



# Florida Department of Environmental Protection

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

September 17, 2015

## PERMITTEE

Firmenich, Inc.  
4330 Drane Field Road  
Lakeland, Florida 33811

Air Permit No. 1050409-014-AC  
Permit Expires: 06/01/2016  
Minor Air Construction Permit

Authorized Representative:  
Mr. Brad Farrow, Director of Operations

Lakeland Facility  
Increase HAPs Allowable  
Emissions and Construction of  
two Process Tanks

## PROJECT

This is the final air construction permit, which authorizes an increase in the HAPs allowable emissions for the facility and the construction of two process tanks. The proposed work will be conducted at existing facility, which is a juice and beverage ingredient production facility categorized under Standard Industrial Classification No. 2037. The existing facility is located in Polk County at 4330 Drane Field Road in Lakeland, Florida. The UTM coordinates are Zone 17, 393.2 km East, and 3097.1 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit. As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.

## STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

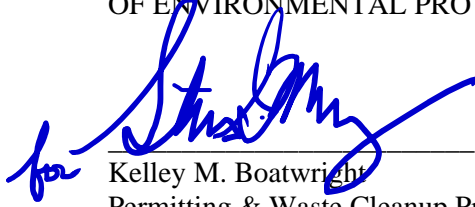
Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

## FINAL PERMIT

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Executed in Hillsborough County, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Kelley M. Boatwright  
Permitting & Waste Cleanup Program Administrator  
Southwest District

### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Mr. Brad Farrow, Firmenich, Inc. ([Brad.Farrow@Firmenich.com](mailto:Brad.Farrow@Firmenich.com))

Mr. Tom Pearson, Firmenich, Inc. ([Tom.Pearson@Firmenich.com](mailto:Tom.Pearson@Firmenich.com))

Ms. Robynn Andracssek, Burns & McDonnell ([randracssek@burnsmcd.com](mailto:randracssek@burnsmcd.com))

Ms. Shannon Camp, Compliance Assurance Program ([Shannon.D.Camp@dep.state.fl.us](mailto:Shannon.D.Camp@dep.state.fl.us))

Ms. Danielle Henry, Compliance Assurance Program Manager ([Danielle.D.Henry@dep.state.fl.us](mailto:Danielle.D.Henry@dep.state.fl.us))

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date,  
pursuant to Section 120.52(7), Florida Statutes, with the  
designated agency clerk, receipt of which is hereby  
acknowledged.

  
(Clerk)

September 17, 2015  
(Date)

## SECTION 1. GENERAL INFORMATION (FINAL)

### FACILITY DESCRIPTION

The facility designs and manufactures juice and beverage ingredients (flavors) derived from natural citrus products and ingredients for the juice and beverage industry. The facility includes a distillation building, a cooled tank farm building with a tanker loading area, and a blending and storage building which includes a quality control lab. The existing facility consists of the following emissions unit (EU).

Facility ID No. 1050409	
ID No.	Emission Unit Description
001	Storage and Blending Tanks

### PROPOSED PROJECT

This project will increase the Total HAPs allowable emissions for Emissions Unit No. 001 from 9.5 to 24.5 tons per year and will establish Individual HAP allowable emissions of 9.5 tons per year.

This project is also for the construction of two process tanks in the facility's Storage and Blending Tanks emissions unit (EU ID No. 001). Each tank will have a capacity of approximately 640 gallons and will be used to process citrus oils. See "Appendix E – Tanks Summary" for a detailed summary of the tanks to be constructed.

*{Note: This permit replaces Construction Permit No. 1050409-013-AC and incorporated the construction of the two process tanks originally included in that permit.}*

This project will modify the following emissions unit.

Facility ID No. 1050409	
ID No.	Emission Unit Description
001	Storage and Blending Tanks

### EXEMPT EMISSION SOURCES/ACTIVITIES

This facility includes three natural gas fired boilers which are exempt from permitting pursuant to the "Categorical and Conditional Exemptions" of Rule 62-210.300(3)(a)34., F.A.C. A brief description of the three boilers are listed below:

- Columbia 35 hp boiler with a firing rate of 1.47 MMBTU/Hr,
- York-Shipley 250 hp boiler with a firing rate of 8.37 MMBTU/Hr, and
- Orr & Sembower Inc. 150 hp boiler with a firing rate of 5.02 MMBTU

### FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility is a synthetic non-Title V source for the pollutants the pollutants volatile organic compounds (VOC) and hazardous air pollutants (HAPs).

## **SECTION 1. GENERAL INFORMATION (FINAL)**

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### **PERMIT HISTORY/AFFECTED PERMITS**

This permit replaces Construction Permit 1050409-013-AC.

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## SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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1. Permitting Authority: The permitting authority for this project is the Southwest District of the Department of Environmental Protection (Department). The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection  
Southwest District Office  
Air and Solid Waste Permitting Program  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-470-5700  
E-mail: [SWD\\_Air\\_Permitting@dep.state.fl.us](mailto:SWD_Air_Permitting@dep.state.fl.us)

All documents related to applications for permits shall be submitted to the above e-mail address and/or address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Florida Department of Environmental Protection (Department), Southwest District Office's Compliance Assurance Program. The mailing address, phone number and e-mail address is:

Florida Department of Environmental Protection  
Southwest District Office  
Compliance Assurance Program  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-470-5700  
E-mail: [SWD\\_Air@dep.state.fl.us](mailto:SWD_Air@dep.state.fl.us)

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the above e-mail address and/or address.

3. Appendices: The following Appendices are attached as a part of this permit:
- Appendix A (Citation Formats and Glossary of Common Terms);
  - Appendix B (General Conditions);
  - Appendix C (Common Conditions);
  - Appendix D (Common Testing Requirements); and
  - Appendix E (Tank Summary)
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.  
[Rule 62-4.080, F.A.C.]

## SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification.  
[Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires.  
[Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Annual Operating Report - On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.  
[Rule 62-210.370(3), F.A.C.]
9. Application for Non-Title V Air Operation Permit - This permit authorizes modification of the permitted emissions unit and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for continued operation of the permitted emissions unit. The permittee shall apply for a Non-Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Non-Title V air operation permit, the applicant shall submit the following:
  - a. the appropriate permit application form (*see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>*);
  - b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.; and
  - c. copies of the most recent month of records/logs specified in Specific Condition No(s). A.7.The application shall be submitted to the Permitting Authority.  
[Rules 62-4.030 and 62-4.050, F.A.C.]

### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

#### A. EU No. 001 – Storage and Blending Tanks

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
001	<p><u>Storage and Blending Tanks</u> – This emissions unit consists of 95 tanks used to either store or blend organic liquids containing components (such as ethanol and terpenes) and a mixing operation used to prepare customized small batch mixes of citrus oils (prepared in pails and totes) for specialty customers.</p> <p>Pollutants include VOC and HAP emissions which primarily result from working and breathing tank losses. Detailed summaries of these tanks are included in “Appendix E – Tanks Summary”.</p>

#### EQUIPMENT

- A.1. Two Process Tanks: The permittee is authorized to construct two process tank each with a capacity of approximately 640 gallons.  
*{Permitting Note: The process tanks will be used to process citrus oils.}*  
[Application No. 1050409-013-AC]

#### PERFORMANCE RESTRICTIONS

- A.2. Restricted Operation: The hours of operation are not limited (8, 760 hours per year).  
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

#### EMISSIONS STANDARDS

- A.3. VOC Emissions Standard – The allowable emissions for VOC (which includes all tanks and operations listed in “Appendix E – Tanks Summary”) shall not exceed 37.0 tons per any consecutive 12 month period.  
[Application No. 1050409-014-AC]
- A.4. Total HAP Emissions Standard – The allowable emissions for Total HAPs (which includes all tanks and operations listed in “Appendix E – Tanks Summary”) shall not exceed 24.5 tons per any consecutive 12 month period.  
[Application No. 1050409-014-AC]
- A.5. Individual HAP Emissions Standard – The allowable emissions for each Individual HAP (which includes all tanks and operations listed in “Appendix E – Tanks Summary”) shall not exceed 9.5 tons per any consecutive 12 month period.  
[Application No. 1050409-014-AC]

#### NOTIFICATION REQUIREMENTS

- A.6. Notification of Operation Commencement – The permittee shall notify the Compliance Authority in writing of the date of commencing operation of the EU No. 001 after completing the modifications authorized by this permit, no later than fifteen (15) days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.  
[Rules 62-4.070, and 62-210.200, F.A.C., (definition of Commence Operation)]

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### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (FINAL)

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#### A. EU No. 001 – Storage and Blending Tanks

##### RECORDS AND REPORTS

- A.7. VOC and HAP Emissions Recordkeeping – In order to document compliance with the VOC and HAP limitations of Specific Condition Nos. A.3., A.4. and A. 5., the permittee shall maintain the following monthly records:
- Facility Name, Facility ID No. (1050409), Month and Year;
  - The total VOC emissions for the month and for the most recent consecutive 12-month period (in tons);
  - For each Individual HAP, emissions for the month and for the most recent consecutive 12-month period (in tons);
  - The total HAP emissions for the month and for the most recent consecutive 12-month period (in tons).

Supporting calculations and data used to determine VOC and HAP emissions (e.g., material balance spreadsheet, calculations or Tanks Programs Outputs) shall be available for review by the Department upon request. The supporting documentation shall include sufficient information such as emission factors and throughputs to allow verification of the results. If VOC and HAP emission factors are derived from sources other than AP-42, Chapter 7 or the Tanks Program (version 4.0.9d or higher), then the permittee shall submit the proposed emission factors along with emissions calculations to the Air Permitting Section of the Department's Southwest District Office for approval.

Monthly records shall be completed by the end of the following month. All records required in this permit shall be maintained at the facility for a minimum of three years and made available to the Department upon request.

*{Permitting Note: A copy of the emissions unit VOC/HAP emissions calculations spreadsheet (an excel spreadsheet used to calculate emissions) was submitted on 12/05/2011 and 01/23/2012 as additional information. The spreadsheet contains detailed information about the dimensions and configurations of the emissions unit's existing storage and blending tanks. The spreadsheet also contains emissions calculations that are derived from AP-42, Chapter 7 – Liquid Storage Tanks. The permittee generates monthly emissions records by entering monthly individual tank throughput data into the spreadsheet. As new tanks are added, this spreadsheet must be updated (as needed on a monthly basis) to include all new tanks that have started operating. See the Tank Summary in Section 4, Appendix E.}*

[Rule 62-4.070(3) and 62-4.160(14)(b), F.A.C.]