

Sonac Australia Pty Ltd DEVELOPMENT LICENCE APPLICATION

Application ID: APP002180

EPA Vic.

Request for Further Information

RFI001912 - EPA 4/4/22

April 2022

The following report details further information as requested by RFI001912

Sonac Australia Pty Ltd
ACN 155 858 601
281 Maryborough - Dunolly Rd, Maryborough, VIC



REQUEST BY EPA	SONAC FURTHE	R INFORMA	TION				
Further information is							
required, including							
evidence showing that you							
have -							
Reviewed of							
a) all sources of noise	a) All sources of r	oise associate	ed with activities on the premis	ses were			
associated with the	measured and assessed at the Sonac site on 5/4/22, refer to Attachments						
activities within their	2-4 for details of locations.						
premises,	Average noise measurements associated with the activities of the premises						
	were measured u	sing a mobile	app Decibel Meter – dB at che	st height and			
b) including existing	away from possible sources of sound reflection.						
operation, and the	Point source @ 1	m	Noise Measured dB(A)	Op. Hrs			
	Dryer fan room		83 (1m from dryer room)	24/7			
c) proposed expansion, and	Centrifuge shed		82 (1m, to be decommissione	ed) 24/7			
AV dest effect of the control	Air compressors		78 (1m from shed housing)	24/7			
d) detailing their location,	Chiller		79 (1m from chiller)	24/7			
and	Permeate pump s	set shed	78 (1m from shed)	24/7			
e) hours of operation.	(Intermittent ope						
e) flours of operation.	Permeate recircu	lation pump	78 (1m from pump)	24/7			
	Evaporators		79 (15m from evaporator)	24/7			
			essment survey was conducted				
	21:30 in clear and	l calm conditi	ons. Noise measurements were	e taken on the			
			eter, refer to Attachment 1.				
	Noise measurem						
			se dB(A) Peak dB(A)				
		8	60				
		0	63 (car passing)				
		8	64 (car passing)				
		6	58				
	There are no resid	dential prope	rties near the site.				
	a) The much seed of		ludes the installation of a new l				
	c) The proposed expansion includes the installation of a new box dryer and						
	a new blower shed. All blowers have been ordered with sound deadening						
	hoods. The manufacturer projects blowers to generate noise of 77dB(A) at						
	1m from the blower unit. These units will be housed inside a colour bond						
	metal blower shed. All interior walls and roof to be insulated with 'Aircell						
	Insulbreak 70'. Actual noise level outside the insulated blower shed is to be						
	determined but expected to be reduced. Manufacturers specification						
	statements for noise emissions for each unit without hood ~109dB(A) and						
	with hood ~77dB(A). Refer to Attachment 6 for the proposed new blower shed schematic.						
	Sileu scilettiatic.						
	d) Details of the location of all noise generating sources detailed in						
	Attachments 2, 3		noise generaling sources detail	CG III			
	e) Sonac Australia	a manufacturi	ng facility operates 24hrs 7 day	rs a week			
	(24/7). Raw material blood deliveries and dispatches of finished product						
		•	affic occurs Monday to Saturda	y and is			
	presented in the	tables below.					



Assessment of vehicular traffic to and from Sonac manufacturing site comparing present operations and production capacity and proposed operations following the construction of the expansion project and production increase. Production increase expected 2025.

Present traffic 30,000T RM

Proposed 50,000T RM traffic (60% increase)

		,	,
Purpose	Number per 7 days	Purpose	Number per 7 days
Sludge disposal	.43	Cake disposal truck	.28
Incoming RM	Per raws sheet	Incoming RM	per raws sheet
Finished product out	1.14	Finished product out	1.8
Permeate golf course	.28	Permeate golf course	0
Goods incoming (incl chemical deliveries, pallets)	.42	Goods incoming (incl chemical deliveries, pallets)	.68

				SUNAC III	ARYBOROUGH - SEMI	PIOVENI	EN 15			
NOW 2021										
	Val (MT)	Trucks	Per Day Entries							
					Entry		Exit			
Raws	31000	1550	4.3	0%	between 0800 - 1200	5%	between 0800 - 1200			
				0%	between 1200 - 1600	10%	between 1200 - 1600			
Melb	6000			20%	between 1600 - 2000	45%	between 1600 - 2000			
Colac	5000			20%	between 2000 - 2400	15%	between 2000 - 2400			
Varnantoool	7000			40%	between 2400 - 0400	15%	between 2400 - 0400			
Moe	2000			20%	between 0400 - 0800	10%	between 0400 - 0800			
Wagga	1000			100%		100%				
Grampians	4000									
North	3000		4.26		Entry		Exit	Total	Movements Trucks	
SA	3000			0.0	between 0800 - 1200	0.2	between 0800 - 1200	0.2	between 0800 - 1200	
				0.0	between 1200 - 1600	0.4	between 1200 - 1600	0.4	between 1200 - 1600	
				0.9	between 1600 - 2000	1.9	between 1600 - 2000	2.8	between 1600 - 2000	
				0.9	between 2000 - 2400	0.6	between 2000 - 2400	1.5	between 2000 - 2400	
				1.7	between 2400 - 0400	0.6	between 2400 - 0400	2.3	between 2400 - 0400	
				0.9	between 0400 - 0800	0.4	between 0400 - 0800	1.3	between 0400 - 0800	
				4.26	Detween 0400 - 0800	4.26	De. Weel 1 0400 = 0800	8.52	Detween 0400 - 0800	
				4.20		7,20		0.32		
				0.0	Business Hours	0.6	Business Hours	0.6	Business Hours	8
				4.3	After Hours	3.6	After Hours	7.9	After Hours	93
TURE 2025	Vol	Trucks	Per Day Entries							
TURE 2025	Val	Trucks	Per Day Entries		Entry		Exit			
			1	0%	Entry	5%				
Raws	Val	Trucks	Per Day Entries	0%	between 0800 - 1200	5% 10%	between 0800 - 1200			
Raws	50000		1	0%	between 0800 - 1200 between 1200 - 1600	10%	between 0800 - 1200 between 1200 - 1600			
Raws Melb	50000		1		between 1200 - 1200 between 1200 - 1600 between 1600 - 2000	10% 45%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000			
Raws Melb Colac	50000		1	0% 20%	between 0800 - 1200 between 1200 - 1600	10%	between 0800 - 1200 between 1200 - 1600			
Raws Melb Colac Varrnambool	50000 7000 6000		1	0% 20% 20%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	10% 45% 15%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400			
Raws Melb Colac Varnambool Gippsland	50000 7000 6000 9000 2000		1	0% 20% 20% 40% 20%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400	10% 45% 15% 15% 10%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400			
Raws Melb Colac Varnambool Gippsland Wagga	50000 7000 6000 9000 2000 1000		1	0% 20% 20% 40%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	10% 45% 15% 15%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400			
Raws Melb Colac Varrnarrbool Gippsland Wagga Grampians	7000 6000 9000 2000 1000 4000		6.9	0% 20% 20% 40% 20%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800	10% 45% 15% 15% 10%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800	Total	Movements Trurks	
Raws Melb Colac Varnarrbool Gippsland Wagga Grampians North	7000 6000 9000 2000 1000 4000 5000		1	0% 20% 20% 40% 40% 100%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800	10% 45% 15% 15% 10% 10%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800		Movements Trucks	
Raws Melb Colac Varnarrbool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200	10% 45% 15% 15% 10% 100%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200	0.3	between 0800 - 1200	
Raws Melb Colac Varnarrbool Gippsland Wagga Grampians North	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 40% 100%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600	10% 45% 15% 15% 10% 100%	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600	0.3 0.7	between 0800 - 1200 between 1200 - 1600	
Raws Melb Colac Varnarrbool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100% 0.0 0.0	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600 between 1600 - 2000	10% 45% 15% 15% 10% 100% 0.3 0.7 3.1	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600 between 1600 - 2000	0.3 0.7 4.5	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000	
Raws Melb Colac Varrnarrbool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100% 0.0 0.0 1.4 1.4	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 1200 - 2400	10% 45% 15% 15% 10% 100% 0.3 0.7 3.1	between 1800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 1600 - 2400	0.3 0.7 4.5 2.4	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400	
Raws Melb Colac Varnarrbool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100% 0.0 0.0 1.4 1.4 2.7	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	10% 45% 15% 15% 10% 100% 0.3 0.7 3.1 1.0	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	0.3 0.7 4.5 2.4 3.8	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	
Raws Melb Colac Varnarrbool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100% 0.0 0.0 1.4 1.4 2.7	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 1200 - 2400	10% 45% 15% 15% 10% 100% 0.3 0.7 3.1 1.0 0.7	between 1800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 1600 - 2400	0.3 0.7 4.5 2.4 3.8 2.1	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400	
Raws Melb Colac Varrnarrbool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100% 0.0 0.0 1.4 1.4 2.7	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	10% 45% 15% 15% 10% 100% 0.3 0.7 3.1 1.0	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	0.3 0.7 4.5 2.4 3.8	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	
Melb Colac Varrnambool Gippsland Wagga Grampians North SA	7000 6000 9000 2000 1000 4000 5000		6.9	0% 20% 20% 40% 20% 100% 0.0 0.0 1.4 1.4 2.7	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Entry between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	10% 45% 15% 15% 10% 100% 0.3 0.7 3.1 1.0 0.7	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400 between 0400 - 0800 Exit between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	0.3 0.7 4.5 2.4 3.8 2.1	between 0800 - 1200 between 1200 - 1600 between 1600 - 2000 between 2000 - 2400 between 2400 - 0400	81



Minimised the risk of harm	Sonac will where reasonably practicable locate machinery indoors and
from noise so far as	house equipment in insulated structures.
reasonably practicable,	
consistently with the GED,	Routine monitoring of the site's operations and ground will be conducted
giving regard to section 25	during the weekly Plant Environmental Protection Systems Inspection
of the Act and to the	(PEPSI) to ensure operations are compliant with the GED.
relevant EPA guidance (e.g.	(1 El 31) to clisure operations are compliant with the GED.
publications 169.5 and	
1856).	
	All blowers boye been ordered with sound deadening cobinets and will be
Considered opportunities,	All blowers have been ordered with sound deadening cabinets and will be
which may arise from the	housed inside dedicated shed. This blower shed will be completely
proposed expansion, to	insulated with Aircell 70.
eliminate or otherwise	
reduce the contribution of	The existing Sludge Dewatering Centrifuge will be decommissioned and
existing noise sources	replaced with a significantly quieter screw press.
Implemented verification	Site audits/inspections are conducted weekly to verify processes are
processes (such as	environmentally compliant using the PEPSI program and includes
audits/inspections) to	monitoring of air, land, sound, water, and dust checks.
ensure that all measures	
and actions to minimise or	
otherwise manage the	
emissions of noise are	
adequately and	
consistently in place.	
Ensured that the premises	The Sonac site measurements of actual and predicted noise determine that
do not emit unreasonable	the premises does not emit unreasonable noise into noise sensitive areas.
noise, i.e.:	
- the residual noise,	The proposed box dryer, wastewater treatment plant and increased
once all measures to	trucking movements from operational expansion at the premises have
minimise the risk of	been assessed not to present a risk of exceeding noise limits.
harm from noise have	
been taken, does not	Sonac is also pursuing the implementation of a "quiet truck" procedure out
present a risk of	the front on the highway.
exceeding the noise	,
limits set by the	
Environment	
Protection Regulations	
2021 within noise	
sensitive areas	
- the risk of loud	The site does not have loud sporadic noises such as bangs, and clashes and
sporadic noise (e.g.	are unlikely to occur.
bangs and clashes) has	
been considered and	
adequately managed	
- risk of low frequency	All machinery, where practicable, is located indoors.
noise has been	This indefinitery, where practicable, is located indoors.
considered and	
adequately managed	
auequately managed	
(refer to the Noise	



guideline - assessing					
low frequency noise					
(publication 1996)					
Note: The assessment Sor	nac is located wit	hin proximity (over the road) to the	e Central Highland		
against the noise limits of Wa	Water (CHW) sewerage and wastewater treatment plant. Refer to				
the Regulations requires atta	achment 5.				
consideration of					
cumulative noise from An	ambient noise as	ssessment was conducted 12/12/2:	1 @ 19:00 in clear		
other commercial, and	and calm conditions (no wind) to determine effect of noise from other				
industrial and trade equ	equipment/facilities in the area. There were no building structures in the				
facilities that also affect near	or vicinity of the i	noise measurements.			
noise sensitive areas (for					
example the sewage The	e ambient noise v	was measured and was determined	to be 59dB(A) at t		
treatment plant located in roa	dside of CHW th	at is approximately 125m from the	location of the CH		
a nearby PUZ1). This may aer	ators. Noise gen	eration has been assessed to be op	erating at		
include consideration of app	proximately 100d	IB(A) at 1m. Refer to Attachment 5.	•		
industry development					
likely to be developed in The	CHW wastewat	er treatment plant has several larg	e surface aerators		
•	erating 24hrs/7 d	lays.			
industrial zone. Please					
	nd use category	Indicators	Objectives		
Technical guide: Measuring Co	itegory I	Outdoor LAeq,8h from 10 pm to 6 am	55 dB(A)		
and analysing industry	-	Outdoor LAeq,16h from 6 am to 10 pm	60 dB(A)		
noise and music noise		I			
(publication 1997) for					
further information.					
Considered adequately the Sor	ac is in the provi	imity of two Nature Conservation r	acanyas that ara		
• • • • • • • • • • • • • • • • • • • •	iac is iii tile proxi		cscives that are		
	rovimately 2 251	-			
environmental value for		km from the Sonac manufacturing			
	Timor Nature Co	km from the Sonac manufacturing sonservation Reserve, &			
ambient sound of 'human -	Timor Nature Co	km from the Sonac manufacturing			
ambient sound of 'human - tranquillity and enjoyment	Timor Nature Co Havelock Nature	km from the Sonac manufacturing sonservation Reserve, & e Conservation Reserve	site:		
ambient sound of 'human tranquillity and enjoyment outdoors, in natural areas', Att	Timor Nature Co Havelock Nature achment 7 show	km from the Sonac manufacturing sonservation Reserve, &	site:		

The level of noise measured on the boundary of the Sonac site

sound at the reserves and any other natural areas.

predetermines the noise from the site will not pose a risk to the ambient

adjacent Timor Nature Conservation Reserve (and

other natural areas that

may be affected by the

noise from the facilities.