

# Lane Regional Air Protection Agency Standard Air Contaminant Discharge Permit

# **Review Report**

Costco Wholesale Corporation Permit No. 201304 Costco Fuel Facility (Loc. 17) 2828 Chad Drive Eugene, Oregon 97408 https://www.costco.com/

#### Source Information:

Primary SIC	5541
Secondary SIC	
Primary NAICS	457120
Secondary NAICS	

Source Categories:	Part B: 32.
LRAPA Title 37 Table 1	
	Part C: 4.
Public Notice Category	

## **Compliance and Emissions Monitoring Requirements:**

Unassigned emissions	Ν	
Emissions credits	Ν	
Special Conditions		
Compliance schedule	Ν	

Source test [date(s)]	Biennially
COMS	N
CEMS	N
Ambient monitoring	N

# Reporting Requirements:

Annual report (due date)	Feb 15
Semi-Annual Report (due date)	Ν
SACC (due date)	Ν
GHG Report (due date)	Ν

Monthly report (due date)	Ν
Quarterly report (due dates)	Ν
Excess emissions report	Y
Other report	Ν

#### Air Programs:

NSPS (list subparts)	NA
NESHAP (list subparts)	CCCCCC
40 CFR part 64 Compliance Assurance Monitoring (CAM)	Ν
Regional Haze (RH)	Ν
ТАСТ	Ν
40 CFR part 68 Risk Management	Ν
Cleaner Air Oregon (CAO)	Ν
Synthetic Minor (SM)	Ν
SM-80	Ν

Title V	Ν
Major FHAP Source	Ν
Federal Major Source	Ν
Type A State New Source Review	Ν
Type B State New Source Review	Ν
Prevention of Significant Deterioration (PSD)	Ν
Nonattainment New Source Review (NNSR)	Ν

# Permittee Identification

- 1. Costco Wholesale Corporation Costco Fuel Facility (Loc. 17) ("Costco", "facility" or "source") operates a gasoline dispensing facility at 2828 Chad Drive, Eugene, Oregon.
- The facility operates under the primary Standard Industrial Classification (SIC) code of 5541 Gasoline Service Stations and the primary North American Industry Classification System (NAICS) code of 457120 – Other Gasoline Stations.

## **General Background Information**

3. Costco Wholesale Corporation has operated a gasoline dispensing facility (GDF) at this location since 2000. The facility's GDF has three (3) 30,000-gallon dual-point underground gasoline storage tanks (UST) with twelve (12) Gilbarco Encore 700S Series NG4 two-product dispensers. The facility is limited by the permit to dispensing no more than 39,900,000 gallons of gasoline in each 12-month rolling period. The facility has reported dispensing approximately 14,000,000 gallons per year for the past several reporting years. The facility has a stage I dual-point vapor balance system on the USTs. Stage II vapor collection system on the dispensers are not required in Eugene.

## **Reasons for Permit Action and Fee Basis**

4. This permit is a renewal for an existing Standard Air Contaminant Discharge Permit (ACDP) which was issued on December 20<sup>th</sup>, 2022 and was originally scheduled to expire on January 3<sup>rd</sup>, 2025.

## Attainment Status

5. The facility is located inside the Eugene-Springfield Air Quality Management Area. The facility is located in an area that has been designated attainment/unclassified for PM<sub>2.5</sub>, ozone (VOC), NO<sub>2</sub>, SO<sub>2</sub>, and Pb and a maintenance area for CO and PM<sub>10</sub>. The facility is located within 100 kilometers (km) of three (3) Class I air quality protection areas: Diamond Peak Wilderness, Mount Washington Wilderness, and Three Sisters Wilderness area.

#### Permitting History

6. LRAPA has reviewed and issued the following permitting actions to this facility:

Date Reviewed/ Approved	Permit Action Type	Description		
03/03/2010	Initial application to be assigned to the General ACDP	Initial application was submitted to LRAPA for a GDF General ACDP.		
08/30/2010	Initial Assignment to the General ACDP	Issuance of Initial Assignment to the GDF General ACDP.		
08/20/2013	Notice of Intent to Construct	Expansion of the GDF to add two (2) additional dispensers and extend underground product lines.		
03/27/2015	Notice of Intent to Construct	Decommissioned stage II Vapor Recovery System.		
04/27/2016	Re-assignment application for General ACDP	Application to be re-assigned to the 4/11/16 revised/reissued General ACDP AQGP-022.		
09/07/2016	Notice of Intent to Construct	Removed and replace twelve (12) existing dispensers.		

Date Reviewed/ Approved	Permit Action Type	Description		
09/08/2017	Notice of Intent to Construct	Remove and replace two-product dispensers; replace hoses nozzles, and breakaway valves, replaced siphon line; and relocate one (1) tank turbine sump and remove one (1) existing turbine pump.		
08/20/2019	Simple ACDP Application	Application to use different EFs than allowed/used in the General ACDP AQGP-022 and associated throughput increase request (there is no physical change occurring).		
01/03/2020	New Simple ACDP	New Simple ACDP that incorporated EFs that were different than the EFs in the General ACDP AQGP-022, along with associated throughput increase. Established a 01/03/2025 expiration date.		
09/30/2020	Simple ACDP, Addendum No. 1	LRAPA initiated modification to update emission factors (EFs) to the amended DEQ EFs for gasoline dispensing facilities (GDF). The updated EFs Costco accepted resulted in a reduction in the allowable throughput from 29,400,000 gallons per year to 16,250,000 gallons per year to stay on the Simple ACDP.		
12/20/2022	New Standard ACDP	An annual throughput limit revision that increased the annual emissions rate of VOC over the SER threshold of 40 tons per year and changed the permit type.		
Upon Issuance	Standard ACDP	Renewal		

# Emission Units Description

7. The emission units regulated by the permit are the following:

EU ID	Emission Units Description	Control Device Description	Installed/Last modified
EU-1	Three (3) – Dual-Point Gasoline Underground Storage Tanks (USTs – 30,000 gallons each) with 12 Dispensers	Vapor Balance System (stage I) on USTs	2017

# **Production Limits**

8. The facility is required to limit gasoline throughput to no more than 39,900,000 gallons of gasoline for any 12 consecutive calendar month period.

# **Specific Emission Limitations**

- 9. Basis for Emission Factors (EF):
  - 9.a. VOC Emission Basis:

The gasoline VOC emission factors (EFs) are based on EPA AP-42: *Compilation of Air Emission Factors*, Chapter 5, Table 5.2-7 for balance submerge filling (Loading and Filling) and the underground tank breathing and emptying (Breathing and Emptying). These are the same EFs applied in LRAPA's current General ACDP (AQGP-022).

The VOC EF for Vehicle Refueling with onboard refueling vapor recovery (ORVR) control is based on information from two documents. One part of the EF calculation comes from the California Air Resource Board (CARB), *Revised Emission Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities*, December 23, 2013, Table I-I, Revised (lb/kgal) Pre-EVR for Non-ORVR and ORVR Vehicles. Costco used 2.4 lb/kgal for Non-ORVR vehicles and 0.12 lb/kgal for ORVR vehicles as the base factors for their calculations. The second part of the EF calculations comes from Table I: 2014 Estimated ORVR fleet penetration: total vehicles vs. ORVR vehicles from Oregon DEQ, *2014 Oregon Gasoline Dispensing Facility (GDF) Volatile Organic Compound (VOC) Emissions Estimates and GDF Vapor Recovery System (VRS) Impact Evaluation*, June 14, 2018. Costco then multiplied the CARB factors by the percentage of ORVR and Non-ORVR vehicles within Lane County. The DMV ORVR fleet penetration estimates from 2014 were 65% for ORVR and 35% for Non-ORVR vehicles. Taking the base factors from CARB and multiplying them by the ORVR and Non-ORVR fleet percentages, Costco derived the EF of 0.918 lb/kgal for Vehicle Refueling.

The VOC EF for Hose Permeation and Liquid Spillage were taken from CARB, *Revised Emission Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities*, December 23, 2013, Table I-I, using Pre-EVR data Year 2017.

9.b. HAPs Emissions Basis:

The most significant HAPs emitted from a GDF are benzene, toluene, ethyl benzene, and xylene (BTEX). Emission factors for these HAPs are based on information from the California Air Pollution Control Officers Association (CAPCOA), CAPCOA Air Toxics "Hot Spots" Program, Gasoline Service Station Industrywide Risk Assessment Guideline, November 1997. Based on the CAPCOA information the HAP emissions at a GDF primarily result from the USTs, considered as vapor or from spillage when vehicles are refueling, considered as liquid. CAPCOA defines vapor in the UST as headspace. CAPCOA assumes that approximately 30% of the vapor in the headspace is considered to be volatized gasoline and the remaining 70% is air. Benzene is the only HAP that CAPCOA has documented as a percent weight in the vapor. An EF of 0.3 percent by weight benzene is used calculate the amount of HAPs emitted when a UST is being filling/loading, breathing/emptying, vehicle refueling, and hose permeation. CAPCOA defines liquid as the spillage of gasoline when vehicles are refueling. To calculate the HAPs emitted from the liquid, CAPCOA utilizes the percent of each component of BTEX in gasoline and assumes that percentage is emitted. Using the amount of VOC emitted from "Liguid Spillage" and using the EFs for each of the four HAPs, a conservative HAPs total for liquid is derived. The total Aggregate HAP emitted from both vapor and liquid equals 1.84 tons per year and is over the Aggregate HAP de minimis level as defined in LRAPA title 12.

# **Performance Standards**

10. The facility must follow all operational, maintenance, and work practice requirements to reduce emissions from the gasoline underground storage tanks (USTs) and the gasoline dispensers. The facility must operate and maintain the affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices. This includes minimizing spills, no topping off or overfilling vehicle tanks, covering all storage tank fill-pipes with gasketed seals and all gasoline containers when not in use, ensuring that all cargo tanks that unload at the facility are equipped with proper and functioning vapor balance

system and is connected correctly and comply with all applicable work practices and have a valid annual certification for vapor tightness.

## Equipment Changes

11. The facility's GDF has three (3) 30,000-gallon dual-point underground gasoline storage tanks. Under OAR 340-244-0243, the facility is required to install an Enhanced Vapor Recovery system on each dual-point gasoline storage tank by no later than December 31, 2029. The requirements for Enhanced Vapor Recovery systems are included in Conditions 30 – 37 of the permit.

# Typically Achievable Control Technology (TACT)

12. LRAPA 32-008 requires an existing emission unit at a source to meet TACT if the emissions unit has emissions of criteria pollutants greater than ten (10) tons per year of any gaseous pollutant or five (5) tons per year of particulate, the emissions unit is not subject to the emissions standards under LRAPA Title 30, Title 32, Title 33, Title 38, Title 39, or Title 46 for the pollutants emitted, and the source is required to have a permit. EU-1 has emissions of greater than 10 tons per year. While LRAPA has not conducted a formal TACT analysis, Costco is likely meeting TACT by installing and operating Stage I vapor recovery systems for underground storage tanks (USTs) used to dispense gasoline.

# Plant Site Emissions Limits (PSELs)

13. Provided below is a summary of the baseline emission rate, netting basis, plant site emission limit, and potential-to-emit:

Pollutant			g Basis	Plant Site Emission Limit (PSEL)		
	Emission Rate (TPY)	Previous (TPY)	Proposed (TPY)	Previous PSEL (TPY)	Proposed PSEL (TPY)	PTE (TPY)
PM	NA	0	0	0	0	0
PM10	NA	0	0	0	0	0
PM <sub>2.5</sub>	NA	0	0	0	0	0
СО	NA	0	0	0	0	0
NOx	NA	0	0	0	0	0
SO <sub>2</sub>	NA	0	0	0	0	0
VOC	NA	0	0	99	98	97.79
HAP (Individual)	NA	0	0	9	1	0.97
HAP (Aggregate)	NA	0	0	24	2	1.84
GHG	NA	0	0	0	0	0

13.a. The facility has no baseline emission rates for PM, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC because the facility was not in operation during the 1978 baseline year. A baseline emission rate is not established for PM<sub>2.5</sub> in accordance with LRAPA 42-0048(3). The facility has no baseline for GHGs because the facility had no GHG emissions during any consecutive 12 calendar month period during calendar years 2000 through 2010.

- 13.b. The netting basis for all pollutants is set at zero because the facility was constructed after the 1978 baseline year and the facility has not had any emission increases approved for any of the reasons listed under LRAPA 42-0046(3)(e).
- 13.c. The PSELs were established based upon the following:
  - i. No PSELs were established for PM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, and GHGs because these pollutants are not emitted by a GDF.
  - ii. The PSELs for VOC and HAPs were reset to the potential emission rate from the significant emissions units as required by subsection 42-0041(3). The previous PSEL for VOC and HAPs were based on Generic PSELs that are no longer allowed by rule.

## Significant Emission Rate Analysis

14. The PSEL increase over the netting basis is less than the Significant Emission Rate (SER) as defined in LRAPA title 12 for all pollutants except for VOC as shown in the following table.

Pollutant	Proposed PSEL (TPY)	PSEL Increase Over Netting Basis (TPY)	PSEL Increase Due to Utilizing Existing Baseline Period Capacity (TPY)	PSEL Increase Due to Modification (TPY)	SER (TPY)
PM	NA	NA	NA	NA	25
PM10	NA	NA	NA	NA	15
PM <sub>2.5</sub>	NA	NA	NA	NA	10
СО	NA	NA	NA	NA	100
NOx	NA	NA	NA	NA	40
SO <sub>2</sub>	NA	NA	NA	NA	40
VOC	98	98	0	0	40
GHGs	NA	NA	NA	NA	75,000

#### New Source Review (NSR) and Prevention of Significant Deterioration (PSD)

15. The source is located in an area that is designated attainment or unclassified for all regulated pollutants other than CO and PM<sub>10</sub>. For pollutants other than CO and PM<sub>10</sub>, the proposed PSELs are less than the federal major source threshold for non-listed sources of 250 tons per year regulated pollutant and are not subject to Major NSR. For CO and PM<sub>10</sub>, the source is located in a maintenance area. Because there are no CO or PM<sub>10</sub> emissions emitted from the source no applicability determination needs to be made for Major NSR in a maintenance area.

#### Type A and Type B State NSR.

16. For regulated pollutants other than VOCs, the proposed modification will not have emissions per regulated pollutant equal to or greater than the SER over the netting basis that would require Type A or B State NSR. For VOCs, emissions of VOCs increased to an amount that is equal to or greater than the SER over the netting basis. Because the source is located in an area that is attainment for ozone, VOCs are subject to Type B State NSR.

- 17. Within an attainment or unclassified area, a source subject to Type B State NSR must:
  - 17.a. Determine compliance with the NAAQS, PSD increments, and other requirements in PSD Class II and Class III areas under LRAPA 40-0050(1)&(2), as applicable.
  - 17.b. Since this facility will emit ozone precursors (VOC or NO<sub>X</sub>) at or above the SER over the netting basis and the facility is located within 100 km of the Salem-Keizer ozone maintenance area, this project must also meet the requirements for demonstrating net air quality benefit under LRAPA 38-0510 and 38-0520.

#### Air Quality Analysis

- 18. Under LRAPA 40-0050(1), a facility must demonstrate compliance with the NAAQS, PSD increments, and other requirements in PSD Class II areas. LRAPA has performed a single source impact analysis as described below to demonstrate the proposed modification at the facility will not cause or contribute to a new violation of a NAAQS and PSD increment. This single source impact analysis is sufficient to show compliance if the modeled impact from emission increases equal to or greater than a SER above the netting basis due to the proposed modification being evaluated is less than any applicable Class II significant impact levels (SIL) specified in LRAPA title 12, Table 1. The use of the SIL by itself satisfies LRAPA 40-0050(1)(b) because the background ozone concentrations in Lane County are more than the SIL below the applicable NAAQS and the formation of ozone does not result in concentration gradients in the vicinity of the source. In addition, based on the results of the single-source impact analysis, LRAPA has determined that the facility will not have a material effect on the Salem-Keizer ozone maintenance area under LRAPA 38-0520(2)(b).
- 19. The United States Environmental Protection Agency (U.S. EPA) established a two-tiered approach for addressing impacts of single-source emissions on ozone ( $O_3$ ). The first tier involves the use of appropriate and technically credible relationships between emissions and ambient impacts. The second tier involves use of chemical transport modeling to obtain single-source impacts. In December 2016, U.S. EPA published a draft document, "Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tools for Ozone and PM<sub>2.5</sub> under the PSD Permitting Program". The term MERP is used to describe an emission rate of a precursor that is expected to result in a change in ambient O<sub>3</sub> or PM<sub>2.5</sub> concentration that would not cause or contribute to a violation of the NAAQS. Separate MERPs are developed for each precursor and each pollutant. Projected increases in the O<sub>3</sub> precursor pollutants NO<sub>x</sub> and VOC that are below the MERP are part of a demonstration that the facility will not cause or contribute to violation of the O<sub>3</sub> NAAQS. Based upon the guidance, the most conservative, or lowest, MERPs from the Western US were used to determine whether the proposed emissions from the facility would cause or contribute to a violation of the NAAQS for ozone. Using the modeled concentration for the minimum MERP source in the Western US, an emission rate equivalent to a 1.0 parts per billion (ppb) impact was computed for NOx and VOC. The facility's pollutant emissions are below these MERPs, but the contributions should be considered together to determine if the facility would cause or contribute to a violation of the NAAQS for ozone. The ratio of emissions to the MERP for each precursor were calculated and then added together. Since the sum of the ratio is not above 1.0 ppb, as shown below, the combined impact of NO<sub>x</sub> and VOC emissions from this facility will not cause or contribute to a violation of the NAAQS for ozone.

Precursor	Western US MERP (tons)	Hypothetical Emissions (TPY)	Associated Modeled Concentratio n (ppb)	Costco Emissions (TPY)	Ratio Costco/ MERP (ppb)	Ozone SIL (ppb)
VOC	1053	1000	0.95	98	0.093	
NOx	184	500	2.72	0	0.0	
				Total =	0.093	1.0

Precursor	Western US MERP (tons)	Hypothetical Emissions (TPY)	Associated Modeled Concentratio n (ppb)	Costco Emissions (TPY)	Ratio Costco/ MERP (ppb)	Ozone SIL (ppb)
Calculation: Costco O <sub>3</sub> c		(0/500 * 2.72 ppb)	+ (98/1000 * 0.95	5 ppb) = 0.093 p	opb < 1.0 ppb C	0₃ SIL

## Federal Hazardous Air Pollutants/Toxics Air Contaminants

- 20. Under Cleaner Air Oregon (CAO) program, only existing sources that have been notified by LRAPA and new sources are required to perform risk assessments. Costco has not been notified by LRAPA and is therefore, not yet required to perform a risk assessment or report annual emissions of toxic air contaminants. The facility is considered an "existing source" under the definition in CAO program (OAR 340 division 245) since it was constructed prior to November 16, 2018. It is not a "reconstructed source" nor has it installed any "new Toxic Emission Unit (TEUs)" with this permit action.
- 21. LRAPA required reporting of approximately 600 toxic air contaminants in 2023 and regulates approximately 260 toxic air contaminants (TAC) that have Risk Based Concentrations established in rule. All FHAPs are on the list of approximately 600 TACs. The FHAPs and TACs listed below are based upon safety data sheets and standard emission factors for the types of emission units at this facility. After the source is notified by LRAPA, they must update their inventory and perform a risk assessment to see if they must reduce risk from their TACs. Until then, this source will be required to report TAC emissions triennially.

CAS Number	Pollutant	PTE (tpy)	FHAP	CAO TAC
71-43-2	Benzene	0.38	Yes	Yes
100-41-4	Ethyl benzene	0.20	Yes	Yes
108-88-3	Toluene	0.97	Yes	Yes
1330-20-7	Xylenes	0.29	Yes	Yes
Total	(tpy)	1.84	1.84	1.84

# National Emission Standards for Hazardous Air Pollutants (NESHAP)

- 22. 40 CFR part 63 subpart CCCCCC National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities has not been adopted by LRAPA. Under LRAPA 37-0066(3)(a), a Standard ACDP excludes federal requirements not adopted by the LRAPA Board of Directors. The 40 CFR part 63 subpart CCCCCC requirements are applicable to Costco because the facility is located at an area source of HAP and has a monthly throughput of 100,000 gallons of gasoline or more.
- 23. The 40 CFR part 63 subpart CCCCCC requirements that are applicable to the GDF are identified in the following table:

40 CFR 63 Subpart 6C Citation	Description	Applicable to Source (Yes/No)	Comments	Permit Condition
63.11110	Purpose	Yes	None	

40 CFR 63 Subpart 6C Citation	Description	Applicable to Source (Yes/No)	Comments	Permit Condition
63.11111	Applicability	Yes	The facility is a GDF and has a monthly throughput of more than 100,000 gallons per month	
63.11112	Emission sources covered	Yes	Applies to the facility's gasoline storage tanks and associated equipment components	
63.11113	Compliance dates	Yes	The compliance date for an existing source is not later than January 10, 2011	
63.11115	General duties	Yes	None	
63.11116	Requirements: <10,000 gallons per month	Yes	The facility must follow the requirements	
63.11117	Requirements: ≥10,000 gallons per month	Yes	The facility must follow the requirements	
63.11118	Requirements: ≥100,000 gallons per month	Yes	The facility must follow the requirements	
63.11120	Testing and Monitoring Requirements	Yes	The facility must test every 3 years	
63.11124	Notifications	Yes	The facility must notify by stated dates	
63.11125	Recordkeeping requirements	Yes	The facility must keep all applicable records	
63.11126	Reporting requirements	Yes	The facility must submit all applicable records	
63.11130	General provisions	Yes	None	
63.11131	Implementation and enforcement	Yes	None	
63.11132	Definitions	Yes	None	

# Notification Requirements Under 340-244-0251

- 24. According to OAR 340-244-0251(4)(c) a permittee that owns or operates a GDF who has already submitted a Notification of Compliance Status does not need to submit an additional Notification of Compliance Status unless requested to do so, in writing, by LRAPA. [OAR 340-244-0251(4)(c)]
- 25. Costco has supplied LRAPA with the following Notifications:
  - 25.a. Initial Notification was submitted on October 14, 2010.
  - 25.b. Notification of Compliance Status was submitted on January 31, 2011.
  - 25.c. Notification of Performance Test was submitted on July 20, 2012.

# New Source Performance Standards (NSPS)

26. There are no sources at this facility for which NSPS are applicable.

## Toxic Release Inventory

- 27. The Toxics Release Inventory (TRI) is a federal program that tracks the management of certain toxic chemicals that may pose a threat to human health and the environment. It is a resource for learning about toxic chemical releases and pollution prevention activities reported by certain industrial facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) created the TRI Program. In general, chemicals covered by the TRI Program are those that cause:
  - Cancer or other chronic human health effects;
  - Significant adverse acute human health effects; or
  - Significant adverse environmental effects.

There are currently over 650 chemicals covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual TRI reports on each chemical. NOTE: The TRI Program is a federal program over which LRAPA has no regulatory authority. LRAPA does not guarantee the accuracy of any information copied from EPA's TRI website.

In order to report emissions to the TRI program, a facility must operate under a reportable NAICS code, meet a minimum employee threshold, and manufacture, process, or otherwise use chemicals in excess of the applicable reporting threshold for the chemical.

Costco's NAICS code does not fall under a reportable NAICS code and thus the facility has not reported any emissions to the TRI program.

#### **Compliance History**

28. Compliance history for the facility:

Date of Complaint	Type of Complaint	Investigation Results
03/11/2010	Topping off	LRAPA followed up with the manager of Costco and no violation was issued.

## Performance Testing

- 29. Prior to this permitting action, the facility was required to conduct a PV Vent Valve Test and a Pressure Test triennially (every three years). Testing requirements for the facility have been updated following rule changes to OAR 340-244, effective 03/25/2024. The facility is now required to perform biennial (every 2 years) performance testing on the Stage I Vapor Balance System. The three (3) required tests are as follows:
  - PV Vent Valve Test: CARB Vapor Recovery TP-201.1E 'Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves' OR TP-201.1E Alternate version (August 5, 2005)
  - 29.b. Pressure Test: CARB Vapor Recovery TP-201.3 'Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities' OR Bay Area Air Quality Management District Source Test Procedure ST-30 'Static Pressure Integrity Test — Underground Storage Tanks'
  - 29.c. Leak Rate of Drop Tube Test: CARB Vapor Recovery TP-201.1C 'Leak Rate of Drop Tube/Drain Valve Assembly' OR CARB Vapor Recovery TP-201.1D 'Leak Rate of Drop Tube Overfill Prevention Devices and Spill Container Drain Valves'

- 30. Performance testing notification must be submitted sixty (60) days prior to the performance test and all test results must be submitted within thirty (30) days of the completion of the performance testing.
- 31. Testing history for the facility:

Date	TP-201.1E	Pass/Fail	TP-201.3	Pass/Fail
6/20/2024	No	NA	Yes	Pass
07/19/2022	Yes	Pass	No	NA
07/28/2021	No	NA	Yes	Pass
08/15/2019	Yes	Pass	No	N/A
07/09/2019	Yes	Fail	No	N/A
07/10/2018	No	N/A	Yes	Pass
07/13/2016	Yes	Pass	No	N/A
07/08/2015	No	N/A	Yes	Pass
07/11/2012	No	N/A	Yes	Pass
07/09/2008	No	N/A	Yes	Pass

## Recordkeeping Requirements

- 32. The facility is required to keep and maintain all records of the following information for a period of at least five (5) years and have available within 24 hours of a request from LRAPA or the EPA Administrator:
  - 32.a. Monthly and annual calculated PSEL emissions;
  - 32.b. Records of all tests performed;
  - 32.c. Records related to the operation and maintenance of all equipment in gasoline service;
  - 32.d. Records of total throughput volume of gasoline in gallons;
  - 32.e. Records of permanent changes made at the GDF and equipment in gasoline service which may affect emissions;
  - 32.f. Records of the occurrence and duration of each malfunction of operation;
  - 32.g. Records of actions taken during periods of malfunction to minimize emissions;
  - 32.h. Documentation from the equipment manufacturer, a service provider, or other similar documentation which demonstrates that each submerged fill tube is a compliant length;
  - 32.i. A copy of the written plan for cleanup of spills;
  - 32.j. Record of vapor tightness testing;
  - 32.k. Records for Enhanced Vapor Recovery system as specified within Table 2 of OAR 340-244-0246;
  - 32.I. Log of each nuisance complaint and the resolution;
  - 32.m. Excess Emissions log of all planned and unplanned excess emissions;

# **Reporting Requirements**

- 33. The facility is required to submit an annual report to LRAPA by February 15<sup>th</sup> of each year that includes the following information:
  - 33.a. Monthly and annual calculated PSEL emissions;
  - 33.b. Total monthly and annual throughput of gasoline in gallons;

- 33.c. A summary of changes made at the GDF on any equipment in gasoline or vapor service which may affect emissions;
- 33.d. List of all major maintenance performed on pollution control devices and equipment in gasoline service;
- 33.e. The number, duration, and a brief description of each malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded;
- 33.f. A description of actions taken by the owner or operator of a GDF during a malfunction to minimize emissions;
- 33.g. A log of all planned and unplanned excess emissions.
- 34. The permittee is required to submit to LRAPA notification of performance tests at least 60 days prior to initiating testing, and must report the results to LRAPA within 30 days of the completion of the performance testing.
- 35. The permittee is required to submit additional notifications specified in 40 C.F.R. 63.9, as applicable.

# Public Notice

36. Pursuant to paragraph 37-0064(4)(a), issuance of a renewed Standard Air Contaminant Discharge Permit requires a Category III public notice according to title 31. In accordance with paragraph 31-0030(3)(c), LRAPA will provide public notice of the proposed permit action and a minimum of 35 days for interested persons to submit written comments.

The proposed permit was on public notice from March 20, 2025 to April 25, 2025. No written comments were submitted during the 35-day comment period.

AD/aa 4/29/2025

# ABBREVIATIONS, ACRONYMS, AND DEFINITION

ACDP	Air Contaminant Discharge Permit	NA	Not applicable
Annual	Amount of gasoline transferred into	NESHAP	National Emissions Standards for
Throughput	a gasoline dispensing facility during		Hazardous Air Pollutants
	12 consecutive months.	NSR	New Source Review
ASTM	American Society for Testing and	O <sub>2</sub>	Oxygen
	Materials	OAR	Oregon Administrative Rules
AQMA	Air Quality Maintenance Area	ORS	Oregon Revised Statutes
Bbl	Barrel (42 gallons)	O&M	Operation and Maintenance
CARB	California Air Resource Board	PCD	Pollution Control Device
Calendar	The 12-month period beginning	ppm	Part per million
year	January 1 <sup>st</sup> and ending December	ppmv	Part per million by volume
	31 <sup>st</sup>	PSD	Prevention of Significant
CFR	Code of Federal Regulation		Deterioration
DEQ	Oregon Department of	PSEL	Plant Site Emission Limit
	Environmental Quality	PTE	Potential to Emit
dscf	Dry Standard Cubic Foot	PV	Pressure/Vacuum
EF	Emission Factor	scf	Standard Cubic Foot
EPA	US Environmental Protection	SER	Significant Emission Rate
	Agency	SERP	Source Emission Reduction Plan
FCAA	Federal Clean Air Act	SIC	Standard Industrial Code
Gal	gallons	TP	Throughput
GDF	Gasoline Dispensing Facility	VE	Visible Emissions
HAP	Hazardous Air Pollutant as defined	VOC	Volatile Organic Compound
	by Section LRAPA 44-0020	Year	A period consisting of any 12-
ID	Identification number		consecutive calendar months
I&M	Inspection and Maintenance		
kgal	1,000 gallons		
lb	Pounds		
lb/kgal	Pounds per 1,000 gallons		

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# Calculations Sheets:

# TOTAL VOC

Emission Source	Maximum Potential Throughput	Conversation Factor kgals	VOC Emission	VOC En	VOC Emissons	
	(gallons per/year)	Factor Rgais	Factor	lb/year	tons/year	
Loading and Filling <sup>(1)</sup>	39,900,000	0.001	0.34	13,566	6.78	
Breathing and Emptying <sup>(1)</sup>	39,900,000	0.001	0.09	3 <mark>,</mark> 591	1.80	
Vehicle Refueling (ORVR Controlled) <sup>(2)</sup>	39,900,000	0.001	3.800	151,620	75.81	
Hose Permeation (2017) <sup>(3)</sup>	39,900,000	0.001	0.062	2,474	1.24	
Total Vapor Loss (Subtotal)	39,900,000	0.001	4.292	171,251	85.63	
Liquid Spillage <sup>(4)</sup>	39,900,000	0.001	0.61	24,339	12.17	
Total Emitted VOC			4.902	195,590	97.79	
References:						
1. Emission factors are based on AP-42,	Table 5.2-7					
2. Using March 2020 DEQ Emission Fact	ors in the GDF Public No	otice General ACDF	and Lane Regio	onal Emissio	n Factors	
for Onboard Refueling Vapor Recovery (	ORVR) Control: Assumin	g 35% Non-ORVR	and 65% ORVR	based on La	ne County	
Data from Oregon DEQ, 2014 Oregon Ga	asoline Dispensing Facili	t <mark>y (</mark> GDF) Volatile C	rganic Compou	nd (VOC) En	nissions	
Estimates and GDF Vapor Recovery System	em (VRS) Impact Evaluat	tion, June 14, 2018	3, Table 1: Per L	RAPA, the re	efueling	
ORVR penetration rate of 65%. Hence, a	t 65% ORVR vehicles, th	e resulting emissio	n factor for Fue	ling with OF	RVR	
Control = (10.36 x 35%) + (0.21 x 65%) =	0.918 lb/k-gallons. htt	ps://ww3.arb.ca.go	ov/vapor/gdf-			
3. Source: CARB 2013 data. Table 1-1: U	ncontrolled Emission Fa	ctor is used, thoug	h it is the same	as Pre-EVR	and EVR	
emission factors. Year 2013 row data is	used as it is A) More cor	servative, and B) t	here have been	no regulato	ry	
changes to dispensing hose requirement	s in Oregon. CARB estat	lished Hose Perme	eation standard	s 7/26/2012	2. 2017 EF	
@ 0.009 demonstrates a reduction in er	nissions from hose perm	neation as a result	of the standard	s.		
https://ww3.arb.ca.gov/vapor/gdf-emist	actor/gdfumbrella.pdf					
4. CARB, Revised Emission Factors for Ga	soline Marketing Opera	tions at Gasoline [	Dispensing Facil	ities, Table I	-I Phase II	
Fueling - Spillage (Pre-EVR): https://ww	2 arb as goulusportadf	and of a star / a dfunal				

# HAPs

zene ylbenzene	0.003	0.0100	513.75	243.39	757.14	0.00
-	0.000			243.35	/5/.14	0.38
2	0.000	0.0164	0.00	399.16	399.16	0.20
uene <sup>2</sup>	0.000	0.0800	0.00	1947.12	1947.12	0.97
enes	0.000	0.0240	0.00	584.14	584.14	0.29
issions Factors	0.003	0.1304				
al HAP					3687.56	1.84
HAP Ratio						
	07.70					
-						
Vidual IIAL LIIII3310113	0.57					
al VOC Emissions gregate HAP Emissions gregate HAP Ratio* ividual HAP Emissions	97.79 1.84 0.01885 0.97					