



State of New Jersey

PHILIP D. MURPHY
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

SHAWN M. LATOURETTE
Commissioner

SHEILA Y. OLIVER
Lt. Governor

AIR, ENERGY AND MATERIALS SUSTAINABILITY
Division of Air Quality
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

Air Pollution Control Preconstruction Permit and Certificate to Operate Revision

Permit Activity Number: PCP230003

Program Interest No: 36448

Mailing Address	Plant Location
THOMAS O'FARRELL FACILITY MANAGER VERANO NJ 3576 RT 22 Readington Twp, NJ 08889	VERANO NEW JERSEY 3576 Rt 22 Readington Twp, Hunterdon County, New Jersey

Approval Date: <NO DATA FOUND>

Expiration Date: <NO DATA FOUND>

The New Jersey Department of Environmental Protection (Department) has reviewed the above referenced air pollution control permit application. On the basis of the information provided, the Department concludes that the application satisfies all applicable requirements of the New Jersey Air Pollution Control regulations codified at N.J.A.C. 7:27 et seq. This Air Pollution Control Permit modification shall supersede any existing Air Pollution Control Permits issued for the specified source. This permit allows for inspection and evaluation of the equipment by the Department to assure conformance with all provisions of N.J.A.C. 7:27 et seq. and any other applicable federal requirements codified at 40 CFR 52, 60, 61 and 63.

This approval changes certain portions of the previously approved preconstruction permit, and this action does not change the current expiration date of the permit. This approval results in a permit that has replaced the one previously issued, Activity Number PCP <<xxxxxxx>>.

The equipment, that is authorized to be installed and operated under this approval, is described in Section A, Source Operations and Section D, Equipment Inventory. Equipment at the facility referenced by this Permit shall be operated in accordance with the Conditions of Approval set forth in Section D, Facility Specific Requirements.

The Department hereby issues this permit and certificate under the authority of chapter 106, P.L. 1967(N.J.S.A 26:2C-9.2). You may construct, reconstruct, install, or modify the above referenced equipment and/or control apparatus consistent with the approval.

The approved Permit is available for download in PDF format which contains the facility's specific requirements (compliance plan) at: <http://www.nj.gov/dep/aqpp>. After accessing the web site, click on "Approved PCP Permits" listed under "Reports" and then type in your Program Interest (PI) Number, 36448, as instructed on the screen. You will be able to view, print or electronically store your permit. If you have any questions regarding this permit approval, please contact the Department at the Preconstruction Permit Help Line available from 9:00 AM to 4:00 PM daily, where you may speak to someone about any technical questions you may have. The Preconstruction Permit Technical Help Line number is 609-292-6716.

If, in your judgment as an applicant for an air pollution control permit, the Department is imposing any unreasonable Condition of Approval, you may contest the Department's decision and request a contested case hearing pursuant to the Administrative Code at N.J.A.C. 7:27-1.32(a). All requests for contested case hearings must be received in writing by the Department within twenty (20) calendar days of the date you receive this permit approval and must contain the information specified in the Administrative Hearing Request Checklist and Tracking Form.

If you have any non technical questions please use the Bureau's number 609- 292-0834. If you have any questions when filing a General Permit please use the General Permit Help number 609-633-2829.

Approved by:

(Supervisor's name)
Preconstruction Permits

Administrative Hearing Request Checklist and Tracking Form

I. Document Being Appealed

Name of the Facility	Facility ID Number	Permit Activity Number	Issuance Date
VERANO NEW JERSEY	36448	PCP230003	

II. Contact Information

Name of Person Requesting Hearing	Name of Attorney (if applicable)
Address:	Address:
Telephone:	Telephone:

III. Please include the following information as part of your request:

- A. The date the permittee received the permit decision;
- B. Two printed copies of the document being appealed – for submitting to address 1 below;
A PDF copy of the document being appealed on a CD – for submitting to address 2 below
- C. The legal and factual questions you are appealing;
- D. A statement as to whether or not you raised each legal and factual issues during the permit application process;
- E. Suggested revised or alternative permit conditions;
- F. An estimate of the time required for the hearing;
- G. A request, if necessary, for a barrier-free hearing location for physically disabled persons;
- H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Departments processing of your hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection
Office of Administrative Hearings and Dispute Resolution
ATTENTION: Adjudicatory Hearing Requests
401 E. State Street
Mail Code 401-07A
P.O. Box 420
Trenton, New Jersey 08625-0420
2. New Jersey Department of Environmental Protection
Air Quality Program
Mail Code: 401-02
P.O. Box 420
Trenton, New Jersey 08625-0420
Phone: (609) 633-2829

Signature

Date

Administrative Hearing Request Checklist and Tracking Form

IV. If you are not the applicant but rather an interested person claiming to be aggrieved by the permit decision, please include the following information:

1. The date you or your agent received notice of the permit decision (include a copy of that permit decision with your hearing request);
2. Evidence that a copy of the request has been delivered to the applicant for the permit which is the subject of the permit decision;
3. A detailed statement of which findings of fact and/or conclusion of law you are challenging;
4. A description of your participation in any public hearings held in connection with the permit application and copies of any written comments you submitted;
5. Whether you claim a statutory or constitutional right to a hearing, and, if you claim such a right, a reference to the applicable statute or explanation of how your property interests are affected by the permit decision;
6. If the appeal request concerns a CAFRA permit decision, evidence that a copy of the request has been delivered to the clerks of the county and the municipality in which the project which is the subject of the permit decision is located;
7. Suggested revised or alternative permit conditions;
8. An estimate of the time required for the hearing;
9. A request, if necessary, for a barrier-free hearing location for physically disable persons;

A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's transmittal of the hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection
Office of Administrative Hearings and Dispute Resolution
ATTENTION: Adjudicatory Hearing Requests
401 E. State Street
Mail Code 401-07A
P.O. Box 420
Trenton, New Jersey 08625-0420
2. New Jersey Department of Environmental Protection
Air Quality Program
Mail Code: 401-02
P.O. Box 420
Trenton, New Jersey 08625-0420
Phone: (609) 633-2829

Signature

Date

AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

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Facility ID No.: 36448

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DRAFT

AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

Section A

Facility Name: VERANO NEW JERSEY

Facility ID No.: 36448

Permit Activity No.: PCP230003

AUTHORIZED SOURCE OPERATIONS

This Preconstruction Permit and the Certificate to Operate for the following equipment is issued pursuant to N.J.A.C. 7:27-8.

Description of Source Activity

Source Operation Type: Cannabis processing operations

Source Operation Description: Process includes ethanol extraction system (extractor, oil separator, spent cannabis storage), butane extraction system (primary storage vessel, extraction columns, dewaxing/filtration vessel, collection/expansion vessel) and shredder.

Source Operation Details: The sources authorized by this permit shall be operated within the parameters specified in the Equipment, Control Device, and/or Emission Unit/Batch Process Operating Scenario Details of this permit. Operation of the authorized sources within these parameters is required in addition to compliance with the conditions specified in Section D– Facility Specific Requirements.

AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

Section B

Facility Name: VERANO NEW JERSEY

Facility ID No.: 36448

Permit Activity No.: PCP230003

ACRONYMS

CEMS	Continuous Emissions Monitor System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitor System
EPA	United States Environmental Protection Agency
EMS	Emission Measurement Section - NJDEP
HAP	Hazardous Air Pollutant
N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
NOx	Oxides of Nitrogen
PM-2.5	All particulate matter having an aerodynamic diameter less than or equal to a nominal 2.5 microns
PM-10	All particulate matter having an aerodynamic diameter less than or equal to a nominal 10 microns
PST	Performance Specification Test
REO	Regional Enforcement Office - NJDEP
SO ₂	Sulfur Dioxide
TSP	Total Suspended Particulate Matter
VOC	Volatile Organic Compounds

AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

Section C

Facility Name: VERANO NEW JERSEY

Facility ID No.: 36448

Permit Activity No.: PCP230003

GENERAL PROVISIONS AND AUTHORITIES Preconstruction Permits

1. The permittee shall not construct, reconstruct, install, or modify a significant source or control apparatus serving the significant source without first obtaining a preconstruction permit under N.J.A.C. 7:27-8. [N.J.A.C. 7:27-8.3(a)]
2. The permittee shall not operate (nor cause to be operated) a significant source or control apparatus serving the significant source without a valid operating certificate. [N.J.A.C. 7:27-8.3(b)]

3. Permit Revisions:

The permittee shall not take any action which requires a permit revision, compliance plan change, seven-day-notice change, amendment, or change to a batch plant permit, under any applicable provision at N.J.A.C. 7:27-8.17 through 8.23, without complying with that applicable provision.

The following summarize N.J.A.C. 7:27-8.18 through 8.21:

- a. The permittee shall file a permit revision request and receive approval from the Department prior to increasing any maximum allowable emission limit, increasing actual emissions, to a rate or concentration greater than a maximum allowable emission, causing the emissions of a new air contaminant, use a new raw material, reconstructing equipment, change the ground level concentration of an air contaminant in an area where the public has access, replace the permitted source, or constructing or installing a new significant source. [N.J.A.C. 7:27-8.18]
- b. The permittee shall file a compliance plan change request and receive approval from the Department prior to decreasing the frequency of testing, monitoring, recordkeeping, or reporting, changing the monitoring method, changing a level, rate, or limit of an operational parameter included in the conditions, or reducing a source's potential to emit. [N.J.A.C. 7:27-8.19]
- c. At least seven days prior to proceeding with a physical or operational change that is outside the scope of activities allowed by this permit, but will not increase emissions over the allowable emissions and will not alter the stack characteristics, the permittee shall file a seven-day-notice

change. The permittee may proceed with the proposed changes seven days after such notice is filed with the Department. [N.J.A.C. 7:27-8.20].

- d. The permittee shall file an amendment within 120 days of making any change of the information which allows the Department to identify and contact the permittee, changing the name, number or designation of any equipment or stack covered by this permit, changing the parameters of a stack in such a way to reduce the ground level concentration of an air contaminant, or correction of a typographical error that will not result in an increase of actual or allowable emissions. [N.J.A.C. 7:27-8.21]
The permittee shall review the provisions of N.J.A.C. 7:27-8.18 through 7:27-8.21 to determine the appropriate type of request to file.
4. The permittee shall make the preconstruction permit or certificate, together with any amendments, seven-day-notices, or other documents related to the permit and certificate, readily available for Department inspection on the operating premises. [N.J.A.C. 7:27-8.3(d)]
5. The permittee shall not use or cause to be used the equipment or control apparatus unless all components connected or attached to, or serving, the equipment or control apparatus, are functioning properly and are in compliance with the preconstruction permit and certificate and all conditions and provisions thereto. [N.J.A.C. 7:27-8.3(e)]
6. A preconstruction permit is not transferable either from the location authorized in the preconstruction permit to another location, or from any one piece of control apparatus or equipment to another piece of control apparatus or equipment. [N.J.A.C. 7:27-8.3(f)]
7. Once a permit or certificate is issued, the permittee is fully responsible for compliance with N.J.A.C. 7:27-8 and with the permit and certificate, including adequate design, construction, and operation of the source, even if employees, contractors, or others work on or operate the permitted source. If the Department issues any other requirement with the force of law, such as an order, which applies to the source, the permittee is also responsible for compliance with that requirement. [N.J.A.C. 7:27-8.3(g)]
8. Preconstruction permits and certificates do not any way relieve the permittee from the obligation to obtain necessary permits from other government agencies and to comply with all other applicable Federal, State, and local rules and regulations. [N.J.A.C. 7:27-8.3(h)]
9. The Department and its representatives have the right to enter and inspect any facility or property in accordance with N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-8.3(m)]
10. There shall be an affirmative defense to liability for penalties for a violation of a preconstruction permit or certificate occurring as a result of an equipment malfunction, an equipment start-up, an equipment shutdown, or during the performance of necessary maintenance. The affirmative defense shall be asserted

- and established as required pursuant to P.L. 1993. c.89 (adding N.J.S.A. 26:2C-19.1 through 2C-19.5) and any rules the Department promulgates thereunder, and shall meet all of the requirements thereof. There shall also be an affirmative defense to liabilities for penalties or other sanctions for noncompliance with any technology based emission limitation in this permit or certificate, if the noncompliance was due to an emergency as defined at N.J.A.C. 7:27-22.1, provided that the affirmative defense is asserted and established in compliance with 40 CFR 70.6(g) and meets all requirements thereof. [N.J.A.C. 7:27-8.3(n)]
11. Any person to whom the Department has issued a preconstruction permit or certificate shall comply with all terms and conditions of any order related to the preconstruction permit or certificate. [N.J.A.C. 7:27-8.13(a)]
 12. The permittee shall maintain all records required in the permit for a period of five (5) calendar years. [N.J.A.C. 7:27-8.13(a)]
 13. The Department may change the conditions of approval of any approved certificate to operate at the time of renewal of a temporary operating certificate; at the time of approval or renewal of a five-year operating certificate; or at any time during the period a certificate is in effect, if the Department determines that such change is necessary to protect human health or welfare or the environment. [N.J.A.C. 7:27-8.13(b)]
 14. Upon request of the Department, the permittee shall submit to the Department information relevant to the operation of equipment and control apparatus including all information specified at N.J.A.C. 7:27-8.13(c). [N.J.A.C. 7:27-8.13(c)]
 15. If the conditions of a preconstruction permit or certificate to operate require the Department to incur any of the following charges, the permittee shall reimburse the Department for the full amount of these charges: (1) The charges billed by any phone company for the maintenance of a dedicated telephone line required by this permit or the certificate to operate for the electronic transmission of data; or (2) The charges billed by any laboratory for performing the analysis of audit samples collected pursuant to testing or monitoring required by this permit or the certificate to operate. [N.J.A.C. 7:27-8.13(g)]
 16. Any failure to comply with the operating requirements or exceedance of emission concentrations specified in a preconstruction permit shall be reported within three (3) business days by calling the Environmental Action Hotline at (877) 927-6337 AND in writing to the Regional Enforcement Office within 30 days of the failure or exceedance. [N.J.A.C. 7:27-8.13(h)]
 17. The permittee shall, when requested by the Department, provide such testing facilities exclusive of instrumentation and sensing devices as may be necessary for the Department to determine the kind and amount of air contaminants emitted from the equipment or control apparatus. The testing facilities shall include the utilities, the structure to hold testing equipment and/or personnel, and any ports in stacks needed to carry out testing required by this permit. During testing by the Department, the equipment and control apparatus shall be operated under such conditions within their capacities as may be requested by the Department. The

- test facilities may be either permanent or temporary, at the discretion of the person responsible for their provision, and shall conform to all applicable laws, regulations, and rules concerning safe construction and safe practice. Testing facilities, which contain platforms and other means of personnel access, shall conform to OSHA standards. [N.J.A.C. 7:27-8.13(i)]
18. Upon request of the Department, the permittee shall submit to the Department any record relevant to any permit or certificate. Such records shall be submitted to the Department within thirty (30) days of the request by the Department or within a longer time period if approved in writing by the Department. [N.J.A.C. 7:27-8.15(a)]
 19. A permittee shall submit any required report in a format and on a schedule approved by the Department. Such report shall be transmitted on paper, by hand delivery, on computer disk, or electronically, at the discretion of the Department. [N.J.A.C. 7:27-8.15(b)]
 20. Any report submitted to the Department, including but not limited to, a report submitted as an amendment of this permit or the certificate to operate pursuant to N.J.A.C. 7:27-8.3(c) shall include, as an integral part of the report, certifications complying with N.J.A.C. 7:27-1.39.
 21. Upon request of the Department, the permittee shall report on forms obtained from the Department the air contaminant actual emissions and information relevant thereto, of any air contaminant or category of air contaminant emitted by the equipment, control apparatus, or source operation. [N.J.A.C. 7:27-8.15(d)]
 22. Any emission limit values in a preconstruction permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of “1 lb/hr” means a limit of “1.00 lb/hr”).
 23. This listing of requirements reflects the state rules and regulations that apply to a majority of sources. If a specific requirement in a rule or regulation that applies to a permittee is not included in this section or in the “Facility Specific Requirements” it does not relieve the permittee from the obligation to comply with that regulation.
 24. The following Department offices may be referenced in a preconstruction permit. Please use the following addresses when submitting any correspondence to these offices:

Emission Measurement Section
Mail Code: 09-01, P.O. Box 420
Trenton, NJ 08625-0420

Central Regional Enforcement Office
Mail Code: 22-03A; P.O. Box 420
Trenton, NJ 08625-0420

Northern Regional Enforcement Office
7 Ridgedale Avenue
Cedar Knolls, NJ 07927

Southern Regional Enforcement Office
2 Riverside Drive – Suite 201
Camden, NJ 08103

25. In accordance with N.J.A.C. 7:27-8.13(e), facilities are subject to 4 billable compliance inspections over the life of the Operating Certificate. Facilities will be invoiced for a service fee per inspection pursuant to N.J.A.C. 7:27-8.6 after the periodic compliance inspection is conducted.
26. The permittee shall pay fees to the Department pursuant to N.J.A.C.7:27-8.

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AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

Section D

Facility Name: VERANO NEW JERSEY

Facility ID No.: 36448

Permit Activity No.: PCP230003

PERMIT INFORMATION

FACILITY SPECIFIC REQUIREMENTS INDEX

FACILITY SPECIFIC REQUIREMENTS

REASON FOR APPLICATION

FACILITY PROFILE (GENERAL)

EQUIPMENT INVENTORY

CONTROL DEVICE INVENTORY

EMISSION POINT INVENTORY

EMISSION UNIT/BATCH PROCESS INVENTORY

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AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

Section D

Facility Name: VERANO NEW JERSEY

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FACILITY SPECIFIC REQUIREMENTS INDEX

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall not cause, suffer, or allow to emit into the outdoor atmosphere substances in quantities which shall result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
2	The permittee shall not suffer, allow, or permit any air contaminant detectable by the sense of smell to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the permittee has exclusive use or occupancy. In determining whether an odor unreasonably interferes with the enjoyment of life or property, the Department shall consider all of the relevant facts and circumstances, including, but not limited to, the character, severity, frequency, and duration of the odor, and the number of persons affected thereby. In considering these and other relevant facts and circumstances, no one factor shall be dispositive, but each shall be considered relevant in determining whether an odor interferes with the enjoyment of life and property, and, if so, whether such interference is unreasonable considering all of the circumstances. [N.J.A.C. 7:27- 8.3(j)]	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Process monitors must be operated at all times when the associated process equipment is operating except during outage time allowed by Department guidelines/procedures or as outlined in Technical Manual 1005. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Keep records of parameters monitored by the process monitor(s) as instructed by the Department's guidelines/procedures or as outlined in Technical Manual 1005. [N.J.A.C. 7:27-8.13(d)].	None.
4	The permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the preconstruction permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
5	A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the department. A person who fails to so notify the department is liable to the penalties and procedures prescribed in this section. [N.J.S.A. 26: 2C-19(e)]	None.	None.	Notify by phone: Upon occurrence of event. The Permittee shall immediately notify the Department of any non-compliance by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>The permittee is required to submit annual emission statements of their actual emissions if the Potential-to-emit for the entire facility equals to or exceeds any of the following thresholds (including all emissions from the facility, both permitted and unpermitted). Additional information about Emission Statement reports can be obtained by calling (609) 984-5483.</p> <p>Air Contaminant Threshold in Tons per Year:</p> <p>VOC: 10 tons per year NOx: 25 tons per year CO: 100 tons per year SO₂: 100 tons per year TSP: 100 tons per year PM_{2.5}: 100 tons per year PM₁₀: 100 tons per year Ammonia (NH₃): 100 tons per year Lead(Pb): 5 tons per year</p> <p>[N.J.A.C. 7:27-21]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>The permittee is required to submit a Title V Operating Permit application, within one year, if the potential-to-emit for the entire facility equal to or exceeds any of the following thresholds (including all emissions from the facility, both permitted and unpermitted). Additional information about Operating Permits can be obtained by calling the Operating Permit Hotline at (609) 633 - 8248.</p> <p>Air Contaminant Threshold in Tons per Year:</p> <p>CO: 100 tons per year PM10: 100 tons per year PM2.5: 100 tons per year TSP: 100 tons per year SO2: 100 tons per year SO2 (as a PM2.5 precursor): 100 tons per year NOx: 25 tons per year NOx (as a PM2.5 precursor): 100 tons per year VOC: 25 tons per year Lead: 10 tons per year Any HAP: 10 tons per year All HAPs collectively: 25 tons per year Any other air contaminant, except CO2: 100 tons per year [N.J.A.C. 7:27-22]</p>	None.	None.	None.
8	<p>Potential to Emit (PTE) of all other air contaminants, not listed in this permit, shall be below their respective reporting thresholds for contaminants listed as N.J.A.C. 7:27-8, Appendix I, Table A, and N.J.A.C. 7:27-17.9(a), as applicable. [N.J.A.C. 7:27- 8.13(h)]</p>	None.	None.	None.
9	<p>The Department and its authorized representatives shall have the right to enter and inspect any facility subject to N.J.A.C. 7:27-8, or portion thereof. [N.J.A.C. 7:27- 1.31]</p>	None.	None.	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3)). [N.J.A.C. 7:27-8.13(a)]	None.	None.	None.
11	Consistent with EPA's National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance. [N.J.A.C. 7:27-8.13(a)]	None.	None.	None.
12	All information provided in the application as well as the information related to the application included as Attachments to the application shall be considered as a part of the permit and is subject to enforcement. [N.J.A.C. 7:27-8.13(a)]	None.	None.	None.
13	Any information contained in an approved application and any condition of approval thereof, are subject to enforcement. This includes the following application information, which shall constitute maximum allowable limits, unless the Department establishes other limits in the conditions of approval: 1. Rates of emission of each air contaminant and each category of air contaminant listed; 2. Total hours of operation per time period; and 3. Any rate of production. [N.J.A.C. 7:27-8.13(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes**Subject Item:** CD1 Carbon Filter, CD2 Carbon Filter

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall maintain and operate the control device according to manufacturer specifications and replace the unit if odors observed. [N.J.A.C. 7:27- 8.13(a)]	Other: The permittee shall monitor for odor weekly.[N.J.A.C. 7:27- 8.13(d)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. The permittee shall record date, the results of weekly monitoring, date when carbon is replaced and weight of carbon added. [N.J.A.C. 7:27- 8.13(d)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.788 tons/yr. [N.J.A.C. 7:27-8.13(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.788 tons/yr. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
3	VOC (Total) <= 21.81 tons/yr. [N.J.A.C. 7:27- 8.13(a)]	VOC (Total): Monitored by material balance each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The permittee shall monitor the amount of VOC used by subtracting the amount of VOC recovered/disposed from the amount of VOC added to the system. [N.J.A.C. 7:27- 8.13(d)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the amount of fresh VOC added to the system, VOC recovered/disposed of as waste and the net VOC used. [N.J.A.C. 7:27-16.16(g)1ii]	None.
4	VOC charge rate in extraction/evaporator sytem (E1 and E2) <= 24 gallons per hour [N.J.A.C. 7:27- 8.13(a)]	Monitored by calculations once initially, based on a batch cycle average and then each month during operation. The process rate shall be determined by VOC charged for four 15 lb cannabis bundles divided by the time to process four bundles. [N.J.A.C. 7:27- 8.13(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and each month during operation. [N.J.A.C. 7:27- 8.13(d)]	None.
5	The permittee shall comply with the Odor Control Plan attached to this permit. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes**Operating Scenario:** OS1 Cannabis Extraction

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.32 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	Maximum VOC charged 140,208 gallons per 12 months period [N.J.A.C. 7:27-8.13(a)]	Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27- 8.13(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record total VOC charged in a month and in a consecutive 12 month period. [N.J.A.C. 7:27- 8.13(d)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes**Operating Scenario:** OS2 Crude Oil Separation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.44 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: U4 Ethanol and Butane Extraction Processes

Operating Scenario: OS3 Spent Cannabis Storage

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.14 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions. [N.J.A.C. 7:27-16.16(g)1ii].	None.
2	The facility shall not store more than 1175 lbs of spent cannabis at a time. [N.J.A.C. 7:27-8.13(a)]	Monitored by material balance upon occurrence of event. The permittee shall monitor the amount of spent cannabis stored to whenever material is added or removed from the storage. [N.J.A.C. 7:27-8.13(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Permittee shall record the amount of spent cannabis added, removed and net cannabis stored whenever material is added or removed from the storage. [N.J.A.C. 7:27-8.13(d)]	None.

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes

Operating Scenario: OS4 Cannabis Shredding

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.18 lb/hr. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.18 lb/hr. [N.J.A.C. 7:27- 8.13(a)]	None.	None.	None.
3	Maximum material processed <= 3659 lb/hr [N.J.A.C. 7:27- 8.13(a)]	Monitored by calculations once initially, based on a 1 hour block average and then each month during operation. [N.J.A.C. 7:27- 8.13(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially and then each month during operation. [N.J.A.C. 7:27- 8.13(d)]	None.
4	Opacity: no visible emissions, exclusive of visible condensed water vapor [N.J.A.C. 7:27- 8.13(a)]	Opacity: Monitored by visual determination each month during operation. Conduct visual inspections during daylight hours to determine if the stack has visible emissions, other than condensed water vapor. [N.J.A.C. 7:27- 8.13(d)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall maintain the following records: 1) Date and time of each observation; 2) Emission point (PT) number; 3) Observed results and conclusions; 4) Description of corrective action taken, if needed; 5) Date and time opacity problem was solved, if applicable; 6) Results of opacity reading in accordance with N.J.A.C. 7:27B-2, if conducted; and 7) Name of person(s) conducting visual observations. [N.J.A.C. 7:27- 8.13(d)]	Comply with the requirement: Upon occurrence of event. If visible emissions are observed: (1) Verify the equipment and/or control device causing visible emissions is operating according to manufacturer's specifications. If it is not operating properly, take corrective action immediately to eliminate the excess emissions. (2) If the visible emissions problem is not corrected within 24 hours, a certified opacity reader shall perform an opacity observation, in accordance with N.J.A.C. 7:27B-2 each day until the opacity problem is successfully corrected. [N.J.A.C. 7:27- 8.13(d)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes

Operating Scenario: OS5 Cannabis Extraction Process - Primary Storage Vessel

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.632 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.
2	Maximum Butane charged 551,880 pounds per 12 months period [N.J.A.C. 7:27-8.13(a)]	Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27- 8.13(d)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record total butane charged in a month and in a consecutive 12 month period. [N.J.A.C. 7:27- 8.13(d)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes**Operating Scenario:** OS6 Cannabis Extraction Process - Material Columns Vessel

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.632 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes**Operating Scenario:** OS7 Cannabis Extraction Process - Dewaxing and Filtration Vessel

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.632 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

PCP230003

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U4 Ethanol and Butane Extraction Processes**Operating Scenario:** OS8 Cannabis Extraction Process - Collection and Expansion Vessel

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.632 lb/hr. [N.J.A.C. 7:27-8.13(a)]	None.	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions.[N.J.A.C. 7:27-16.16(g)1ii].	None.

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: PCP **Number:** 220001

Description of Modifications: Verano NJ is submitting this pre-construction permit modification application for permit activity number #PCP220001 for facility ID 36448. The modification application is being submitted as a result of NJDEP's response to a request for determination package dated September 2, 2022 and submitted by Verano NJ to NJDEP regarding proposed butane extraction equipment. Mayra Reyes from NJDEP indicated in an October 12, 2022 email the butane extraction equipment would be considered a significant source.

Pursuant to N.J.A.C. 7:27-22.3(b), the owner or operator of a facility subject to this subchapter shall ensure that no person shall use or operate any significant source operation at the facility without a valid operating permit for the facility, which covers the source operation. With this application Verano NJ is requesting authorization to construct and operate a cannabis extraction process.

Verano NJ is submitting this pre-construction permit modification application to reflect the following:

1. Adding the butane extraction equipment (E9-E12) as it was determined by NJDEP in its response to a Request for Determination submission that the equipment is considered significant and must be permitted to operate.
2. Adding on to the emission unit (EU4) for butane emissions associated with E9-E12. Renaming emission unit to Ethanol and Butane Extraction Processes.
3. Uploading an updated Odor Control Plan to reflect updates based on the above additions.
4. Adding PT-8 and PT-9 associated with EU4.
5. Adding the carbon filter in PT-8 as an odor control device CD-2.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Verano NJ

Facility ID (AIMS): 36448

Street 3576 RT 22
Address: READINGTON TWP., NJ 08889

Mailing 3576 RT 22
Address: READINGTON TWP., NJ 08889

County: Hunterdon
Location The facility is located along US Route 22 in
Description: Readington Twp., NJ approximately 9 miles
east from Interstate 78

State Plane Coordinates:	
X-Coordinate:	41
Y-Coordinate:	75
Units:	Dec. Deg.
Datum:	WGS84
Source Org.:	Address Match
Source Type:	Approx. Addr. Match

Industry:	
Primary SIC:	
Secondary SIC:	
NAICS:	111419

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Air Permit Information Contact

Organization: Verano NJ

Org. Type: Corporation

Name: Thomas O'Farrell

NJ EIN:

Title: Facility Manager

Phone: (908) 246-7507 x

Mailing Address: 3756 RT 22

Fax: () - x

Readington Twp., NJ 08889

Other: () - x

Type:

Email: Thomas.O'Farrell@veranobrands.com

Contact Type: Consultant

Organization: Langan Engineering and Environmental Services

Org. Type: Corporation

Name: Stephanie Duffield

NJ EIN:

Title: Project Engineer

Phone: (212) 479-5547 x

Mailing Address: 21 Penn Plaza

Fax: () - x

360 West 31st Street
8th Floor

Other: () - x

New York, NY 10001-2727

Type:

Email: sduffield@langan.com

Contact Type: Fees/Billing Contact

Organization: Verano NJ

Org. Type: Corporation

Name: Thomas O'Farrell

NJ EIN:

Title: Facility Manager

Phone: (908) 246-7507 x

Mailing Address: 3756 RT 22

Fax: () - x

Readington, NJ 08889

Other: () - x

Type:

Email: thomas.o'farrell@veranobrands.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: General Contact

Organization: Verano NJ

Org. Type: Farm

Name: Thomas O'Farrell

NJ EIN:

Title:

Phone: () - x

Mailing 3576 US 22

Fax: () - x

Address: Branchburg Twp, NJ 08876

Other: () - x

Type:

Email: Thomas.O'Farrell@veranobrand.com

Contact Type: Responsible Official

Organization: Verano NJ

Org. Type: Corporation

Name: Thomas O'Farrell

NJ EIN:

Title: Facility Manager

Phone: (908) 246-7507 x

Mailing 3756 RT 22

Fax: () - x

Address: Readington, NJ 08889

Other: () - x

Type:

Email: Thomas.O'Farrell@veranobrand.com

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E4	E4	Cannabis Shredder	Manufacturing and Materials Handling Equipment		4/15/2020	No		
E6	E6	CUP-30 Ethanol Extraction System and associated vessels	Manufacturing and Materials Handling Equipment		4/15/2020	No		
E7	E7	Falling Film Evaporator (FFE) system and associated filter, evaporator, and two holding kegs	Manufacturing and Materials Handling Equipment		4/15/2020	No		
E8	E8	Spent Cannabis Storage	Manufacturing and Materials Handling Equipment		4/15/2020	No		
E9	E9	Butane Extraction System (X40-MSE) - Primary Storage Vessel	Manufacturing and Materials Handling Equipment		4/1/2022	No		
E10	E10	Butane Extraction System (X40-MSE) - Material COLUMNS Vessel	Manufacturing and Materials Handling Equipment		4/1/2022	No		
E11	E11	Butane Extraction System (X40-MSE) - Dewaxing and Filtration Vessel	Manufacturing and Materials Handling Equipment		4/1/2022	No		
E12	E12	Butane Extraction System (X40-MSE) - Collection and Expansion Vessel	Manufacturing and Materials Handling Equipment		4/1/2022	No		

36448 VERANO NEW JERSEY PCP230003 E4 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	<input type="text" value="TASKMASTER"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text" value="TM1630A"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Straw and Cannabis Shredding"/>
Capacity:	<input type="text" value="1.90E+03"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="1900 GPM"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

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36448 VERANO NEW JERSEY PCP230003 E6 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	<input type="text" value="Varies"/>
Manufacturer:	<input type="text" value="Varies"/>
Model:	<input type="text" value="Varies"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Ethanol Extraction System"/>
Capacity:	<input type="text" value="3.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="This ethanol extraction system includes the CUP-30 ethanol extraction vessel, a 30-gallon Spyder vessel for holding ethanol between extraction of each cannabis bundle, and a 30-gallon holding keg for holding saturated tincture after all cannabis bundles are extracted. The CUP-30 has the capacity to hold ~15 lb of cannabis with the 30 gallons of ethanol."/>

36448 VERANO NEW JERSEY PCP230003 E7 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	<input type="text" value="Varies"/>
Manufacturer:	<input type="text" value="Varies"/>
Model:	<input type="text" value="Varies"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Crude Oil Separation Process"/>
Capacity:	<input type="text" value="3.00E+01"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="The crude oil separation process begins by filtering the saturated tincture through the lenticular filter. The tincture is sent to a 30-gallon tincture holding keg, before passing through the Falling Film Evaporator (FFE). Ethanol is separated from the tincture and sent to a 30-gallon holding keg. The tincture is sent to the Rotary Evaporation (Rotovap) system and condensed ethanol is again sent to the 30-gallon holding keg. The crude oil is sent to an oven for decarboxylation. The condensed ethanol collected in the holding keg is re-used in the cannabis extraction process equipment (E1)"/>

36448 VERANO NEW JERSEY PCP230003 E8 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	N/A
Manufacturer:	N/A
Model:	N/A
Type of Manufacturing and Materials Handling Equipment:	Spent Cannabis Storage
Capacity:	8.40E+01
Units:	other units
Description (if other):	bundles of spent cannabis
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	This "equipment" represents storage of spent, bagged cannabis prior to removal for off-site destruction. The maximum storage capacity is 84 bundles of spent cannabis.

36448 VERANO NEW JERSEY PCP230003 E9 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	
Manufacturer:	Precision Extraction Solutions
Model:	X40 Multi-Solvent Extractor
Type of Manufacturing and Materials Handling Equipment:	Butane Extraction System
Capacity:	1.20E+02
Units:	other units
Description (if other):	liters
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

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36448 VERANO NEW JERSEY PCP230003 E10 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	
Manufacturer:	Precision Extraction Solutions
Model:	X40 Multi-Solvent Extractor
Type of Manufacturing and Materials Handling Equipment:	Butane Extraction System
Capacity:	1.00E+02
Units:	other units
Description (if other):	liters
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

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36448 VERANO NEW JERSEY PCP230003 E11 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	
Manufacturer:	Precision Extraction Solutions
Model:	X40 Multi-Solvent Extractor
Type of Manufacturing and Materials Handling Equipment:	Butane Extraction System
Capacity:	5.00E+01
Units:	other units
Description (if other):	liters
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

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36448 VERANO NEW JERSEY PCP230003 E12 (Manufacturing and Materials Handling Equipment)
Print Date: 6/26/2023

Make:	
Manufacturer:	Precision Extraction Solutions
Model:	X40 Multi-Solvent Extractor
Type of Manufacturing and Materials Handling Equipment:	Butane Extraction System
Capacity:	1.50E+02
Units:	other units
Description (if other):	liters
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	

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**New Jersey Department of Environmental Protection
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	CD1	Carbon Filter	Adsorber	4/15/2020			
CD2	CD2	Carbon Filter	Adsorber	4/15/2020			

36448 VERANO NEW JERSEY PCP230003 CD1 (Adsorber)
Print Date: 6/26/2023

Make:	Permatron
Manufacturer:	LIT - Activated Carbon
Model:	
Adsorber Type:	Fixed (Non-Regenerative) ▼
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	570
Maximum Temperature of Vapor Stream to Adsorber (°F):	70
Minimum Temperature of Vapor Stream to Adsorber (°F):	70
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Carbon Filter
Bed Height:	
Bed Length:	
Bed Width:	
Units:	▼
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H2O):	
Maximum Pressure Drop Across Adsorber (in. H2O):	
Total Weight of Adsorbant (lbs):	
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	Single ▼
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input type="checkbox"/>
Sampling Frequency:	
Sampling Device:	
Other:	<input type="checkbox"/>
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	▼
Method of Regeneration:	

Maximum Number of Sources
Using this Apparatus as a Control
Device (Include Permitted and
Non-Permitted Sources):

Alternative Method to Demonstrate
Control Apparatus is Operating
Properly:

Have you attached data from
recent performance testing?

☐ Yes ☒ No

Have you attached any
manufacturer's data or
specifications in support of the
feasibility and/or effectiveness of
this control apparatus?

☐ Yes ☒ No

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

☐ Yes ☒ No

Comments:

DRAFT

36448 VERANO NEW JERSEY PCP230003 CD2 (Adsorber)
Print Date: 6/26/2023

Make:	Permatron
Manufacturer:	LIT - Activated Carbon
Model:	
Adsorber Type:	Fixed (Non-Regenerative) ▼
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	570
Maximum Temperature of Vapor Stream to Adsorber (°F):	70
Minimum Temperature of Vapor Stream to Adsorber (°F):	70
Minimum Moisture Content of Vapor Stream to Adsorber (%):	
Type of Adsorbant:	Carbon Filter
Bed Height:	
Bed Length:	
Bed Width:	
Units:	▼
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Adsorbant (in. H2O):	
Maximum Pressure Drop Across Adsorber (in. H2O):	
Total Weight of Adsorbant (lbs):	
Total Weight of Adsorbant When Saturated (lbs):	
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	Single ▼
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input type="checkbox"/>
Sampling Frequency:	
Sampling Device:	
Other:	<input type="checkbox"/>
Description:	
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	▼
Method of Regeneration:	

Maximum Number of Sources
Using this Apparatus as a Control
Device (Include Permitted and
Non-Permitted Sources):

Alternative Method to Demonstrate
Control Apparatus is Operating
Properly:

Have you attached data from
recent performance testing?

☐ Yes ☒ No

Have you attached any
manufacturer's data or
specifications in support of the
feasibility and/or effectiveness of
this control apparatus?

☐ Yes ☒ No

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

☐ Yes ☒ No

Comments:

DRAFT

VERANO NEW JERSEY (36448)
PCP230003

Date: 7/18/2023

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT5	PT5	Ethanol Extraction Room Fugitives	Round	999	4	90	70.0	70.0	70.0	570.0	0.0	570.0	Up	
PT6	PT6	Storage Room Fugitives	Round	999	4	58	70.0	70.0	70.0	1,500.0	0.0	1,500.0	Up	
PT7	PT7	Cannabis Shredder Fugitives	Surface	999	4	142	70.0	70.0	70.0	1,200.0	0.0	1,200.0	Up	
PT8	PT8	Butane Extraction Room Fugitives	Round	999	4	87	70.0	70.0	70.0	1,500.0	0.0	1,500.0	Up	
PT9	PT9	Butane Extraction Room Fugitives	Round	999	4	87	70.0	70.0	70.0	10,000.0	0.0	10,000.0	Up	

VERANO NEW JERSEY (36448)
PCP230003

Date: 7/18/2023

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

BP1

Batch Process Operating Scenario Run Time (hours)				Min. Calc. Time:		Max. Calc. Time:		Min. User Time:		Max. User Time:				
Step NJID	Facility's Designation	Step Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Step Run Time Hours	VOC	Flow (acfm)	Temp. (deg F)			
								Min.	Max.	Range	Min.	Max.	Min.	Max.

U 4 U4 Ethanol and Butane Extraction Processes

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.	Temp. (deg F) Min. Max.
OS1	OS1	Cannabis Extraction	Normal - Steady State	E6	CD1 (P)	PT5	3-02-888-01	0.0 5,842.0	B	0.0 570.0	60.0 78.0
OS2	OS2	Crude Oil Separation	Normal - Steady State	E7	CD1 (P)	PT5	3-02-888-01	0.0 8,760.0	B	0.0 570.0	60.0 78.0
OS3	OS3	Spent Cannabis Storage	Normal - Steady State	E8		PT6	3-02-888-01	0.0 8,760.0	B	0.0 1,500.0	60.0 78.0
OS4	OS4	Cannabis Shredding	Normal - Steady State	E4		PT7	3-02-888-01	0.0 8,760.0		0.0 1,200.0	60.0 78.0
OS5	OS5	Cannabis Extraction Process - Primary Storage Vessel	Normal - Steady State	E9	CD2 (P)	PT8 PT9	3-02-888-01	0.0 8,760.0	I	1,500.0 11,500.0	60.0 78.0
OS6	OS6	Cannabis Extraction Process - Material Columns Vessel	Normal - Steady State	E10	CD2 (P)	PT8 PT9	3-02-888-01	0.0 8,760.0	I	1,500.0 11,500.0	60.0 78.0
OS7	OS7	Cannabis Extraction Process - Dewaxing and Filtration Vessel	Normal - Steady State	E11	CD2 (P)	PT8 PT9	3-02-888-01	0.0 8,760.0	I	1,500.0 11,500.0	60.0 78.0

VERANO NEW JERSEY (36448)
PCP230003

Date: 7/18/2023

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 4 U4 Ethanol and Butane Extraction Processes

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS8	OS8	Cannabis Extraction Process - Collection and Expansion Vessel	Normal - Steady State	E12	CD2 (P)	PT8 PT9	3-02-888-01	0.0	8,760.0	I	1,500.0	11,500.0	60.0	78.0

36448 VERANO NEW JERSEY PCP230003 U4 OS1 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Ethyl alcohol	00064-17-5	Liquid	46.070	Yes	100.00	48.000	6.500	lb/gal

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36448 VERANO NEW JERSEY PCP230003 U4 OS1 (Efficiency Table - CD1)

Print Date: 6/26/2023

Pollutant Category	Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)
CO			
HAP (Total)			
NOx			
Other (Total)			
PM-10			
PM-2.5			
Pb			
SO2			
TSP			
VOC (Total)			

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36448 VERANO NEW JERSEY PCP230003 U4 OS2 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Ethyl alcohol	00064-17-5	Liquid	46.070	Yes	100.00	48.000	6.500	lb/gal

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36448 VERANO NEW JERSEY PCP230003 U4 OS2 (Efficiency Table - CD1)

Print Date: 6/26/2023

Pollutant Category	Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)
CO			
HAP (Total)			
NOx			
Other (Total)			
PM-10			
PM-2.5			
Pb			
SO2			
TSP			
VOC (Total)			

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36448 VERANO NEW JERSEY PCP230003 U4 OS3 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Ethyl alcohol	00064-17-5	Liquid	46.070	Yes	100.00	48.000	6.500	lb/gal

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36448 VERANO NEW JERSEY PCP230003 U4 OS5 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Butane	00106-97-8	Liquid	58.120	Yes	100.00	842.953	35.771	lb/ft^3

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36448 VERANO NEW JERSEY PCP230003 U4 OS5 (Efficiency Table - CD2)

Print Date: 6/26/2023

Pollutant Category	Capture Efficiency (%)	Removal Efficiency (%)	Overall Efficiency (%)
CO			
HAP (Total)			
NOx			
Other (Total)			
PM-10			
PM-2.5			
Pb			
SO2			
TSP			
VOC (Total)			

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36448 VERANO NEW JERSEY PCP230003 U4 OS6 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Butane	00106-97-8	Liquid	58.120	Yes	100.00	842.953	35.771	lb/ft^3

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36448 VERANO NEW JERSEY PCP230003 U4 OS7 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Butane	00106-97-8	Liquid	58.120	Yes	100.00	842.953	35.771	lb/ft^3

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36448 VERANO NEW JERSEY PCP230003 U4 OS8 (Raw Materials)

Print Date: 6/26/2023

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70 deg F (mmHg)	Organic Density	Units
Butane	00106-97-8	Liquid	58.120	Yes	100.00	842.953	35.771	lb/ft^3

DRAFT

Facility Name: VERANO NEW JERSEY

Program Interest Number: 36448

Permit Activity Number: PCP 230003

ODOR MANAGEMENT PLAN

ODOR CONTROL PLAN

for

**Verano NJ
3576 Route 22
Readington Township, NJ 08889**

Prepared For:

**Verano NJ
3576 Route 22
Readington Township, NJ 08889**

Prepared By:

Langan Engineering and Environmental Services, Inc.

300 Kimball Drive

Parsippany, New Jersey 07054

NJ Certificate of Authorization No: 24GA27996400

June 7, 2022

Revised: March 7, 2023

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ODOR MANAGEMENT PLAN

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ODOR MANAGEMENT PLAN

1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. (Langan) has prepared this Odor Control Plan on behalf of the Verano NJ cannabis cultivation and processing facility located at 3576 Route 22 in Readington Township, New Jersey. This Odor Control Plan is required by the New Jersey Department of Environmental Protection (NJDEP) in conjunction with the facility's Pre-Construction Permit (PCP) application (PCP220001). The PCP was submitted to NJDEP on October 22, 2021 and was approved and issued by NJDEP on February 15, 2023. A subsequent preconstruction permit modification application was submitted to NJDEP in February 2023 to add butane extraction equipment.

The objective of this Odor Control Plan is to identify potential sources of cannabis-related odors that may be generated by the facility and outline the administrative and engineering controls that have been implemented to reduce odors at the property boundary and beyond. Verano NJ's goal is to conduct its operations such that cannabis-related odors do not travel beyond the property boundary at levels of concern.

As the NJDEP does not have specific guidance on preparing odor control plans for cannabis cultivation and processing facilities, this plan has been prepared using guidance developed by other states for odor mitigation at such facilities. This plan also takes into account the odor mitigation plan requirements outlined in Readington Planning Board Resolution No. 2021-02 pertaining to approval of certain improvements to the facility.

2.0 FACILITY DESCRIPTION

The Verano NJ facility is a cannabis cultivation and processing center owned and operated by Verano Holdings, LLC and located at 3576 Route 22 in Readington Township, New Jersey. The facility consists of a single, approximately 120,000-square foot building located on a 38-acre parcel at the intersection of Route 22 and Island Road. The primary operations at the facility include growing cannabis plants, drying and trimming the plants, processing the dried and trimmed plants, and producing a THC extract for use in edible cannabis products. All cultivation and processing operations are performed inside the onsite building.

2.1 Facility Contact Information

- **Owner/Lessor:**
Branchburg Rte. 22, LLC
415 N. Dearborn St., 4th Floor
Chicago, IL 60654

ODOR MANAGEMENT PLAN

- **Lessee:**
Verano NJ, LLC
415 N. Dearborn St., 4th Floor
Chicago, IL 60654
- **Facility Operator**
Verano NJ
3576 Route 22
Readington Township, NJ 07054
- **Emergency Contact Information**
Kenneth Merced
Production Manager
Verano NJ
(732) 766-2842
- **Odor Complaint Phone Number**
(908) 613-8985 ext. 3003

2.2 Potential Odor Sources

Areas of the facility that have the potential to generate cannabis-related odors include the following:

- Mother/Clone Rooms
- Vegetation Room
- Cultivation Room
- Wet Trim Harvest Room
- Drying Rooms
- Cure Room
- Packaging Room
- Extraction Labs
- Storage Room

While cannabis odors may be generated from the areas listed above, potential odor emission points in the building envelope are limited to the following:

- Roof top units (RTUs) that condition common areas of the buildings and certain other areas with limited odor-generating activities. These units include RTU-1, RTU-2, RTU-6, RTU-7, and RTU-8. Each RTU introduces a certain minimum rate of outside air into the building to meet applicable building code requirements.

ODOR MANAGEMENT PLAN

Each RTU is equipped with an economizer that, depending on weather conditions and building cooling needs, can introduce additional outside air into the building beyond that required by code. Air flow in the building is balanced by exhausting indoor air via the exhaust fans described below, or via barometric dampers on each RTU.

- Ceiling-mounted exhaust fans (EF-1 through EF-4) located along southwest wall of the building. These fans exhaust indoor air from the employee locker rooms and restrooms.
- Centrifugal exhaust fans installed at three locations (BEF-1, BEF-2, and BEF-3) on the south corner of the building roof. Exhaust fans BEF-1 and BEF-3 provide normal continuous exhaust of the butane and ethanol extraction labs respectively. Both BEF-1 and BEF-3 are equipped with carbon filters. Exhaust fan BEF-2 provides emergency exhaust of the butane extraction lab and would only operate during emergency conditions and is not equipped with a filter.

Indoor air may also escape through exterior doorways or other penetrations in the building envelope; however, this air movement is anticipated to be insignificant in comparison to the volumes of air handled by the equipment listed above. Additionally, Can-Lite filters are placed at the entrance doors and loading dock to minimize odors escaping through the doors.

A site plan depicting the facility layout and potential odor emission points is provided on Figure 1.

3.0 ODOR MITIGATION MEASURES

Verano NJ uses a combination of engineering controls and administrative measures to mitigate the potential for facility-related odors to reach levels of concern at and beyond the property boundaries.

3.1 Engineering Controls

Engineering controls used to mitigate potential odors include the following.

3.1.1 Negative Pressure

Verano NJ maintains a negative pressure in certain rooms throughout the building to reduce air flow out of each room with odor-emitting activities and

ODOR MANAGEMENT PLAN

thus minimize the opportunities for odors to escape the building. Rooms with exhaust fans identified in Section 2.2 and shown in Figure 1 are kept under negative pressure.

3.1.2 Activated Carbon Filters

Verano NJ has installed activated carbon filters on the following equipment that has the potential to exhaust indoor air from the building to the outside atmosphere. The equipment locations are shown on Figure 1.

- Exhaust Fan (EF) 1
- EF-2
- EF-3
- EF-4
- Building Exhaust Fan (BEF) -1
- BEF-3
- Rooftop Unit (RTU)-1
- RTU-2
- RTU-6
- RTU-7
- RTU-8

Activated carbon filters are required to be changed at a minimum frequency of every two months, or more frequently if warranted based on inspection of the filters.

3.1.3 Can-Lite Filters

Verano NJ has installed four Can-Lite Filters (14" XL 3000 CFM) at the entrance to the building and four additional Can-Lite Filters (14" XL 3000 CFM) at and near the building's enclosed loading dock. The Can-Lite Filters circulate indoor air at these locations through activated carbon filters to minimize the potential for odors to escape when personnel are entering and exiting the building. The Can-Lite Filter installation locations are identified in Figure 1.

3.1.4 Additional Engineering Controls

Verano NJ has also implemented the following additional odor mitigation engineering controls:

- All duct and piping penetrations through the building enveloped are sealed air tight.

ODOR MANAGEMENT PLAN

- All ductwork is sealed to Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards.
- All exterior ductwork has two-inch thick fiberglass insulation and venture clad jacket.

3.2 Administrative Measures

Administrative measures used to mitigate potential odors include the following.

3.2.1 Employee Training

Verano NJ personnel are trained in best practices to reduce the potential for odors to emanate from the facility. Personnel are trained upon hire and on an annual basis. Topics included in the training are procedures related to carbon filter changing and recordkeeping (for applicable employees) and the importance of quickly exiting and entering the building and rooms containing odor-generating activities while odor-emitting activities are occurring to minimize time that doors are open. Verano NJ conducts monthly staff briefings to discuss best practices for odor mitigation.

3.2.2 Monitoring and Inspection

The presence of cannabis-related odors outside of the building is monitored on a daily basis by facility personnel as they arrive at the facility and while present on the facility grounds. If pronounced cannabis odors are detected outside the building by an employee, the employee will inform the Facility Manager. The Facility Manager will initiate a further evaluation of the reported odor. If a filter needs to be changed it will be done so at this time. If doors are not closing by themselves, doors will be fixed as soon as the problem is detected.

The carbon filters are evaluated regularly for breakthrough of odors, and at a minimum on a weekly basis. Verano will replace the filters within 24 hours of discovering a filter has reached breakthrough.

3.2.3 Recordkeeping

Verano NJ maintains records of the carbon filter specifications sheets and filter manufacturer's requirements. Verano NJ changes the carbon filters as required based on its monitoring activities and as recommended by the filter manufacturer. A log is maintained to document the date of each carbon filter replacement. A sample log is provided in Appendix A.

ODOR MANAGEMENT PLAN

Additionally, Verano NJ maintains records of odors noted by facility personnel during their day-to-day activities outside the building and reported to the Facility Manager as described in Section 3.2.2. Odor reports and response measures are recorded on the outdoor odor monitoring log provided in Appendix B. An entry to the log is only made for days on which an outdoor odor is reported to the Facility Manager.

4.0 ODOR RESPONSE PROCEDURES

If an odor complaint is received by Verano NJ from a state or local regulatory agency, Verano NJ will implement the following response procedures:

- Verano NJ will contact the agency presenting the complaint, determine what (if any) response is required by the agency, and coordinate a site visit for agency inspectors if requested.
- Verano NJ personnel will evaluate the presence of cannabis-related odors at the property boundary and outdoor areas around the building. A description of the location, type (if possible), and degree of any odors noted will be recorded. Weather conditions (temperature, humidity, precipitation, and wind speed/direction) will also be recorded based on observation by Verano NJ personnel and online local weather data.
- If pronounced cannabis-related odors are noted at the property boundary or around the building exterior, Verano NJ personnel will further evaluate the locations where indoor air may be exhausted from the building. Observations will be recorded, and carbon filters will be replaced at any locations where cannabis-related odors are pronounced.
- If cannabis-related odors are determined to be emanating from damaged/inoperable equipment or from locations where carbon filters are not installed, such conditions will be noted. Verano NJ will then retain the services of consultants and/or contractors to make any necessary repairs or design and implement modifications to the facility to reduce the odor emissions.
- Throughout the process described above, Verano NJ will remain in contact with the agency presenting the complaint and provide updates on the status of its evaluation and mitigation measures.

Facility Name: VERANO NEW JERSEY
Program Interest Number: 36448
Permit Activity Number: PCP 230003

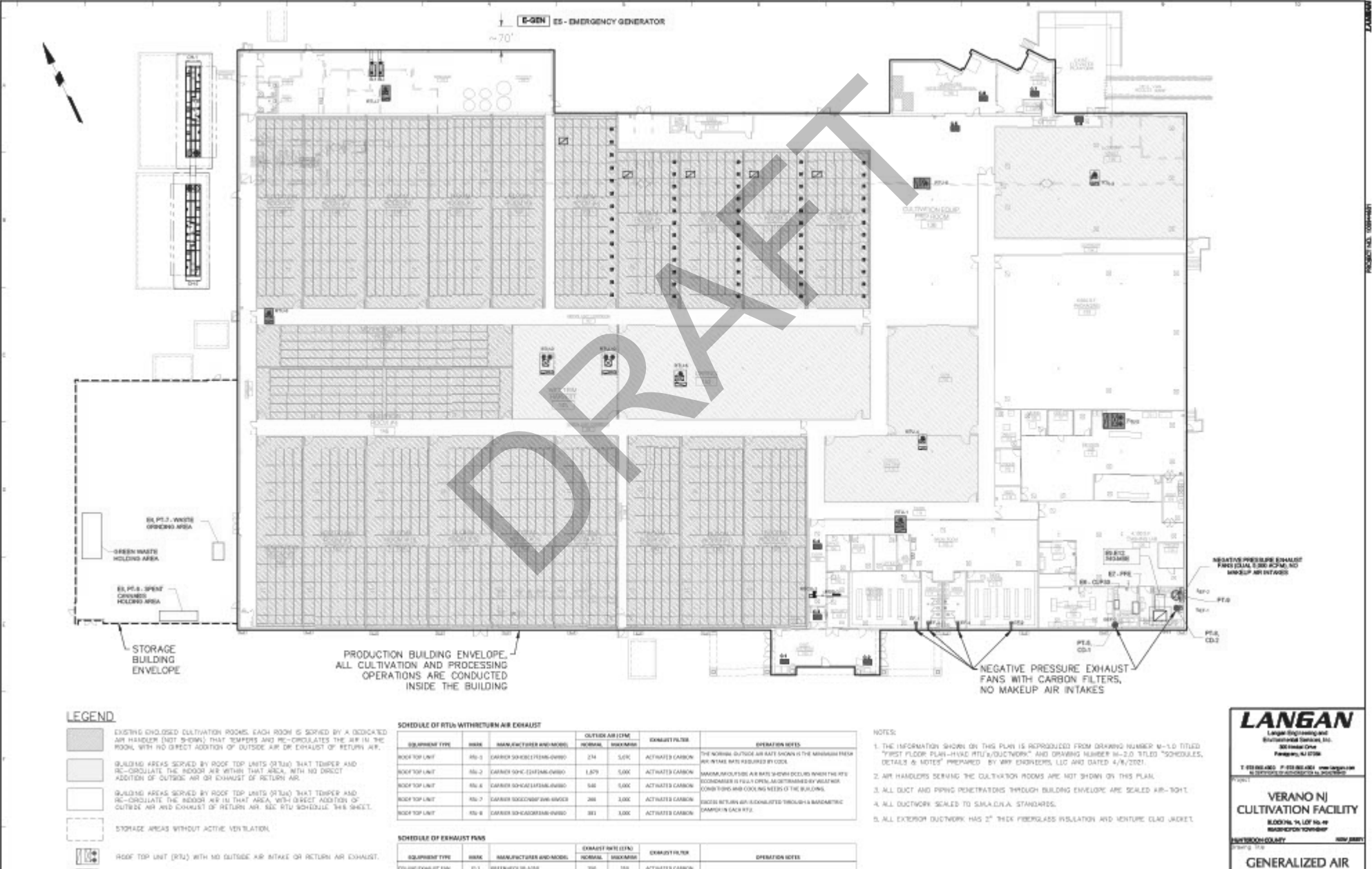
ODOR MANAGEMENT PLAN

FIGURES

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Facility Name: VERANO NEW JERSEY
Program Interest Number: 36448
Permit Activity Number: PCP 230003

ODOR MANAGEMENT PLAN



Facility Name: VERANO NEW JERSEY
Program Interest Number: 36448
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ODOR MANAGEMENT PLAN

APPENDIX A

**Weekly Carbon Filter Inspection
and Replacement Log**

Weekly Carbon Filter Inspection and Replacement Log

Date	Time	Inspector (Name and Title)	Carbon Filter Location	Filter Installation Date	Odor Breakthrough (Y/N)	Filter Replaced (Y/N)	Notes
			RTU-1				
			RTU-2				
			RTU-6				
			RTU-7				
			RTU-8				
			EF-1				
			EF-2				
			EF-3				
			EF-4				
			BEF-1				
			BEF-3				
			Can-Lite #1				
			Can-Lite #2				
			Can-Lite #3				
			Can-Lite #4				
			Can-Lite #5				
			Can-Lite #6				
			Can-Lite #7				
			Can-Lite #8				

Facility Name: VERANO NEW JERSEY
Program Interest Number: 36448
Permit Activity Number: PCP 230003

ODOR MANAGEMENT PLAN

APPENDIX B

Outdoor Odor Assessment Log

Outdoor Odor Assessment Log

Date	Time	Inspector (Name and Title)	Odor Description (location, type, strength)	Weather Conditions (temp, wind, humidity, precip.)	Known or Suspected Odor Source	Corrective Action Implemented (if any)