

ATTACHMENT 1: LOCATION OF SPEED LIMIT SIGNS

Third 10k sign location. (Shadows of sign can be seen in photo)



Speed limit sign (2nd) visible at the first corner at after the main entrance gate to Sonac site.



Main entrance gate to Sonac site.
Speed limit sign (1st) visible to all vehicular



ATTACHMENT 2: SONAC WEEKLY ODOUR, NOISE AND DUST CHECK / INSPECTION

F-SAU-AU-10127

Revision: 1
Date: Apr 21, 2021

Weekly Odour, Noise and Dust Check

Date	
Time	
Name	

Task	Checked	Comments
Visible sock inspection with light. (if any replacements mark on Sock Checklist and attach)		
Line 1		
Line 2		
Line 3		
Fan Room Inspection		
Check for offensive odours		
Check for offensive noise		
Check for dust or product particles		
Check for visible particles in the air		

Document information:
 Location: Sonac Australia
 Process: Environmental Legislation
 Reference:

Manual Sonac

Any printout of this document is not controlled

1/1

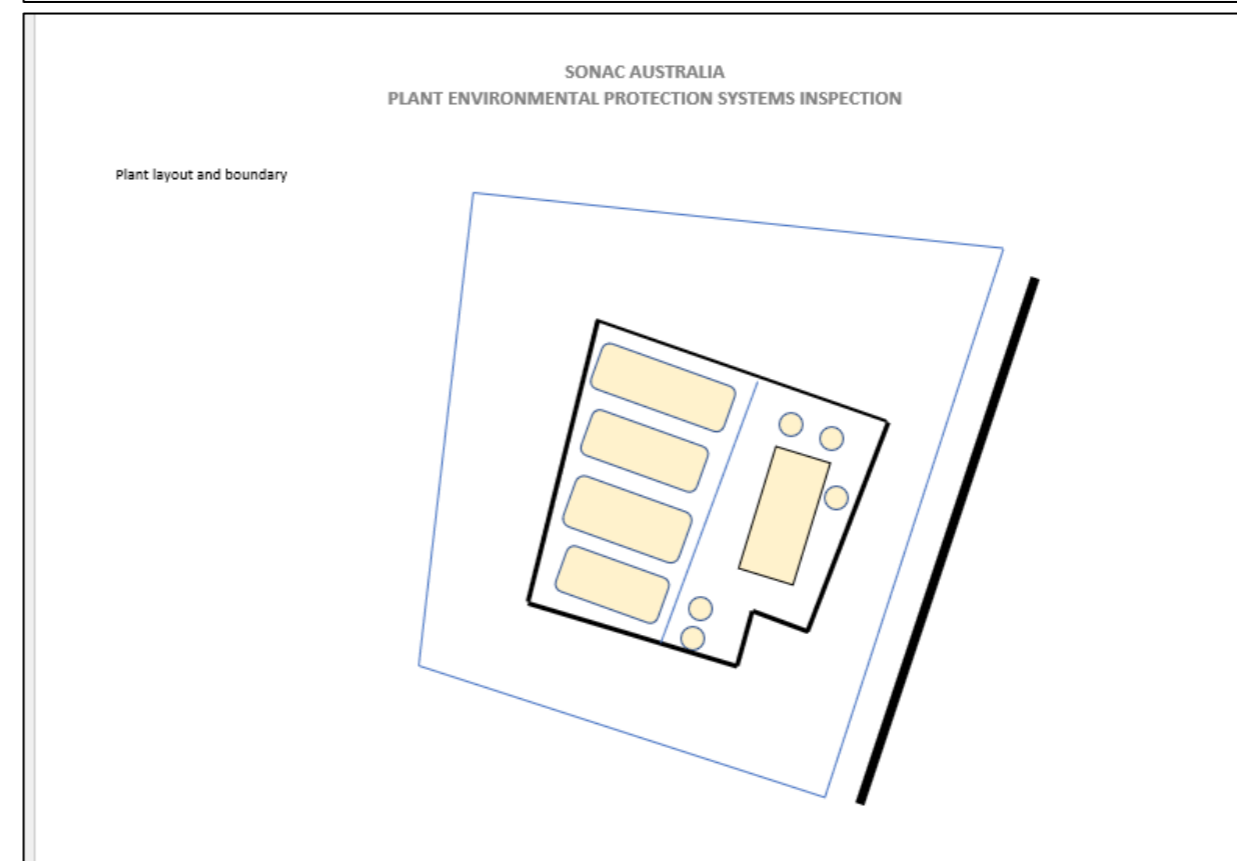
SONAC AUSTRALIA PLANT ENVIRONMENTAL PROTECTION SYSTEMS INSPECTION

Date: _____ Time: _____ Inspected by: _____

Area Inspected	EPA Licence #	Inspection checklist	Checked Y / N	Comments
Site entrance/exit and parking areas	LI_DL1	Check for substance leakage, litter, spillage		
Wastewater Treatment Plant and Brine Evaporation ponds	LI_A1	Check for odour emissions, leaks, spills, litter, overflow		
Stormwater drains	LI_DL1, LI_G1	Check for any presence of water, litter, and presence of any foreign material		
Chemical storage area		Check for tank integrity, leaks, cracks, damage, correct signage, overflows, and odour release		
Main building walls and surrounds	LI_A2	Check for integrity, leaks, cracks, damage, correct signage, overflows, noise, and odour release		
Tanker unloading bay		Inspect area for cleanliness, oil leaks on ground		
Boundary fence line	LI_A2, LI_A1, LI_A3	Check fence line for odour, litter, noise, signs, any liquid, dust, or other emissions.		
Waste Collection Area		Inspect area for cleanliness, spills, leaks, odour, damaged waste bins		
Main building roof line		Visually inspect roof line from the ground for visible smoke, vapour, or damage		
Permeate quality and tank integrity	LI_G1	Check permeate at the tank visually for quality appearance, odour, inspect storage tank and pipelines for damage		

General comments:

Immediately report to management any issues, observations and/or incidents that may have or has caused non-compliance to the EPA Licence.



ATTACHMENT 3: ADVANCED AIR HORIZONTAL PACKED BED WET SCRUBBER



Horizontal Packed Bed Wet Scrubber

The Advanced Air® Horizontal Packed Bed Wet Scrubber is proven to be efficient and reliable. This type of Packed Bed Wet Scrubber removes soluble chemicals, fumes, and odours, as the contaminated gases pass through the packing media that is wetted with a single pass or recirculating water spray system.

The scrubbing liquid absorbs the gas pollutant by physical or chemical means. The spray system (single pass or recirculating) removes the contaminants before passing through the mist eliminator blades prior to discharging to the atmosphere.

Our Advanced Air® scrubbers are suitable for the removal of 95%-98% of water soluble acids and bases. Other contaminants may require chemical dosing systems.



Advanced Air® fume scrubber 900L/s.

Wet Air Scrubber

- ▶ Materials of construction include:
 - ▶ uPVC
 - ▶ Polypropylene & Polyethylene
- ▶ Wide range of packing media available
- ▶ Chemical treatment, including oxidation and neutralization, is available to increase absorption of gaseous pollutants. pH control available when applicable.
- ▶ Corrosion resistant Brinkmann® uPVC/PP extraction fans.
- ▶ Corrosion resistant recirculating pumps for scrubber liquid recirculation.
- ▶ Non-plugging spray nozzles for wetting packing in corrosion resistant polypropylene.

Horizontal Packed Bed Fume Scrubber

- ▶ This is a cross-flow design with scrubbing liquid flowing vertically downwards while the gas passes horizontally through the packing section. The Advanced Air® horizontal Packed Bed Scrubber can be used in all situations including limited facility headroom and is ideal for roof and ground installations. The cross-flow design is less susceptible to fouling for airstreams with the air flow capacity range from 150 l/s – 2000 l/s with larger units available on request.



Roof mounted Advanced Air® fume scrubber 1200L/s.



Scrubbers ready for export – Hong Kong.

Specifications

Size/ Volume?	250 -350 Litres/sec.	450 – 550 Litres/sec.	650-750 Litres/sec.	950-1100 Litres/sec.	1500 Litres/sec.	2000 Litres/sec.
Materials Types	uPVC or Polypropylene					
Dimensions (excludes extraction fan)	1525mm L x 570mm W x 1130mm H (allows for Recirculating Tank)	1525mm L x 570mm W x 1380mm H (allows for Recirculating Tank)	1550mm L x 720mm W x 1380mm H (allows for Recirculating Tank)	1650mm L x 890mm W x 1500mm H (allows for Recirculating Tank)	1650mm L x 1050mm W x 1600mm H (allows for Recirculating Tank)	1650mm L x 1200mm W x 1800mm H (allows for Recirculating Tank)
Location	Roof or Ground Mounted					
Inlet/Outlet	250mm/ 250mm	315mm/ 315mm	315mm/ 315mm	400mm/ 400mm	400mm/ 400mm	400mm/ 400mm
Nominal Weight	120kg	150kg	180kg	200kg	220kg	280kg
Nominal Static Pa Loss	350pa					
Water Spray System	6 x Nozzle Sprays Total 18 Litres/ min.	6 x Nozzle Sprays Total 30 Litres/ min.	9 x Nozzle Sprays Total 40 Litres/ min.	12 x Nozzle Sprays Total 60 Litres/ min.	12 x Nozzle Sprays Total 90 Litres/ min.	15 x Nozzle Sprays Total 120 Litres/ min.
Packed Bed Type	Polypropylene Pall Rings					
Mist Eliminator	Polypropylene Blade Hooked					
Efficiency*	95%-98%					
Scrubber Control	Fume Cupboard Controller or Separate Switching					
Low Water Flow Alarm	Yes (where applicable)					
Optional	Recirculating Tank, Dosing System					

* Advanced Air® cross flow wet scrubber capable of removing water soluble acids and bases @ of 95%-98%.

ATTACHMENT 3: ADVANCED AIR HORIZONTAL PACKED BED WET SCRUBBER

SONAC AIR SCRUBBER UNIT SKETCH

