 levels to a maximum of 5,000 ppm (Autopilot). Grow cultivation area/rooms will require an amber strobe and audible horn inside and outside the room at each entrance when the sensor exceeds 5,000 ppm in that room.

Describe the cultivation facility's waste disposal plan:CONTINUED
The Company will implement the same disposal methods that other marijuana cultivation facilities have successfully employed in Colorado and Washington. These methods render all marijuana unusable and safe for disposal. To render marijuana unusable, the Company will grind and incorporate the marijuana waste with either non-compostable solid wastes, or with compostable solid wastes so that the resulting mixture is at least fifty percent non-marijuana waste. The following is a list of the non-compostable solid wastes that the Company will use:

- Paper waste
- Plastic waste
- Cardboard waste
- Soil

The following is a list of the compostable solid wastes that the Company will use:

-Food waste
-Yard waste

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