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-05: Marijuana Product Manufacturing Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana product manufacturing 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 5** 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 306.520(3).

What additional information is required for cultivation facilities?

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

- Equipment, compounds, and processes to be used
- Waste disposal
- Testing procedure and protocols
- Proposed marijuana concentrates and marijuana products
- Proposed product packaging and sample labels
- Prohibitions

This form must be completed and submitted to AMCO's main office before any new or transfer application for a marijuana product manufacturing facility or marijuana concentrate manufacturing 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:	Cosmic SeaWeed, LLC	**MJ License #:**	19728		
License Type:	Marijuana Product Manufacturing Facility				
Doing Business As:	COSMIC SEAWEED, LLC				
Premises Address:	262 Charles Way				
City:	Homer	**State:**	Alaska	**ZIP:**	99603

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Section 2 – Overview of Operations

2.1. Provide an overview of your proposed facility's operations. Include information regarding the intake, flow, and transfer of marijuana, marijuana concentrate, and marijuana product at and from your premises:

We will be purchasing varying grades of marijuana bud, trim, leaf and plant material from growers throughout Alaska. The product will be transported to our facility either by our driver or a delivery arrangement with the supplier. Once the locked transport boxes arrive into our office area, the shipment will be examined to verify that all security and regulatory protocols have been met before accepting the shipment. Transport manifests and METRC tags will then be reconciled and logged into our system. Product will be sorted, weighed, and stored in batches in metal locked storage cabinets prior to production.

During processing, protocols will be followed to ensure high standards of safety, quality and efficiency to produce a high quality consumable product that meets all standards of food safety and requirements found in regulation 3 AAC 306.735. Protocols will be followed to maintain the highest degree of workplace safety with regard to flammable chemicals and indoor air quality, and every safety measure possible will be provided in our facility.

Post production products will be measured for weight and volume, and correlated with METRC inventory tags. A random sample of each lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550. Post-production lots will be stored in locking freezers or locking metal cabinets, depending on the shelf stability of the particular product requirements. Once testing results have been received, the product will be dispensed into its final retail packaging and labeled in accordance with 3AAC 306.560, 565, and 570.

Cannabis oil that will be sold to edible manufacturers will be packaged in airtight jars not exceeding 1000ml, properly labeled and reconciled with METRC tags. Retail products will be delivered to retail shops, transported in accordance with 3AAC 306.750. Product awaiting transport will be stored in locked metal cabinets or freezers.

Section 3 – Equipment and Compounds to be Used

Review the requirements under 3 AAC 306.555.

3.1. Describe the equipment and solvents, gases, chemicals, and other compounds the marijuana product manufacturing facility will use to create marijuana concentrates:

We will use an engineer approved, professional grade, commercially manufactured closed loop hydrocarbon extraction machine to process marijuana concentrates. The extraction equipment manufacturer's procedures and recommendations will be followed in order to safely comply with pressure specifications and recovery of solvent. Hydrocarbon solvents we may use for extraction will include Butane, N-butane, Iso-butane, propane. During the process known as BHO (butane hash oil) production, inside the Class 1 Division 1 containment area of our workspace, finely ground cannabis plant parts will be saturated with hydrocarbon solvents. Approximately 96% of the solvent will be recaptured per cycle. The resulting cannabis oil will then be processed using ethanol and winterization to remove fats and waxes. The resulting fluid will be specially vacuum filtered. The fluid is then processed in a rotary evaporator to remove and recapture the ethanol. The remaining solvent is purged in a special vacuum oven below the parts-per-million levels required by 3 AAC 306.645 (a)(3). Post extraction processing may include thinning with polyethylene glycol, glycerin, MCT oil and ethanol. The facility will have proper ventilation and control of any possible ignition sources. Equipment used for refinement and processing include rotary evaporators, vacuum ovens, winterizing freezers, drying and decarboxylating oven, wiped film molecular still, as well as various laboratory grade glassware, filters, vacuum pumps and other laboratory equipment including magnetic stirrers. All of this equipment will be sourced from a commercial manufacturer, will be used for it's intended purpose, and will be in compliance with local fire, safety, food safety and building code requirements. Pharmaceutical grade or food grade equipment will be used for post processing and packaging when available.

We will also utilize the Rosin press method, using a specialized machine specifically for this purpose, applying heat and pressure to extract marijuana concentrates without using solvents.

All employees and managers will be have a valid marijuana handlers card and food safety worker card on file at the facility. Employees and managers will be fully trained on proper system use, storage and handling of solvents, and will have direct access to MSDS and company policies and procedures.

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Section 4 – 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

4.1. The marijuana product manufacturing 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.

4.2. Describe how you will store, manage, and dispose of any solid or liquid marijuana waste, including expired or outdated marijuana or marijuana product, 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 or produced:

Our facility has a waste disposal plan for marijuana product waste and all concentrate that does not meet state testing requirements or our facility's high quality standards. In accordance with 3 AAC 306.740, all marijuana by-product marked for disposal will be stored in a secure container separate from all other products until it can be disposed of. Marijuana waste will be rendered unusable before departing the facility for disposal. Employees will grind any solid marijuana waste and incorporate it with non-compostable solid wastes to a resulting mixture of 50% non-marijuana waste by solid and/or liquid volume. Non-compostable wastes will include paper, plastic, used cooking oil gathered from local restaurants, and coffee grounds gathered from local coffee shops. The resulting mixture will be unusable and unpalatable to anyone. The manager on duty will inspect the resulting mixture to ensure it is compose of no more than 50% marijuana by solid and liquid volume. The manager will log the composition into a disposal log listing the status of all marijuana products marked as waste, including the type, date of disposal, time and date it was rendered unusable, and date it was transported to the landfill. This waste mixture will be loaded into large trash bags and transported to by an employee to the local landfill. This process will be done in view of surveillance cameras and the log will note the time and date. These records will be available upon request to AMCB inspectors. There is no curbside refuse pick-up in Homer and the local landfill is a few minutes away and open 7 days a week.

Our facility will dispose of waste from water, food, and solvent based extraction mediums; marijuana concentrate and product that are contaminated, infected, or fail to meet quality or purity standards or testing; and run-off water from the the manufacturing process. Marijuana waste will be stored in a secured locked waste bin prior to rendering. The rendering and incorporating of waste will be done as needed, and the schedule will be determined by production volume which is currently not predictable, but AMCB will be notified in writing three days prior in writing. Once the waste is rendered it will be transported immediately to the landfill, so hours of operation of the Homer landfill will be noted as part of the policy and procedure. Diversion should not be an issue. Garbage bags will not be obviously coming from our facility and will have no markings to indicate their possible contents.

All record and logs of facility waste will be maintained as business records.

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Section 5 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.520 and 3 AAC 306.550.

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. I will ensure that any individual responsible for collecting random samples for required laboratory testing under 3 AAC 306.550 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.	☑

Answer "Yes" or "No" to the following question:	Yes	No
5.2. Will the marijuana product manufacturing facility be performing in-house testing (as defined under 3 AAC 306.990(b)(20)?	☑	☐

If "Yes" to 5.2, you must be able to certify the statement below. Read the following and then sign your initials in the box:	Initials
5.3. The area where in-house testing will occur is clearly identified on the Form MJ-02: Premises Diagram that is submitted with this application.	☑

5.4. Describe the testing procedures and protocols the marijuana product manufacturing facility will follow:

Cosmic Seaweed will provide a sample of each marijuana product manufactured at our facility to a licensed marijuana testing facility and will not sell or transport any products until all testing required under 3 AAC 306.550 has been completed. A random sample for testing will be collected from each production lot in the amount required by the testing facility. The manager on duty will be responsible for following our facility's policy and procedure and will be responsible for collecting each sample; prepare a signed statement showing that the sample has been randomly selected for testing; will provide the signed statement to the marijuana testing facility; will maintain a copy as a business record in accordance with 3 AAC 306.755; and will transport of the sample to the marijuana testing facility in compliance with 3 AAC 306.750.

After collecting and transporting a sample for testing, the production lot will be segregated until the testing facility reports the testing results. During this segregation period, we will maintain the entire production lot in a secure, cool and dry location to prevent the product from becoming contaminated or loosing it's efficacy. We will not sell or transport any marijuana product from the segregated lot until the testing facility has completed it's testing and analysis and provided those results, in writing, to our facility. We will maintain the test results as part of our business records.

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Section 8 – Prohibitions

Review the requirements under 3 AAC 306.510.

8.1. I certify that the marijuana product manufacturing facility will not: Initials

a. **sell, deliver, distribute, or transfer any marijuana, marijuana concentrate, or marijuana product directly to a consumer, with or without compensation;** [CL]

b. **allow any person, including a licensee, employee, or agent, to consume marijuana, marijuana concentrate, or marijuana product on the licensed premises; or** [CL]

c. **manufacture or sell any product that is an adulterated food or drink, closely resembles a familiar food or drink item including candy, or is packaged to look like candy, or in bright colors or with cartoon characters or other pictures or images that would appeal to children.** [CL]

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

Signature of licensee

CHRISTINA A. LOGAN

Printed name of licensee

Notary Public
ONASSIS G. CARTAGENA
State of Alaska
My Commission Expires June 9, 2019

Onassis G. Cartagena

Notary Public in and for the State of Alaska

My commission expires: June 9, 2019

Subscribed and sworn to before me this 15TH day of February, 2019.

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(Additional Space as Needed):

Standard Production Procedure and Detailed Manufacturing Process

Cannabis Oil (CO) produced in our facility will be similar to what is known as Butane Hash Oil (BHO) and will be extracted using a professional grade closed loop hydrocarbon machine. Using a proprietary process, marijuana flower, leaf, stem and other plant parts are finely ground and then saturated in a closed system with hydrocarbon solvents which may include N-butane, butane, iso-butane, and propane. Approximately 96% of solvent will be recaptured per cycle. The Cannabis Oil will then be processed using the winterization technique, which removes plant waxes and fats by dissolving the CO in food grade ethanol. A mechanized stirring apparatus homogenizes the solution, which is then set into a -20F specialized freezer for 24-48 hours. The solution is then processed through a specialized vacuum filter with a specific paper membrane which separates the fats and plant waxes from the cannabis oil. Most of the remaining solvents are then purged using a close vented rotary evaporator. Product is then heated on parchment paper lined trays in a vacuum oven which purges the remaining solvents to below the residual solvent as required by PPM 3AAC 306.645 (a)(3).

For Budder, Crumble, Shatter, and Wax the Cannabis Oil product is processed in the vacuum oven at various temperatures, pressures and humidity, and differing length of time, depending on the desired consistency of the end product. Each individual strain and batch of cannabis may process to a different consistency regardless of uniform processing technique. The way the cannabis is trimmed, handled, and stored pre-extraction, will affect the batch to batch outcome. Sometimes the consistency will be unknown until the end of the production cycle. The production specialist uses his best judgment at the time of processing to decide how a specific batch/strain will render to the highest quality and consistency. Art and science are both required in this process.

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Crumble		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	An extract identified by its malleable texture that falls apart, or crumbles, when handled. Crumble, sometimes called honeycomb wax, is usually used for dabbing. It is usually golden in color, but has strain to strain variation in color.
Ingredients:	N/A
Standard Production Procedure and Detailed Manufacturing Process:	Crumble is produced by the classic butane hash oil extraction procedure previously described in Section 3, using a closed loop hydrocarbon extraction machine. Ethanol and winterization will remove fats and waxes. Rotary evaporation will recapture the ethanol. Remaining solvents will be purged inside a special vacuum oven. Higher temperatures during the final vacuum oven purging process will result in a crumble texture. Consistency will vary somewhat based on THC levels and the quality of the starting cannabis product.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Crumble
Product Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Crumble will be packaged in 5ml circular plastic screw top containers. Each portion will be no more than 1 gram of product. The container will be sealed in a clear mylar bag with the label card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into clear mylar envelope and sealed with product visible inside. Cosmic SeaWeed License 19728 Strain: Good Stuff Total Cannaboids68% (342 mg) THC 55% CBD 12% Net weight 500mg Microbial contaminants: none Residual solvents: 66PPM (800PPM/G allowable) Production Lot #12345 Packaging date: 1/1/18 Expiration date: 1/1/19 Tested by CannTest Alaska METRC ID 12345678 Keep product refrigerated for best quality. 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 21 and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breastfeeding. Craft Cannabis Concentrates Homer, Alaska

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Wax		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	"Wax" has a waxy appearance and texture. It has the consistency of sticky butter at room temperature. It is yellow to golden brown in color.
Ingredients:	N/A
Standard Production Procedure and Detailed Manufacturing Process:	Wax will be produced by the butane hash oil procedure described in Section 3, using a closed loop hydrocarbon extraction machine. Ethanol and winterization will remove most fats and waxes but this step is done less aggressively for a wax product. Rotary evaporation will recapture the ethanol. Remaining solvents will be purged inside a special vacuum oven. Wax tends to be produced when the lipid and wax profile of the starting product is higher.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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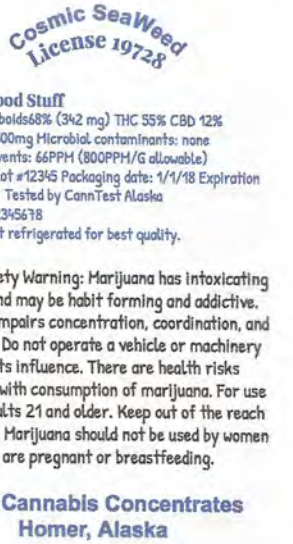
Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Wax
Product Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Wax will be packaged in 5ml circular plastic screw top containers. Each portion will be no more than 1 gram of product. The container will be sealed in a clear mylar bag with the label card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into mylar bag and sealed with product visible inside.  Cosmic SeaWeed License 19728 Strain: Good Stuff Total Cannaboids68% (342 mg) THC 55% CBD 12% Net weight 500mg Microbial contaminants: none Residual solvents: 66PPM (800PPM/G allowable) Production Lot #12345 Packaging date: 1/1/18 Expiration date: 1/1/19 Tested by CannTest Alaska METRC ID 12345678 Keep product refrigerated for best quality. 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 21 and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breastfeeding. Craft Cannabis Concentrates Homer, Alaska

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Budder		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	Budder is one of the many consistencies for cannabis concentrates, identified by the malleable texture that looks and feels like cake frosting. Not all budder looks the same, and the appearance depends on the starting material and extraction process. Extracts that have not had their fats and waxes filtered can "auto-budder" if exposed to fluctuating temperatures and humidities.
Ingredients:	N/A
Standard Production Procedure and Detailed Manufacturing Process:	Budder will be produced by the butane hash oil procedure described in Section 3, using a closed loop hydrocarbon extraction machine. Ethanol and winterization will remove fats and waxes. Rotary evaporation will recapture the ethanol. Remaining solvents will be purged inside a special vacuum oven. During the vacuum purge process, the product will be whipped by hand several times to yield the desired consistency.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Budder
Product Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Budder will be packaged in 5ml circular plastic screw top containers. Each portion will be no more than 1 gram of product. The container will be sealed in a clear mylar bag with the label card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into the mylar bag and sealed with product visible inside.

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Shatter		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	A brittle, glass like cannabis extract with a tendency to snap when handled. Shatter is named for its break-ability, like shattered glass. Shatter is favored for its ease in handling while dabbing. It can have a taffy like quality at room temperatures with higher levels of THC. Shatter requires a long and delicate purging cycle to properly remove all solvents used in the manufacturing process. Shatters appearance is typically translucent, though its coloring can range from a bright honey like amber to a darker yellow shade similar to olive oil.
Ingredients:	N/A
Standard Production Procedure and Detailed Manufacturing Process:	Shatter is produced by the classic butane hash oil extraction procedure previously described in Section 3, using a closed loop hydrocarbon extraction machine. Ethanol and winterization will remove fats and waxes. Rotary evaporation will recapture the ethanol. Remaining solvents will be purged inside a special vacuum oven. Temperature, humidity and pressure are held in tight tolerance during the vacuum purging process to give the highest quality shatter. Consistency will vary somewhat based on THC levels and the quality of the starting cannabis product.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Shatter
Product Type:	Marijuana Concentrate
Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Shatter will be packaged in 5ml circular plastic screw top containers. Each portion will be no more than 1 gram of product. The container will be sealed in a clear mylar bag with the label card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into mylar bag and sealed with product visible inside. Cosmic SeaWeed License 19728 Strain: Good Stuff Total Cannaboids68% (342 mg) THC 55% CBD 12% Net weight 500mg Microbial contaminants: none Residual solvents: 66PPM (800PPM/G allowable) Production Lot #12345 Packaging date: 1/1/18 Expiration date: 1/1/19 Tested by CannTest Alaska METRC ID 12345678 Keep product refrigerated for best quality. 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 21 and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breastfeeding. Craft Cannabis Concentrates Homer, Alaska

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Cannabis Oil for Vaporization Cartridges		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	Cannabis oil for filling vape pen cartridges. Each cartridge will hold between 300 mg to 1.5 grams. The oil will be clear with a yellow, amber, or green tint depending on the original strain used for concentration.
Ingredients:	PEG (polyethylene glycol), vegetable glycerine, MCT-medium chain triglycerides, or other inert, biologically harmless thinning agent that may be soon found to be better for vape cartridge manufacture.
Standard Production Procedure and Detailed Manufacturing Process:	Cannabis oil will be produced by the butane hash oil procedure described in Section 3, using a closed loop hydrocarbon extraction machine. Ethanol and winterization will remove fats and waxes. Rotary evaporation will recapture the ethanol. Remaining solvents will be purged inside a special vacuum oven. Once this process is complete the resulting product will be dissolved and homogenized in polyethylene glycol to the proper viscosity for vape cartridge. This liquid will be sampled and sent for required potency and residual butane testing. The liquid will be loaded by hand or by automatic filler machine into glass cartridges from 300mg to 1.5 grams.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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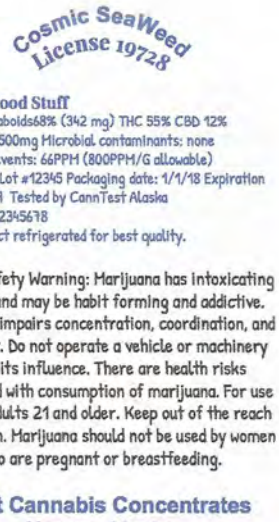
Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Cannabis Oil for Vaporization Cartridges
Product Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Cartridges will be filled manually or by automatic filler machine. Sizes from 300 mg to 1.5g will be produced. Cartridges will be sealed inside childproof clamshell blister packages with the product card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into clamshell and sealed with product visible inside. 

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Cannabis Oil		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Wholesale to licensed marijuana product manufacturing facilities for edible and topical use		

Product Description: Details must include the color, shape, and texture.	Cannabis oil has the viscosity of olive oil. Depending on the strain, THC and CBD levels, the color ranges from light honey colored to dark green.
Ingredients:	Cannabis oil and a thinning agent: polyethylene glycol, MCT oil, coconut oil, butter, or other food grade or non-toxic topical medium that may be requested by the licensed wholesale buyer depending on their end product.
Standard Production Procedure and Detailed Manufacturing Process:	Cannabis oil will be produced by the BHO production procedure as described in section 3. Once the product is finished purging any retained hydrocarbon solvents in the vacuum oven, this product will be dissolved and homogenized in a thinning agent such as, but not limited to, polyethylene glycol, MCT oil, coconut oil as requested by the licensed wholesale buyer depending on their end product. Prior to thinning, the oil may also be decarboxylated for a few hours at moderate oven temperatures depending on the wholesale buyer's needs.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Cannabis Oil
Product Type:	Marijuana Concentrate
Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Cannabis oil will wholesaled to licensed marijuana product manufacturing facilities. It will be packaged in glass mason jars with an airtight lid. Portions will not exceed one liter. Total package will not exceed 5 pounds.The jars will be sealed with a tamper proof label, labeled and transferred to another marijuana product manufacturing facility in accordance with 3 AAC 306.565 (c) (d) and (e).
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed on sticker labels, product specific label will be placed on mason jar, as required lab testing batch sticker will be placed on the jar with specifications of potency. Cosmic SeaWeed License 19728 Strain: Good Stuff Total Cannaboids68% (342 mg) THC 55% CBD 12% Net weight 500mg Microbial contaminants: none Residual solvents: 66PPM (800PPM/G allowable) Production Lot #12345 Packaging date: 1/1/18 Expiration date: 1/1/19 Tested by CannTest Alaska METRC ID 12345678 Keep product refrigerated for best quality. 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 21 and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breastfeeding. Craft Cannabis Concentrates Homer, Alaska

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Rosin		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	Rosin is the sticky oil that comes from using heat and pressure to force the compounds out of the tricome gland. It has a similar color and consistency to butane hash oil without the hydrocarbon solvents. It is generally green in color, the consistency of warm peanut butter, and oily.
Ingredients:	N/A
Standard Production Procedure and Detailed Manufacturing Process:	Rosin is the resulting concentrate when heat and pressure are applied to the cannabis plant. Rosin is a desirable technique because its concentration doesn't require the use of external solvents. It can also be used to turn lower grade marijuana product into a concentrate that can be dabbed. Cannabis can be pressed into rosin with an industrial press applied to heat plates at a specific temperature and pressure. A professional industrial machine will be used for Rosin production.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Rosin
Product Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Rosin will be packaged in 5ml circular plastic screw top containers. Each portion will be no more than 1 gram of product. The container will be sealed in a clear mylar bag with the label card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into the mylar bag and sealed with product visible inside.

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Section 6 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520, 3 AAC 306.525, and 3 AAC 306.560.

Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Live Resin		
Product Type: Choose one.	Marijuana Concentrate		
Perishable: Yes/No	No	**Shelf Life:** If perishable.	
Intended Use: Smokable/ edible/topical/wholesale/etc.	Smokable		

Product Description: Details must include the color, shape, and texture.	The Live Resin process—freezing the cannabis plant material and extracting it—is associated with high-quality and flavorful concentrates due to the high amounts of terpenes. The live resin has more of a crystallized consistency, and has a golden color and sticky jelly texture at room temperature.
Ingredients:	N/A
Standard Production Procedure and Detailed Manufacturing Process:	Cannabis plant material is harvested and immediately flash frozen in a specialized freezer at -40F. Our standard butane extraction is carried out (see Section 3), however the solvent is chilled and the canister is packed with frozen plant material. The solvent tank is also chilled and the solvent is recaptured with a much lower heat differential. The vacuum purge process to remove all of the solvent is carried out at a much lower temperature in order to preserve all of the terpenes. It is technically more difficult, but results in a very aromatic and enjoyable product.
Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

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Section 7 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520, 3 AAC 306.565, and 3 AAC 306.570.
Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.

Product Name:	Live Resin
Product Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Please include photos, drawings, or graphic representations.	Live Resin will be packaged in 5ml circular plastic screw top containers. Each portion will be no more than 1 gram of product. The container will be sealed in a clear mylar bag with the label card shown below.
Sample Labels: Provide sample labels showing how the labeling requirements set forth in 3 AAC 306.570 will be met.	Product card will be printed front and back, product specific label will be placed on front, lab testing batch sticker with specifications on back, inserted into the mylar bag and sealed with product visible inside. Cosmic SeaWeed License 19728 Strain: Good Stuff Total Cannaboids68% (342 mg) THC 55% CBD 12% Net weight 500mg Microbial contaminants: none Residual solvents: 66PPM (800PPM/G allowable) Production Lot #12345 Packaging date: 1/1/18 Expiration date: 1/1/19 Tested by CannTest Alaska METRC ID 12345678 Keep product refrigerated for best quality. 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 21 and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breastfeeding. Craft Cannabis Concentrates Homer, Alaska

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