Project Greenhouse Gas Emissions (GHG) and Reductions Summary

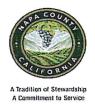
The Draft Napa County Climate Action Plan requires that staff calculate the GHG emissions of all discretionary projects in the year 2020 assuming "business as usual" (BAU) conditions. Below is a description of BAU, target emissions if the CAP were to be adopted, and GHG reductions from state, local, and project level actions.

Project Name:	Safe Harbor P13-00009	Target Build-Out Year:	2020				
	As modeled: 60,560 sq.ft light industrial; 1,319 sq.ft. office; 40 new parking spaces; 51,351 sq.ft. of new impervious (roads and driveways); 10new FTE; connection to City of Am. Can. For water.						
	connects to NSD reclaimed water for I grassland; EV charging station; pre-wi Title 24 Tier 2						

A. PROJECT'S BAU EMISSIONS IN 2020	424
Energy	97
Mobile	321
Water & Wastewater	2
Solid Waste	5
Land use Change	9
D. FMICCIONS DEDUCTIONS MEEDED TO MARKET TO BE A	
B. EMISSIONS REDUCTIONS NEEDED TO MEET TARGET	161
Target Emissions - 38% BAU Emissions in 2020	
C. GHG REDUCTIONS FROM STATE LEVEL PROGRAMS	80
Energy	13
Mobile	67
Other	TBD
Land Use Change	
D. GHG REDUCTIONS FROM LOCAL PROGRAMS AND	9
PROJECT LEVEL ACTIONS Energy	6
Mobile	
Other	3
Total Stock at 100 years (Reference): 2.16 Land Use Change	0.02
E. TOTAL GHG REDUCTIONS IDENTIFIED	89
State + Local + Project (D + E); Compare to Box C above	89
F. ADDITIONAL GHG REDUCTION OR MITIGATION REQUIRED	72
Balance of reductions needed to reach target (C-G)	

G. PERCENTAGE OF REDUCTIONS IDENTIFIED

21%



Data request for analysis of operational characteristics for Residential, Commercial, or Industrial projects

The Napa County Climate Action Plan requires that staff calculate the GHG emissions of all discretionary projects assuming "business as usual" (BAU), and that applicants reduce those emissions by 38%. This checklist identifies the data needed to complete the required calculations and allows applicants to select the emissions reduction measures they wish to use. Applicants may retain consultants to prepare their own calculations if desired. Default calculations will be based on thresholds dervied from California Air Pollution Control Officers Assocation (CAPCOA) and Bay Area Air Quality Management District's CalEEmod model, as well as standard factors for vegetation removal and retention/replacement.

Contact Information:

Name of project: Safe Harbor II	Project Number:
Project address & APN: 057-210-032	
Primary contact name(s): Beth Painter	
Contact e/mail: beth@bpnapa.com	Phone: 707-287-9089

Part A: Business As Usual (BAU)

1. Input for new construction or operations (or change in land use type)

Land Use Type	# of units Square Footage removed	Square Footage	# of Full-time equivalent employee (use 0.5 for part-time)		
				Mon-Fri	Sat & Sun
Dwelling unit					
Warehouse			59745	8	8
Light Industrial (winery production	n)				
High quality restaurant (tasting ro	om)				
Retail					
Office			1694	2	2
Other (please explain)					
	Total		61439	10	10

1.1 Input if you are a winery, if not, skip this section.

Visitation - Daily Tours and tasting N/A

	Tours and tasting	# of guests Mon-Fri	# of guests Sat & Sun	Total number of guests per	Number of days closed	Total number of guests per year
Proposed						
Existing						
Net change	of tours and tastings					

Visitation - Special events and marketing $\,\mathbb{N}/\mathbb{A}\,$

Proposed Total Marketing Plan		Existing Marketing Plan				
# of events/yr	# of guests per event	Subtotal	# of events/yr	# of guests per event	Subtotal	Total Net Change (Proposed - Existing)

Net change of	of annual visitation				
Total propos	ed annual visitation	Total existing	g annual visitat	ion	
				1	

2. Site Development

	Acres removed	Acres planted	Net Change
Vegetation type			
Coniferous Forest		a la	
Oak Woodland			
Riparian Woodland			
Shrub	_ Lan	dsdape Plan-see	attached plans
Vineyard			
Other (please explain) Grasses	2.97	0.42	2.55
Already Developed area (i.e. asphalt)			
Total acres of land developed 2.97 acres			

New Site Improvements	Amount	Unit	
Caves		Square feet	
Grading		Square feet	
Roads		Square feet	
Parking		Square feet	7,522
Hardscape (anything paved)		Square feet	43,829
Landscape		Square feet	18,356
Total square footage of site improvements		Square feet	69,707
Size of new or expanded wastewater lagoons		Square feet	
Amount of new or increased use of groundwater		Gallons per year	
on site garden for cultivation of food?	E	Square feet	

Part B: Emission Reduction Measures

		amount	unit	yes	no
Operations					
1	If the project is a winery is your existing winery a Napa Certified Green Winery?	N/A			
2	If you are a new winery, have you applied to be a Napa Certified Green Winery?	N/A			
3	Do you intend to recycle more than what the local landfill provides, if so what percentage of reduction.	N/A	%	Verify Civil	y with
lobile Vehi	cle Trips				
4	Does the facility have alternative fuel vehicles in fleet, such as <u>electrical vehicles</u> or alternative diesel?	The second secon	etermined - c vehicle ch	The state of the s	ons for
	If yes, what percentage of fleet?	TBD	%		

5	Does your project have bicycle access and parking?	10			х	
6	Does the employer have a employee transportation demand management plan with feasible commute incentives (i.e.: telecommute 1.5 days per week or alternative work schedules? If yes please provide example and percentage of employees that participate.	N/A		%		x
7	Does the employer sponsor a van/pool shuttle for visitors? If yes, what percentage of visitation will use it?	N/A		%		
8	Is the project requesting a parking reduction, if yes what percentage?			%		х
9	Does the parking lot provide a charging station for electrical vehicles? If yes, how many?	2	station		x	
nergy Use	and Generation					
10	Has the facility already installed renewable energy on-site since 2005?	N/A				
	If yes, how much?	N/A	KW hrs.			
11	Does the proposal include installation of renewable energy on-site?			nd prov	isions	for
	If yes, how much?	unknown	KW hrs.			
	Is it connected to an integrated battery system?	unknown				
12	Does your project have specific heating/cooling demands (such as wine cooling) requirements? If yes, explain: Mechanical night	cooling system		х		
uilding an	d Construction					
13	Do you intend to build to Cal Green* Tier 2 1 standards?	Some; se	e Cal	Green s	heet	
14		Some; se	e Cal	Green s	heet	
15	Do you have areas such as a cave, or natural cooling, passive solar that will exceed 2005 Title 24 standards? Explain: Night cooling; mechanical and	passive				x
	If so, how many square feet?	60,000	/ - Sq. Ft			
	What is the percent reduction of 2005 Title 24 standards for that portion?	unknown	%			
16	If the project is a winery, does it propose any energy efficient equipment (i.e.: gravity flow rather than pumping, energy star appliances, etc)? Please list	N/A				

	If so, ho many annual kilowat hours saved?	N/A	KW hrs.		
Develo	ppment				
17	Does the project intend to restore degraded habitat?	N/A			
	If so, how many acres?	N/a	acres		
18	Does the landscape plan include the planting of more than 6 shade trees within 40 feet of the			х	
	If so, how many trees?	TBD	trees		
19	Will the project replace more than a 2:1 ratio of trees on site, and if so how many additional?	N/A	trees		x
	What specie?	N/A			x
ter & W	/astewater				
20	Does the project connect to a munipical water source?			x	
21	Will the project rely on an onsite well?				х
22	How many gallons of water per day is dedicated to domestic water use? See Will Serve let	ter	g/day		
23	How many gallons of water per day is dedicated to landscape? See Will Serve letter		g/day		
24	Will the project connect to municipal sanitary sewer system?			х	
25	Will the project connect to municipal reclaimed water?			x	
26	Will the project have an on-site septic system?				x
27	If so, how big are the proposed lagoons?	N/a	sq. ft.		
28	Will the project have it's own treatment system? If so, explain: Pre-filter of wash water			x	
	Other, Please explain: <u>See attached Use Permit</u> <u>Project Statement for details</u> of project features.				

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Checklist of Voluntary Greenhouse Gas Emission Reduction Measures

PROJECT NAME



An addendum to the Entitlement Application and a supplement for Initial Studies as required by CEQA

Safe Harbor II

C 8	PROJECT ADDRESS	Technology Way			
PILFORMI	APPLICANT	Safe Harbor Partner	ners, LLC		
A Tradition of Stewardship A Commitment to Service	CONTACT INFO	beth@bpnapa.com	707-289-90 phone	089	
				1.1	
1 Have you designed to U	J.S.G.B.C.™ LEED™ or Build It	Green™ standards?	yes no	I don't know Green	
	s, please include a copy of their				
2 Do you have an integral	ted design team?	2	X		
if yes	s, please list: <u>See</u>	Attached Exhibi	t "A"		
3 SITE DESIGN	n encourage community gatheri	ng and is it nedestrian friendly?			
10 CO. 10	on existing disturbed areas?	ng and is it pedestrian mendiy?	X	+	
3.3 Landscape Desi					
	re plants?		Х		
	ght tolerant plants?		Х		
	ce Disease resistant planting?			 x	
	resistant planting? you restoring open space and/or	hahitat?	X	+	
	you harvesting rain water on site		x	X	
	ting large trees to act as carbon		x		
5. Part 200 - 100		r drive access and walking surfaces	? X		
3.4 Does your parki	ng lot include bicycle parking?		X		
	-site waste water disposal?		X		
3.6 Do have post-co	onstruction stormwater on site de	etention/filration methods designed?	X	uterennings?	
3.7 Have you design	ned in narmony with existing hat	tural features, such as preserving ex	X X X X X X X X X X X X X X X X X X X	atcroppings?	
3.8 Does the project	t minimize the amount of site dis	sturbance, such as minimizing gradi		risting	
	ne overall site design (such as ca		X		
	designed to take advantage of n	atural cooling and passive solar asp	ects?		
Solar p	anels (future)	, night cooling	Х		
	W & EFFICIENCY			, suntain	
4 ENERGY PRODUCTION 4.1 Does your facility	ty use energy produced on site?	Future TRD			
	xplain the size, location, and per				
		10			
4.2 Does the design	n include thermal mass within the	e walls and/or floors?	х		
4.3 Do you intend to	o commission the performance o eerreed for fu	of the building after it is built to ensu		gned?	
		cure FV/Borar	Х		
	for construction include: n density insulation above Title 2	4 standards?	x	T	
	es for heating and cooling to pro		X		
	rgy Star™ or ultra energy efficie		x		
4.44 A "c	cool" (lightly colored or reflective)		X		
	ers/time-outs installed on lights (Х		
If yes, please e	xplain: <u>Per Cal Gr</u>	een Requirements	3		
5 WATER CONSERVAT	TON				
	scape include high-efficiency irri	gation?	Х		
	scape use zero potable water irri			Х	
		lapa Sanitation reclaimed water?	Х		
	y use recycled water?	estalling dual pipes and/ar purel - line	2 7	X	
	o, will you prepare for it by pre-in for construction include:	stalling dual pipes and/or purple line	es? X		
	eter to track your water usage?		х	T	
	a water efficient fixtures and app	liances?	X		
		nethod, such as an on-demand pum			
			X		
5.54 a tir		e run only at night/early morning?	Х	and the second second	

_	MATERIAL REGIONALING	yes	no	I don't know			
6	6 MATERIAL RECYCLING 6.1 Are you using reclaimed materials?		_				
	If yes, what and where: Steel throughout - recycl	able	_				
	6.2 Are you using recycled construction materials-			_			
	6.21 finish materials?	Х					
	6.22 aggregate/concrete road surfaces?	X	7.5				
	6.23 fly ash/slag in foundation?		X				
	6.3 Will your contractor be required to recycle and reuse construction materials as part	of your contr	act?				
		X					
	6.4 Does your facility provide access to recycle-						
	6.41 Kitchen recycling center? \mathbb{N}/\mathbb{A} 6.42 Recycling options at all trash cans?	35					
	6.43 Do you compost green waste?	X	х				
	6.44 Provide recycling options at special events? N/A	-		_			
	7 - 7						
7	NATURAL RESOURCES	~					
	7.1 Will you be using certified wood that is sustainably harvested in construction? N/2						
	7.2 Will you be using regional (within 500 miles) building materials?7.3 Will you be using rapidly renewable materials, such as bamboo?	X	x				
	7.4 Will you apply optimal value engineering (studs & rafters at 24" on center framing)?		-	N/A			
	7.5 Have you considered the life-cycle of the materials you chose?	х		11/11			
8	INDOOR AIR QUALITY						
	8.1 Will you be using low or no emitting finish and construction materials indoors- 8.11 Paint?	Х					
	8.12 Adhesives and Sealants?	X					
	8.13 Flooring?	X					
	8.14 Framing systems?	x					
	8.15 Insulation?	X					
	8.2 Does the design allow for maximum ventilation?	x	35				
	8.3 Do you plan for a wood burning fireplace (US EPA Phase II certified)? 8.4 Does your design include dayling, such as skylights?		_ X				
Ni	ight cooling vents and fans will be ins	talle	a				
9	TRANSPORTATION DEMAND MANAGMENTMENT						
	9.1 After your project is complete, will you offer your employees incentives to carpool, I	the second second second	transit?				
	9.2 After your project is complete, will you allow your employees to telecommute or have	ve alternativ	e work sch	edules?			
	3.2 Arter your project is complete, will you allow your employees to telecommute or not	To alternative	X				
9.3 Does your project include design features that encourage alternatives modes of transportation, such as							
	preferred parking for carpooling, ridesharing, electric vehicles?	X					
	secured bicycle parking, safe bicycle access?	X	x				
	loading zones for buses/large taxi services? 9.4 How close is your facility to public transportation?	L	_ ^				
	<u>Does not apply - not available.</u>						
10	Are there any superior environmental/sustainable features of your project that should be no Steel tanks from recycled metal	oted?					
	Night cooling system						
41+2++0 000+4+A 01000m							
11	What other studies or reports have you done as part of preparing this application?			_			
	1 Experience with building of th	ie saii	e us	e			
	3						
	4						
10	If your project involves an addition or modification to an existing building, are you planning	to improve	energy co	nservation of			
12	existing space (such as insulation, new windows, HVAC, etc.)?	to improve	energy co	iservation of			
	If yes, please describe: N/A						
13	Once your facility is in operation, will you:						
	13.1 calculate your greenhouse gas emissions? TBD 13.2 implement a GHG reduction plan? TBD		_	-			
	13.3 have a written plan to reduce your vehicle miles traveled of your operat	ions and em	plovee's c	ommute?			
	in the state of th		X				
14	Does your project provide for education of green/sustainable practices?						
	If yes, please describe: To be determined						
15	15 Any comments, suggestions, or questions in regards to the County's efforts to reduce greenhouse gases?						
10	See attached Use Permit Project Stater	ment f	or d	etails			
	of GHG reduction measures incorporated in this project.						
	Form filed out by:						