



BASIC AIR CONTAMINANT DISCHARGE PERMIT

Lane Regional Air Protection Agency
1010 Main Street
Springfield, OR 97477
Telephone: (541) 736-1056

This permit is being issued in accordance with the provisions of LRAPA's Rules and Regulations and based on the land use compatibility findings included in the permit record.

ISSUED TO:

Thermo Fisher Scientific
29851 Willow Cr. Rd.
Eugene, OR 97402

INFORMATION RELIED UPON:

Application No.: 66023
Date Received: February 13, 2020

PLANT SITE LOCATION:

Invitrogen/Molecular Probes, Inc.
29851 Willow Cr. Rd./1535 Westec Dr.
Eugene, OR 97402

**LAND USE COMPATIBILITY
STATEMENT:**

Approving Authority: City of Eugene
Approval Date: August 8, 2002

ISSUED BY THE LANE REGIONAL AIR PROTECTION AGENCY

JUL 8 2020

Merlyn L. Hough, Director

Dated

Source(s) Permitted to Discharge Air Contaminants (LRAPA Title 37, Section 37-0020):

Table 1 Code	Source Description	SIC	NAICS
Part A, 8	Sources not elsewhere classified with actual emissions of more than 1 ton/year VOC and/or HAP	2835	325413

1.0 PERMIT ISSUANCE

- 1.1 Permitted Activities** The permittee is allowed to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, revoked or rescinded, as long as the permittee complies with the conditions of this permit. If there are other emissions activities occurring at the site besides those listed on the cover page of this permit, the permittee may be required to obtain a General, Simple or Standard ACDP, if applicable.

2.0 GENERAL EMISSION STANDARDS AND LIMITS

- 2.1 Visible Emissions Limits** The permittee must comply with the following visible emission limits, as applicable: [LRAPA 32-010]
- a. Emissions from any air contaminant source must not equal or exceed 20% opacity for a period or periods aggregating more than three minutes in any one hour.
 - b. Visible emission observations must be recorded at 15-second intervals as specified in LRAPA 32-010(2).
 - c. The visible emissions standard in this condition does not apply to fugitive emissions from the source.
- 2.2 Particulate Matter Emissions** Particulate matter emissions from any air contaminant source, other than fugitive emission sources, must not exceed 0.10 grains per dry standard cubic foot. [LRAPA 32-015(2)]
- 2.3 Fugitive Emissions** The permittee must take reasonable precautions for preventing fugitive dust emissions from becoming a nuisance, such as but not limited to: [LRAPA 48-015]
- a. Treating vehicular traffic areas of the plant site under the control of the permittee.
 - b. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.
 - c. Storing collected materials from air pollution control equipment in a covered container or other method

equally effective in preventing the material from becoming airborne during storage and transfer.

- 2.4 Particulate Matter Fallout** The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. [LRAPA 32-055]
- 2.5 Nuisance and Odors** The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by LRAPA personnel. [LRAPA Title 49]

3.0 RECORDKEEPING REQUIREMENTS

- 3.1 Monitoring Requirements** The permittee must monitor and maintain records of the operation and maintenance of the plant and associated air contaminant control devices as follows: [LRAPA 32-007(1)]
- a. Amount and type of solvent purchased per calendar year (pounds)
 - b. Amount and type of waste solvent generated per calendar year (pounds)
- 3.2 Complaint log** The permittee must maintain a log of all written complaints and complaints received via telephone, fax, or email that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee's actions to investigate the validity of each complaint and a record of actions taken for complaint resolution. [LRAPA 34-016]
- 3.3 Retention of Records** Unless otherwise specified, all records must be maintained on site for a period of five (5) years and must be made available to LRAPA upon request. [LRAPA 34-016(5)]

4.0 REPORTING REQUIREMENTS

- 4.1 Excess Emissions** The permittee must notify LRAPA by telephone or in person of any excess emissions which are of a nature that could endanger public health. [LRAPA 36-020]

- a. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the problem. Notice must be made to the LRAPA office identified in Condition 5.2.
- b. If the excess emissions occur during non-business hours, the permittee must notify LRAPA by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.
- c. The permittee must also submit follow-up reports when required by LRAPA.

4.2 Annual Report

The permittee must submit to LRAPA by **February 15** of each year this permit is in effect, two (2) copies of the following information for the preceding calendar year:
[LRAPA 34-016(2)]

- a. Operating parameters:
 - i. Amount and type of solvent purchased per calendar year (pounds)
 - ii. Amount and type of waste solvent generated per calendar year (pounds)
- b. Summary of complaints relating to air quality received by the permittee during the year.
- c. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.

4.3 Notice of Change of Ownership or Company Name

The permittee must notify LRAPA in writing using a LRAPA "Permit Application Form" within 60 days after the following:

- a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or
- b. Sale or exchange of the activity or facility.

4.4 Construction or Modification Notices

The permittee must notify LRAPA in writing using a LRAPA "Notice of Construction Form," or "Permit Application Form," and obtain approval in accordance with LRAPA 34-010 through 34-038 before:

- a. Constructing or installing any new source of air contaminant emissions, including air pollution control equipment;
- b. Modifying or altering an existing source that may significantly affect the emission of air contaminants;

- c. Making any physical change which increases emissions; or
- d. Changing the method of operation, the process, or the fuel use, or increasing the normal hours of operation that result in increased emissions.

4.5 Where to Send Reports and Notices The reports, with the permit number prominently displayed, must be sent to LRAPA as identified in Condition 5.2.

5.0 ADMINISTRATIVE REQUIREMENTS

5.1 Renewal of the Basic Permit A complete application for renewal of this permit is due within 30 days prior to expiration. [LRAPA 37-0040(2)(b)(A)]

- a. If LRAPA is delinquent in renewing the permit, the existing permit will remain in effect and the permittee must comply with the conditions of the permit until such time that the permit is renewed.
- b. The permittee may submit an application for either a General, Simple or Standard ACDP at any time, but the permittee must continue to comply with the Basic ACDP until LRAPA takes final action on the General, Simple or Standard ACDP application.
- c. If a complete application for renewal of the Basic ACDP or a General, Simple or Standard ACDP application is filed with LRAPA in a timely manner, the permit will not be deemed to expire until final action has been taken on the application.

5.2 LRAPA Address and Contact Number All reports, notices, and applications should be directed to the LRAPA office. The LRAPA address is as follows:

Lane Regional Air Protection Agency
1010 Main Street
Springfield, OR 97477
Telephone: (541) 736-1056

5.3 LRAPA Website Information about air quality permits and LRAPA's regulations may be obtained from the LRAPA web page at www.lrapa.org.

6.0 FEES

6.1 Annual Fees The Annual Fees specified in LRAPA Title 37, Section 37-8020, Table 2, Parts 2 and 3 for a Basic ACDP are due on **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by LRAPA regulations, will be mailed prior to the above date.
[LRAPA 37-0056(2)]

6.2 Where to Submit Fees Fees must be submitted to:
Lane Regional Air Protection Agency
1010 Main Street
Springfield, OR 97477
Telephone: (541) 736-1056

7.0 GENERAL CONDITIONS AND DISCLAIMERS

- 7.1 **Other Regulations** In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by LRAPA.
- 7.2 **Conflicting Conditions** In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.
- 7.3 **Concealment and Masking of Emissions** The permittee must not cause or permit the installation of any device or use any means which, without resulting in a reduction in the total amount of air contaminants emitted, conceals an emission of an air contaminant which otherwise violate LRAPA rules. [LRAPA 32-050(1)]
- The permittee must not cause or permit the installation or use of any device or use of any means designed to mask the emission of an air contaminant which causes or tends to cause detriment to health, safety, or welfare of any person. [LRAPA 32-050(2)]
- 7.4 **LRAPA Access** The permittee must allow LRAPA's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468.095.
- 7.5 **Permit Availability** The permittee must have a copy of the permit available at the facility at all times.
- 7.6 **Outdoor Burning** The permittee may not conduct any outdoor burning except as allowed by LRAPA Title 47.
- 7.7 **Asbestos** The permittee must comply with the asbestos abatement requirements in LRAPA Title 43 for all activities involving asbestos-containing materials, including, but not limited to, demolition, renovation, repair, construction, and maintenance.
- 7.8 **Property Rights** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

**7.9 Termination,
Revocation, or
Modification**

LRAPA may terminate, modify or revoke this permit in accordance with LRAPA Title 37, Section 37-0082 and Section 37-0084.

8.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	NESHAP	National Emissions Standards for Hazardous Air Pollutants
ASTM	American Society for Testing and Materials	NO _x	nitrogen oxides
AQMA	Air Quality Maintenance Area	NSPS	New Source Performance Standard
BDT	Bone Dry Ton	NSR	New Source Review
calendar year	The 12-month period beginning January 1st and ending December 31st	O ₂	oxygen
CFR	Code of Federal Regulations	OAR	Oregon Administrative Rules
CO	carbon monoxide	ORS	Oregon Revised Statutes
CO _{2e}	Carbon Dioxide equivalent	O&M	operation and maintenance
DEQ	Oregon Department of Environmental Quality	Pb	lead
dscf	dry standard cubic foot	PCD	pollution control device
EPA	US Environmental Protection Agency	PM	particulate matter
FCAA	Federal Clean Air Act	PM ₁₀	particulate matter less than 10 microns in size
ft ²	square foot	PM _{2.5}	particulate matter less than 2.5 microns in size
gal	gallon(s)	ppm	part per million
GHG	Greenhouse Gases	PSD	Prevention of Significant Deterioration
gr/dscf	grains per dry standard cubic foot	PSEL	Plant Site Emission Limit
HAP	Hazardous Air Pollutant as defined by LRAPA Title 44	PTE	Potential to Emit
ID	identification number	PCWP	Plywood & Composite Wood Products
I&M	inspection and maintenance	RACT	Reasonably Available Control Technology
lb	pound(s)	scf	standard cubic foot
LRAPA	Lane Regional Air Protection Agency	SER	Significant Emission Rate
MBF	1000 board feet	SIC	Standard Industrial Code
MLF	1000 linear feet	SIP	State Implementation Plan
MMBtu	million British thermal units	SO ₂	sulfur dioxide
MSF	1000 square feet	Special Control Area	As defined in LRAPA Title 29
NA	not applicable	VE	visible emissions
		VOC	volatile organic compound
		year	A period consisting of any 12 consecutive calendar months

Max:rr
6/22/20



Lane Regional Air Protection Agency

**BASIC
 AIR CONTAMINANT DISCHARGE PERMIT
 REVIEW REPORT**

Thermo Fisher Scientific – Invitrogen/Molecular Probes, Inc.
 29851 Willow Cr. Rd/1535 Westec Dr
 Eugene, OR 97402
 541-335-0506

<https://www.thermofisher.com/us/en/home/brands/invitrogen.html>

Reports			NSPS	NESHAP	Public Notice
Annual	Semi-annual	Excess Emissions			
Feb 15	NA	NA	NA	NA	1

1. The proposed permit is a renewal for an existing facility located at 29851 Willow Cr. Rd and 1535 Westec Dr in Eugene, Oregon. The permit renewal is for an existing Basic Air Contaminant Discharge Permit (ACDP) that was issued on April 15, 2010 and was originally scheduled to expire on April 15, 2020.
2. The permittee operates a laboratory that uses solvents and other chemicals to create a range of cell, protein and molecular biology technology products. Much of the used solvent and any unused out-of-specification solvent is collected and shipped offsite as waste.
3. This facility qualifies for a Basic ACDP because the facility's operation is "not elsewhere classified" including that the facility does not have actual emissions of 10 or more tons per year of any single criteria pollutant.
4. The source is located in an attainment area for PM, PM_{2.5}, NO_x, SO₂ and VOC, and a maintenance area for CO and PM₁₀.
5. LRAPA has determined that sources that qualify for a Basic ACDP will not have significant emissions. In most cases, the emissions will not exceed 5 tons of PM or PM₁₀ or 10 tons of any other pollutant. Therefore, the Basic ACDP does not include Plant Site Emission Limits and it is not necessary to estimate emissions for each individual source.
6. Pursuant to LRAPA 37-0056(4), issuance of a new or renewed Basic Air Contaminant Discharge Permit requires public notice in accordance with LRAPA 31-0030(3)(a). Therefore, there will be no prior notice or public participation. However, LRAPA will maintain a list of all permit actions processed under Category I and make the list available for public review.

Max:rr
 07/06/2020

Emission Details

The following table shows the chemicals and amounts of chemicals used during 2019:

Name	CAS Num	2020		Difference* (lbs)
		Brought On-site (lbs)	Shipped as Waste** (lbs)	
1,2-Dichloroethane	107062	32.6	3.00	29.600
1,4-Dioxane	123911	13.75	0	13.750
1-Propanol	71238	16.7	8	8.700
Acetone	67641	889.893	858.875	10.818
Acetonitrile	75058	3524.504	3001.058	523.446
Benzene	71432	0.000	15.000	-15.000
Butyl alcohol	71383	0.000	0.000	0.000
Chloroform	67663	4169.600	8030.000	-4860.400
Dichloromethane	75092	1983.870	3843.000	-1859.130
N,N-Dimethylformamide	68122	193.440	210.000	-16.560
Ethyl acetate	141786	2015.860	2798.000	-782.120
Ethyl alcohol	64175	375.600	655.000	-279.400
Ethyl Ether anhydrous	60297	274.120	203.000	71.120
Heptane	142825	0.000	6.000	-6.000
Hexane	110543	1184.060	2382.000	-1197.940
Isopropyl alcohol	67830	699.150	709.000	-9.850
Methanol	67581	4298.170	7494.000	-3197.830
N-methylpyrrolidone	872504	11.330	1.000	10.330
n-propyl alcohol	71238	16.700	8.000	8.700
Pyridine	110861	26.410	9.000	17.410
Tetrahydrofuran	109999	248.890	162.000	86.890
Toluene	108883	366.536	366.565	-0.029
Triethylamine	121448	19.280	33.000	-13.720
Xylenes	1330207	1.900	22.000	-20.100
				-11497.313 lbs
				-5.7 tons

* In instances, the waste amounts may be higher than what was brought on site due to inventory carried over from the prior year

** In some instances where the waste amount is zero, material is either chemically altered, shipped as product or was not on site for the year.