

Appendix 3.11 Heavy Metal Results (Based on Mitigated RSP)

Appendix 3.11 Non-carcinogenic Heavy Metal (HM) Results Summary

Maximum RSP Mitigated Concentration for all ASR for the entire model year (µg/m³)		
Tier 1 Mitigated		
Hourly	Daily	Annual
93.8	18.2	6.8

All areas active

Pollutant	Zone 1A and Zone 3	Zone 2	Zone 1B and Zone 1C	Zone 4, Zone 5A and Zone 5B	Pollution Criteria (µg/m³)			Background concentration (µg/m³) ^{(1) (2) (3) (4)}			Project Contribution Concentration (maximum for all scenarios highlighted) (µg/m³)			Cumulative Concentration (maximum for all scenarios highlighted plus background) (µg/m³)		
	Average Concentration (mg/kg)	Average Concentration (mg/kg)	Average Concentration (mg/kg)	Average Concentration (mg/kg)	Hourly	Daily	Annual	Hourly	Daily	Annual	Hourly	Daily	Annual	Hourly	Daily	Annual
	Raw	Raw	Raw	Raw												
As	8.82E+00	1.07E+01	1.63E+01	7.90E+00	2.00E-01	3.60E-02	1.50E-02	-	-	4.28E-03	1.53E-03	2.97E-04	1.10E-04	1.53E-03	2.97E-04	4.39E-03
Ba	6.60E+01	1.21E+02	1.34E+02	1.10E+02	5.00E+00	2.50E+00	5.00E-01	-	-	1.42E-02	1.25E-02	2.44E-03	9.03E-04	1.25E-02	2.44E-03	1.51E-02
Cd	2.74E+00	4.74E-01	5.56E-01	2.09E-01	1.00E-01	3.00E-02	1.00E-02	-	-	1.01E-03	2.57E-04	5.00E-05	1.85E-05	2.57E-04	5.00E-05	1.03E-03
Co	3.92E+00	4.96E+00	4.48E+00	4.38E+00	2.00E-01	7.10E-02	1.00E-01	-	-	-	4.65E-04	9.05E-05	3.35E-05	4.65E-04	9.05E-05	3.35E-05
Cr metal and Cr (III)	1.46E+01	5.17E+00	9.28E+00	2.47E+00	-	5.00E-01	1.10E-01	-	-	2.28E-03	-	2.66E-04	9.86E-05	-	2.66E-04	2.38E-03
Cr (VI)	5.63E+00	1.08E+01	9.24E+00	7.65E+00	8.50E-03	3.00E-01	1.00E-01	2.20E-04	1.26E-04	1.02E-04	1.01E-03	1.97E-04	7.30E-05	1.23E-03	3.23E-04	1.75E-04
Cu	1.36E+02	7.02E+01	1.71E+02	3.12E+01	1.00E+02	3.60E+00	2.40E+00	-	-	4.50E-02	1.60E-02	3.12E-03	1.15E-03	1.60E-02	3.12E-03	4.62E-02
Mo	2.61E+00	2.23E+00	1.92E+00	2.25E+00	3.00E+01	1.10E+01	3.00E+00	-	-	-	2.45E-04	4.76E-05	1.76E-05	2.45E-04	4.76E-05	1.76E-05
Ni	6.71E+00	8.22E+00	1.00E+01	5.12E+00	2.00E-01	2.00E-01	9.00E-02	-	-	6.18E-03	9.41E-04	1.83E-04	6.79E-05	9.41E-04	1.83E-04	6.25E-03
Pb	3.77E+02	2.22E+02	3.16E+02	2.13E+02	-	1.50E-01	5.00E-01	-	-	5.70E-02	-	6.87E-03	2.55E-03	-	6.87E-03	5.95E-02
Sn	1.70E+01	3.16E+01	1.99E+01	4.71E+01	2.00E+01	1.00E+01	2.00E+00	-	-	-	4.41E-03	8.59E-04	3.18E-04	4.41E-03	8.59E-04	3.18E-04
Zn	6.57E+02	4.11E+02	4.05E+02	1.53E+02	2.00E+01	-	2.00E+00	-	-	1.89E-01	6.16E-02	-	4.44E-03	6.16E-02	-	1.93E-01
Hg	2.40E+00	2.99E+00	3.88E+00	7.10E+00	6.00E-01	3.00E-01	1.00E+00	-	-	2.16E-04	6.66E-04	1.30E-04	4.80E-05	6.66E-04	1.30E-04	2.64E-04

Note: (1) Background data sourced from AQHI website with the exception of Chromium VI and Lead
 (2) Background data for Chromium VI sourced from TAP data measured at EPD Central/Western Supersite
 (3) Background data for Lead sourced from "Air Quality in Hong Kong 2012" published by EPD