

TEMPLETON AREA ADVISORY GROUP (TAAG)  
Minutes of the Board Meeting  
Thursday March 16, 2023 6:30 pm

Minutes submitted by Doris Diel

2022-2023 TAAG BOARD MEMBERS

Scott Shirley, Delegate/Chair  
Murray Powell, Delegate/Vice Chair, Treasurer  
Doris Diel, Delegate/Secretary  
John Donovan, Delegate  
Jerry Jones, Delegate  
Scott Silveira, Delegate

1. Call to order

Meeting called to order at 6:36

2. PLEDGE OF ALLIGIANCE

3. ROLL CALL

Scott Shirley, Delegate/Chair	present
Murray Powell, Delegate, Vice Chair, Treasurer.	present
Doris Diel, Delegate/Secretary	present
Jerry Jones, Delegate	present
Scott Silveira, Delegate	present
John Donovan, Delegate	not present

4. SEATING OF NEWLY ELECTED TAAG BOARD DELEGATES

Scott Silveira (incumbent)  
John Donovan (incumbent)  
Fred Russell

5. ELECTION OF TAAG BOARD OFFICERS

Motion made and seconded that officers will remain in positions they currently occupy

6. APPOINTMENT OF FIRST ALTERNATE TAAG DELEGATE BOARD MEMBER

Bruce Jones was appointed as Alternate TAAG Delegate with unanimous vote.

## 7. AGENCY REPORTS

Sheriff's office no report

Highway Patrol. Lieutenant Stewart gave report.

Supervisory District One: Supervisor Peschong reported on planned road improvements and informed the board that the emergency communication center would be completed prior to road improvement on Main St. and Hwy 101 intersection. Supervisor Peschong: Homelessness is a priority for the county and that includes drug rehabilitation and mental illness. Safe Parking location near sheriff's office is closing due to drug problems and related deaths from Fentanyl. Public works are repairing storm damage and potholes. Federal funds are being used to repair storm damage.

Working on Harvest Host program to allow people to park on some properties for free.

Supervisory District Five: No report

County Planning Department. Eric Tolle reporting: March 23 planning commission hearing case continued off calendar and will be referred to TAAG later. Project is a 5,000 sq ft home with stables and 4+ acres of disturbance.

Templeton Community Services District no report

## 8. PUBLIC COMMENT

None

## 9. CONSENT AGENDA

Minutes from February 16, 2023 board meeting were approved.

Treasurer report was approved

## 10. NEW BUSINESS

10.1 Rick Murphy from SLOGOG gave a presentation on the Regional Transportation Plan which is updated every 4 years. Long range plan includes policies, financial, action and goal for a sustainable community strategy which includes improving public safety, fostering livable, healthy communities and protecting the environment.

10.2 MINOR USE Permit for EAST BENNET VILLAGE: DRC2021-00102

Presentation given by Lacy Zubak and Jamie Jones from Kirk Consulting. They spoke about the signage, the 8 gas pumps, the carwash, the Quick Service Restaurant (QSR), and the 20,000 gallon underground storage tank. The 500 ft. setback distances from residential buildings, the environmental review, and health risk assessment were discussed. There will be a reduction in

parking spaces to 45 spaces. They stated that the project complies with Templeton Design Plan, but that was questioned by board members.

Presenters defended plan and stated the intent of the project is to limit noise and lights to residential area and that is why QSR speakers and lights are directed away from residential. All structures are now 500 ft. from residential buildings.

Directional signage should aid in flow of traffic, but the fact that Duncan does not allow access to HWY101 may cause confusion for drivers exiting the project. It was suggested that egress not rely on Duncan, but Eric Tolle mentioned that two access points is preferred for emergency vehicles.

Joe Jarboe, resident, neighbor: Crazy that this project is even proposed. The 2 drive thrus are within 500 ft. of residential. Did anyone even read that drive thru should be 500 ft. from residential? Next issue is signage: 1200 sq ft of signage is proposed and that is 5 times what is allowed in Templeton Design Plan. The plan is specifically worded to prevent exactly this type of project.

Scott Shirley: The Health Risk Assessment which was conducted to assess cancer risk from Toxic Air Contaminants relied on wind direction data at the Paso Robles Airport. The HRA is not based on actual measurements of TACs. The HRA was not required of the applicant, but was furnished voluntarily after TAAG requested it at their January 20, 2022 Board meeting. The applicant's agent mentioned that the results are reassuring because the report showed levels within the acceptable limits of cancer risk.

Tyler Willis, resident, neighbor, is strongly opposed to the project. In addition to what Joe Jarboe spoke about, he has concerns about the cumulative effects of the project. He doesn't feel this project is appropriate for the community. He is concerned about light pollution, particularly from the lighted signs, and noise pollution, especially from the drive-thru car wash and QSR speakers. He believes a traffic study should be completed to study the effects of traffic on the residential area, self-help housing, and community in general. He requested that the Board please consider all the letters from the public.

Bruce Jones: Public concerns do matter, letters to the Supervisors and showing up to planning hearings and board meetings make a difference. TAAG, however, is only an advisory board and does not make final decisions.

10.3 REVIEW OF PROPOSED MINOR LAND USE PERMIT regarding construction of boutique winery and tasting room: DRC2021-00144.

There will be a continuance of this project to April 7. The project was voted on in 2015 and approved by the TAAG board. However, Murray Powell has concerns that the MND is from 2015. County planners and owners stated nothing has changed in the project and should still be approved.

Murray Powell: Water was not addressed in the 2015 MND because water was not an issue on the west side then. Neighbors since then have complained about their wells going dry. The MND should be reconsidered, in light of recent droughts and planting of vines nearby.

Pam Jardini, applicants' agent: Letters were received opposing the project due to wells going dry. Study of this issue revealed 3 wells were drilled because people wanted additional wells. Wells were not drilled because any went dry. The requested USGS water study will not be completed for 2 -3 years and whether it will even be relevant is up for debate. Waiting for results of the water study cannot delay the project for another 2-5 years, because it is not fair to the applicants. The project is scheduled for a hearing on April 7 as is. Per Richard Bohnsack's (resident on Willow Creek rd) request, this project has been moved to a public hearing instead of a consent agenda item.

Eric Tolle: If the TAAG board abstains from voting tonight on a recommendation, then a representative can appear in person at the hearing.

Murray Powell: recommends denial because TAAG doesn't have all the information we should have. What was deemed substantial evidence to not prepare a new MND?

Eric Tolle: will ask Eric Hughes for the evidence that determined a new MND was not required.

Bruce Jones: if we get that information can we then approve this project?

Scott Shirley: motions to defer recommendation on the project until receiving the requested information from Eric Hughes. Motion was seconded and approved.

#### 10.4 REVIEW OF PROPOSED LAND USE CONDITIONAL USE PERMIT KNOWN AS G&A INDUSTRIES INDOOR CANNABIS PROJECT: DRC2019-00165

Murray Powell: motioned to approve the project. Scott Shirley seconded the motion and board gave unanimous approval.

#### 11. FORMATION OF TAAG'S COMMITTEES

- PRC: Bruce Jones (Chair), Scott Shirley, Murray Powell, Doris Diel (alternate)
- Cannabis Project Review Committee: Jerry Jones, Scott Silveira, Murray Powell, Fred Russell (alternate)
- Community Outreach: John Donovan, Doris Diel, Jerry Jones, Murray Powell (alternate)
- Traffic Circulation: John Donovan, Doris Diel, Scott Silveira
- Bylaws: Murray Powell, Scott Shirley, Fred Russell
- Water/ Toad creek: Scott Silveira, John Donovan, Jerry Jones
- Elections: Fred Russell, Scott Silveira, John Donovan

Meeting was adjourned at 10:07PM



# HEALTH RISK ASSESSMENT

EAST BENNETT VILLAGE PROJECT  
TEMPLETON, SAN LUIS OBISPO COUNTY, CALIFORNIA

**LSA**

June 2022

# HEALTH RISK ASSESSMENT

## EAST BENNETT VILLAGE PROJECT TEMPLETON, SAN LUIS OBISPO COUNTY, CALIFORNIA

Submitted to:

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Atascadero, California 93422

Prepared by:

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Project No. DGF2101



June 2022

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## LIST OF ABBREVIATIONS AND ACRONYMS

AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APCD	Air Pollution Control District
APN	Assessor's Parcel Number
Basin	South Central Coast Air Basin
CalEPA	California Environmental Protection Agency
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CARB Handbook	<i>Air Quality and Land Use Handbook</i>
CEQA	California Environmental Quality Act
County	County of San Luis Obispo
DPM	diesel particulate matter
ft	foot/feet
HARP	Hotspots Analysis and Reporting Program (Version 2)
HI	Hazard Index
HRA	Health Risk Assessment
MEI	maximally exposed individual
MICR	maximum individual cancer risk
OEHHA	California Office of Environmental Health Hazard Assessment
project	East Bennett Village Project
SB	Senate Bill
sf	square foot/feet
TAC	toxic air contaminant
US-101	United States Route 101

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## INTRODUCTION

LSA has prepared an operational health risk assessment (HRA) for the proposed East Bennett Village Project (project) in Templeton, San Luis Obispo County, California.

An HRA is a process used to estimate the increased health risk levels for people living and/or working near a project that emits toxic air contaminants (TACs). An HRA combines results of studies on the health effects of various animal and human exposure to TACs with results of studies that estimate the exposure levels at different distances from the source of pollutants. The purpose of the HRA is to document the increased cancer and non-cancer health risk levels from project-related emissions of TACs on existing nearby sensitive receptors, including residents and/or workers.

The County of San Luis Obispo (County) recommends the preparation of an HRA in accordance with policies and procedures of the California Office of Environmental Health Hazard Assessment (OEHHA) and the California Air Resources Board (CARB). This HRA evaluates all of these criteria in compliance with applicable requirements.

## PROJECT LOCATION AND DESCRIPTION

The currently undeveloped project site is located north of Las Tablas Road between Bennett Way and Duncan Road in Templeton, San Luis Obispo County, California (Assessor's Parcel Number [APN] 040-372-010, formerly APN 040-372-001 Lot CC). There are existing residences along Lavender Lane to the north of the project site, farther to the east and south beyond United States Route 101 (US-101), to the southwest across Las Tablas Road, and to the west across Bennett Way.

The proposed project would construct a 2,675-square-foot (sf) quick-service restaurant with a drive-through, a gas station with eight pump stations, underground fuel storage, a 3,200 sf convenience store, and a 1,170 sf accessory drive-through carwash.

## BACKGROUND

This section provides a discussion of regulatory guidance from the CARB, the OEHHA, the California Air Pollution Control Officers Association (CAPCOA), and the San Luis Obispo County Air Pollution Control District (APCD).

### CALIFORNIA AIR RESOURCES BOARD HANDBOOK AND TECHNICAL ADVISORY

The CARB has developed an *Air Quality and Land Use Handbook* (CARB Handbook)<sup>1</sup> and a supplement (*Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*)<sup>2</sup>, which are intended to serve as general reference guides for evaluating and reducing air pollution impacts associated with new projects that are part of the land use decision-making process. According to the CARB Handbook, recent air pollution studies have shown an association between both respiratory and other non-cancer health effects and proximity to high-traffic roadways and other land uses associated with high-volume truck traffic. Other studies have shown that diesel exhaust and other cancer-causing chemicals emitted from cars and trucks are responsible for much of the overall cancer risk from airborne toxics in California.

The CARB Handbook indicates that gasoline-dispensing facilities release benzene into the air. According to the CARB, benzene is a potent carcinogen. Gasoline-dispensing facilities account for a small part of total benzene emissions; however, near-source exposures for large facilities can be significant. Benzene can cause non-cancer health effects above a certain level of exposure. Brief inhalation exposure to high concentrations can cause central nervous system depression. Acute effects include central nervous system symptoms of nausea, tremors, drowsiness, dizziness, headache, intoxication, and unconsciousness. According to the CARB, it is unlikely that the public would be exposed to levels of benzene from gasoline-dispensing facilities that are high enough to cause these non-cancer health effects. The CARB recommends that planning agencies avoid siting new sensitive land uses within 300 ft of a large gasoline-dispensing facility (defined as a facility with a throughput of 3.6 million gallons per year or greater). A 50 ft separation is recommended for a typical gas-dispensing facility.

### EXISTING LAND USES IN THE PROJECT AREA

Sensitive receptors are defined as people that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential dwelling units. The project site is surrounded primarily by commercial and residential land uses. The closest sensitive receptors to the project site include the single-family residences located approximately 420 feet (ft) north of the project site across Lavender Lane.

<sup>1</sup> California Air Resources Board (CARB). 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*. April. Website: [www.arb.ca.gov/ch/handbook.pdf](http://www.arb.ca.gov/ch/handbook.pdf) (accessed June 2022).

<sup>2</sup> CARB. 2017. *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*. April. Website: [www.arb.ca.gov/ch/rd\\_technical\\_analysis\\_fact\\_sheet.pdf](http://www.arb.ca.gov/ch/rd_technical_analysis_fact_sheet.pdf) (accessed June 2022).

## OFFICE OF ENVIRONMENTAL HEALTH AND HAZARD ASSESSMENT GUIDELINES

The OEHHA developed the *Air Toxics Hot Spots Program Guidance Manual*<sup>3</sup> in conjunction with the CARB for use in implementing the Air Toxics Hot Spots Program (Health and Safety Code Section 44360). The manual describes health effect values, exposure pathway variates (e.g., breathing rates), and a tiered approach for performing HRAs based on current science and policy assessment. The intent of the guidance manual is to incorporate children’s health concerns, update risk assessment practices, and provide consistent risk assessment procedures.

## CALIFORNIA AIR POLLUTION CONTROL OFFICERS ASSOCIATION

In 2009, the CAPCOA published guidance<sup>4</sup> on assessing the health risk impacts from and to proposed land use projects that focused on the acute, chronic, and cancer impacts of sources affected by the California Environmental Quality Act (CEQA). The document recommends procedures to identify when a project should undergo further risk evaluation, procedures for conducting an HRA, guidelines to engage the public, presentation guidelines for results from the HRA, and mitigation measures that may be appropriate for various land use projects.

## GASOLINE SERVICE STATION INDUSTRYWIDE RISK ASSESSMENT TECHNICAL GUIDANCE

The CARB and CAPCOA developed the *Gasoline Service Station Industrywide Risk Assessment Technical Guidance*<sup>5</sup> (Technical Guidance) based on health analyses from gasoline service stations operating throughout the State. The Technical Guidance provides an update to the CAPCOA Air Toxics Hot Spots Program Gasoline Service Station Industrywide Risk Assessment Guidelines. The Technical Guidelines provide the procedures for preparing gas station emission inventories and HRAs to meet the requirements of individual facilities subject to Assembly Bill (AB) 2588, the Air Toxics “Hot Spots” Information and Assessment Act program. The Technical Guidance can be used to identify potential risk from gas stations with underground storage tanks.

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<sup>3</sup> California Office of Environmental Health Hazard Assessment (OEHHA). 2015. *Air Toxics Hot Spots Program Guidance Manual*. March. Website: [oehha.ca.gov/air/cnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0](http://oehha.ca.gov/air/cnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0) (accessed June 2022).

<sup>4</sup> California Air Pollution Control Officers Association (CAPCOA). 2009. *Health Risk Assessments for Proposed Land Use Projects*. July. Website: [http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA\\_HRA\\_LU\\_Guidelines\\_8-6-09.pdf](http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA_HRA_LU_Guidelines_8-6-09.pdf) (accessed June 2022).

<sup>5</sup> California Air Resources Board and the California Air Pollution Control Officer’s Association. 2022. *Gasoline Service Station Industrywide Risk Assessment Guidance*. February. Website: <https://ww2.arb.ca.gov/resources/documents/gasoline-service-station-industrywide-risk-assessment-guidance> (accessed June 2022).

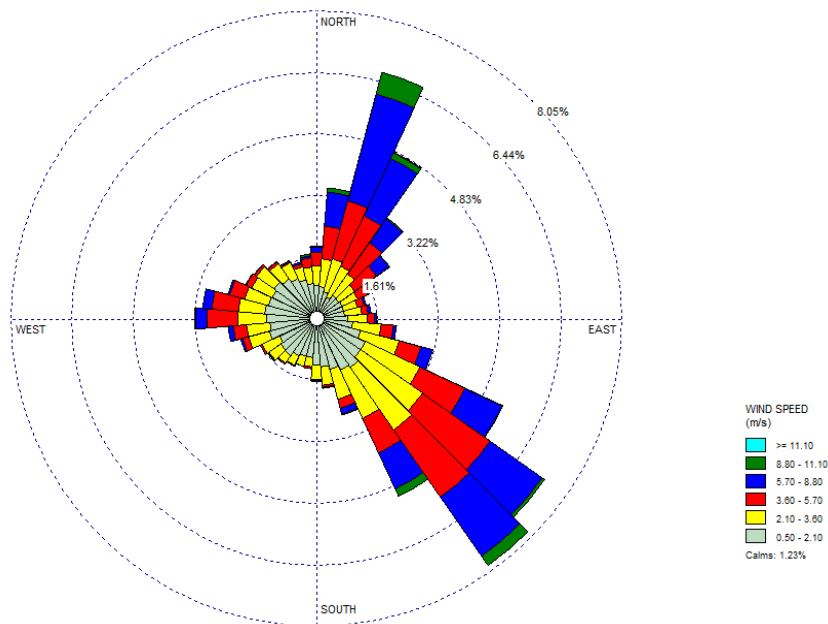
## SETTING

### REGIONAL AIR QUALITY

The project site is in Templeton, San Luis Obispo County, California, which is part of the South Central Coast Air Basin (Basin) and is under the jurisdiction of the San Luis Obispo County APCD.

### Climate/Meteorology

Air quality in the planning area is not only affected by various emission sources (e.g., mobile and industry), but also by atmospheric conditions (e.g., wind speed, wind direction, temperature, and rainfall). The nearest representative meteorological station that provides the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) ready meteorological data is the Paso Robles Municipal Airport Meteorological Station for 2017–2021 provided by the CARB, which is approximately 9.3 miles north of the project site. Figure 1, Project Area Wind Patterns, shows the windrose<sup>6</sup> from data measured at this station and the wind patterns for the project area.



Source: CARB Meteorological Data for AERMOD. Website: <https://ww2.arb.ca.gov/resources/documents/harp-aermod-meteorological-files> (accessed June 2022).

**Figure 1: Project Area Wind Patterns**

<sup>6</sup> A windrose provides a succinct view of how wind speed and direction are typically distributed at a particular location. Presented in a circular format, the windrose shows the frequency of winds blowing from particular directions.



## Toxic Air Contaminants

The public's exposure to TACs is a significant environmental health issue in the State of California. In 1983, the California Legislature enacted a program to identify the health effects of TACs and to reduce exposure to these contaminants to protect the public health. The Health and Safety Code defines a TAC as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant pursuant to subsection (b) of Section 112 of the Federal Act (42 United States Code Section 7412) is a TAC. Under State law, the California Environmental Protection Agency (CalEPA), acting through the CARB, is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or which may pose a present or potential hazard to human health.

California regulates TACs primarily through AB 1807 (Tanner Air Toxics Act), AB 2588 (Air Toxics "Hot Spot" Information and Assessment Act of 1987), and Senate Bill (SB) 25 (the Children's Environmental Health Protection Act). The Tanner Air Toxics Act sets forth a formal procedure for the CARB to designate substances as TACs. Once a TAC is identified, the CARB adopts an "airborne toxics control measure" for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology to minimize emissions.

Air toxics from stationary sources are also regulated in California under AB 2588. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the designated air quality management district or APCD. High-priority facilities are required to perform an HRA and, if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

To date, CARB has designated nearly 200 compounds as TACs. Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from diesel-fueled engines (diesel particulate matter or DPM).

## THRESHOLDS OF SIGNIFICANCE

Both the State and federal governments have established health-based ambient air quality standards for seven air pollutants. For other air pollutants without defined significance standards, the definition of substantial pollutant concentrations varies. For TACs, “substantial” is taken to mean that the individual health risk exceeds a threshold considered to be a prudent risk management level.

The following limits for maximum individual cancer risk (MICR) and non-cancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the Basin:

- **MICR:** An MICR is the estimated probability of a maximally exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 70 years for adults and 9 years for children in residential locations and over a period of 25 years for workers. The MICR calculations include multipathway considerations, when applicable.

The cumulative increase in MICR that is the sum of the calculated MICR values for all TACs would be considered significant if it would result in an increased MICR greater than 10 in 1 million ( $1 \times 10^{-5}$ ) at any receptor location.

- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multipathway considerations, when applicable.

The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.

- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level.

The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

The San Luis Obispo County APCD *CEQA Air Quality Handbook*<sup>7</sup> states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 10 in 1 million.

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<sup>7</sup> San Luis Obispo County Air Pollution Control District. 2012. *CEQA Air Quality Handbook*.

## METHODOLOGY

The methodology used to estimate health risk impacts is described below.

### GENERAL INFORMATION

For the purposes of an HRA, short-term emissions are of concern for analyzing acute health impacts, and long-term emissions are of concern for analyzing chronic and carcinogenic health impacts.

A refine level multipathway assessment has been conducted. This technique was chosen based on the recommendation from the San Luis Obispo County APCD.

This HRA has been conducted using engineering emissions estimates and two models: fuel throughput and toxic emission methodology as defined by CAPCOA. The air dispersion model, AERMOD, was used to determine how the TACs would move through the atmosphere after release from sources. The CARB's HARP model was used to translate the pollutant concentrations from AERMOD into individual health risks at the nearby sensitive receptor locations.

This HRA includes analyzing the inhalation, dermal soil, mother's milk, and homegrown produce pathways. This technique was chosen as prescribed in AB 2588.

### EMISSION SOURCES

The first step of an HRA is to characterize the project-related emissions of TACs. The proposed project would have 8 fueling points, each with the ability to dispense three fuel types. Project specifics are unknown; therefore, fuel throughput was estimated to dispense 657,000 gallons per year per fueling point or 5,256,000 gallons per year with a maximum hourly fuel dispensing rate of 1,200 gallons per hour. TACs emissions were calculated based on the facility's implementation of EVR Phase I and EVR Phase II. The control scenario chosen dictates the emission factors used for estimating organic gas. Toxic emissions derived from organic gas using the updated emissions factors and calculation methodology approved by CAPCOA and CARB in the 2022 Gasoline Service Station Industrywide Risk Assessment Technical Guidance (Technical Guidance). The Technical Guidance document defines five sources of emissions for the evaluation:

1. Emissions from loading fuel into the on-site storage tank
2. Emissions from the vapors being pushed out of storage tanks during refills (known as tank breathing)
3. Emissions from the refilling of vehicles
4. Emissions from fuel being spilled while refilling vehicles
5. Emissions from vapors permeating through the refill hose

Project-related emission estimates for these sources are summarized in Table A below.

**Table A: Operational Emissions Summary**

Summary of Emissions		Loading/Breathing		Refueling/Spillage		Hose	
CAS	Chemical	lbs/yr	lbs/hr	lbs/yr	lbs/hr	lbs/yr	lbs/hr
71432	Benzene	7.95E-01	7.41E-03	2.10E+00	2.61E-03	4.11E-02	5.93E-05
1330207	Xylenes	7.12E-01	6.87E-03	1.62E+01	2.05E-02	3.68E-02	5.50E-05
108883	Toluene	1.94E+00	1.82E-02	1.45E+01	1.82E-02	1.00E-01	1.45E-04
100414	Ethyl Benzene	1.86E-01	1.44E-03	3.19E+00	3.82E-03	9.64E-03	1.16E-05
110543	n-Hexane	3.17E+00	2.46E-02	6.08E+00	7.29E-03	1.64E-01	1.97E-04
91203	Naphthalene	7.74E-04	6.00E-06	4.18E-01	5.02E-04	4.00E-05	4.80E-08

Source: LSA, 2022.

CAS = Chemical Abstracts Service Registry Number

lbs/hr = pounds per hour

lbs/yr = pounds per year

## HEALTH RISK IMPACTS

The following section describes the potential impacts on sensitive receptors from operation of the proposed project. As identified above, the closest sensitive receptor includes the single-family residential use that is approximately 420 ft away from the project boundary line. The HRA analysis and results are presented below, and data outputs are attached.

### OPERATIONAL HEALTH RISK ASSESSMENT

To determine the potential health risk of the proposed fuel dispensing equipment to off-site receptor locations, an operational HRA was conducted for the proposed project. The carcinogenic and chronic health risks from the proposed project are shown in Table B. The residential risk incorporates the risk for nearby residents living nearby for 70 years (considered a conservative period of time for an individual to live in any one residence).

**Table B: Health Risks from Project Operation to Off-Site Receptors**

Location	Carcinogenic Inhalation Health Risk in 1 Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Sensitive Receptor Risk	0.12	0.0004	0.06
San Luis Obispo County APCD Threshold	10.0	1.0	1.0
<b>Significant?</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: Compiled by LSA (June 2022).  
APCD = Air Pollution Control District

As shown in Table B, the maximum cancer risk for the sensitive receptor MEI would be 0.12 in 1 million, which is less than the San Luis Obispo County APCD threshold of 10 in 1 million. The chronic inhalation hazard index would be 0.0004, which is well below the threshold of 1.0. The total acute hazard index would be 0.06, which would also not exceed the threshold of 1.0. As these results show, all health risk levels to nearby residents from operation-related emissions of TACs would be well below the San Luis Obispo County APCD HRA thresholds. No significant health risks would occur from project operation.

Model output and calculations are provided in Appendix A.

### CONCLUSION

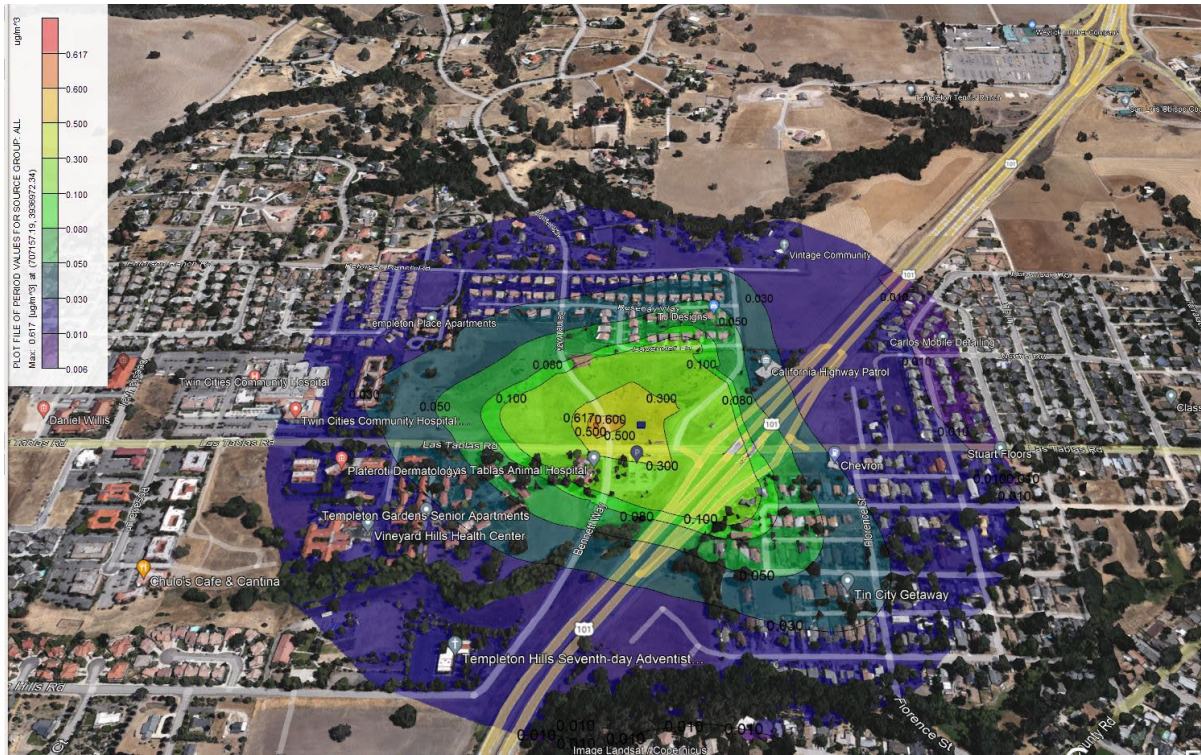
As these results show, all health risk levels to nearby residents from project-related emissions of TACs would be well below the San Luis Obispo County APCD HRA thresholds. As such, no significant health risk would occur from project-related emissions. The HARP modeling reports and AERMOD information are attached.

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## APPENDIX A

### HRA MODEL OUTPUT

### Cancer Risk Contour



REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK	
1	ALL		707139.6	3937022	2.76E-07	70YrCance	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		707124.1	3937052	1.63E-07	70YrCance	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		707116.4	3937045	1.58E-07	70YrCance	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		707115.8	3937035	1.68E-07	70YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		707116.9	3937025	1.90E-07	70YrCance	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		707118.1	3937014	2.17E-07	70YrCance	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		707119.3	3937004	2.48E-07	70YrCance	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		707108.9	3937068	1.23E-07	70YrCance	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		707101	3937061	1.20E-07	70YrCance	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		707093	3937054	1.16E-07	70YrCance	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		707092.4	3937044	1.24E-07	70YrCance	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		707093.6	3937033	1.36E-07	70YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		707094.8	3937022	1.52E-07	70YrCance	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		707096	3937012	1.72E-07	70YrCance	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		707097.2	3937001	1.93E-07	70YrCance	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		707098.4	3936991	2.11E-07	70YrCance	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		707094.8	3937085	9.51E-08	70YrCance	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		707087	3937078	9.50E-08	70YrCance	9.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		707079.1	3937071	9.43E-08	70YrCance	9.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		707071.2	3937064	9.33E-08	70YrCance	9.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		707068.8	3937055	9.69E-08	70YrCance	9.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		707070	3937044	1.04E-07	70YrCance	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		707071.2	3937034	1.13E-07	70YrCance	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		707072.4	3937023	1.27E-07	70YrCance	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		707073.6	3937012	1.42E-07	70YrCance	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		707074.8	3937002	1.56E-07	70YrCance	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		707075.9	3936991	1.68E-07	70YrCance	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		707077.1	3936981	1.73E-07	70YrCance	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		707087.8	3937109	7.83E-08	70YrCance	7.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		707079.8	3937102	7.85E-08	70YrCance	7.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		707071.8	3937094	7.84E-08	70YrCance	7.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		707063.8	3937087	7.81E-08	70YrCance	7.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		707055.9	3937080	7.74E-08	70YrCance	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		707047.9	3937073	7.66E-08	70YrCance	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		707045.4	3937063	7.93E-08	70YrCance	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		707046.6	3937053	8.61E-08	70YrCance	8.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		707047.8	3937042	9.39E-08	70YrCance	9.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		707049	3937031	1.03E-07	70YrCance	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		707050.2	3937021	1.15E-07	70YrCance	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		707051.5	3937010	1.26E-07	70YrCance	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		707052.7	3936999	1.34E-07	70YrCance	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		707053.9	3936989	1.39E-07	70YrCance	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		707055.1	3936978	1.40E-07	70YrCance	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		707056.3	3936967	1.36E-07	70YrCance	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		707081.6	3937133	6.58E-08	70YrCance	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		707073.6	3937126	6.56E-08	70YrCance	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		707065.7	3937119	6.56E-08	70YrCance	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		707057.8	3937112	6.60E-08	70YrCance	6.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		707049.8	3937104	6.59E-08	70YrCance	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		707041.9	3937097	6.55E-08	70YrCance	6.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		707034	3937090	6.49E-08	70YrCance	6.49E-08	0											



















































































