

#7

Ramirez, Angelica

From: Linda Ash <lindaash99@gmail.com>
Sent: Friday, May 1, 2020 10:52 AM
To: sbcob
Cc: Vahagn Nahabedian; Harmon, Nereyda
Subject: Santa Rita Valley Ag Appeal Letter
Attachments: Board Letter Santa Rita Valley Ag 05012020.pdf



Caution: This email originated from a source outside of the County of Santa Barbara. Do not click links or open attachments unless you verify the sender and know the content is safe.

Good Morning Clerk of the Board,

Please find attached a letter for submission regarding the Santa Rita Valley Ag appeal scheduled for hearing on May 5, 2020.

It does not need to be read into the record.

Thank you,

Linda Ash

Linda K. Ash, Esq.

Land Use Consultant

Ventura, California 93001

(805) 407-1992

lka99law@gmail.com

April 30, 2020

Santa Barbara County Board of Supervisors
123 East Anapamu Street
Santa Barbara, California 93101

Re: Appeal of Planning Commission Approval of LUP 18-00351 granted to Santa Rita Valley Ag., Inc for Cultivation of Outdoor Cannabis filed by Blair Pence, Case No. 19APL-00000-00032 – Pence's Terpene Claims and On-going Threats

Dear Chair Hart and Honorable Members of the Board of Supervisors:

As you are aware, Mr. Pence is asserting that terpene drift from the Santa Rita Valley Ag project will contaminate his grapes and ruin his wine. His claim is without merit.

First, there is no peer-reviewed science-based evidence that cannabis terpenes adversely affect wine grapes. Second, there is no evidence terpenes can drift two football fields. The Santa Rita Valley Ag cannabis grow is 673 feet from the edge of Mr. Pence's grape crop. Third, there was a 50-acre cannabis grow directly next door to Pence's property and he did not present any evidence that his grapes were contaminated by cannabis terpenes. Fourth, terpene taint is not likely a deep concern to him because Mr. Pence did not even include it as an issue in his initial appeal form submitted to the Planning Commission.

Furthermore, his terpene claims are time-barred. He is attacking the PEIR for, what he claims, was a failure by the County to consider terpene drift. However, he could have and should have raised those issues during the adoption of the Cannabis Program and certification of the PEIR. It is too late now. Moreover, there is nothing about terpenes that is specific to the Santa Rita Valley Ag project. Nor is the concept of terpene drift a new one. The Capone study upon which he relies is from 2012, four years prior to the certification of the PEIR.

Moreover, tests performed by a preeminent testing lab on four of Pence's estate wines established no terpenes in the wine from the 50-acre cannabis grow on the property directly next door. True and correct copies of the certified lab test results conducted by Infinite Chemical Analysis LLC on the four Pence wines in compliance with all state law quality control regulations is attached hereto as Exhibit A.

In addition, a recent terpene study conducted for the Hacienda Company cannabis project by Dr. William Vizuete of Pacific Environmental Analysis (PEA) found no terpene drift

(Report). Although that study was site-specific to the Hacienda project, the findings from the Report indicate it would be nearly impossible for cannabis monoterpenes, that only emit 21 days prior to harvest, to reach the threshold necessary to taint grapes. PEA found that to reach a threshold level of emissions to taint grapes requires 1,121 consecutive days of emissions. Furthermore, not all cannabis strains even emit eucalyptol monoterpenes. A true and correct copy of the Report is attached as Exhibit B together with a letter from PEA regarding use of the Report.

On another note, I am writing to clarify for the record misrepresentations made by Blair Pence at the West Coast Farms hearing on April 21, 2020. In his comments, he said that he successfully negotiated a term sheet with another applicant until the partners reneged on the deal. Although Mr. Pence did not use Santa Rita Valley Ag by name, that is the applicant to which he was referring.

I have already advised your Board in my letter dated March 15, 2020, that there was no deal with Mr. Pence. On the morning of the Board hearing on Pence's appeal on March 10, 2020, Mr. Pence threatened the SRVAG principals' businesses and families without me present. The egregious terms were imposed under duress and were not legally enforceable.

Regardless of whether he was referring to Santa Rita Valley Ag, Mr. Pence is not the good faith negotiator he portrays himself to be. Please see the attached email from Mr. Pence to SRVAG as an example of his threatening behavior and true colors.

We look forward to presenting our project to your Board on May 5, 2020.

Best Regards,

Linda K. Ash

Linda K. Ash
Santa Rita Valley Ag, Inc., representative

Attachments

Exhibit A: Infinite Chemical Analysis Labs
Exhibit B: Pacific Environmental Analysis LLC
Exhibit C: Pence email dated April 16, 2020
cc: Santa Rita Valley Ag. Inc.
Rey Harmon, County of Santa Barbara
Clerk of the Board

Exhibit A

Certificates of Analysis

Pence 2017 Unum Pinot

Pence 2017 Estate Chardonnay

Pence 2017 Rosa Chardonnay

Pence 2017 Estate Pinot

Prepared by:

Infinite Chemical Analysis Labs

Dated: August 1, 2019



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190731-056
Sample: 1907ICA3745.11011
PENGE UNUM PINOT
Strain: PENGE UNUM PINOT
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Moisture NT	Δ9-THC NT	CBD NT	Total Cannabinoids NT	Total Terpenes 0.00 mg/g
Water Activity NT				

Summary	SOP Used	Date Tested	Pass
Batch			Complete
Terpenes	SOP:TERPMS.Beverage1	08/01/2019	Pass
Pesticides	PEST.002 Edible	07/31/2019	Pass



Scan to see results

Cannabinoid Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
---------	-----	-----	---	------	---------	-----	-----	---	------

Total THC=THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying, Water Activity:Water Activity Meter, Foreign Material:Microscope*

Terpene Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
α-Bisabolol	0.20	0.10	ND	ND	δ-Limonene	0.20	0.10	ND	ND
α-Humulene	0.20	0.10	ND	ND	Eucalyptol	0.20	0.10	ND	ND
α-Pinene	0.20	0.10	ND	ND	γ-Terpinene	0.20	0.10	ND	ND
α-Terpinene	0.20	0.10	ND	ND	Geraniol	0.20	0.10	ND	ND
β-Caryophyllene	0.20	0.10	ND	ND	Linalool	0.20	0.10	ND	ND
β-Myrcene	0.20	0.10	ND	ND	Ocimene	0.20	0.10	ND	ND
β-Ocimene	0.20	0.10	ND	ND	(-)-Guaial	0.20	0.10	ND	ND
β-Pinene	0.20	0.10	ND	ND	(-)-Isopulegol	0.20	0.10	ND	ND
Camphene	0.20	0.10	ND	ND	p-Cymene	0.20	0.10	ND	ND
Caryophyllene Oxide	0.20	0.10	ND	ND	Terpinolene	0.20	0.10	ND	ND
cis-Nerolidol	0.20	0.10	ND	ND	trans-Nerolidol	0.20	0.10	ND	ND
δ-3-Carene	0.20	0.10	ND	ND	Total			0	0

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used:HS-GC-FID-FID*



Infinite Chemical Analysis Labs
8380 Miramar Mall #102
San Diego, CA
(858) 623-2740
www.infiniteCAL.com
Lic# C8-0000019-LIC

Josh M Swider

Josh Swider
Lab Director, Managing Partner
08/01/2019

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

2 of 3

ICAL ID: 20190731-056
Sample: 1907ICA3745.11011
PENGE UNUM PINOT
Strain: PENGE UNUM PINOT
Category: Ingestible

Responsible AG Testing
Lic.#
None
San Diego, CA 92121
Lic.#

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status
------------	-----	-----	-------	--------	------------	-----	-----	-------	--------	------------	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), *analytical instrumentation used=HS-GC-FID-FID*

Heavy Metal Screening

LOQ	LOD	Limit	Status
-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), *analytical instrumentation used:ICP-MS*

Microbiological Screening

Result	Status
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ND=Not Detected; *analytical instrumentation used:qPCR*



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Sample: 1907ICA3745.11011
PENGE UNUM PINOT
Strain: PENGE UNUM PINOT
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#:
Primary Size:
Total/Batch Size:
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
Aldicarb	µg/g	µg/g	µg/g	Pass				
Carbofuran	ND	0.05	0.03	Pass				
Chlordane	ND	0.1	0.05	Pass				
Chlorfenapyr	ND	0.1	0.05	Pass				
Chlorpyrifos	ND	0.05	0.03	Pass				
Coumaphos	ND	0.05	0.03	Pass				
Daminozide	ND	0.05	0.03	Pass				
DDVP	ND	0.05	0.03	Pass				
Dimethoate	ND	0.05	0.03	Pass				
Ethoprophos	ND	0.05	0.03	Pass				
Etofenprox	ND	0.05	0.03	Pass				
Fenoxycarb	ND	0.05	0.03	Pass				
Fipronil	ND	0.05	0.03	Pass				
Imazalil	ND	0.05	0.03	Pass				
Methiocarb	ND	0.05	0.03	Pass				
Methyl Parathion	ND	0.1	0.05	Pass				
Mevinphos	ND	0.05	0.03	Pass				
Paclobutrazol	ND	0.05	0.03	Pass				
Propoxur	ND	0.05	0.03	Pass				
Spiroxamine	ND	0.05	0.03	Pass				
Thiacloprid	ND	0.05	0.03	Pass				

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
Abamectin	µg/g	µg/g	µg/g	Pass	Kresoxim Methyl	µg/g	µg/g	µg/g	Pass		
Acephate	ND	0.05	0.03	5	Pass	Malathion	ND	0.05	0.03	5	Pass
Acequinocyl	ND	0.05	0.03	4	Pass	Metalaxyl	ND	0.05	0.03	15	Pass
Acetamiprid	ND	0.05	0.03	5	Pass	Methomyl	ND	0.05	0.03	0.1	Pass
Azoxystrobin	ND	0.05	0.03	40	Pass	Myclobutanil	ND	0.05	0.03	?	Pass
Bifenazate	ND	0.05	0.03	5	Pass	Naled	ND	0.1	0.05	0.5	Pass
Bifenthrin	ND	0.25	0.1	0.5	Pass	Oxamyl	ND	0.2	0.1	0.3	Pass
Boscalid	0.073	0.05	0.03	10	Pass	Pentachloronitrobenzene	ND	0.1	0.05	0.2	Pass
Captan	ND	0.35	0.2	5	Pass	Permethrin	ND	0.25	0.1	20	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass	Phosmet	ND	0.05	0.03	0.2	Pass
Chlorantraniliprole	ND	0.05	0.03	40	Pass	Piperonyl Butoxide	ND	0.25	0.1	8	Pass
Clofentezine	ND	0.05	0.03	0.5	Pass	Prallethrin	ND	0.05	0.03	0.4	Pass
Cyfluthrin	ND	0.35	0.25	1	Pass	Propiconazole	ND	0.05	0.03	20	Pass
Cypermethrin	ND	0.35	0.2	1	Pass	Pyrethrins	ND	0.25	0.1	1	Pass
Diazinon	ND	0.05	0.03	0.2	Pass	Pyridaben	ND	0.05	0.03	3	Pass
Dimethomorph	ND	0.05	0.03	20	Pass	Spinetoram	ND	0.05	0.03	3	Pass
Etoazole	ND	0.05	0.03	1.5	Pass	Spinosad	ND	0.05	0.03	3	Pass
Fenhexamid	ND	0.05	0.03	10	Pass	Spiromesifen	ND	0.05	0.03	12	Pass
Fenpyroximate	ND	0.05	0.03	2	Pass	Spirotetramat	ND	0.05	0.03	13	Pass
Fonicamid	ND	0.05	0.03	2	Pass	Tebuconazole	ND	0.05	0.03	2	Pass
Fludioxonil	ND	0.05	0.03	30	Pass	Thiamethoxam	ND	0.25	0.1	4.5	Pass
Hexythiazox	ND	0.05	0.03	2	Pass	Trifloxystrobin	ND	0.05	0.03	33	Pass
Imidacloprid	ND	0.35	0.1	3	Pass						

Unknown Analyte(s):

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used: LC-MSMS & GC-MSMS*



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08/01/2019

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Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190731-055
Sample: 1907ICA3745.11010
PENGE ESTATE CHARDONNAY
Strain: PENGE ESTATE CHARDONNAY
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121
Lic. #

Batch#:
Primary Size:
Total/Batch Size:
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Moisture NT	Δ9-THC NT	CBD NT	Total Cannabinoids NT	Total Terpenes 0.00 mg/g
Water Activity NT				

Summary	SOP Used	Date Tested	Pass
Batch			Pass
Terpenes	SOP.TERP.MS.Beverage1	08/01/2019	Complete
Pesticides	PEST.002 Edible	07/31/2019	Pass



Scan to see results

Cannabinoid Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
---------	-----	-----	---	------	---------	-----	-----	---	------

Total THC=THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying, Water Activity:Water Activity Meter, Foreign Material:Microscope*

Terpene Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
α-Bisabolol	0.20	0.10	ND	ND	δ-Limonene	0.20	0.10	ND	ND
α-Humulene	0.20	0.10	ND	ND	Eucalyptol	0.20	0.10	ND	ND
α-Pinene	0.20	0.10	ND	ND	γ-Terpinene	0.20	0.10	ND	ND
α-Terpinene	0.20	0.10	ND	ND	Geraniol	0.20	0.10	ND	ND
β-Caryophyllene	0.20	0.10	ND	ND	Linalool	0.20	0.10	ND	ND
β-Myrcene	0.20	0.10	ND	ND	Ocimene	0.20	0.10	ND	ND
β-Ocimene	0.20	0.10	ND	ND	(-)-Guaial	0.20	0.10	ND	ND
β-Pinene	0.20	0.10	ND	ND	(-)-Isopulegol	0.20	0.10	ND	ND
Camphene	0.20	0.10	ND	ND	p-Cymene	0.20	0.10	ND	ND
Caryophyllene Oxide	0.20	0.10	ND	ND	Terpinolene	0.20	0.10	ND	ND
cis-Nerolidol	0.20	0.10	ND	ND	trans-Nerolidol	0.20	0.10	ND	ND
δ-3-Carene	0.20	0.10	ND	ND	Total			0	0

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), *analytical instrumentation used:HS-GC-FID-FID*



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Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

2 of 3

ICAL ID: 20190731-055
Sample: 19071CA3745.11010
PENGE ESTATE CHARDONNAY
Strain: PENGE ESTATE CHARDONNAY
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121
Lic. #

Batch#:
Primary Size:
Total/Batch Size:
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status
------------	-----	-----	-------	--------	------------	-----	-----	-------	--------	------------	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), *analytical instrumentation used=HS-GC-FID-FID*

Heavy Metal Screening

	LOQ	LOD	Limit	Status
--	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), *analytical instrumentation used:ICP-MS*

Microbiological Screening

	Result	Status
--	--------	--------

ND=Not Detected; *analytical instrumentation used:qPCR*



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3 of 3

ICAL ID: 20190731-055
Sample: 1907ICA3745.11010
PENICE ESTATE CHARDONNAY
Strain: PENICE ESTATE CHARDONNAY
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Batch#:
Primary Size:
Total/Batch Size:
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Lic. #

Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
Aldicarb	µg/g	µg/g	µg/g	Pass				
Carbofuran	ND	0.05	0.03	Pass				
Chlordane	ND	0.1	0.05	Pass				
Chlorfenapyr	ND	0.1	0.05	Pass				
Chlorpyrifos	ND	0.05	0.03	Pass				
Coumaphos	ND	0.05	0.03	Pass				
Daminozide	ND	0.05	0.03	Pass				
DDVP	ND	0.05	0.03	Pass				
Dimethoate	ND	0.05	0.03	Pass				
Ethoprophos	ND	0.05	0.03	Pass				
Etofenprox	ND	0.05	0.03	Pass				
Fenoxycarb	ND	0.05	0.03	Pass				
Fipronil	ND	0.05	0.03	Pass				
Imazalil	ND	0.05	0.03	Pass				
Methiocarb	ND	0.05	0.03	Pass				
Methyl Parathion	ND	0.1	0.05	Pass				
Mevinphos	ND	0.05	0.03	Pass				
Paclobutrazol	ND	0.05	0.03	Pass				
Propoxur	ND	0.05	0.03	Pass				
Spiroxamine	ND	0.05	0.03	Pass				
Thiacloprid	ND	0.05	0.03	Pass				

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
Abamectin	µg/g	µg/g	µg/g	µg/g	Pass	µg/g	µg/g	µg/g	µg/g	Pass	
Acephate	ND	0.05	0.03	5	Pass	Kresoxim Methyl	ND	0.05	0.03	1	Pass
Acequinocyl	ND	0.05	0.03	4	Pass	Malathion	ND	0.05	0.03	5	Pass
Acetamiprid	ND	0.05	0.03	5	Pass	Metalaxyl	ND	0.05	0.03	15	Pass
Azoxystrobin	ND	0.05	0.03	40	Pass	Methomyl	ND	0.05	0.03	0.1	Pass
Bifenazate	ND	0.05	0.03	5	Pass	Myclobutanil	ND	0.05	0.03	9	Pass
Bifenthrin	ND	0.25	0.1	0.5	Pass	Naled	ND	0.1	0.05	0.5	Pass
Boscalid	0.167	0.05	0.03	10	Pass	Oxamyl	ND	0.2	0.1	0.3	Pass
Captan	ND	0.35	0.2	5	Pass	Pentachloronitrobenzene	ND	0.1	0.05	0.2	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass	Permethrin	ND	0.25	0.1	20	Pass
Chlorantraniliprole	ND	0.05	0.03	40	Pass	Phosmet	ND	0.05	0.03	0.2	Pass
Clofentezine	ND	0.05	0.03	0.5	Pass	Piperonyl Butoxide	ND	0.25	0.1	8	Pass
Cyfluthrin	ND	0.35	0.25	1	Pass	Prallethrin	ND	0.05	0.03	0.4	Pass
Cypermethrin	ND	0.35	0.2	1	Pass	Propiconazole	ND	0.05	0.03	20	Pass
Diazinon	ND	0.05	0.03	0.2	Pass	Pyrethrins	ND	0.25	0.1	1	Pass
Dimethomorph	ND	0.05	0.03	20	Pass	Pyridaben	ND	0.05	0.03	3	Pass
Etoxazole	ND	0.05	0.03	1.5	Pass	Spinetoram	ND	0.05	0.03	3	Pass
Fenhexamid	ND	0.05	0.03	10	Pass	Spinosad	ND	0.05	0.03	3	Pass
Fenpyroximate	ND	0.05	0.03	2	Pass	Spiromesifen	ND	0.05	0.03	12	Pass
Flonicamid	ND	0.05	0.03	2	Pass	Spirotetramat	ND	0.05	0.03	13	Pass
Fludioxonil	ND	0.05	0.03	30	Pass	Tebuconazole	ND	0.05	0.03	2	Pass
Hexythiazox	ND	0.05	0.03	2	Pass	Thiamethoxam	ND	0.25	0.1	4.5	Pass
Imidacloprid	ND	0.35	0.1	3	Pass	Trifloxystrobin	ND	0.05	0.03	30	Pass

Unknown Analyte(s):

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used: LC-MSMS & GC-MSMS*



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Josh Swider
Lab Director, Managing Partner
08/01/2019

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Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190731-057
Sample: 1907ICA3745.11012
PENGE ROSA CHARDONNAY
Strain: PENGE ROSA CHARDONNAY
Category: Ingestible

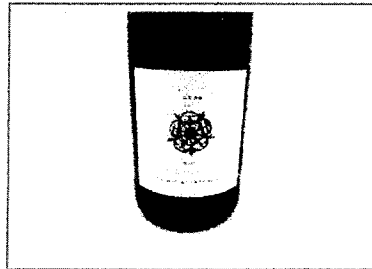
Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Moisture NT	Δ9-THC NT	CBD NT	Total Cannabinoids NT	Total Terpenes 0.00 mg/g
Water Activity NT				

Summary	SOP Used	Date Tested	Pass
Batch			Complete
Terpenes	SOP:TERP.MS.Beverage1	08/01/2019	Pass
Pesticides	PEST:002 Edible	07/31/2019	Pass



Scan to see results

Cannabinoid Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
---------	-----	-----	---	------	---------	-----	-----	---	------

Total THC=THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying, Water Activity:Water Activity Meter, Foreign Material:Microscope*

Terpene Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
α-Bisabolol	0.20	0.10	ND	ND	δ-Limonene	0.20	0.10	ND	ND
α-Humulene	0.20	0.10	ND	ND	Eucalyptol	0.20	0.10	ND	ND
α-Pinene	0.20	0.10	ND	ND	γ-Terpinene	0.20	0.10	ND	ND
α-Terpinene	0.20	0.10	ND	ND	Geraniol	0.20	0.10	ND	ND
β-Caryophyllene	0.20	0.10	ND	ND	Linalool	0.20	0.10	ND	ND
β-Myrcene	0.20	0.10	ND	ND	Ocimene	0.20	0.10	ND	ND
β-Ocimene	0.20	0.10	ND	ND	(-)-Guaïol	0.20	0.10	ND	ND
β-Pinene	0.20	0.10	ND	ND	(-)-Isopulegol	0.20	0.10	ND	ND
Camphene	0.20	0.10	ND	ND	p-Cymene	0.20	0.10	ND	ND
Caryophyllene Oxide	0.20	0.10	ND	ND	Terpinolene	0.20	0.10	ND	ND
cis-Nerolidol	0.20	0.10	ND	ND	trans-Nerolidol	0.20	0.10	ND	ND
δ-3-Carene	0.20	0.10	ND	ND	Total			0	0

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used:HS-GC-FID-FID*



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Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

2 of 3

ICAL ID: 20190731-057
Sample: 1907ICA3745.11012
PENGE ROSA CHARDONNAY
Strain: PENGE ROSA CHARDONNAY
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status
------------	-----	-----	-------	--------	------------	-----	-----	-------	--------	------------	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ) , *analytical instrumentation used=HS-GC-FID-FID*

Heavy Metal Screening

	LOQ	LOD	Limit	Status
--	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ) , *analytical instrumentation used:ICP-MS*

Microbiological Screening

	Result	Status
--	--------	--------

ND=Not Detected; *analytical instrumentation used:qPCR*



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08/01/2019

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Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

3 of 3

ICAL ID: 20190731-057
Sample: 1907ICA3745.11012
PENCE ROSA CHARDONNAY
Strain: PENCE ROSA CHARDONNAY
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
Aldicarb	µg/g	µg/g	µg/g	Pass				
Carbofuran	ND	0.05	0.03	Pass				
Chlordane	ND	0.1	0.05	Pass				
Chlorfenapyr	ND	0.1	0.05	Pass				
Chlorpyrifos	ND	0.05	0.03	Pass				
Coumaphos	ND	0.05	0.03	Pass				
Daminozide	ND	0.05	0.03	Pass				
DDVP	ND	0.05	0.03	Pass				
Dimethoate	ND	0.05	0.03	Pass				
Ethoprophos	ND	0.05	0.03	Pass				
Etofenprox	ND	0.05	0.03	Pass				
Fenoxycarb	ND	0.05	0.03	Pass				
Fipronil	ND	0.05	0.03	Pass				
Imazalil	ND	0.05	0.03	Pass				
Methiocarb	ND	0.05	0.03	Pass				
Methyl Parathion	ND	0.1	0.05	Pass				
Mevinphos	ND	0.05	0.03	Pass				
Paclobutrazol	ND	0.05	0.03	Pass				
Propoxur	ND	0.05	0.03	Pass				
Spiroxamine	ND	0.05	0.03	Pass				
Thiacloprid	ND	0.05	0.03	Pass				

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
Abamectin	µg/g	µg/g	µg/g	Pass	Kresoxim Methyl	µg/g	µg/g	µg/g	Pass		
Acephate	ND	0.05	0.03	5	Pass	Malathion	ND	0.05	0.03	5	Pass
Acequinocyl	ND	0.05	0.03	4	Pass	Metalaxyl	ND	0.05	0.03	15	Pass
Acetamiprid	ND	0.05	0.03	5	Pass	Methomyl	ND	0.05	0.03	0.1	Pass
Azoxystrobin	ND	0.05	0.03	40	Pass	Myclobutanil	ND	0.05	0.03	9	Pass
Bifenazate	ND	0.05	0.03	5	Pass	Naled	ND	0.1	0.05	0.5	Pass
Bifenthrin	ND	0.25	0.1	0.5	Pass	Oxamyl	ND	0.2	0.1	0.3	Pass
Boscalid	0.162	0.05	0.03	10	Pass	Pentachloronitrobenzene	ND	0.1	0.05	0.2	Pass
Captan	ND	0.35	0.2	5	Pass	Permethrin	ND	0.25	0.1	20	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass	Phosmet	ND	0.05	0.03	0.2	Pass
Chlorantraniliprole	ND	0.05	0.03	40	Pass	Piperonyl Butoxide	ND	0.25	0.1	8	Pass
Clofentezine	ND	0.05	0.03	0.5	Pass	Prallethrin	ND	0.05	0.03	0.4	Pass
Cyfluthrin	ND	0.35	0.25	1	Pass	Propiconazole	ND	0.05	0.03	20	Pass
Cypermethrin	ND	0.35	0.2	1	Pass	Pyrethrins	ND	0.25	0.1	1	Pass
Diazinon	ND	0.05	0.03	0.2	Pass	Pyridaben	ND	0.05	0.03	3	Pass
Dimethomorph	ND	0.05	0.03	20	Pass	Spinetoram	ND	0.05	0.03	3	Pass
Etoxazole	ND	0.05	0.03	1.5	Pass	Spinosad	ND	0.05	0.03	3	Pass
Fenhexamid	ND	0.05	0.03	10	Pass	Spiromesifen	ND	0.05	0.03	12	Pass
Fenpyroximate	ND	0.05	0.03	2	Pass	Spirotetramat	ND	0.05	0.03	13	Pass
Flonicamid	ND	0.05	0.03	2	Pass	Tebuconazole	ND	0.05	0.03	2	Pass
Fludioxonil	ND	0.05	0.03	30	Pass	Thiamethoxam	ND	0.25	0.1	4.5	Pass
Hexythiazox	ND	0.05	0.03	2	Pass	Trifloxystrobin	ND	0.05	0.03	30	Pass
Imidacloprid	ND	0.35	0.1	3	Pass						

Unknown Analyte(s):

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used: LC-MSMS & GC-MSMS*



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Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

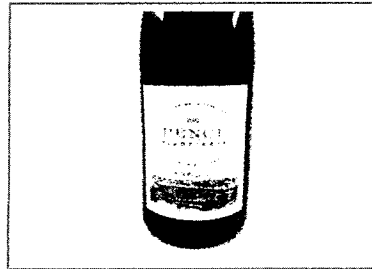
ICAL ID: 20190731-054
Sample: 1907ICA3745.11009
PENCE ESTATE PINOT
Strain: PENCE ESTATE PINOT
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121
Lic. #

Batch#:
Primary Size:
Total/Batch Size:
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Moisture NT	Δ9-THC NT	CBD NT	Total Cannabinoids NT	Total Terpenes 0.00 mg/g
Water Activity NT				

Summary	SOP Used	Date Tested	Pass
Batch			Complete
Terpenes	SOP:TERP.MS.Beverage1	08/01/2019	Pass
Pesticides	PEST.002 Edible	07/31/2019	Pass



Scan to see results

Cannabinoid Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
---------	-----	-----	---	------	---------	-----	-----	---	------

Total THC=THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying, Water Activity:Water Activity Meter, Foreign Material:Microscope*

Terpene Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
α-Bisabolol	0.20	0.10	ND	ND	δ-Limonene	0.20	0.10	ND	ND
α-Humulene	0.20	0.10	ND	ND	Eucalyptol	0.20	0.10	ND	ND
α-Pinene	0.20	0.10	ND	ND	γ-Terpinene	0.20	0.10	ND	ND
α-Terpinene	0.20	0.10	ND	ND	Geraniol	0.20	0.10	ND	ND
β-Caryophyllene	0.20	0.10	ND	ND	Linalool	0.20	0.10	ND	ND
β-Myrcene	0.20	0.10	ND	ND	Ocimene	0.20	0.10	ND	ND
β-Ocimene	0.20	0.10	ND	ND	(-)-Guaiol	0.20	0.10	ND	ND
β-Pinene	0.20	0.10	ND	ND	(-)-Isopulegol	0.20	0.10	ND	ND
Camphene	0.20	0.10	ND	ND	p-Cymene	0.20	0.10	ND	ND
Caryophyllene Oxide	0.20	0.10	ND	ND	Terpinolene	0.20	0.10	ND	ND
cis-Nerolidol	0.20	0.10	ND	ND	trans-Nerolidol	0.20	0.10	ND	ND
δ-3-Carene	0.20	0.10	ND	ND	Total			0	0

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used:HS-GC-FID-FID*



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QA SAMPLE - INFORMATIONAL ONLY

2 of 3

ICAL ID: 20190731-054
Sample: 1907ICA3745.11009
PENGE ESTATE PINOT
Strain: PENGE ESTATE PINOT
Category: Ingestible

Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#: _____
Primary Size: _____
Total/Batch Size: _____
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status
------------	-----	-----	-------	--------	------------	-----	-----	-------	--------	------------	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ) , *analytical instrumentation used=HS-GC-FID-FID*

Heavy Metal Screening

	LOQ	LOD	Limit	Status
--	-----	-----	-------	--------

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ) , *analytical instrumentation used:ICP-MS*

Microbiological Screening

	Result	Status
--	--------	--------

ND=Not Detected; *analytical instrumentation used:qPCR*



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QA SAMPLE - INFORMATIONAL ONLY

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ICAL ID: 20190731-054
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Responsible AG Testing
Lic. #
None
San Diego, CA 92121

Lic. #

Batch#:
Primary Size:
Total/Batch Size:
Collected: 08/01/2019; Received: 08/01/2019
Completed: 08/01/2019

Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
Aldicarb	µg/g	µg/g	µg/g	Pass				
Carbofuran	ND	0.05	0.03	Pass				
Chlordane	ND	0.1	0.05	Pass				
Chlorfenapyr	ND	0.1	0.05	Pass				
Chlorpyrifos	ND	0.05	0.03	Pass				
Coumaphos	ND	0.05	0.03	Pass				
Daminozide	ND	0.05	0.03	Pass				
DDVP	ND	0.05	0.03	Pass				
Dimethoate	ND	0.05	0.03	Pass				
Ethoprophos	ND	0.05	0.03	Pass				
Etofenprox	ND	0.05	0.03	Pass				
Fenoxycarb	ND	0.05	0.03	Pass				
Fipronil	ND	0.05	0.03	Pass				
Imazalil	ND	0.05	0.03	Pass				
Methiocarb	ND	0.05	0.03	Pass				
Methyl Parathion	ND	0.1	0.05	Pass				
Mevinphos	ND	0.05	0.03	Pass				
Pacllobutrazol	ND	0.05	0.03	Pass				
Propoxur	ND	0.05	0.03	Pass				
Spiroxamine	ND	0.05	0.03	Pass				
Thiacloprid	ND	0.05	0.03	Pass				

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
Abamectin	µg/g	µg/g	µg/g	Pass	Kresoxim Methyl	µg/g	µg/g	µg/g	Pass		
Acephate	ND	0.05	0.03	5	Pass	Malathion	ND	0.05	0.03	5	Pass
Acequinocyl	ND	0.05	0.03	4	Pass	Metalaxyl	ND	0.05	0.03	15	Pass
Acetamiprid	ND	0.05	0.03	5	Pass	Methomyl	ND	0.05	0.03	0.1	Pass
Azoxystrobin	ND	0.05	0.03	40	Pass	Myclobutanil	ND	0.05	0.03	9	Pass
Bifenazate	ND	0.05	0.03	5	Pass	Naled	ND	0.1	0.05	0.5	Pass
Bifenthrin	ND	0.25	0.1	0.5	Pass	Oxamyl	ND	0.2	0.1	0.3	Pass
Boscalid	0.068	0.05	0.03	10	Pass	Pentachloronitrobenzene	ND	0.1	0.05	0.2	Pass
Captan	ND	0.35	0.2	5	Pass	Permethrin	ND	0.25	0.1	20	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass	Phosmet	ND	0.05	0.03	0.2	Pass
Chlorantraniliprole	ND	0.05	0.03	40	Pass	Piperonyl Butoxide	ND	0.25	0.1	3	Pass
Clofentezine	ND	0.05	0.03	0.5	Pass	Prallethrin	ND	0.05	0.03	0.4	Pass
Cyfluthrin	ND	0.35	0.25	1	Pass	Propiconazole	ND	0.05	0.03	20	Pass
Cypermethrin	ND	0.35	0.2	1	Pass	Pyrethrins	ND	0.25	0.1	1	Pass
Diazinon	ND	0.05	0.03	0.2	Pass	Pyridaben	ND	0.05	0.03	3	Pass
Dimethomorph	ND	0.05	0.05	20	Pass	Spinetoram	ND	0.05	0.03	3	Pass
Etoazole	ND	0.05	0.03	1.5	Pass	Spinosad	ND	0.05	0.03	3	Pass
Fenhexamid	ND	0.05	0.03	10	Pass	Spiromesifen	ND	0.05	0.03	12	Pass
Fenpyroximate	ND	0.05	0.03	2	Pass	Spirotetramat	ND	0.05	0.03	13	Pass
Flonicamid	ND	0.05	0.03	2	Pass	Tebuconazole	ND	0.05	0.03	2	Pass
Fludioxonil	ND	0.05	0.03	30	Pass	Thiamethoxam	ND	0.25	0.1	4.5	Pass
Hexythiazox	ND	0.05	0.03	2	Pass	Trifloxystrobin	ND	0.05	0.03	30	Pass
imidacloprid	ND	0.35	0.1	3	Pass						

Unknown Analyte(s):

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less than the Limit of Quantification (LOQ), *analytical instrumentation used: LC-MSMS & GC-MSMS*



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Exhibit B

Estimated emissions, concentrations,
and deposition of monoterpenes from
and outdoor *Cannabis* farm

Prepared by Dr. William Vizquete
Pacific Environmental Analysis LLC

For

Hacienda Company, LLC

Dated: December 6, 2019

Estimated emissions, concentrations, and deposition of monoterpenes from an outdoor *Cannabis* farm

Final Report

Prepared for:
Brett Vapnek
The Hacienda Company, LLC
brett@thehacienda.co

Prepared by:
Dr. William Vizuete
Chief Scientific Officer
Pacific Environmental Analytics LLC
will@pac-enviro.com

December 6, 2019



Pacific Environmental Analytics

5142 Hollister Avenue #507 Santa Barbara, CA 93111
(805) 364-2995 info@pac-enviro.com

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Executive Summary

The purpose of this study is to determine whether or not it is feasible for cannabis monoterpenes from the proposed project ('Hacienda' 3800 Baseline Avenue Santa Ynez California) to taint grapes on a neighboring property (Appellant, 3950 Baseline Avenue).

The appellants cite a peer reviewed publication ("Capone") which identifies 1,8-cineole (eucalyptol) as having a detrimental impact on grapes. (The monoterpene 1,8-cineole is present in eucalyptus trees and some, but not all, cannabis strains.) Averaging across three years of their reported data, the study determined amounts of eucalyptol per grape material of 2.6 ug/kg. We sought to determine if it is possible for cannabis monoterpenes from the Hacienda project to reach this same threshold value of eucalyptol per grape material – 2.6 ug/kg – at the neighboring farm.

It should be noted that 1,8 cineole (eucalyptol) is the only monoterpene to be identified as potentially causing wine taint. No other monoterpenes (such as beta-myrcene, alpha-terpinene, and terpinolene) have been found in peer reviewed studies to cause taint.

To run this model, we completed the following tasks over the last several months:

- 1) Determination of monoterpene emission factors using measurements from five Cannabis strains.
- 2) Creation of monoterpene emission rates using emission factors for the proposed Cannabis farm.
- 3) Prediction of gas-phase concentrations using the Cannabis farm's emission rates simulated over three seasons using local meteorology.
- 4) Determination of deposition rates from predicted gas-phase concentrations to grape material and comparison with the assumed threshold values.

Our model was based on the size and location of the proposed project – 3800 Baseline Ave – and utilized local meteorological data from the Santa Ynez airport.

The following work describes the results of the estimation of Cannabis farm emissions, the prediction of downwind concentrations, and the deposition to grape material of four monoterpenes produced by certain cannabis strains: 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene. The modeled rates of deposition were then compared with certain assumed threshold values defined for these terpenes.

The major findings from the completion of these tasks are listed below.

- For the cannabis monoterpenes to reach threshold values (that potentially taint the grapes), they would have to emit at the highest rate, at the average predicted gas-phase concentrations, for 1,121 days straight for 1,8-cineole. Therefore, it is highly unlikely that cannabis from the Hacienda project would taint any grapes at 3950 Baseline Ave because

cannabis is only grown seasonally, not year-round, and grapes are grown seasonally, not all year long. Furthermore, the cannabis is only emitting monoterpenes for 21 days prior to harvest. And if Hacienda had a maximum of 3 harvests per year, that would roughly only result in 63 days of emissions – compared to the 1,121 that would be required to taint the grapes. In other words, it would take 1,121 continual days of cannabis strains that have eucalyptol (not all strains have eucalyptol) emitting at the highest rate, without real world deposition loss (such as photochemistry) to result in grape absorption of terpenes at the threshold level, identified in the Capone study (of 2.6 ug/kg).

- Assuming mature Cannabis plants are emitting monoterpenes for 21 days prior to harvest, we estimate the fraction of the threshold values reached would be 1.9% for 1,8-cineole.
- Our model was very conservative and did not include real-world losses of gas-phase concentrations due to photochemistry and deposition during transport and thus are upper bound estimations. In reality, gas-phase concentrations of monoterpenes in the atmosphere have an average lifetime of minutes to hours in full sunlight, further reducing the possibility that the emission would travel to the nearby farm and taint the grapes. Our study did not include the real world losses due to photochemistry.
- Only 3 out of the 5 cannabis strains we evaluated had emission factors of eucalyptol. No 1,8-cineole emissions were found in two strains – Banjo, Presidential OG. The remaining strains had very small emission factors of eucalyptol ranging from 0.001-0.01 ug /g/hr.

Background

There currently exists only one peer-reviewed study that has linked the influence of 1,8-cineole in vineyards to taint in corresponding red wines [1]. This study (Capone) examined the effects that eucalyptus trees had on nearby vineyard operations. The study found the largest concentrations of 1,8-cineole in samples closest to eucalyptus trees. The study results were used to determine a threshold value for 1,8-cineole against which modeled deposition rates from predicted gas-phase concentrations could be compared.

Data from this study in Figure 1 shows 1,8-cineole concentrations in grape tissue from four grapevine rows over three vintages. Triplicate sampling was conducted at each of the three positions within each row. Using the highest measured values closest to the eucalyptus trees, a three year average was calculated of 2.6 ug/kg of 1,8-cineole per grape material. This average concentration was used as the threshold value for 1,8-cineole in the present modeling analysis.

Similarly, at the County of Santa Barbara Board of Supervisors meeting on August 20, 2019, data was publicly presented as shown in Figure 2. The figure shows terpene concentrations in grape material from two farms, one near a cannabis farm, and the second without a cannabis farm. There are three monoterpenes highlighted in yellow that were only found in the grape tissue near the cannabis farm. The data suggests the source of the monoterpenes was from the cannabis farm. The data does not suggest these monoterpenes had a deleterious effect on the quality of grape tissue, or the resulting wine produced. Nevertheless, for purposes of the present modeling analysis, the data presented was used to determine threshold values for the three monoterpenes identified: (i) 0.3801 mg/kg for beta-myrcene, (ii) 0.1931 mg/kg for alpha-terpinene, and (iii) 0.5632 mg/kg for terpinolene.

The goal of this work was to determine the amount of deposition of gas-phase concentrations of 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene that could occur on grape material located approximately 700 feet downwind, and then compare those concentrations with the assumed threshold values previously discussed. This goal was achieved by accomplishing the following tasks:

- 1) Determine emission factors using leaf enclosure measurements for five different strains of Cannabis;
- 2) Estimate emission rates for the proposed Cannabis farm based on the anticipated canopy size;
- 3) Predict gas-phase concentrations using EPA-approved dispersion modeling; and
- 4) Estimate deposition rates onto grape material located approximately 700 feet downwind.

Details on the methodology used in these tasks and results are described below.

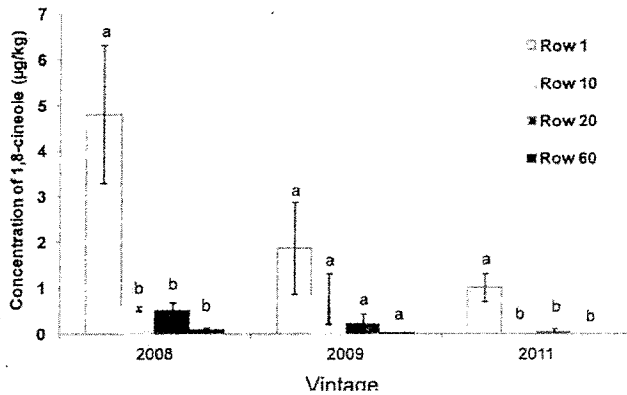


Figure 1. Concentration of 1,8-cineole (µg/kg) in grapes from different rows at set distances from the Eucalyptus trees over three vintages. Error bars represent the standard error of the mean for three replicates. Different letters indicate significant differences between the means ($p < 0.05$).

Round 1, Terpene Analysis on Grapevine Tissue near Hoop House Grow

9/3/2019

Date	Sample name	beta-Caryophyllene	alpha-Humulene	beta-Myrcene	alpha-Terpinene	Terpinolene	Values in PPM
6/8/2019	Site 1 SB	12.4066	12.9406	0.3801	0.1931	0.5632	mg/kg
6/8/2019	SL SB Control	7.5387	14.0317	0	0	0	mg/kg

Found in Cannabis but not in grapes.

Literature Defined
 Terp Armoa
 Thresholds 3-250+ 3-10 0-0.009 0.006-0.035 0.4-0.5

NOTES: higher value in one VOC does not necessarily signify it is more likely to be perceived.

Figure 2. Monoterpene analysis on grapevine tissue at two vineyards near a hoop house grow (Site 1 SB) and a second away from a Cannabis grow (SL SB Control).

1: Emission Factors Using Leaf Enclosure Measurements

The efforts to accomplish this task were completed by Synergy Environmental Solutions (SES) and led by Dr. Alex Guenther. Dr. Guenther is an international leader in atmospheric and terrestrial ecosystem research who has published more than 280 peer-reviewed journal articles. He has led more than 40 integrative field studies on six continents in tropical, temperate, and boreal ecosystems to provide observations to advance understanding of biogenic emissions and their role in air quality and climate. Dr. Guenther led Pacific Northwest National Laboratory's Environmental Molecular Science Laboratory and was Senior Scientist and Section Head at the National Center for Atmospheric Research (NCAR). The overall goal for SES was to quantify the emission capacities of five Cannabis strains at the mature growth stage to investigate their

potential impact on atmospheric distributions of specific biogenic volatile organic compounds (BVOCs). Although there are existing models available for estimating BVOC emissions from plants generally, the lack of emission factors for specific Cannabis strains limits accurate estimation of their emission rates. Therefore, the quantification of speciated emission factors is required to know the impact of a specific strain of Cannabis.



Figure 3. Example of leaf enclosure system used to develop emission factors.

To determine emission factors for 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene we conducted enclosure measurements from five (5) different Cannabis strains growing in a greenhouse environment (Forbidden Fruit, Banjo, Wedding Cake, Presidential OG, and Gorilla Glue), and calculated emission factors in $\mu\text{g/g/h}$ (at leaf conditions of temperature = 30°C and light = $1000 \mu\text{mol visible light m}^{-1} \text{s}^{-1}$). An example of the leaf enclosure used in this study is shown in Figure 3. The primary output is a dataset of terpenoid emission factors that is suitable for use in biogenic emission models that drive air quality simulations. We found that a bag enclosure system with TD-GC-MS/FID analysis is a suitable approach for characterizing Cannabis terpenoid emission factors and leaf cuvette measurements generally agree with bag measurements. However, there are uncertainties associated with potential emission perturbations that should be further investigated. Our results found ninety-seven terpenoid compounds including: 1 homoterpene, 30 monoterpenes, 5 aromatic monoterpenes, 21 oxygenated monoterpenes, and 40 sesquiterpenes. On average, monoterpenes contributed 69% and sesquiterpenes 31% of the total terpenoid emission.

Based on measurement data emission factors were developed for 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene. It is important to note that there was a complete lack of 1,8-cineole emissions from two strains: Banjo, Presidential OG. The other strains had relatively small emission factors ranging from 0.001-0.01 $\mu\text{g/g/hr}$.

2: Emission rates for *Cannabis* Farm

Hacienda reported 20,000 plants based on 2,000 plants per acre and a total canopy acreage of 10 (or 15 acres of cultivation area as defined by the County). The farm also reported that the 20,000 plants were evenly distributed (4,000 plants) among five strains: Forbidden Fruit, Banjo, Wedding Cake, Presidential OG, and Gorilla Glue. We were also provided, based on grower provided information, the dry plant weight of a mature plant in the outdoor grow for each strain. Using these data, and measured emission factors, emission rates of 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene were determined from the proposed *Cannabis* farm.

3: Predicted Gas-Phase Concentrations

Air dispersion modeling was completed using AERMOD version 19191 to determine the 1-hour gas-phase concentration of 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene using the emission rates described above. AERMOD is a U.S. EPA approved steady-state plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain [2].

It was assumed that 10 acres of canopy will be spread over roughly 15 acres as shown in red shade in Figure 4. All model predictions were completed for August through October in 2016, 2017, and 2018 using observed meteorological data derived from Santa Ynez airport monitoring station resulting in 2,160 simulated hours. September and October are also the days with the lowest wind speed, and the highest chance for deposition. Figure 4 provides the location of the farm at 3800 Baseline Avenue Santa Ynez, CA 93460 that was modeled as an area source denoted in a red shade. The receptor location where 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene concentrations were predicted is at 34°37'57.4"N 120°04'09.8"W (located approximately 700 feet downwind) and is shown in Figure 4 as a red cross.



Figure 4. The location of the farm, modeled as an area source, shown as a red shade. Also shown the receptor where model predictions were made denoted by a red cross.

The model predicted 2,160 hourly averaged model predictions of concentrations at the receptor location for 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene. Table 1

Table 1. Identified monoterpenes and their fraction of total monoterpene emissions from the Cannabis farm and the AERMOD predicted concentrations averaged over 2,160 hours.

Monoterpene	Fraction of total Emissions	Concentration (ug/m3)
1,8-cineole	1.0E-04	2.7E-04
Beta-myrcene	2.2E-01	5.8E-01
Alpha-terpinene	1.7E-02	4.4E-02
Terpinolene	1.6E-02	4.2E-02

shows the average concentrations for the entire modeling period. Beta-myrcene is the strongest emitter and thus had the largest predicted downwind concentrations. Given the relatively small emissions of 1,8-cineole, the predicted concentrations of this monoterpene were three orders of magnitude smaller than beta-myrcene.

4: Deposition Rates

Comparison with threshold values requires estimation of deposition rates of the gas-phase molecules into the grape tissue. Deposition from the gas-phase is an important process that has to be addressed in all air-quality models. Wesely (1989) developed a parameterization scheme for estimating gaseous dry deposition velocities, which has been widely used in a number of models [3]. A review of available dry deposition models has been reported by Wesely and Hicks (2000) [4]. Most existing dry deposition models utilize the multiple resistance analogy approach when parameterizing the deposition velocity to vegetation and other surfaces.

This analysis relied on the deposition velocities estimated in the Comprehensive Air Quality Model with Extensions, CAMx6.10 [5, 6] for this location. The model and protocols used in this study are based on the Western Air Quality Modeling Study (WAQS) for 2011 [6, 7]. The WAQS 2011b baseline model simulation period runs from June 15th to September 15th, 2011. All data and supporting documentation are publicly available via the Intermountain West Data Warehouse (IWDW) website [8]. At the location of the receptor this study predicted an average deposition velocity for the terpene (TERP) species of 6.7 e-5 m/s [6, 7]. Using this velocity, and predicted gas-phase concentrations, a flux of 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene can be determined. Assuming a yield of 3 tons of grapes per acre [9] the rate of 1,8-cineole, beta-myrcene, alpha-terpinene, and terpinolene per mass of grape tissue was calculated. These results were then used to determine how long it would take to reach the threshold values and results are shown in Table 2.

It should be noted that although terpenes, once released, are highly reactive to sunlight and other environmental factors, the modeling did not account for photochemical or other types of degradation and loss that can often occur during transport. In addition, the modeling assumed a smaller plume rise than one would normally expect from a cannabis farm of this size, and for these reasons the modeling results should be considered very conservative.

As shown in Table 2 to reach threshold values would require, at the predicted average gas-phase concentrations, 1,121 days for 1,8-cineole, 75.9 days for beta-myrcene, 1,005 days for alpha-terpinene, and 1,486 days for terpinolene. Assuming that mature *Cannabis* plants are emitting for 21 days prior to harvest, the fraction of the threshold values reached would be 1.9% for 1,8-cineole, 27.7% for beta-myrcene, 4.1% for alpha-terpinene, and 1.4% for terpinolene.

Table 2. The identified monoterpenes and their reported threshold values (THV) used in this study. Also shown are the number of days to achieve the THV at average gas-phase concentrations. Assuming a 21-day growing season for emissions of a mature Cannabis plant, data is shown as the percentage of THV values that are achieved in that time period.

Monoterpene	Threshold Value (ug/kg)	Time to reach THV (days)	Season fraction of THV (%)
1,8-cineole	2.6	1121	1.9
Beta-myrcene	381	75.9	27.7
Alpha-terpinene	193	1005	4.1
Terpinolene	563	1486	1.4

Reference:

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Pacific Environmental Analytics

April 29, 2020

Santa Rita Valley Ag, Inc.
996 South Seaward Ave., Suite 102
Ventura, CA 93001

Re: *December 6, 2019 Final Report for The Hacienda Company, LLC*

To Whom It May Concern:

It has come to our attention that your company, Santa Rita Valley Ag, Inc. ("SRVA"), is considering submitting a copy of the above-referenced Final Report previously prepared for one of our clients, The Hacienda Company, LLC (the "Hacienda Report"), at SRVA's upcoming Santa Barbara County Board of Supervisors Appeal Hearing on May 6, 2020. While the findings and general conclusions in the Hacienda Report are valid, they are site-specific and not generally applicable to other cannabis operations or their neighboring properties.

To be clear, the findings and conclusions of the Hacienda Report cannot and should not be relied upon by SRVA or any other individual or entity with a different geographic location than the sites at issue in the Hacienda Report.

Sincerely,

A handwritten signature in cursive script that reads "Michael D. Head".

Michael D. Head
COO | Chief Legal Officer
mike@pac-enviro.com

Exhibit C

Email from Blair Pence to John Harris,
Santa Rita Valley Ag

Dated: April 16, 2020



John Harris <harris02@gmail.com>

tort claim

3 messages

Blair Pence <blair@pencevineyards.com>
To: John Harris <harris@numericolutions.com>

Thu, Apr 16, 2020 at 3:09 PM

John-

There was one other thing I meant to bring to your attention when we discussed the tort claim I would file. Assume best case, your project was to get approved, you obtain a business license, and you prevail in the CEQA litigation. You get a year or two of profits in spite of all my objections, but what happens if you lose the tort case? Ask your lawyer about disgorgement of your profits under the unfair business practices act - Business & Professions code 17,200.

Sorry, but you're the messenger. My playbook is right out in the open.

Blair Pence
cell: 213-910-1971
blair@pencevineyards.com

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John Harris <harris@numericolutions.com>
To: Richard Banks <rbbanksenergy@gmail.com>, Donn Pedersen <donn@opt-energy.com>, Robert Harvey <robh@pinpointleakdetection.net>
Cc: Linda Ash <lindaash99@gmail.com>

Thu, Apr 16, 2020 at 3:15 PM

[Quoted text hidden]

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