

EMISSION SUMMARY TABLE

Table I. Emission Summary Table

Contaminant	CAS Number	Averaging Period	Facility Emission Rate (g/s)	Air Dispersion Model [Note 1]	Maximum POI Concentration ($\mu\text{g}/\text{m}^3$)	MECP POI Limit ($\mu\text{g}/\text{m}^3$)	Limiting Effect	Source	Category	Percent of MECP POI Limit (%)
Particulate Matter	N/A	24-Hour	3.18E-02	AERMOD	19.54	120	Visibility	Standard	B1	16.3%
Uranium and Uranium Compounds	7440-61-1	Annual	4.81E-06	AERMOD	2.35E-03	0.03	Health	Standard	B1	7.8%
Hydrogen	1333-74-0	24-Hour	2.36E-02	AERMOD	13.48	3,203.13	N/A	Max. GLC	N/A	0.4%

Notes:

[1] All dispersion modelling was conducted using AERMOD version 19191

Table II. Modelling Assessment Values for Contaminants with Annual Air Standards

Contaminant	CAS Number	Facility Emission Rate (g/s)	Air Dispersion Model [Note 1]	Annual Standard			Annual Assessment Value (AAV)			Daily Assessment Value (DAV)/ Upper Risk Threshold (URT)		
				Maximum POI Concentration ($\mu\text{g}/\text{m}^3$)	MECP POI Limit ($\mu\text{g}/\text{m}^3$)	Percent of MECP POI Limit (%)	Maximum POI Concentration ($\mu\text{g}/\text{m}^3$)	MECP Assessment Value ($\mu\text{g}/\text{m}^3$)	Percent of Assessment Value (%)	Maximum POI Concentration ($\mu\text{g}/\text{m}^3$)	MECP Threshold/ Assessment Value ($\mu\text{g}/\text{m}^3$)	Percent of Threshold/ Assessment Value (%)
Uranium and Uranium Compounds	7440-61-1	4.81E-06	AERMOD	2.35E-03	0.03	7.8%	2.35E-03	0.15	1.6%	8.32E-03	1.5	0.6%

Notes:

[1] All dispersion modelling was conducted using AERMOD version 19191

ACOUSTIC ASSESSMENT SUMMARY TABLE

Table I. Acoustic Assessment Summary Table

Point of Reception	Description of Reception Point	Site L _{eq} (dBA)			Verified by Acoustic Audit	Performance Limits (dBA)			Compliance with Performance Limit
		Day	Evening	Night		Day	Evening	Night	
POR1	Residence Plane of Window (@ 4.5 m)	49	46	46	Yes	59	59	55	Yes
POR2	Residence Plane of Window (@ 4.5 m)	44	43	43	Yes	50	50	45	Yes
POR3	Residence Plane of Window (@ 4.5 m)	51	49	49	Yes	53	53	51	Yes
POR4a	Residence Plane of Window (@ 4.5 m)	52	50	50	Yes	53	53	51	Yes
POR4b	Residence Plane of Window (@ 7.5 m)	52	50	50	Yes	53	53	51	Yes
POR5a	Residence Plane of Window (@ 7.5 m)	50	49	49	Yes	57	57	55	Yes
POR5b	Residence Plane of Window (@ 12.5 m)	51	50	50	Yes	57	57	55	Yes
POR5c	Residence Plane of Window (@ 17.5 m)	51	51	51	Yes	57	57	55	Yes
POR6a	Residence Plane of Window (@ 7.5 m)	50	49	49	Yes	56	56	54	Yes
POR6b	Residence Plane of Window (@ 12.5 m)	51	50	50	Yes	56	56	54	Yes
POR6c	Residence Plane of Window (@ 17.5 m)	53	52	52	Yes	56	56	54	Yes
POR7	Residence Plane of Window (@ 4.5 m)	56	56	56	Yes	62	62	58	Yes