

# Overview

TIER 1/TIER 2 SCREENING RISK ASSESSMENT DATA INPUT						
<i>(Procedure Version 8.1 &amp; Package N, September 1, 2017) - Risk Tool V1.108</i>						
Application Deemed Complete Date	11/10/22			0.00E+00	0.00E+00	
A/N	641036			0.00E+00	0.00E+00	
Facility Name	PR Broadstone Heritage I			2.30E-07	3.58E-05	
				PASS	FAIL	

  

TIER 1 SCREENING RISK ASSESSMENT REPORT						
<i>(Procedure Version 8.1 &amp; Package N, September 1, 2017)</i>						Application deemed complete date: 11/10/2022
A/N 641036, PR Broadstone Heritage I						
Equipment Type	Other	No T-BACT	Tier 1 Results			
Nearest Receptor Distance (actual)	38 meters	0	Cancer/Chronic ASI	Acute ASI		
Receptor Distance (Table 1 Emission look up)	25 meters	0	6.39E+00	2.26E-02		
		0	FAILED	PASSED		

  

APPLICATION SCREENING INDEX CALCULATION						
Compound	Average Annual Emission	Max Hourly Emission	Cancer/Chronic Pollutant Screening	Acute Pollutant Screening	Cancer/Chronic Pollutant Screening	Acute Pollutant Screening

### TAC Emissions Calculator V3.00

Equipment Details	Input
Hours/Day	
Days/Week	
Weeks/Year	
Control Efficiency	
<b>Source Type</b>	
Source Category on HRA Tool ->	

**Boiler**

Max Burner Rating

Equipment w/ SNCR, S Fuel HV

### Health Risk Assessment Tool and AERMOD-Ready Meteorological Data Files

For use in South Coast AQMD permit applications and CEQA purposes

Screening Index results								
Toxic Air Contaminant (CAS No)	Date Last Updated	Highest long term risk from	Pollutant (Arsenic compounds (inorganic) (1016)) Screening Index for cancer, 8hr or chronic at 25m	Pollutant (Arsenic compounds (inorganic) (1016)) Screening Index for cancer, 8hr or chronic at 50m	Pollutant (Arsenic compounds (inorganic) (1016)) Screening Index for cancer, 8hr or chronic at 100m	Pollutant (Arsenic compounds (inorganic) (1016)) Screening Index for acute exposure at 25m	Pollutant (Arsenic compounds (inorganic) (1016)) Screening Index for acute exposure at 50m	Pollutant (Arsenic compounds (inorganic) (1016)) Screening Index for acute exposure at 100m
Arsenic compounds (inorganic) (1016)	2021-08-09	Cancer	2.48e+3	772	419	6.14e+3	2.76e+3	983
<b>Total</b>			<b>2.48e+3</b>	<b>772</b>	<b>419</b>	<b>6.14e+3</b>	<b>2.76e+3</b>	<b>983</b>

## Previous Risk Tool

- Equipment-Specific Emission Factors and Manual Input
- Tier 1/2/3 HRA

## New Emissions Calculator Spreadsheet

- Equipment-Specific Emission Factors and Manual Input
- **New Health Risk Assessment (HRA) Tool**
- Manual Input of Emissions or Import Spreadsheet
- Tier 1/2/3 HRA

# Where do I find the Emissions Calculator Spreadsheet?

**Tier 1 HRA** Tier 2 HRA Tier 3 HRA

Provide the TAC emission rates by: ⓘ

Manual entry

Upload Emissions Calculator spreadsheet

[Click here for the Emissions Calculator spreadsheet.](#) Enter the required information, save the Emissions Calculator spreadsheet, and upload here

Browse... No file selected

Tier 1 HRA **Tier 2 HRA** Tier 3 HRA

Select type of source and stack characteristics

Select Source Type

General Non-Combustion Point Source Equipment

Select Source Characteristics

14 ≤ Stack Height < 25 ft

Hours of operation per day ⓘ

24

Days of operation per week ⓘ

7

Provide the TAC emission rates by: ⓘ

Manual entry

Upload Emissions Calculator spreadsheet

[Click here for the Emissions Calculator spreadsheet.](#) Enter the required information, save the Emissions Calculator spreadsheet, and upload here

Browse... No file selected

Tier 1 HRA Tier 2 HRA **Tier 3 HRA**

Run an air dispersion model separately (AERSCREEN)

Note: AERSCREEN only outputs worst-case hourly concentrations

Provide the TAC concentrations by: ⓘ

Manual entry

Upload Emissions Calculator spreadsheet

Any worker receptors? ⓘ

No

Yes

[Click here for the Tier 3 concentrations spreadsheet.](#) Use the worksheet titled "Concentrations for Tier 3" to enter the required concentrations. Remember to replicate the TACs for each receptor. Save

# Emissions Calculator Spreadsheet Overview

**TAC Emissions Calculator V3.00**

Equipment Details		Input	Units
Hours/Day			hrs/day
Days/Week			days/wk
Weeks/Year			wks/yr
Control Efficiency			value between 0-1

**Source Type**

Source Category on HRA Tool ->

Refresh

**Source Type**

Source Category on HRA Tool ->

Boiler
Crematories
Diesel ICE
Diesel Pressure Washer
Diesel Reciprocating Internal Combustion Engines
Ethanol 85 Underground Storage Tanks

Compound*	CAS #	EF (*) (lbs/mmcf)	R1 (lbs/hr)	R2 (lbs/hr)	R1 (lbs/yr)	R2 (lbs/yr)	Toxic NSR Entry	
							R1 (Uncontrolled) (E-06 lbs/hr)	R2 (Controlled) (E-06 lbs/hr)
Acetaldehyde	75070	0.0015	0.000375	0.0003375	1.092	0.9828	375	337.5
Arsenic	7440-38-2	0.00058	0.000145	0.0001305	0.42224	0.380016	145	130.5
Benzene	71432	0.00072	0.00018	0.000162	0.52416	0.471744	180	162
Beryllium	7440-41-7	0.00002	0.000005	0.0000045	0.01456	0.013104	5	4.5
Cadmium	7440-43-9	0.00016	0.00004	0.000036	0.11648	0.104832	40	36
Chromium, hexavalent (&	18540-29-9	0.00019	4.75E-05	4.275E-05	0.13832	0.124488	47.5	42.75

- Light yellow boxes identifying which fields need to be filled in
- Maintained and updated equipment emission factors
- Recognizable layout from previous spreadsheet

# Demo

- Boiler
- Other
- Concentrations for Tier 3 HRA