Attachment 5.6

Appendix 8.10 Air Modelling Assessment - Stack Height of 114.25m

Appendix 8.10

Air Modelling Assessment - Stack Height of 114.25m

APPENDIX 8.10

8.10.1 Air Modelling Assessment - Stack Height of 114.25m

In terms of the impact on human health, as outlined in Appendix 8.1 of the EIS all results are in compliance with the ambient air quality standards based on a stack height of 70m above local ground level. The results are outlined in Section 8.6 of Appendix 8.1 of the EIS.

All pollutants have been rerun based on a stack height of 114.25m, which is the theoretical height at which no building downwash occurs. The results of this assessment are outlined in Table.1 - Table.15. Results remain in compliance with the ambient air quality standards at a stack height of 114.25m. Compared to a stack height of 70m, results are lower due to the reduced building downwash. Ambient results decrease slightly with, for example, the maximum 1-Hour NO_2 results decreasing from 21% to 17% of the limit value and the annual mean NO_2 concentration decreasing from 52% to 51% of the limit value. However, at a stack height of 70m results are well below the ambient air quality standards and thus increasing the stack height to 114.25m is unwarranted. As shown in Figure A8.1, Figure A8.2 and Figure A8.3 for nitrogen dioxide, the maximum offsite locations are further away from the facility compared to the 70m stack height modelling scenario. This is due to greater plume rise and dispersion in the absence of any significant building downwash.

Figure A8.1 Maximum Operation: Predicted Maximum 1-Hr NO_2 Concentration (as a 99.97th%ile)

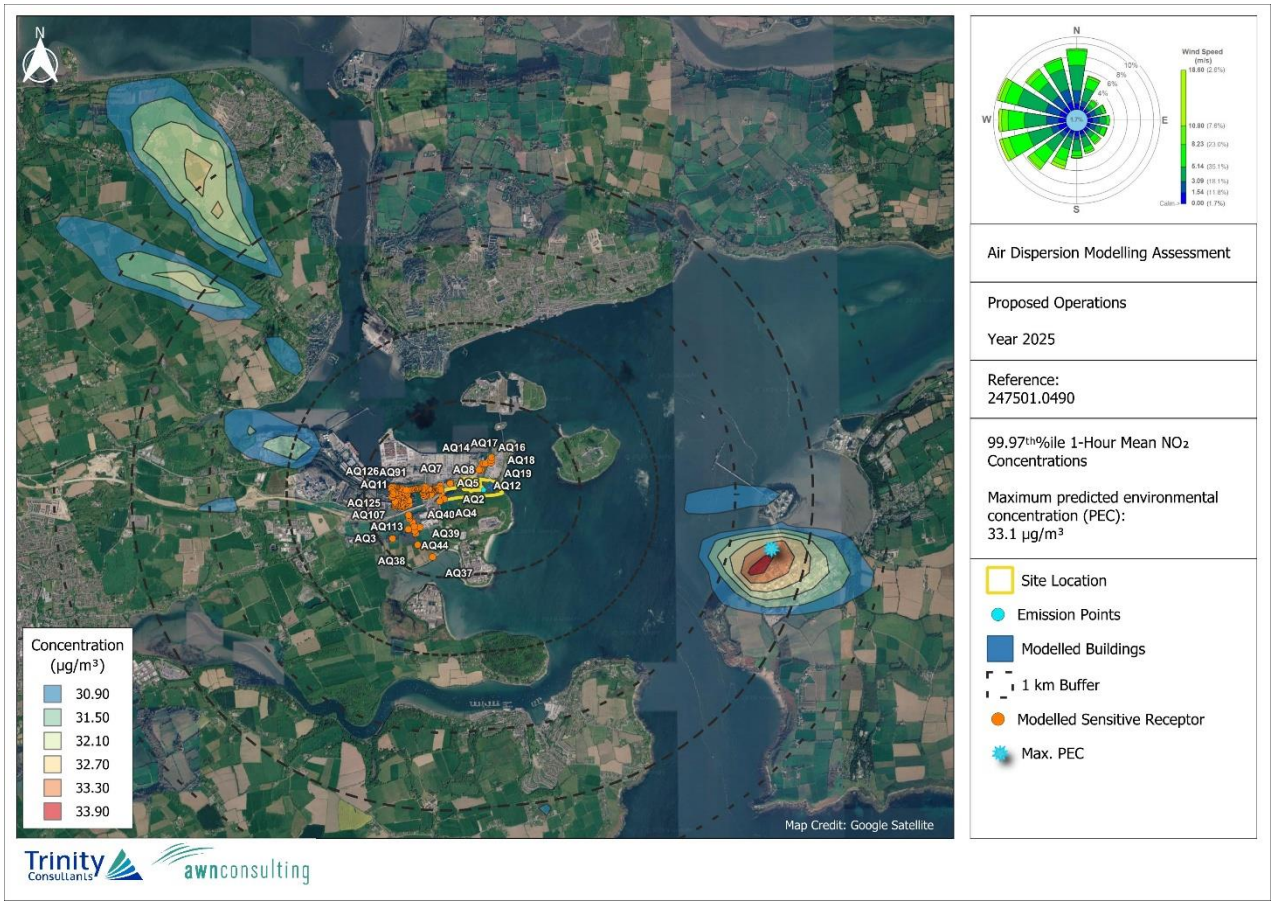
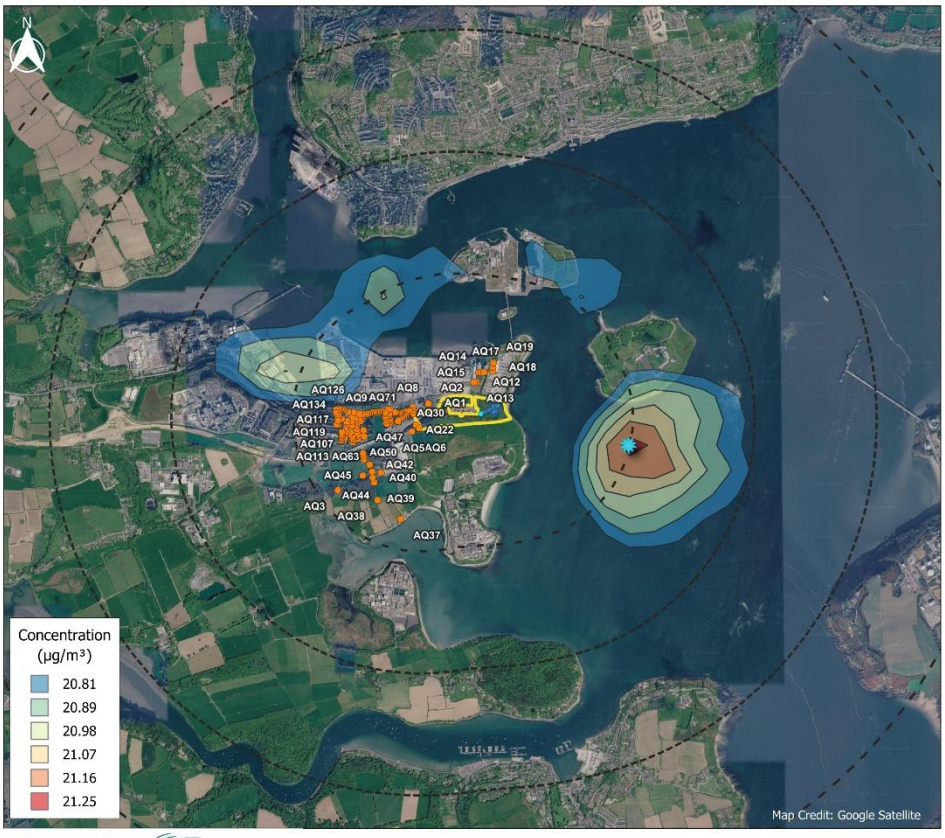
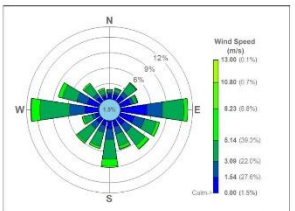


Figure A8.2 Maximum Operation: Predicted Maximum 24-Hr NO_2 Concentration (as a 95th%ile)





Air Dispersion Modelling Assessment

Proposed Operations

Year 2025

Reference:
247501.0490

95.1st%ile 24-Hour Mean NO_2 Concentrations

Maximum predicted environmental concentration (PEC):
21.28 µg/m³

Site location
On-site building
1 km buffer
Modelled sensitive receptor
Emission source
Max. PEC

Figure A8.3 Maximum Operation: Predicted Annual Mean NO_2 Concentration

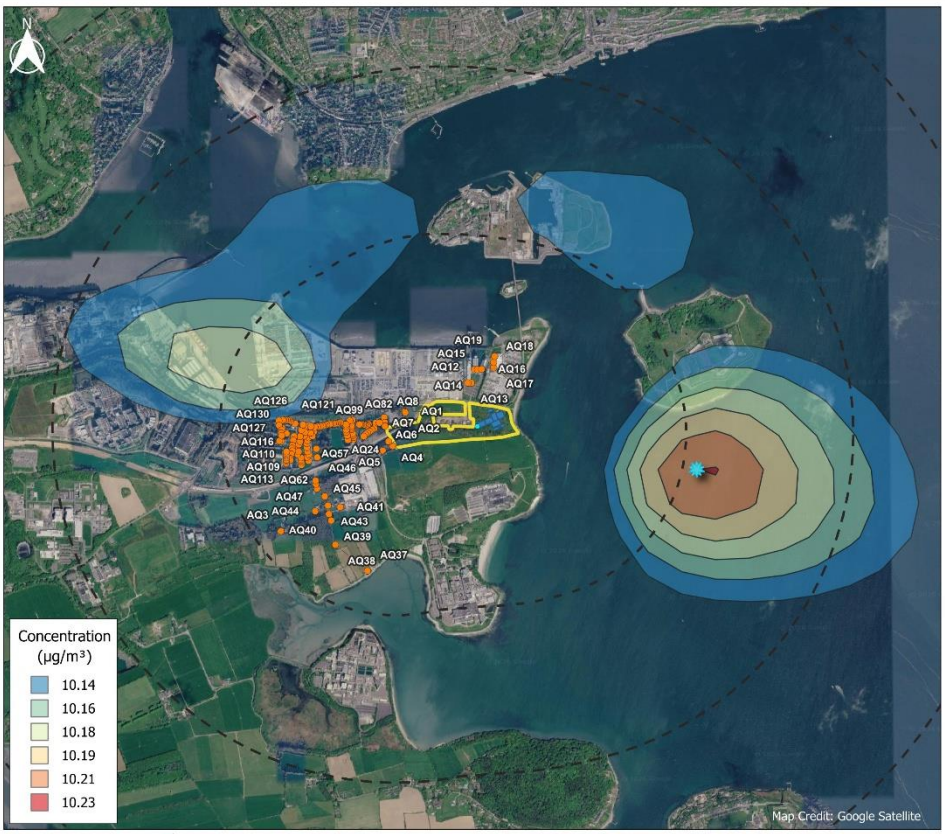


Table.1 Dispersion Model Results – Nitrogen Dioxide (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		PC (µg/m³)	Back-ground Conc. (µg/m³)	PEC (µg/m³)	Limit Values (µg/Nm³)	PEC as a % of Limit Value
		Type	X,Y (UTM Zone 29 N)					
NO_2 / Onsite Met Data 2007	Annual Mean	Boundary	549500, 5743100	0.15	10	10.15	20	51%
	1-hr Mean (as 99.97th%ile)	Grid	538000, 5738200	11.93	20	31.93	200	16%
	24-hr Mean (as 95.1st%ile)	Grid	548900, 5741175	0.89	20	20.89	50	42%
NO_2 / 2021	Annual Mean	Boundary	548800, 5743900	0.16	10	10.16	20	51%
	1-hr Mean (as 99.97th%ile)	Grid	538000, 5738200	9.15	20	29.15	200	15%
	24-hr Mean (as 95.1st%ile)	Grid	548900, 5741175	0.89	20	20.89	50	42%
NO_2 / 2022	Annual Mean	Boundary	548800, 5743800	0.15	10	10.15	20	51%
	1-hr Mean (as 99.97th%ile)	Grid	538000, 5738200	8.19	20	28.19	200	14%
	24-hr Mean (as 95.1st%ile)	Grid	548900, 5741325	0.91	20	20.91	50	42%
NO_2 / 2023	Annual Mean	Boundary	548800, 5743800	0.17	10	10.17	20	51%
	1-hr Mean (as 99.97th%ile)	Grid	538000, 5738200	8.84	20	28.84	200	14%
	24-hr Mean (as 95.1st%ile)	Grid	548300, 5743800	0.85	20	20.85	50	42%
NO_2 / 2024	Annual Mean	Boundary	549200, 5743400	0.18	10	10.18	20	51%

Pollutant / Year	Averaging Period	Worst Case Receptor		PC (µg/m³)	Back-ground Conc. (µg/m³)	PEC (µg/m³)	Limit Values (µg/Nm³)	PEC as a % of Limit Value
		Type	X,Y (UTM Zone 29 N)					
	1-hr Mean (as 99.97thO%ile)	Grid	538000, 5738200	9.51	20	29.51	200	15%
	24-hr Mean (as 95.1stO%ile)	Grid	548625, 5741100	0.99	20	20.99	50	42%
NO_2 / 2025	Annual Mean	Boundary	549200, 5742100	0.23	10	10.23	20	51%
	1-hr Mean (as 99.97thO%ile)	Grid	545500, 5744900	13.10	20	33.10	200	17%
	24-hr Mean (as 95.1stO%ile)	Grid	549100, 5742100	1.28	20	21.28	50	43%

Table.2 Dispersion Model Results – Carbon Monoxide (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (mg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
CO / Onsite Met Data 2007	Maximum Daily 8-Hour Mean	Grid	547250, 5742525	0.005	1.0	1.005	10	10%
	24-hr Mean (as 95.1st %ile)	Grid	547825, 5742150	0.005	1.0	1.005	4	25%
CO / 2021	Maximum Daily 8-Hour Mean	Grid	547075, 5742725	0.004	1.0	1.004	10	10%
	24-hr Mean (as 95.1st %ile)	Grid	548275, 5741850	0.006	1.0	1.006	4	25%
CO/ 2022	Maximum Daily 8-Hour Mean	Grid	5743050, 548075	0.005	1.0	1.005	10	10%
	24-hr Mean (as 95.1st %ile)	Grid	548400, 5741775	0.005	1.0	1.005	4	25%
CO/ 2023	Maximum Daily 8-Hour Mean	Grid	5742075, 548700	0.004	1.0	1.004	10	10%
	24-hr Mean (as 95.1st %ile)	Grid	548400, 5741725	0.006	1.0	1.006	4	25%
CO/ 2024	Maximum Daily 8-Hour Mean	Grid	5742500, 548525	0.005	1.0	1.005	10	10%
	24-hr Mean (as 95.1st %ile)	Grid	548375, 5741675	0.006	1.0	1.006	4	25%
CO/ 2025	Maximum Daily 8-Hour Mean	Grid	5742525, 547250	0.005	1.0	1.005	10	10%
	24-hr Mean (as 95.1st %ile)	Grid	547150, 5742650	0.005	1.0	1.005	4	25%

Table.3 Dispersion Model Results – PM_{10} (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
PM_{10} / Onsite Met Data 2007	Annual Mean	Boundary	549000, 5742900	0.012	10.0	10.01	20	50%
	95.1st%ile 24-hr Mean	Grid	549000, 5742900	0.061	20.0	20.06	45	45%
PM_{10} / 2021	Annual Mean	Boundary	548550, 5743500	0.012	10.0	10.01	20	50%
	95.1st%ile 24-hr Mean	Grid	548550, 5743500	0.066	20.0	20.07	45	45%
PM_{10} / 2022	Annual Mean	Boundary	548525, 5743425	0.012	10.0	10.01	20	50%
	95.1st%ile 24-hr Mean	Grid	548525, 5743425	0.069	20.0	20.07	45	45%
PM_{10} / 2023	Annual Mean	Boundary	548525, 5743425	0.013	10.0	10.01	20	50%
	95.1st%ile 24-hr Mean	Grid	548525, 5743425	0.065	20.0	20.06	45	45%
PM_{10} / 2024	Annual Mean	Boundary	548850, 5743125	0.013	10.0	10.01	20	50%

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
	95.1st%ile 24-hr Mean	Grid	548850, 5743125	0.075	20.0	20.07	45	45%
PM_{10} / 2025	Annual Mean	Boundary	548850, 5742125	0.018	10.0	10.02	20	50%
	95.1st%ile 24-hr Mean	Grid	548850, 5742125	0.097	20.0	20.10	45	45%

Table.4 Dispersion Model Results – $PM_{2.5}$ (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
$PM_{2.5}$ / Onsite Met Data 2007	Annual Mean	Boundary	549000, 5742900	0.012	6.0	6.01	6.01	10
	24-hr Mean (as 95.1st%ile)	Grid	549000, 5742900	0.066	12.0	12.07	6.07	25
$PM_{2.5}$ / 2021	Annual Mean	Boundary	548550, 5743500	0.012	6.0	6.01	6.01	10
	24-hr Mean (as 95.1st%ile)	Grid	548550, 5743500	0.069	12.0	12.07	6.07	25
$PM_{2.5}$ / 2022	Annual Mean	Boundary	548525, 5743425	0.013	6.0	6.01	6.01	10
	24-hr Mean (as 95.1st%ile)	Grid	548525, 5743425	0.065	12.0	12.06	6.06	25
$PM_{2.5}$ / 2023	Annual Mean	Boundary	548525, 5743425	0.013	6.0	6.01	6.01	10
	24-hr Mean (as 95.1st%ile)	Grid	548525, 5743425	0.075	12.0	12.07	6.07	25
$PM_{2.5}$ / 2024	Annual Mean	Boundary	548850, 5743125	0.018	6.0	6.02	6.02	10
	24-hr Mean (as 95.1st%ile)	Grid	548850, 5743125	0.097	12.0	12.10	6.10	25
$PM_{2.5}$ / 2025	Annual Mean	Boundary	548850, 5742125	0.012	6.0	6.01	6.01	10
	24-hr Mean (as 95.1st%ile)	Grid	548850, 5742125	0.066	12.0	12.07	6.07	25

Table.5 Dispersion Model Results – Sulphur Dioxide (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
SO_2 / Onsite Met Data 2007	Annual Mean	Boundary	547850, 5742125	0.29	3	3.29	20	16%
	1-hr Mean (99.97th%ile)	Grid	547850, 5742125	20.05	6	26.05	350	7%
	24-hr Mean (95.1nd%ile)	Grid	547850, 5742125	1.83	6	7.83	50	16%
SO_2 / 2021	Annual Mean	Boundary	548425, 5741675	0.37	3	3.37	20	17%
	1-hr Mean (99.97th%ile)	Grid	548425, 5741675	11.08	6	17.08	350	5%
	24-hr Mean (95.1nd%ile)	Grid	548425, 5741675	1.99	6	7.99	50	16%
SO_2 / 2022	Annual Mean	Boundary	548450, 5741700	0.34	3	3.34	20	17%

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
	1-hr Mean (99.97th%ile)	Grid	548450, 5741700	10.38	6	16.38	350	5%
	24-hr Mean (95.1nd%ile)	Grid	548450, 5741700	1.68	6	7.68	50	15%
SO_2 / 2023	Annual Mean	Boundary	548525, 5743425	0.25	3	3.25	20	16%
	1-hr Mean (99.97th%ile)	Grid	548525, 5743425	10.44	6	16.44	350	5%
	24-hr Mean (95.1nd%ile)	Grid	548525, 5743425	1.91	6	7.91	50	16%
SO_2 / 2024	Annual Mean	Boundary	548425, 5741675	0.41	3	3.41	20	17%
	1-hr Mean (99.97th%ile)	Grid	548425, 5741675	12.36	6	18.36	350	5%
	24-hr Mean (95.1nd%ile)	Grid	548425, 5741675	2.08	6	8.08	50	16%
SO_2 / 2025	Annual Mean	Boundary	547150, 5742650	0.34	3	3.34	20	17%
	1-hr Mean (99.97th%ile)	Grid	547150, 5742650	13.26	6	19.26	350	6%
	24-hr Mean (95.1nd%ile)	Grid	547150, 5742650	1.59	6	7.59	50	15%

Table.6 Dispersion Model Results – Benzene (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
Benzene / Onsite 2007	Annual Mean	Boundary	549000, 5742900	0.012	1.0	1.01	3.4	30%
Benzene / 2021	Annual Mean	Boundary	548550, 5743500	0.012	1.0	1.01	3.4	30%
Benzene / 2022	Annual Mean	Boundary	548525, 5743425	0.012	1.0	1.01	3.4	30%
Benzene / 2023	Annual Mean	Boundary	548525, 5743425	0.013	1.0	1.01	3.4	30%
Benzene / 2024	Annual Mean	Boundary	548850, 5743125	0.013	1.0	1.01	3.4	30%
Benzene / 2025	Annual Mean	Boundary	548850, 5742125	0.018	1.0	1.02	3.4	30%

Table.7 Dispersion Model Results – Ammonia (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
NH_3 / Onsite Met Data 2007	Annual Mean	Boundary	549000, 5742900	0.02	1.9	1.92	180	1%
	1-hr Mean	Grid	539500, 5737700	2.20	3.8	6.00	2500	0.2%
NH_3 / 2021	Annual Mean	Boundary	548550, 5743500	0.02	1.9	1.92	180	1.1%
	1-hr Mean	Grid	538000, 5738200	1.14	3.8	4.94	2500	0.2%
NH_3 / 2022	Annual Mean	Boundary	548525, 5743425	0.02	1.9	1.92	180	1.1%

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
	1-hr Mean	Grid	539500, 5737700	1.07	3.8	4.87	2500	0.2%
NH_3 / 2023	Annual Mean	Boundary	548525, 5743425	0.02	1.9	1.92	180	1.1%
	1-hr Mean	Boundary	546300, 5742100	1.44	3.8	5.24	2500	0.2%
NH_3 / 2024	Annual Mean	Boundary	548850, 5743125	0.02	1.9	1.92	180	1.1%
	1-hr Mean	Grid	539500, 5737700	0.98	3.8	4.78	2500	0.2%
NH_3 / 2025	Annual Mean	Boundary	548850, 5742125	0.03	1.9	1.93	180	1.1%
	1-hr Mean	Grid	539500, 5737700	1.37	3.8	5.17	2500	0.2%

Table.8 Dispersion Model Results – HCl (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
HCl / Onsite Met Data 2007	Annual Mean	Boundary	549000, 5742900	0.01	2.2	2.21	180	1.2%
	1-hr Mean	Grid	539500, 5737700	8.79	4.4	13.19	2500	0.5%
HCl / 2021	Annual Mean	Boundary	548550, 5743500	0.01	2.2	2.21	180	1.2%
	1-hr Mean	Grid	538000, 5738200	4.57	4.4	8.97	2500	0.4%
HCl / 2022	Annual Mean	Boundary	548525, 5743425	0.01	2.2	2.21	180	1.2%
	1-hr Mean	Grid	539500, 5737700	4.28	4.4	8.68	2500	0.3%
HCl / 2023	Annual Mean	Boundary	548525, 5743425	0.01	2.2	2.21	180	1.2%
	1-hr Mean	Boundary	546300, 5742100	5.78	4.4	10.18	2500	0.4%
HCl / 2024	Annual Mean	Boundary	548850, 5743125	0.01	2.2	2.21	180	1.2%
	1-hr Mean	Grid	539500, 5737700	3.93	4.4	8.33	2500	0.3%
HCl / 2025	Annual Mean	Boundary	548850, 5742125	0.02	2.2	2.22	180	1.2%
	1-hr Mean	Grid	539500, 5737700	5.49	4.4	9.89	2500	0.4%

Table.9 Dispersion Model Results – HF (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
HF / Onsite Met Data 2007	Monthly Mean	Boundary	547675, 5741375	0.001	0.32	0.321	16	2.01%
	1-hr Mean	Grid	539500, 5737700	0.586	0.64	1.226	160	0.77%
HF / 2021	Monthly Mean	Boundary	548425, 5741425	0.003	0.32	0.323	16	2.02%
	1-hr Mean	Grid	538000, 5738200	0.305	0.64	0.945	160	0.59%
HF / 2022	Monthly Mean	Boundary	548650, 5741625	0.003	0.32	0.323	16	2.02%
	1-hr Mean	Grid	539500, 5737700	0.286	0.64	0.926	160	0.58%
HF / 2023	Monthly Mean	Boundary	548800, 5742800	0.004	0.32	0.324	16	2.02%
	1-hr Mean	Boundary	546300, 5742100	0.385	0.64	1.025	160	0.64%

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
HF / 2024	Monthly Mean	Boundary	548725, 5743050	0.005	0.32	0.325	16	2.03%
	1-hr Mean	Grid	539500, 5737700	0.262	0.64	0.902	160	0.56%
HF / 2025	Monthly Mean	Boundary	548750, 5742050	0.005	0.32	0.325	16	2.03%
	1-hr Mean	Grid	539500, 5737700	0.366	0.64	1.006	160	0.63%

Table.10 Dispersion Model Results – Dioxins/Furans (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (pg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
Dioxin / 2007 Onsite	Annual Mean	Boundary	549000, 5742900	0.116	31	31.12	-	n/a
Dioxin / 2021	Annual Mean	Boundary	548550, 5743500	0.119	31	31.12	-	n/a
Dioxin / 2022	Annual Mean	Boundary	548525, 5743425	0.119	31	31.12	-	n/a
Dioxin / 2023	Annual Mean	Boundary	548525, 5743425	0.127	31	31.13	-	n/a
Dioxin / 2024	Annual Mean	Boundary	548850, 5743125	0.132	31	31.13	-	n/a
Dioxin / 2025	Annual Mean	Boundary	548850, 5742125	0.178	31	31.18	-	n/a

Table.11 Dispersion Model Results – PAHs (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
PAHs / 2007 Onsite	Annual Mean	Boundary	549000, 5742900	0.0012	0.25	0.251	1.0	25.1%
PAHs / 2021	Annual Mean	Boundary	548525, 5743425	0.0012	0.25	0.251	1.0	25.1%
PAHs / 2022	Annual Mean	Boundary	548525, 5743425	0.0012	0.25	0.251	1.0	25.1%
PAHs / 2023	Annual Mean	Boundary	548525, 5743425	0.0013	0.25	0.251	1.0	25.1%
PAHs / 2024	Annual Mean	Boundary	548850, 5743125	0.0013	0.25	0.251	1.0	25.1%
PAHs / 2025	Annual Mean	Boundary	548850, 5742125	0.0018	0.25	0.252	1.0	25.2%

Table.12 Dispersion Model Results – Hg (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
Hg / 2007 Onsite	Annual Mean	Boundary	549000, 5742900	0.030	8.0	8.030	1000	0.80%
Hg / 2021	Annual Mean	Boundary	548525, 5743425	0.020	8.0	8.020	1000	0.80%
Hg / 2022	Annual Mean	Boundary	548525, 5743425	0.020	8.0	8.020	1000	0.80%
Hg / 2023	Annual Mean	Boundary	548525, 5743425	0.022	8.0	8.022	1000	0.80%
Hg / 2024	Annual Mean	Boundary	548850, 5743125	0.022	8.0	8.022	1000	0.80%
Hg / 2025	Annual Mean	Boundary	548850, 5742125	0.030	8.0	8.030	1000	0.80%

Table.13 Dispersion Model Results – Cd (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
Cd / 2007 Onsite	Annual Mean	Boundary	549000, 5742900	0.058	1.0	1.058	5.0	21%
Cd / 2021	Annual Mean	Boundary	548525, 5743425	0.059	1.0	1.059	5.0	21%
Cd / 2022	Annual Mean	Boundary	548525, 5743425	0.059	1.0	1.059	5.0	21%
Cd / 2023	Annual Mean	Boundary	548525, 5743425	0.063	1.0	1.064	5.0	21%
Cd / 2024	Annual Mean	Boundary	548850, 5743125	0.066	1.0	1.066	5.0	21%
Cd / 2025	Annual Mean	Boundary	548850, 5742125	0.089	1.0	1.089	5.0	22%

Table.14 Dispersion Model Results – As (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
As / 2007 Onsite	Annual Mean	Boundary	549000, 5742900	0.00051	1.0	1.00051	6.0	17%
As / 2021	Annual Mean	Boundary	548525, 5743425	0.00052	1.0	1.00052	6.0	17%
As / 2022	Annual Mean	Boundary	548525, 5743425	0.00052	1.0	1.00052	6.0	17%
As / 2023	Annual Mean	Boundary	548525, 5743425	0.00056	1.0	1.00056	6.0	17%
As / 2024	Annual Mean	Boundary	548850, 5743125	0.00058	1.0	1.00058	6.0	17%
As / 2025	Annual Mean	Boundary	548850, 5742125	0.00079	1.0	1.00079	6.0	17%

Table.15 Dispersion Model Results – Ni (Stack height = 114.25m)

Pollutant / Year	Averaging Period	Worst Case Receptor		Concentrations (µg/m³)				PEC as % of Limit
		Type	X,Y (UTM Zone 29 N)	PC	Back-ground	PEC	Limit Value	
Ni / 2007 Onsite	Annual Mean	Boundary	549000, 5742900	0.073	9	9.073	20	45%
Ni / 2021	Annual Mean	Boundary	548525, 5743425	0.075	9	9.075	20	45%
Ni / 2022	Annual Mean	Boundary	548525, 5743425	0.075	9	9.075	20	45%
Ni / 2023	Annual Mean	Boundary	548525, 5743425	0.080	9	9.080	20	45%
Ni / 2024	Annual Mean	Boundary	548850, 5743125	0.083	9	9.083	20	45%
Ni / 2025	Annual Mean	Boundary	548850, 5742125	0.114	9	9.114	20	46%