APPENDIX 10.III

Results of Air Quality Modelling

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10.III.1 INTRODUCTION

This appendix summarizes all air quality dispersion modelling results.

10.III.2 PREDICTED AIR QUALITY AT SELECTED LOCATIONS

Table 10.III.2-1: Predicted Sulphur Dioxide Concentrations at Selected Locations

Location	Maximum 1-Hour[a] (µg/m³)		Maximum 24-Hour[b] (µg/m³)		Annual[c] (µg/m³)	
	Baseline	Application	Baseline	Application	Baseline	Application
Gamètì	0.5	0.5	0.5	0.5	0.5	0.5
Whatì	0.5	0.6	0.5	0.5	0.5	0.5
Behchokǫ̀	0.5	0.5	0.5	0.5	0.5	0.5
Wekweetì	0.5	0.5	0.5	0.5	0.5	0.5
Yellowknife	0.5	0.5	0.5	0.5	0.5	0.5
Worker Camp	0.5	3.2	0.5	1.4	0.5	0.6
Marian River Receptor 1	0.5	0.9	0.5	0.6	0.5	0.5
Marian River Receptor 2	0.5	1.0	0.5	0.6	0.5	0.5
Marian River Receptor 3	0.5	1.1	0.5	0.6	0.5	0.5
Marian River Receptor 4	0.5	1.2	0.5	0.6	0.5	0.5
Marian River Receptor 5	0.5	1.2	0.5	0.6	0.5	0.5
Marian River Receptor 6	0.5	1.1	0.5	0.6	0.5	0.5
Bea Lake Receptor	0.5	1.0	0.5	0.7	0.5	0.5
Hislop Lake Receptor 1	0.5	0.8	0.5	0.6	0.5	0.5
Hislop Lake Receptor 2	0.5	0.8	0.5	0.6	0.5	0.5
Hislop Lake Receptor 3	0.5	0.9	0.5	0.7	0.5	0.5
Hislop Lake Receptor 4	0.5	0.8	0.5	0.6	0.5	0.5
Hislop Lake Receptor 5	0.5	0.9	0.5	0.6	0.5	0.5
Hislop Lake Receptor 6	0.5	0.8	0.5	0.6	0.5	0.5
Hislop Lake Receptor 7	0.5	0.9	0.5	0.6	0.5	0.5
Hislop Lake Receptor 8	0.5	0.9	0.5	0.6	0.5	0.5
Hislop Lake Receptor 9	0.5	0.8	0.5	0.6	0.5	0.5
Hislop Lake Receptor 10	0.5	0.8	0.5	0.6	0.5	0.5
Hislop Lake Receptor 11	0.5	1.1	0.5	0.7	0.5	0.5
Maximum Outside NICO Project Lease Boundary[d]	0.6	10.1	0.5	4.2	0.5	1.0

[a] The 1-hour NWT Standard for SO_2 is 450 µg/m^3 (GNWT 2011, internet site).

[b] The 24-hour NWT Standard for SO_2 is 150 µg/m^3 (GNWT 2011, internet site).

[c] The annual NWT Standard for SO_2 is 30 µg/m^3 (GNWT 2011, internet site).

[d] These values are based on maximum predictions outside the NICO Project Lease Boundary within the LSA.

µg/m^3 = micrograms per cubic metre

Table 10.III.2-2: Predicted Nitrogen Dioxide Concentrations at Selected Locations

Location	Maximum 1-Hour[a] (µg/m³)		Maximum 24-Hour[b] (µg/m³)		Annual[c] (µg/m³)	
	Baseline	Application	Baseline	Application	Baseline	Application
Gamètì	25.9	26.8	3.5	4.3	1.1	1.2
Whatì	13.7	17.8	1.7	6.5	1.0	1.2
Behchokǫ̀	1.8	6.3	1.3	2.7	1.0	1.2
Wekweetì	1.4	7.8	1.2	3.5	1.0	1.1
Yellowknife	1.3	6.3	1.1	3.3	1.0	1.1
Worker Camp	1.7	465.4	1.3	199.5	1.0	51.5
Marian River Receptor 1	1.5	80.3	1.2	24.0	1.0	2.5
Marian River Receptor 2	1.5	79.8	1.2	20.1	1.0	2.2
Marian River Receptor 3	1.5	80.6	1.2	31.6	1.0	2.5
Marian River Receptor 4	1.5	79.4	1.2	28.6	1.0	2.5
Marian River Receptor 5	1.5	82.8	1.2	25.7	1.0	2.7
Marian River Receptor 6	1.5	78.9	1.2	20.1	1.0	2.5
Bea Lake Receptor	1.6	82.6	1.2	63.8	1.0	4.8
Hislop Lake Receptor 1	1.8	78.7	1.3	19.5	1.0	2.6
Hislop Lake Receptor 2	1.5	77.3	1.2	26.1	1.0	2.4
Hislop Lake Receptor 3	1.5	77.2	1.2	26.7	1.0	2.6
Hislop Lake Receptor 4	1.5	75.5	1.2	28.3	1.0	2.5
Hislop Lake Receptor 5	1.6	75.2	1.2	25.6	1.0	2.4
Hislop Lake Receptor 6	1.6	74.1	1.2	21.1	1.0	2.0
Hislop Lake Receptor 7	1.6	76.1	1.2	15.9	1.0	2.0
Hislop Lake Receptor 8	1.7	77.5	1.3	26.4	1.0	2.5
Hislop Lake Receptor 9	1.6	70.9	1.2	17.1	1.0	2.0
Hislop Lake Receptor 10	1.6	75.0	1.2	16.0	1.0	2.2
Hislop Lake Receptor 11	1.6	78.6	1.2	33.3	1.0	3.3
Maximum Outside NICO Project Lease Boundary[d]	3.4	204.1	2.0	129.4	1.1	68.4

[a] The 1-hour NWT Standard for NO_2 is 400 µg/m^3 (GNWT 2011, internet site).

[b] The 24-hour NWT Standard for NO_2 is 200 µg/m^3 (GNWT 2011, internet site).

[c] The annual NWT Standard for NO_2 is 60 µg/m^3 (GNWT 2011, internet site).

[d] These values are based on maximum predictions outside the NICO Project Lease Boundary within the LSA.

µg/m^3 = micrograms per cubic metre

Table 10.III.2-3: Predicted Carbon Monoxide Concentrations at Selected Locations

Location	Maximum 1-Hour[a] (µg/m³)		Maximum 8-Hour[b] (µg/m³)	
	Baseline	Application	Baseline	Application
Gamètì	352.6	353.1	347.7	347.8
Whatì	349.4	352.9	346.5	351.0
Behchokǫ̀	346.3	349.4	346.2	347.4
Wekweetì	346.1	348.9	346.1	347.8
Yellowknife	346.1	348.9	346.1	347.6
Worker Camp	346.2	1419.5	346.1	792.1
Marian River Receptor 1	346.2	395.4	346.1	364.9
Marian River Receptor 2	346.1	385.1	346.1	361.6
Marian River Receptor 3	346.1	385.0	346.1	367.4
Marian River Receptor 4	346.1	381.8	346.1	365.2
Marian River Receptor 5	346.1	398.3	346.1	367.2
Marian River Receptor 6	346.2	396.3	346.1	365.5
Bea Lake Receptor	346.2	399.7	346.1	372.8
Hislop Lake Receptor 1	346.2	389.0	346.1	366.6
Hislop Lake Receptor 2	346.2	384.4	346.1	364.0
Hislop Lake Receptor 3	346.2	385.9	346.1	368.2
Hislop Lake Receptor 4	346.2	380.4	346.1	364.3
Hislop Lake Receptor 5	346.2	383.3	346.1	365.6
Hislop Lake Receptor 6	346.2	374.9	346.1	362.6
Hislop Lake Receptor 7	346.2	383.5	346.1	362.0
Hislop Lake Receptor 8	346.2	385.1	346.2	365.1
Hislop Lake Receptor 9	346.2	373.2	346.1	359.1
Hislop Lake Receptor 10	346.2	380.2	346.1	361.2
Hislop Lake Receptor 11	346.2	396.5	346.1	370.3
Maximum Outside NICO Project Lease Boundary[c]	346.7	965.0	346.4	693.5

[a] The 1-hour NWT Standard for CO is 15 000 µg/m^3 (GNWT 2011, internet site).

[b] The 8-hour NWT Standard for CO is 6 000 µg/m^3 (GNWT 2011, internet site).

[c] These values are based on maximum predictions outside the NICO Project Lease Boundary within the LSA.

µg/m^3 = micrograms per cubic metre

Table 10.III.2-4: Predicted Total Suspended Particulates Concentrations at Selected Locations

Location	Maximum 24-Hour[a] (µg/m³)		Annual Average[b] (µg/m³)	
	Baseline	Application	Baseline	Application
Gamètì	2.3	2.4	2.2	2.2
Whatì	2.2	2.3	2.2	2.2
Behchokǫ̀	2.2	2.5	2.2	2.2
Wekweetì	2.2	2.3	2.2	2.2
Yellowknife	2.2	2.3	2.2	2.2
Worker Camp	2.2	906.4	2.2	86.3
Marian River Receptor 1	2.2	36.2	2.2	3.2
Marian River Receptor 2	2.2	20.6	2.2	3.0
Marian River Receptor 3	2.2	27.1	2.2	3.4
Marian River Receptor 4	2.2	24.7	2.2	3.5
Marian River Receptor 5	2.2	23.0	2.2	3.5
Marian River Receptor 6	2.2	25.4	2.2	3.1
Bea Lake Receptor	2.2	18.1	2.2	3.0
Hislop Lake Receptor 1	2.2	16.8	2.2	2.9
Hislop Lake Receptor 2	2.2	29.2	2.2	2.9
Hislop Lake Receptor 3	2.2	31.0	2.2	3.0
Hislop Lake Receptor 4	2.2	17.7	2.2	2.8
Hislop Lake Receptor 5	2.2	15.4	2.2	2.7
Hislop Lake Receptor 6	2.2	8.1	2.2	2.5
Hislop Lake Receptor 7	2.2	11.5	2.2	2.6
Hislop Lake Receptor 8	2.2	14.4	2.2	2.8
Hislop Lake Receptor 9	2.2	10.4	2.2	2.6
Hislop Lake Receptor 10	2.2	13.1	2.2	2.7
Hislop Lake Receptor 11	2.2	23.2	2.2	2.9
Maximum Outside NICO Project Lease Boundary[c]	2.3	1668.6	2.2	166.0

[a] The 24-hour NWT Standard for TSP is 120 µg/m^3 (GNWT 2011, internet site).

[b] The annual NWT Standard for TSP is 60 µg/m^3 (GNWT 2011, internet site).

[c] These values are based on maximum predictions outside the NICO Project Lease Boundary within the LSA.

TSP = total suspended particulates; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-5: Predicted $PM_{2.5}$ Concentrations at Selected Locations

Location	Maximum 24-Hour[a] (µg/m³)	
	Baseline	Application
Gamètì	2.3	2.4
Whatì	2.3	2.6
Behchokǫ̀	2.2	2.4
Wekweetì	2.2	2.4
Yellowknife	2.2	2.5
Worker Camp	2.3	52.6
Marian River Receptor 1	2.2	6.4
Marian River Receptor 2	2.2	5.1
Marian River Receptor 3	2.2	5.5
Marian River Receptor 4	2.2	5.7
Marian River Receptor 5	2.2	5.6
Marian River Receptor 6	2.2	5.6
Bea Lake Receptor	2.2	6.9
Hislop Lake Receptor 1	2.2	4.3
Hislop Lake Receptor 2	2.2	5.5
Hislop Lake Receptor 3	2.2	5.4
Hislop Lake Receptor 4	2.2	4.9
Hislop Lake Receptor 5	2.2	5.6
Hislop Lake Receptor 6	2.2	4.3
Hislop Lake Receptor 7	2.2	4.0
Hislop Lake Receptor 8	2.2	4.6
Hislop Lake Receptor 9	2.2	3.9
Hislop Lake Receptor 10	2.2	4.2
Hislop Lake Receptor 11	2.2	6.2
Maximum Outside NICO Project Lease Boundary[b]	2.3	80.3

[a] The 24-hour NWT Standard for $PM_{2.5}$ is 30 µg/m^3 (GNWT 2011, internet site).

[b] These values are based on maximum predictions outside the NICO Project Lease Boundary within the LSA.

$PM_{2.5}$ = particulate matter of particle diameter less than 2.5 µm; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-6: Predicted PM_{10} Concentrations at Selected Locations

Location	Maximum 24-Hour (µg/m³)	
	Baseline	Application
Gamètì	2.3	2.6
Whatì	2.2	2.4
Behchokǫ̀	2.2	2.5
Wekweetì	2.2	2.3
Yellowknife	2.2	2.5
Worker Camp	2.2	252.4
Marian River Receptor 1	2.2	18.6
Marian River Receptor 2	2.2	11.7
Marian River Receptor 3	2.2	13.1
Marian River Receptor 4	2.2	12.5
Marian River Receptor 5	2.2	13.8
Marian River Receptor 6	2.2	13.9
Bea Lake Receptor	2.2	13.9
Hislop Lake Receptor 1	2.2	9.8
Hislop Lake Receptor 2	2.2	15.1
Hislop Lake Receptor 3	2.2	15.4
Hislop Lake Receptor 4	2.2	11.5
Hislop Lake Receptor 5	2.2	10.2
Hislop Lake Receptor 6	2.2	6.3
Hislop Lake Receptor 7	2.2	8.3
Hislop Lake Receptor 8	2.2	8.9
Hislop Lake Receptor 9	2.2	7.1
Hislop Lake Receptor 10	2.2	8.1
Hislop Lake Receptor 11	2.2	14.3
Maximum Outside NICO Project Lease Boundary [a]	2.3	500.1

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PM_{10} = particulate matter of particle diameter less than 10 µm; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000059	0.000000	0.000092	0.000000	0.000062	0.000001	0.000051
Acetone	0.000000	0.004216	0.000000	0.006511	0.000000	0.004423	0.000000	0.003620
Acrolein	0.000061	0.001432	0.000032	0.002234	0.000003	0.001506	0.000001	0.001223
Aldehydes	0.000196	0.019189	0.000101	0.029705	0.000009	0.020141	0.000004	0.016454
Benzene	0.006032	0.006397	0.003104	0.005344	0.000266	0.002341	0.000137	0.002119
C16+ Aliphatics	0.000000	0.000658	0.000000	0.001016	0.000000	0.000690	0.000000	0.000565
C2-C8 Aliphatics	0.021686	0.023621	0.011159	0.026231	0.000955	0.013331	0.000474	0.011123
C9-16 Aliphatics	0.000000	0.000814	0.000000	0.001257	0.000000	0.000854	0.000000	0.000699
C9-16 Aromatics	0.000000	0.001170	0.000000	0.001807	0.000000	0.001227	0.000000	0.001004
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000001	0.000000	0.000000	0.000001	0.000001
Dichloromethane	0.000000	0.000000	0.000001	0.000001	0.000000	0.000000	0.000001	0.000001
Ethylbenzene	0.000000	0.000090	0.000001	0.000140	0.000001	0.000095	0.000001	0.000078
Formaldehyde	0.000613	0.004413	0.000316	0.007039	0.000027	0.004666	0.000016	0.003725
Ketones	0.000000	0.001437	0.000000	0.002220	0.000000	0.001508	0.000000	0.001234
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.002188	0.002551	0.001124	0.003392	0.000352	0.001615	0.000848	0.001670
Trimethylbenzenes	0.000000	0.000218	0.000000	0.000337	0.000000	0.000229	0.000000	0.000188
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.001500	0.001654	0.000772	0.002040	0.000066	0.001080	0.000033	0.000882

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000003	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000050	0.000001	0.007302	0.000000	0.000806	0.000001	0.000789
Acetone	0.000000	0.003560	0.000000	0.518190	0.000000	0.057076	0.000000	0.056009
Acrolein	0.000001	0.001213	0.000002	0.174310	0.000001	0.019508	0.000001	0.018849
Aldehydes	0.000004	0.016215	0.000006	2.353100	0.000005	0.260170	0.000004	0.254360
Benzene	0.000130	0.002038	0.000189	0.971570	0.000140	0.037645	0.000131	0.033675
C16+ Aliphatics	0.000000	0.000555	0.000000	0.080831	0.000000	0.008903	0.000000	0.008737
C2-C8 Aliphatics	0.000466	0.011281	0.000679	3.558000	0.000503	0.198810	0.000470	0.144410
C9-16 Aliphatics	0.000000	0.000687	0.000000	0.100030	0.000000	0.011018	0.000000	0.010812
C9-16 Aromatics	0.000000	0.000988	0.000000	0.143780	0.000000	0.015837	0.000000	0.015541
Chlorobenzenes	0.000000	0.000000	0.000000	0.000029	0.000000	0.000002	0.000000	0.000003
Chloromethane	0.000000	0.000000	0.000001	0.000075	0.000001	0.000005	0.000001	0.000008
Dichloromethane	0.000000	0.000000	0.000001	0.000083	0.000001	0.000005	0.000001	0.000008
Ethylbenzene	0.000001	0.000076	0.000002	0.011071	0.000001	0.001222	0.000001	0.001197
Formaldehyde	0.000013	0.003771	0.000024	0.525320	0.000014	0.060965	0.000013	0.056873
Ketones	0.000000	0.001214	0.000000	0.176660	0.000000	0.019458	0.000000	0.019094
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000350	0.001480	0.001376	0.359850	0.000637	0.023140	0.000672	0.023372
Trimethylbenzenes	0.000000	0.000184	0.000000	0.026852	0.000000	0.002958	0.000000	0.002902
Vinyl Chloride	0.000000	0.000000	0.000000	0.000025	0.000000	0.000002	0.000000	0.000003
Xylenes	0.000032	0.000907	0.000047	0.248490	0.000035	0.015790	0.000033	0.011010

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000001	0.000975	0.000001	0.001148	0.000000	0.001248	0.000001	0.000968
Acetone	0.000000	0.069204	0.000000	0.081486	0.000000	0.088414	0.000000	0.068205
Acrolein	0.000001	0.023278	0.000001	0.027409	0.000001	0.029823	0.000001	0.023210
Aldehydes	0.000004	0.314250	0.000004	0.370020	0.000004	0.401750	0.000005	0.310570
Benzene	0.000130	0.035359	0.000130	0.032943	0.000130	0.042435	0.000140	0.035030
C16+ Aliphatics	0.000000	0.010795	0.000000	0.012711	0.000000	0.013791	0.000000	0.010639
C2-C8 Aliphatics	0.000469	0.139130	0.000467	0.131750	0.000467	0.187690	0.000505	0.201570
C9-16 Aliphatics	0.000000	0.013359	0.000000	0.015730	0.000000	0.017067	0.000000	0.013166
C9-16 Aromatics	0.000000	0.019202	0.000000	0.022610	0.000000	0.024532	0.000000	0.018925
Chlorobenzenes	0.000000	0.000002	0.000000	0.000002	0.000000	0.000003	0.000000	0.000003
Chloromethane	0.000001	0.000006	0.000001	0.000006	0.000001	0.000007	0.000001	0.000008
Dichloromethane	0.000001	0.000007	0.000001	0.000007	0.000001	0.000008	0.000001	0.000009
Ethylbenzene	0.000001	0.001479	0.000001	0.001741	0.000001	0.001893	0.000001	0.001472
Formaldehyde	0.000013	0.070149	0.000013	0.082599	0.000013	0.090466	0.000014	0.071864
Ketones	0.000000	0.023592	0.000000	0.027779	0.000000	0.030141	0.000000	0.023252
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000687	0.019705	0.000662	0.018467	0.000625	0.028549	0.000673	0.031167
Trimethylbenzenes	0.000000	0.003586	0.000000	0.004223	0.000000	0.004581	0.000000	0.003534
Vinyl Chloride	0.000000	0.000002	0.000000	0.000002	0.000000	0.000002	0.000000	0.000003
Xylenes	0.000032	0.010401	0.000032	0.011708	0.000032	0.014744	0.000035	0.016378

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000001	0.000807	0.000001	0.000671	0.000000	0.000585	0.000000	0.000702
Acetone	0.000000	0.056944	0.000000	0.047556	0.000000	0.041525	0.000000	0.049829
Acrolein	0.000002	0.019376	0.000002	0.016271	0.000001	0.014017	0.000002	0.016931
Aldehydes	0.000005	0.259290	0.000007	0.216830	0.000005	0.188720	0.000005	0.226810
Benzene	0.000159	0.042596	0.000225	0.033020	0.000147	0.029220	0.000151	0.029162
C16+ Aliphatics	0.000000	0.008882	0.000000	0.007418	0.000000	0.006477	0.000000	0.007773
C2-C8 Aliphatics	0.000572	0.200040	0.000811	0.171610	0.000529	0.149620	0.000542	0.152010
C9-16 Aliphatics	0.000000	0.010992	0.000000	0.009180	0.000000	0.008016	0.000000	0.009619
C9-16 Aromatics	0.000000	0.015800	0.000000	0.013195	0.000000	0.011522	0.000000	0.013826
Chlorobenzenes	0.000000	0.000003	0.000000	0.000001	0.000000	0.000002	0.000000	0.000001
Chloromethane	0.000001	0.000008	0.000001	0.000004	0.000000	0.000004	0.000000	0.000004
Dichloromethane	0.000001	0.000009	0.000001	0.000004	0.000001	0.000004	0.000001	0.000004
Ethylbenzene	0.000001	0.001226	0.000001	0.001017	0.000001	0.000887	0.000001	0.001065
Formaldehyde	0.000016	0.059967	0.000023	0.050961	0.000015	0.043136	0.000015	0.052212
Ketones	0.000000	0.019413	0.000000	0.016212	0.000000	0.014156	0.000000	0.016987
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000736	0.025667	0.000832	0.019436	0.000568	0.018767	0.000565	0.019408
Trimethylbenzenes	0.000000	0.002951	0.000000	0.002464	0.000000	0.002152	0.000000	0.002582
Vinyl Chloride	0.000000	0.000003	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Xylenes	0.000040	0.015739	0.000056	0.013569	0.000037	0.011782	0.000037	0.012031

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000602	0.000001	0.000666	0.000001	0.000639	0.000001	0.000698
Acetone	0.000000	0.042697	0.000000	0.047226	0.000000	0.045288	0.000000	0.049470
Acrolein	0.000002	0.014395	0.000002	0.016074	0.000002	0.015330	0.000002	0.016836
Aldehydes	0.000005	0.193990	0.000005	0.215050	0.000006	0.205960	0.000005	0.225260
Benzene	0.000159	0.024741	0.000160	0.024459	0.000177	0.021098	0.000153	0.026204
C16+ Aliphatics	0.000000	0.006660	0.000000	0.007367	0.000000	0.007064	0.000000	0.007717
C2-C8 Aliphatics	0.000570	0.129210	0.000575	0.140460	0.000636	0.113560	0.000549	0.146460
C9-16 Aliphatics	0.000000	0.008242	0.000000	0.009117	0.000000	0.008742	0.000000	0.009550
C9-16 Aromatics	0.000000	0.011847	0.000000	0.013104	0.000000	0.012566	0.000000	0.013726
Chlorobenzenes	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001	0.000000	0.000002
Chloromethane	0.000001	0.000004	0.000001	0.000003	0.000001	0.000003	0.000001	0.000004
Dichloromethane	0.000001	0.000004	0.000001	0.000004	0.000001	0.000004	0.000001	0.000005
Ethylbenzene	0.000001	0.000912	0.000001	0.001010	0.000001	0.000968	0.000001	0.001059
Formaldehyde	0.000016	0.044215	0.000016	0.049761	0.000018	0.046881	0.000016	0.052108
Ketones	0.000000	0.014556	0.000000	0.016100	0.000000	0.015439	0.000000	0.016865
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000644	0.016844	0.000725	0.016202	0.000849	0.015482	0.000776	0.019228
Trimethylbenzenes	0.000000	0.002213	0.000000	0.002447	0.000000	0.002347	0.000000	0.002563
Vinyl Chloride	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Xylenes	0.000039	0.010231	0.000040	0.011402	0.000044	0.009068	0.000038	0.011897

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)						
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000001	0.000716	0.000001	0.000645	0.000001	0.000599
Acetone	0.000000	0.050712	0.000000	0.045787	0.000000	0.042531
Acrolein	0.000002	0.017162	0.000002	0.015408	0.000002	0.014361
Aldehydes	0.000006	0.230610	0.000005	0.207940	0.000005	0.193300
Benzene	0.000199	0.029650	0.000154	0.018656	0.000153	0.023691
C16+ Aliphatics	0.000000	0.007910	0.000000	0.007142	0.000000	0.006634
C2-C8 Aliphatics	0.000714	0.148370	0.000555	0.102160	0.000549	0.131490
C9-16 Aliphatics	0.000000	0.009789	0.000000	0.008839	0.000000	0.008210
C9-16 Aromatics	0.000000	0.014071	0.000000	0.012704	0.000000	0.011801
Chlorobenzenes	0.000000	0.000002	0.000000	0.000001	0.000000	0.000002
Chloromethane	0.000001	0.000004	0.000001	0.000004	0.000001	0.000005
Dichloromethane	0.000001	0.000005	0.000001	0.000004	0.000001	0.000006
Ethylbenzene	0.000001	0.001086	0.000001	0.000978	0.000001	0.000909
Formaldehyde	0.000020	0.052454	0.000016	0.046477	0.000016	0.044247
Ketones	0.000000	0.017288	0.000000	0.015609	0.000000	0.014499
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000950	0.020020	0.000859	0.015360	0.000871	0.020354
Trimethylbenzenes	0.000000	0.002628	0.000000	0.002373	0.000000	0.002204
Vinyl Chloride	0.000000	0.000001	0.000000	0.000001	0.000000	0.000002
Xylenes	0.000049	0.011988	0.000038	0.008662	0.000038	0.010587

Table 10.III.2-7: Predicted Maximum 1-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)				
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000004
1,3-Butadiene	0.000001	0.001045	0.000002	0.022968
Acetone	0.000000	0.073993	0.000000	1.629900
Acrolein	0.000002	0.024953	0.000005	0.548300
Aldehydes	0.000005	0.336200	0.000017	7.401400
Benzene	0.000157	0.041534	0.000523	0.380610
C16+ Aliphatics	0.000000	0.011542	0.000000	0.254240
C2-C8 Aliphatics	0.000566	0.189820	0.001879	2.613000
C9-16 Aliphatics	0.000000	0.014284	0.000000	0.314640
C9-16 Aromatics	0.000000	0.020531	0.000000	0.452250
Chlorobenzenes	0.000000	0.000004	0.000001	0.000040
Chloromethane	0.000001	0.000009	0.000002	0.000103
Dichloromethane	0.000001	0.000010	0.000003	0.000114
Ethylbenzene	0.000001	0.001585	0.000005	0.034823
Formaldehyde	0.000016	0.075659	0.000053	1.652800
Ketones	0.000000	0.025225	0.000000	0.555650
Styrenes	0.000000	0.000000	0.000000	0.000000
Toluene	0.000851	0.030763	0.002895	0.305870
Trimethylbenzenes	0.000000	0.003834	0.000000	0.084459
Vinyl Chloride	0.000000	0.000003	0.000001	0.000035
Xylenes	0.000039	0.014439	0.000130	0.235690

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

C = carbon; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000023	0.000000	0.000034	0.000000	0.000016	0.000000	0.000022
Acetone	0.000000	0.001586	0.000000	0.002398	0.000000	0.001122	0.000000	0.001533
Acrolein	0.000006	0.000541	0.000002	0.000810	0.000001	0.000380	0.000001	0.000522
Aldehydes	0.000020	0.007226	0.000006	0.010902	0.000003	0.005105	0.000002	0.006983
Benzene	0.000621	0.000977	0.000183	0.001712	0.000078	0.000501	0.000068	0.000816
C16+ Aliphatics	0.000000	0.000247	0.000000	0.000374	0.000000	0.000175	0.000000	0.000239
C2-C8 Aliphatics	0.002232	0.005271	0.000658	0.008661	0.000280	0.002898	0.000241	0.004634
C9-16 Aliphatics	0.000000	0.000306	0.000000	0.000463	0.000000	0.000217	0.000000	0.000296
C9-16 Aromatics	0.000000	0.000440	0.000000	0.000665	0.000000	0.000311	0.000000	0.000425
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000034	0.000000	0.000051	0.000000	0.000024	0.000000	0.000033
Formaldehyde	0.000063	0.001687	0.000019	0.002469	0.000008	0.001167	0.000008	0.001618
Ketones	0.000000	0.000541	0.000000	0.000818	0.000000	0.000383	0.000000	0.000523
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000225	0.000793	0.000222	0.001204	0.000054	0.000392	0.000218	0.000698
Trimethylbenzenes	0.000000	0.000082	0.000000	0.000124	0.000000	0.000058	0.000000	0.000079
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000154	0.000421	0.000046	0.000680	0.000019	0.000236	0.000017	0.000375

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000001	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000017	0.000000	0.003274	0.000000	0.000284	0.000000	0.000183
Acetone	0.000000	0.001223	0.000000	0.232370	0.000000	0.020134	0.000000	0.013009
Acrolein	0.000000	0.000418	0.000001	0.078163	0.000001	0.006794	0.000001	0.004381
Aldehydes	0.000001	0.005574	0.000003	1.055200	0.000002	0.091496	0.000002	0.059090
Benzene	0.000042	0.000770	0.000088	0.329950	0.000068	0.006735	0.000065	0.005192
C16+ Aliphatics	0.000000	0.000191	0.000000	0.036246	0.000000	0.003141	0.000000	0.002029
C2-C8 Aliphatics	0.000153	0.004125	0.000316	1.198000	0.000244	0.045484	0.000235	0.028019
C9-16 Aliphatics	0.000000	0.000236	0.000000	0.044856	0.000000	0.003887	0.000000	0.002511
C9-16 Aromatics	0.000000	0.000339	0.000000	0.064474	0.000000	0.005587	0.000000	0.003610
Chlorobenzenes	0.000000	0.000000	0.000000	0.000006	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000015	0.000000	0.000001	0.000000	0.000001
Dichloromethane	0.000000	0.000000	0.000000	0.000016	0.000000	0.000001	0.000000	0.000001
Ethylbenzene	0.000000	0.000026	0.000001	0.004964	0.000000	0.000430	0.000000	0.000278
Formaldehyde	0.000004	0.001303	0.000009	0.235570	0.000007	0.020626	0.000007	0.013240
Ketones	0.000000	0.000417	0.000000	0.079215	0.000000	0.006864	0.000000	0.004435
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000121	0.000588	0.000488	0.120910	0.000238	0.006039	0.000200	0.003800
Trimethylbenzenes	0.000000	0.000063	0.000000	0.012041	0.000000	0.001043	0.000000	0.000674
Vinyl Chloride	0.000000	0.000000	0.000000	0.000005	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000011	0.000329	0.000022	0.083252	0.000017	0.003830	0.000016	0.002239

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000227	0.000000	0.000217	0.000000	0.000187	0.000000	0.000171
Acetone	0.000000	0.016113	0.000000	0.015372	0.000000	0.013230	0.000000	0.012128
Acrolein	0.000001	0.005428	0.000001	0.005189	0.000001	0.004459	0.000001	0.004103
Aldehydes	0.000002	0.073194	0.000002	0.069863	0.000002	0.060105	0.000002	0.055147
Benzene	0.000064	0.007806	0.000064	0.007365	0.000062	0.006307	0.000061	0.005215
C16+ Aliphatics	0.000000	0.002514	0.000000	0.002398	0.000000	0.002064	0.000000	0.001892
C2-C8 Aliphatics	0.000231	0.033135	0.000230	0.038216	0.000224	0.031143	0.000218	0.030224
C9-16 Aliphatics	0.000000	0.003111	0.000000	0.002967	0.000000	0.002554	0.000000	0.002341
C9-16 Aromatics	0.000000	0.004471	0.000000	0.004265	0.000000	0.003671	0.000000	0.003365
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Dichloromethane	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Ethylbenzene	0.000000	0.000344	0.000000	0.000329	0.000000	0.000283	0.000000	0.000260
Formaldehyde	0.000007	0.016409	0.000007	0.015769	0.000006	0.013497	0.000006	0.012528
Ketones	0.000000	0.005493	0.000000	0.005241	0.000000	0.004510	0.000000	0.004135
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000197	0.004445	0.000204	0.004519	0.000231	0.004652	0.000238	0.004303
Trimethylbenzenes	0.000000	0.000835	0.000000	0.000797	0.000000	0.000686	0.000000	0.000628
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000016	0.002651	0.000016	0.003021	0.000015	0.002579	0.000015	0.002460

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000219	0.000000	0.000262	0.000000	0.000262	0.000000	0.000303
Acetone	0.000000	0.015552	0.000000	0.018615	0.000000	0.018569	0.000000	0.021489
Acrolein	0.000001	0.005286	0.000001	0.006279	0.000001	0.006295	0.000001	0.007273
Aldehydes	0.000002	0.070664	0.000003	0.084583	0.000002	0.084477	0.000002	0.097723
Benzene	0.000069	0.016389	0.000086	0.005255	0.000065	0.007136	0.000065	0.007094
C16+ Aliphatics	0.000000	0.002426	0.000000	0.002904	0.000000	0.002897	0.000000	0.003352
C2-C8 Aliphatics	0.000248	0.074445	0.000310	0.035224	0.000234	0.046295	0.000235	0.049392
C9-16 Aliphatics	0.000000	0.003002	0.000000	0.003593	0.000000	0.003585	0.000000	0.004148
C9-16 Aromatics	0.000000	0.004315	0.000000	0.005165	0.000000	0.005152	0.000000	0.005963
Chlorobenzenes	0.000000	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000003	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Dichloromethane	0.000000	0.000003	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Ethylbenzene	0.000000	0.000333	0.000001	0.000398	0.000000	0.000398	0.000000	0.000460
Formaldehyde	0.000007	0.016944	0.000009	0.019043	0.000007	0.019316	0.000007	0.022234
Ketones	0.000000	0.005302	0.000000	0.006346	0.000000	0.006330	0.000000	0.007326
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000208	0.011067	0.000363	0.004237	0.000209	0.005930	0.000223	0.006305
Trimethylbenzenes	0.000000	0.000806	0.000000	0.000965	0.000000	0.000962	0.000000	0.001114
Vinyl Chloride	0.000000	0.000001	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000017	0.005696	0.000021	0.003101	0.000016	0.003865	0.000016	0.004184

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000232	0.000000	0.000268	0.000000	0.000160	0.000000	0.000180
Acetone	0.000000	0.016451	0.000000	0.018985	0.000000	0.011367	0.000000	0.012743
Acrolein	0.000001	0.005550	0.000001	0.006414	0.000001	0.003851	0.000001	0.004316
Aldehydes	0.000002	0.074757	0.000002	0.086301	0.000002	0.051703	0.000002	0.057960
Benzene	0.000066	0.007559	0.000067	0.006819	0.000070	0.005471	0.000070	0.004509
C16+ Aliphatics	0.000000	0.002566	0.000000	0.002962	0.000000	0.001773	0.000000	0.001988
C2-C8 Aliphatics	0.000237	0.044982	0.000242	0.039569	0.000252	0.029608	0.000253	0.030381
C9-16 Aliphatics	0.000000	0.003176	0.000000	0.003665	0.000000	0.002194	0.000000	0.002460
C9-16 Aromatics	0.000000	0.004565	0.000000	0.005268	0.000000	0.003154	0.000000	0.003536
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000001	0.000000	0.000001	0.000000	0.000000
Dichloromethane	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001	0.000000	0.000000
Ethylbenzene	0.000000	0.000352	0.000000	0.000406	0.000000	0.000243	0.000000	0.000273
Formaldehyde	0.000007	0.016841	0.000007	0.019527	0.000007	0.011797	0.000007	0.013215
Ketones	0.000000	0.005609	0.000000	0.006472	0.000000	0.003875	0.000000	0.004344
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000240	0.005066	0.000249	0.004821	0.000284	0.004000	0.000255	0.003612
Trimethylbenzenes	0.000000	0.000852	0.000000	0.000984	0.000000	0.000589	0.000000	0.000660
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000016	0.003683	0.000017	0.003415	0.000017	0.002368	0.000018	0.002557

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)						
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000260	0.000000	0.000168	0.000000	0.000166
Acetone	0.000000	0.018415	0.000000	0.011893	0.000000	0.011806
Acrolein	0.000001	0.006207	0.000001	0.004032	0.000001	0.003992
Aldehydes	0.000003	0.083661	0.000002	0.054105	0.000002	0.053678
Benzene	0.000102	0.007185	0.000074	0.004562	0.000074	0.004068
C16+ Aliphatics	0.000000	0.002873	0.000000	0.001855	0.000000	0.001842
C2-C8 Aliphatics	0.000365	0.041208	0.000267	0.029619	0.000264	0.025982
C9-16 Aliphatics	0.000000	0.003555	0.000000	0.002296	0.000000	0.002279
C9-16 Aromatics	0.000000	0.005110	0.000000	0.003300	0.000000	0.003276
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Dichloromethane	0.000000	0.000001	0.000000	0.000001	0.000000	0.000001
Ethylbenzene	0.000001	0.000394	0.000000	0.000255	0.000000	0.000252
Formaldehyde	0.000010	0.018792	0.000008	0.012370	0.000007	0.012181
Ketones	0.000000	0.006278	0.000000	0.004054	0.000000	0.004025
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000414	0.005493	0.000281	0.003847	0.000269	0.003240
Trimethylbenzenes	0.000000	0.000954	0.000000	0.000616	0.000000	0.000612
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000025	0.003345	0.000018	0.002473	0.000018	0.002219

Table 10.III.2-8: Predicted Maximum 24-Hour Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)				
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000001
1,3-Butadiene	0.000000	0.000291	0.000001	0.009901
Acetone	0.000000	0.020573	0.000000	0.702530
Acrolein	0.000001	0.006987	0.000002	0.236750
Aldehydes	0.000002	0.093636	0.000005	3.191500
Benzene	0.000070	0.009164	0.000149	0.173470
C16+ Aliphatics	0.000000	0.003209	0.000000	0.109590
C2-C8 Aliphatics	0.000253	0.055813	0.000536	1.269800
C9-16 Aliphatics	0.000000	0.003972	0.000000	0.135620
C9-16 Aromatics	0.000000	0.005709	0.000000	0.194930
Chlorobenzenes	0.000000	0.000000	0.000000	0.000013
Chloromethane	0.000000	0.000001	0.000001	0.000034
Dichloromethane	0.000000	0.000001	0.000001	0.000038
Ethylbenzene	0.000000	0.000441	0.000001	0.015012
Formaldehyde	0.000007	0.021528	0.000015	0.716560
Ketones	0.000000	0.007014	0.000000	0.239500
Styrenes	0.000000	0.000000	0.000000	0.000000
Toluene	0.000239	0.007031	0.000931	0.146910
Trimethylbenzenes	0.000000	0.001066	0.000000	0.036404
Vinyl Chloride	0.000000	0.000000	0.000000	0.000011
Xylenes	0.000017	0.004595	0.000037	0.112580

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

C = carbon; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000001	0.000000	0.000002	0.000000	0.000001	0.000000	0.000000
Acetone	0.000000	0.000080	0.000000	0.000119	0.000000	0.000099	0.000000	0.000033
Acrolein	0.000000	0.000027	0.000000	0.000041	0.000000	0.000034	0.000000	0.000011
Aldehydes	0.000001	0.000364	0.000000	0.000544	0.000000	0.000452	0.000000	0.000151
Benzene	0.000017	0.000062	0.000008	0.000079	0.000004	0.000054	0.000003	0.000020
C16+ Aliphatics	0.000000	0.000012	0.000000	0.000019	0.000000	0.000015	0.000000	0.000005
C2-C8 Aliphatics	0.000060	0.000312	0.000029	0.000416	0.000013	0.000305	0.000010	0.000110
C9-16 Aliphatics	0.000000	0.000015	0.000000	0.000023	0.000000	0.000019	0.000000	0.000006
C9-16 Aromatics	0.000000	0.000022	0.000000	0.000033	0.000000	0.000028	0.000000	0.000009
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000002	0.000000	0.000003	0.000000	0.000002	0.000000	0.000001
Formaldehyde	0.000002	0.000086	0.000001	0.000128	0.000000	0.000105	0.000000	0.000035
Ketones	0.000000	0.000027	0.000000	0.000041	0.000000	0.000034	0.000000	0.000011
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000010	0.000046	0.000011	0.000062	0.000006	0.000045	0.000007	0.000022
Trimethylbenzenes	0.000000	0.000004	0.000000	0.000006	0.000000	0.000005	0.000000	0.000002
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000004	0.000024	0.000002	0.000033	0.000001	0.000025	0.000001	0.000009

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000001	0.000000	0.000339	0.000000	0.000022	0.000000	0.000018
Acetone	0.000000	0.000067	0.000000	0.024033	0.000000	0.001548	0.000000	0.001245
Acrolein	0.000000	0.000023	0.000000	0.008208	0.000000	0.000524	0.000000	0.000421
Aldehydes	0.000000	0.000305	0.000000	0.109530	0.000000	0.007040	0.000000	0.005660
Benzene	0.000002	0.000039	0.000010	0.015171	0.000006	0.000490	0.000006	0.000374
C16+ Aliphatics	0.000000	0.000010	0.000000	0.003749	0.000000	0.000242	0.000000	0.000194
C2-C8 Aliphatics	0.000008	0.000215	0.000037	0.081276	0.000023	0.003484	0.000023	0.002727
C9-16 Aliphatics	0.000000	0.000013	0.000000	0.004639	0.000000	0.000299	0.000000	0.000240
C9-16 Aromatics	0.000000	0.000019	0.000000	0.006669	0.000000	0.000430	0.000000	0.000345
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000001	0.000000	0.000514	0.000000	0.000033	0.000000	0.000027
Formaldehyde	0.000000	0.000071	0.000001	0.025600	0.000001	0.001600	0.000001	0.001284
Ketones	0.000000	0.000023	0.000000	0.008193	0.000000	0.000528	0.000000	0.000424
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000005	0.000034	0.000025	0.009135	0.000013	0.000436	0.000013	0.000353
Trimethylbenzenes	0.000000	0.000003	0.000000	0.001245	0.000000	0.000080	0.000000	0.000065
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000001	0.000017	0.000003	0.006480	0.000002	0.000296	0.000002	0.000233

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000021	0.000000	0.000021	0.000000	0.000020	0.000000	0.000017
Acetone	0.000000	0.001464	0.000000	0.001464	0.000000	0.001394	0.000000	0.001228
Acrolein	0.000000	0.000495	0.000000	0.000495	0.000000	0.000472	0.000000	0.000416
Aldehydes	0.000000	0.006657	0.000000	0.006657	0.000000	0.006341	0.000000	0.005587
Benzene	0.000006	0.000463	0.000006	0.000470	0.000006	0.000510	0.000006	0.000449
C16+ Aliphatics	0.000000	0.000228	0.000000	0.000228	0.000000	0.000217	0.000000	0.000192
C2-C8 Aliphatics	0.000023	0.003292	0.000023	0.003318	0.000023	0.003383	0.000022	0.002980
C9-16 Aliphatics	0.000000	0.000283	0.000000	0.000283	0.000000	0.000269	0.000000	0.000237
C9-16 Aromatics	0.000000	0.000406	0.000000	0.000406	0.000000	0.000387	0.000000	0.000341
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000031	0.000000	0.000031	0.000000	0.000030	0.000000	0.000026
Formaldehyde	0.000001	0.001513	0.000001	0.001513	0.000001	0.001448	0.000001	0.001275
Ketones	0.000000	0.000499	0.000000	0.000499	0.000000	0.000475	0.000000	0.000419
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000013	0.000424	0.000013	0.000430	0.000013	0.000440	0.000013	0.000389
Trimethylbenzenes	0.000000	0.000076	0.000000	0.000076	0.000000	0.000072	0.000000	0.000064
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000002	0.000280	0.000002	0.000282	0.000002	0.000284	0.000002	0.000250

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000021	0.000000	0.000020	0.000000	0.000018	0.000000	0.000019
Acetone	0.000000	0.001465	0.000000	0.001402	0.000000	0.001286	0.000000	0.001377
Acrolein	0.000000	0.000502	0.000000	0.000475	0.000000	0.000435	0.000000	0.000466
Aldehydes	0.000000	0.006681	0.000000	0.006374	0.000000	0.005849	0.000000	0.006264
Benzene	0.000008	0.001069	0.000009	0.000490	0.000006	0.000436	0.000006	0.000486
C16+ Aliphatics	0.000000	0.000229	0.000000	0.000219	0.000000	0.000201	0.000000	0.000215
C2-C8 Aliphatics	0.000027	0.005468	0.000031	0.003321	0.000022	0.002996	0.000022	0.003277
C9-16 Aliphatics	0.000000	0.000283	0.000000	0.000271	0.000000	0.000248	0.000000	0.000266
C9-16 Aromatics	0.000000	0.000406	0.000000	0.000389	0.000000	0.000357	0.000000	0.000382
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000032	0.000000	0.000030	0.000000	0.000028	0.000000	0.000029
Formaldehyde	0.000001	0.001576	0.000001	0.001453	0.000001	0.001332	0.000001	0.001428
Ketones	0.000000	0.000499	0.000000	0.000478	0.000000	0.000438	0.000000	0.000470
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000015	0.000773	0.000019	0.000410	0.000012	0.000375	0.000012	0.000407
Trimethylbenzenes	0.000000	0.000076	0.000000	0.000073	0.000000	0.000067	0.000000	0.000071
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000002	0.000431	0.000002	0.000280	0.000001	0.000253	0.000001	0.000276

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000018	0.000000	0.000018	0.000000	0.000014	0.000000	0.000016
Acetone	0.000000	0.001245	0.000000	0.001259	0.000000	0.000998	0.000000	0.001123
Acrolein	0.000000	0.000422	0.000000	0.000426	0.000000	0.000338	0.000000	0.000380
Aldehydes	0.000000	0.005661	0.000000	0.005724	0.000000	0.004538	0.000000	0.005105
Benzene	0.000006	0.000449	0.000006	0.000447	0.000006	0.000321	0.000006	0.000334
C16+ Aliphatics	0.000000	0.000194	0.000000	0.000196	0.000000	0.000156	0.000000	0.000175
C2-C8 Aliphatics	0.000021	0.002998	0.000022	0.003008	0.000022	0.002262	0.000022	0.002448
C9-16 Aliphatics	0.000000	0.000240	0.000000	0.000243	0.000000	0.000193	0.000000	0.000217
C9-16 Aromatics	0.000000	0.000345	0.000000	0.000349	0.000000	0.000277	0.000000	0.000312
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000027	0.000000	0.000027	0.000000	0.000021	0.000000	0.000024
Formaldehyde	0.000001	0.001292	0.000001	0.001305	0.000001	0.001032	0.000001	0.001158
Ketones	0.000000	0.000424	0.000000	0.000429	0.000000	0.000340	0.000000	0.000383
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000011	0.000368	0.000011	0.000372	0.000012	0.000283	0.000012	0.000308
Trimethylbenzenes	0.000000	0.000064	0.000000	0.000065	0.000000	0.000052	0.000000	0.000058
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000001	0.000252	0.000001	0.000253	0.000002	0.000192	0.000002	0.000209

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)						
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000023	0.000000	0.000016	0.000000	0.000017
Acetone	0.000000	0.001596	0.000000	0.001114	0.000000	0.001213
Acrolein	0.000000	0.000540	0.000000	0.000377	0.000000	0.000410
Aldehydes	0.000000	0.007258	0.000000	0.005067	0.000000	0.005516
Benzene	0.000009	0.000486	0.000007	0.000350	0.000007	0.000392
C16+ Aliphatics	0.000000	0.000249	0.000000	0.000174	0.000000	0.000189
C2-C8 Aliphatics	0.000031	0.003521	0.000024	0.002499	0.000024	0.002757
C9-16 Aliphatics	0.000000	0.000308	0.000000	0.000215	0.000000	0.000234
C9-16 Aromatics	0.000000	0.000443	0.000000	0.000309	0.000000	0.000337
Chlorobenzenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Dichloromethane	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Ethylbenzene	0.000000	0.000034	0.000000	0.000024	0.000000	0.000026
Formaldehyde	0.000001	0.001647	0.000001	0.001151	0.000001	0.001254
Ketones	0.000000	0.000544	0.000000	0.000380	0.000000	0.000414
Styrenes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Toluene	0.000018	0.000439	0.000013	0.000316	0.000013	0.000347
Trimethylbenzenes	0.000000	0.000083	0.000000	0.000058	0.000000	0.000063
Vinyl Chloride	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Xylenes	0.000002	0.000301	0.000002	0.000213	0.000002	0.000234

Table 10.III.2-9: Predicted Annual Average Volatile Organic Compound Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Average (µg/m³)				
1,1,1-Trichlorethane	0.000000	0.000000	0.000000	0.000000
1,3-Butadiene	0.000000	0.000023	0.000000	0.001194
Acetone	0.000000	0.001593	0.000000	0.084645
Acrolein	0.000000	0.000541	0.000000	0.028580
Aldehydes	0.000000	0.007249	0.000000	0.384710
Benzene	0.000007	0.000691	0.000016	0.021239
C16+ Aliphatics	0.000000	0.000248	0.000000	0.013203
C2-C8 Aliphatics	0.000024	0.004256	0.000055	0.170500
C9-16 Aliphatics	0.000000	0.000307	0.000000	0.016340
C9-16 Aromatics	0.000000	0.000442	0.000000	0.023486
Chlorobenzenes	0.000000	0.000000	0.000000	0.000001
Chloromethane	0.000000	0.000000	0.000000	0.000003
Dichloromethane	0.000000	0.000000	0.000000	0.000003
Ethylbenzene	0.000000	0.000034	0.000000	0.001811
Formaldehyde	0.000001	0.001665	0.000002	0.086892
Ketones	0.000000	0.000543	0.000000	0.028856
Styrenes	0.000000	0.000000	0.000000	0.000000
Toluene	0.000013	0.000540	0.000056	0.020901
Trimethylbenzenes	0.000000	0.000083	0.000000	0.004386
Vinyl Chloride	0.000000	0.000000	0.000000	0.000001
Xylenes	0.000002	0.000351	0.000004	0.014815

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

C = carbon; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1234678-H6VDD	3.92E-14	7.76E-14	1.20E-13	1.68E-13	7.00E-14	7.75E-14	1.70E-13	1.70E-13
1234678-H7CDF	8.42E-14	1.67E-13	2.58E-13	3.62E-13	1.50E-13	1.67E-13	3.65E-13	3.66E-13
1234789-H7CDF	3.53E-14	6.98E-14	1.08E-13	1.51E-13	6.30E-14	6.97E-14	1.53E-13	1.53E-13
123478-H6CDD	2.55E-14	5.04E-14	7.79E-14	1.09E-13	4.55E-14	5.03E-14	1.10E-13	1.11E-13
123478-H6CDF	3.69E-13	7.31E-13	1.13E-12	1.58E-12	6.59E-13	7.30E-13	1.60E-12	1.60E-12
123478-P5CDF	6.32E-13	1.25E-12	1.93E-12	2.71E-12	1.13E-12	1.25E-12	2.74E-12	2.75E-12
123678-H6CDD	3.80E-14	7.52E-14	1.16E-13	1.63E-13	6.79E-14	7.51E-14	1.65E-13	1.65E-13
123678-H6CDF	1.54E-13	3.06E-13	4.72E-13	6.62E-13	2.76E-13	3.05E-13	6.70E-13	6.71E-13
123789-H6CDD	6.88E-14	1.36E-13	2.10E-13	2.95E-13	1.23E-13	1.36E-13	2.98E-13	2.99E-13
123789-H6CDF	2.86E-14	5.66E-14	8.75E-14	1.23E-13	5.11E-14	5.65E-14	1.24E-13	1.24E-13
12378-P5CDD	9.31E-14	1.84E-13	2.85E-13	3.99E-13	1.66E-13	1.84E-13	4.04E-13	4.04E-13
12378-P5CDF	3.06E-14	6.05E-14	9.35E-14	1.31E-13	5.46E-14	6.04E-14	1.33E-13	1.33E-13
234678-H6CDF	3.38E-13	6.68E-13	1.03E-12	1.45E-12	6.03E-13	6.67E-13	1.46E-12	1.47E-12
2378-T4CDD	9.84E-14	1.95E-13	3.01E-13	4.22E-13	1.76E-13	1.94E-13	4.27E-13	4.27E-13
2378-T4CDF	2.27E-13	4.50E-13	6.95E-13	9.75E-13	4.06E-13	4.49E-13	9.86E-13	9.87E-13
OCDD	9.06E-14	1.79E-13	2.77E-13	3.89E-13	1.62E-13	1.79E-13	3.93E-13	3.94E-13
OCDF	1.63E-14	3.22E-14	4.97E-14	6.98E-14	2.90E-14	3.21E-14	7.05E-14	7.06E-14

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1234678-H6VDD	6.95E-14	7.49E-14	2.71E-13	1.66E-11	1.27E-13	1.00E-12	1.34E-13	1.67E-12
1234678-H7CDF	1.49E-13	1.61E-13	5.83E-13	3.57E-11	2.73E-13	2.16E-12	2.87E-13	3.58E-12
1234789-H7CDF	6.25E-14	6.74E-14	2.44E-13	1.50E-11	1.14E-13	9.02E-13	1.20E-13	1.50E-12
123478-H6CDD	4.51E-14	4.87E-14	1.76E-13	1.08E-11	8.24E-14	6.52E-13	8.69E-14	1.08E-12
123478-H6CDF	6.54E-13	7.06E-13	2.55E-12	1.57E-10	1.19E-12	9.44E-12	1.26E-12	1.57E-11
123478-P5CDF	1.12E-12	1.21E-12	4.37E-12	2.68E-10	2.05E-12	1.62E-11	2.16E-12	2.69E-11
123678-H6CDD	6.74E-14	7.27E-14	2.63E-13	1.61E-11	1.23E-13	9.73E-13	1.30E-13	1.62E-12
123678-H6CDF	2.74E-13	2.95E-13	1.07E-12	6.55E-11	5.00E-13	3.95E-12	5.27E-13	6.56E-12
123789-H6CDD	1.22E-13	1.31E-13	4.76E-13	2.92E-11	2.23E-13	1.76E-12	2.35E-13	2.92E-12
123789-H6CDF	5.07E-14	5.47E-14	1.98E-13	1.21E-11	9.26E-14	7.32E-13	9.75E-14	1.22E-12
12378-P5CDD	1.65E-13	1.78E-13	6.44E-13	3.95E-11	3.01E-13	2.38E-12	3.17E-13	3.96E-12
12378-P5CDF	5.42E-14	5.84E-14	2.11E-13	1.30E-11	9.89E-14	7.82E-13	1.04E-13	1.30E-12
234678-H6CDF	5.98E-13	6.45E-13	2.34E-12	1.43E-10	1.09E-12	8.64E-12	1.15E-12	1.44E-11
2378-T4CDD	1.74E-13	1.88E-13	6.81E-13	4.17E-11	3.18E-13	2.52E-12	3.35E-13	4.18E-12
2378-T4CDF	4.03E-13	4.34E-13	1.57E-12	9.64E-11	7.35E-13	5.82E-12	7.75E-13	9.66E-12
OCDD	1.61E-13	1.73E-13	6.27E-13	3.84E-11	2.93E-13	2.32E-12	3.09E-13	3.85E-12
OCDF	2.88E-14	3.11E-14	1.13E-13	6.90E-12	5.26E-14	4.16E-13	5.55E-14	6.91E-13

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1234678-H6VDD	1.37E-13	1.33E-12	1.32E-13	1.34E-12	1.25E-13	1.64E-12	1.34E-13	1.71E-12
1234678-H7CDF	2.93E-13	2.86E-12	2.83E-13	2.87E-12	2.68E-13	3.53E-12	2.89E-13	3.67E-12
1234789-H7CDF	1.23E-13	1.20E-12	1.18E-13	1.20E-12	1.12E-13	1.48E-12	1.21E-13	1.54E-12
123478-H6CDD	8.87E-14	8.63E-13	8.55E-14	8.68E-13	8.10E-14	1.07E-12	8.73E-14	1.11E-12
123478-H6CDF	1.29E-12	1.25E-11	1.24E-12	1.26E-11	1.17E-12	1.55E-11	1.27E-12	1.61E-11
123478-P5CDF	2.20E-12	2.14E-11	2.12E-12	2.15E-11	2.01E-12	2.65E-11	2.17E-12	2.76E-11
123678-H6CDD	1.32E-13	1.29E-12	1.28E-13	1.30E-12	1.21E-13	1.59E-12	1.30E-13	1.66E-12
123678-H6CDF	5.38E-13	5.23E-12	5.18E-13	5.26E-12	4.91E-13	6.47E-12	5.29E-13	6.73E-12
123789-H6CDD	2.40E-13	2.33E-12	2.31E-13	2.34E-12	2.19E-13	2.88E-12	2.36E-13	3.00E-12
123789-H6CDF	9.96E-14	9.70E-13	9.60E-14	9.75E-13	9.10E-14	1.20E-12	9.80E-14	1.25E-12
12378-P5CDD	3.24E-13	3.15E-12	3.12E-13	3.17E-12	2.96E-13	3.90E-12	3.19E-13	4.06E-12
12378-P5CDF	1.06E-13	1.04E-12	1.03E-13	1.04E-12	9.72E-14	1.28E-12	1.05E-13	1.33E-12
234678-H6CDF	1.18E-12	1.14E-11	1.13E-12	1.15E-11	1.07E-12	1.42E-11	1.16E-12	1.47E-11
2378-T4CDD	3.43E-13	3.33E-12	3.30E-13	3.35E-12	3.13E-13	4.12E-12	3.37E-13	4.29E-12
2378-T4CDF	7.92E-13	7.70E-12	7.63E-13	7.74E-12	7.23E-13	9.53E-12	7.79E-13	9.91E-12
OCDD	3.16E-13	3.07E-12	3.04E-13	3.09E-12	2.88E-13	3.80E-12	3.11E-13	3.95E-12
OCDF	5.66E-14	5.51E-13	5.46E-14	5.54E-13	5.17E-14	6.82E-13	5.57E-14	7.09E-13

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1234678-H6VDD	1.46E-13	1.70E-12	1.65E-13	8.40E-13	1.13E-13	8.73E-13	1.12E-13	8.18E-13
1234678-H7CDF	3.14E-13	3.67E-12	3.55E-13	1.81E-12	2.43E-13	1.88E-12	2.40E-13	1.76E-12
1234789-H7CDF	1.31E-13	1.53E-12	1.49E-13	7.56E-13	1.02E-13	7.86E-13	1.01E-13	7.36E-13
123478-H6CDD	9.50E-14	1.11E-12	1.07E-13	5.46E-13	7.34E-14	5.67E-13	7.26E-14	5.32E-13
123478-H6CDF	1.38E-12	1.61E-11	1.56E-12	7.91E-12	1.06E-12	8.22E-12	1.05E-12	7.71E-12
123478-P5CDF	2.36E-12	2.75E-11	2.67E-12	1.36E-11	1.82E-12	1.41E-11	1.80E-12	1.32E-11
123678-H6CDD	1.42E-13	1.65E-12	1.60E-13	8.15E-13	1.10E-13	8.47E-13	1.08E-13	7.94E-13
123678-H6CDF	5.76E-13	6.72E-12	6.51E-13	3.31E-12	4.45E-13	3.44E-12	4.40E-13	3.22E-12
123789-H6CDD	2.56E-13	2.99E-12	2.90E-13	1.47E-12	1.98E-13	1.53E-12	1.96E-13	1.44E-12
123789-H6CDF	1.07E-13	1.24E-12	1.21E-13	6.13E-13	8.24E-14	6.37E-13	8.15E-14	5.97E-13
12378-P5CDD	3.47E-13	4.05E-12	3.93E-13	2.00E-12	2.68E-13	2.07E-12	2.65E-13	1.94E-12
12378-P5CDF	1.14E-13	1.33E-12	1.29E-13	6.55E-13	8.81E-14	6.81E-13	8.71E-14	6.38E-13
234678-H6CDF	1.26E-12	1.47E-11	1.42E-12	7.24E-12	9.73E-13	7.52E-12	9.62E-13	7.05E-12
2378-T4CDD	3.67E-13	4.28E-12	4.15E-13	2.11E-12	2.83E-13	2.19E-12	2.80E-13	2.05E-12
2378-T4CDF	8.47E-13	9.89E-12	9.59E-13	4.87E-12	6.55E-13	5.06E-12	6.48E-13	4.75E-12
OCDD	3.38E-13	3.94E-12	3.82E-13	1.94E-12	2.61E-13	2.02E-12	2.58E-13	1.89E-12
OCDF	6.06E-14	7.08E-13	6.86E-14	3.49E-13	4.68E-14	3.62E-13	4.64E-14	3.40E-13

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
1234678-H6VDD	1.27E-13	7.97E-13	1.45E-13	7.04E-13	1.69E-13	7.43E-13	1.54E-13	9.44E-13
1234678-H7CDF	2.74E-13	1.71E-12	3.11E-13	1.51E-12	3.63E-13	1.60E-12	3.32E-13	2.03E-12
1234789-H7CDF	1.15E-13	7.17E-13	1.30E-13	6.33E-13	1.52E-13	6.69E-13	1.39E-13	8.50E-13
123478-H6CDD	8.28E-14	5.18E-13	9.41E-14	4.57E-13	1.10E-13	4.83E-13	1.00E-13	6.14E-13
123478-H6CDF	1.20E-12	7.50E-12	1.36E-12	6.63E-12	1.59E-12	7.00E-12	1.45E-12	8.89E-12
123478-P5CDF	2.06E-12	1.29E-11	2.34E-12	1.14E-11	2.72E-12	1.20E-11	2.49E-12	1.52E-11
123678-H6CDD	1.24E-13	7.73E-13	1.40E-13	6.83E-13	1.64E-13	7.21E-13	1.50E-13	9.16E-13
123678-H6CDF	5.02E-13	3.14E-12	5.70E-13	2.77E-12	6.65E-13	2.93E-12	6.08E-13	3.72E-12
123789-H6CDD	2.24E-13	1.40E-12	2.54E-13	1.23E-12	2.96E-13	1.30E-12	2.71E-13	1.66E-12
123789-H6CDF	9.30E-14	5.82E-13	1.06E-13	5.14E-13	1.23E-13	5.42E-13	1.13E-13	6.89E-13
12378-P5CDD	3.03E-13	1.89E-12	3.44E-13	1.67E-12	4.01E-13	1.76E-12	3.67E-13	2.24E-12
12378-P5CDF	9.94E-14	6.21E-13	1.13E-13	5.49E-13	1.32E-13	5.79E-13	1.20E-13	7.36E-13
234678-H6CDF	1.10E-12	6.86E-12	1.25E-12	6.06E-12	1.45E-12	6.40E-12	1.33E-12	8.13E-12
2378-T4CDD	3.20E-13	2.00E-12	3.63E-13	1.77E-12	4.24E-13	1.86E-12	3.87E-13	2.37E-12
2378-T4CDF	7.39E-13	4.62E-12	8.40E-13	4.08E-12	9.79E-13	4.31E-12	8.95E-13	5.48E-12
OCDD	2.95E-13	1.84E-12	3.35E-13	1.63E-12	3.91E-13	1.72E-12	3.57E-13	2.18E-12
OCDF	5.29E-14	3.31E-13	6.01E-14	2.92E-13	7.01E-14	3.08E-13	6.41E-14	3.92E-13

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)						
1234678-H6VDD	1.89E-13	9.88E-13	1.70E-13	8.43E-13	1.73E-13	1.14E-12
1234678-H7CDF	4.06E-13	2.13E-12	3.66E-13	1.81E-12	3.72E-13	2.46E-12
1234789-H7CDF	1.70E-13	8.90E-13	1.53E-13	7.58E-13	1.56E-13	1.03E-12
123478-H6CDD	1.23E-13	6.42E-13	1.11E-13	5.48E-13	1.12E-13	7.43E-13
123478-H6CDF	1.78E-12	9.31E-12	1.61E-12	7.94E-12	1.63E-12	1.08E-11
123478-P5CDF	3.05E-12	1.59E-11	2.75E-12	1.36E-11	2.79E-12	1.84E-11
123678-H6CDD	1.83E-13	9.59E-13	1.65E-13	8.17E-13	1.68E-13	1.11E-12
123678-H6CDF	7.45E-13	3.89E-12	6.71E-13	3.32E-12	6.81E-13	4.50E-12
123789-H6CDD	3.32E-13	1.73E-12	2.99E-13	1.48E-12	3.03E-13	2.01E-12
123789-H6CDF	1.38E-13	7.22E-13	1.24E-13	6.15E-13	1.26E-13	8.34E-13
12378-P5CDD	4.49E-13	2.35E-12	4.05E-13	2.00E-12	4.11E-13	2.71E-12
12378-P5CDF	1.47E-13	7.71E-13	1.33E-13	6.57E-13	1.35E-13	8.92E-13
234678-H6CDF	1.63E-12	8.52E-12	1.47E-12	7.26E-12	1.49E-12	9.85E-12
2378-T4CDD	4.74E-13	2.48E-12	4.28E-13	2.12E-12	4.34E-13	2.87E-12
2378-T4CDF	1.10E-12	5.73E-12	9.88E-13	4.89E-12	1.00E-12	6.63E-12
OCDD	4.37E-13	2.29E-12	3.94E-13	1.95E-12	4.00E-13	2.64E-12
OCDF	7.84E-14	4.10E-13	7.07E-14	3.50E-13	7.18E-14	4.74E-13

Table 10.III.2-10: Predicted Maximum 1-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)				
1234678-H6VDD	1.69E-13	2.00E-12	5.73E-13	2.28E-11
1234678-H7CDF	3.64E-13	4.31E-12	1.23E-12	4.90E-11
1234789-H7CDF	1.52E-13	1.80E-12	5.16E-13	2.05E-11
123478-H6CDD	1.10E-13	1.30E-12	3.72E-13	1.48E-11
123478-H6CDF	1.59E-12	1.89E-11	5.40E-12	2.15E-10
123478-P5CDF	2.73E-12	3.23E-11	9.24E-12	3.68E-10
123678-H6CDD	1.64E-13	1.94E-12	5.56E-13	2.21E-11
123678-H6CDF	6.67E-13	7.90E-12	2.26E-12	8.99E-11
123789-H6CDD	2.97E-13	3.52E-12	1.01E-12	4.00E-11
123789-H6CDF	1.24E-13	1.46E-12	4.18E-13	1.66E-11
12378-P5CDD	4.02E-13	4.76E-12	1.36E-12	5.42E-11
12378-P5CDF	1.32E-13	1.56E-12	4.47E-13	1.78E-11
234678-H6CDF	1.46E-12	1.73E-11	4.93E-12	1.96E-10
2378-T4CDD	4.25E-13	5.03E-12	1.44E-12	5.72E-11
2378-T4CDF	9.81E-13	1.16E-11	3.32E-12	1.32E-10
OCDD	3.91E-13	4.64E-12	1.32E-12	5.28E-11
OCDF	7.02E-14	8.32E-13	2.38E-13	9.46E-12

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1234678-H6VDD	1.98E-14	4.16E-14	4.38E-14	5.24E-14	1.07E-14	1.77E-14	4.00E-14	5.68E-14
1234678-H7CDF	4.26E-14	8.95E-14	9.41E-14	1.13E-13	2.29E-14	3.80E-14	8.60E-14	1.22E-13
1234789-H7CDF	1.78E-14	3.75E-14	3.94E-14	4.72E-14	9.60E-15	1.59E-14	3.60E-14	5.11E-14
123478-H6CDD	1.29E-14	2.71E-14	2.85E-14	3.41E-14	6.94E-15	1.15E-14	2.60E-14	3.69E-14
123478-H6CDF	1.87E-13	3.92E-13	4.12E-13	4.94E-13	1.01E-13	1.67E-13	3.77E-13	5.35E-13
123478-P5CDF	3.19E-13	6.72E-13	7.06E-13	8.45E-13	1.72E-13	2.85E-13	6.45E-13	9.16E-13
123678-H6CDD	1.92E-14	4.04E-14	4.25E-14	5.08E-14	1.04E-14	1.72E-14	3.88E-14	5.51E-14
123678-H6CDF	7.80E-14	1.64E-13	1.72E-13	2.07E-13	4.20E-14	6.97E-14	1.58E-13	2.24E-13
123789-H6CDD	3.48E-14	7.31E-14	7.68E-14	9.20E-14	1.87E-14	3.10E-14	7.02E-14	9.97E-14
123789-H6CDF	1.45E-14	3.04E-14	3.20E-14	3.83E-14	7.79E-15	1.29E-14	2.92E-14	4.15E-14
12378-P5CDD	4.70E-14	9.89E-14	1.04E-13	1.24E-13	2.53E-14	4.20E-14	9.50E-14	1.35E-13
12378-P5CDF	1.55E-14	3.25E-14	3.41E-14	4.09E-14	8.32E-15	1.38E-14	3.12E-14	4.43E-14
234678-H6CDF	1.71E-13	3.59E-13	3.77E-13	4.52E-13	9.19E-14	1.52E-13	3.45E-13	4.89E-13
2378-T4CDD	4.97E-14	1.05E-13	1.10E-13	1.32E-13	2.68E-14	4.44E-14	1.00E-13	1.43E-13
2378-T4CDF	1.15E-13	2.41E-13	2.54E-13	3.04E-13	6.19E-14	1.03E-13	2.32E-13	3.30E-13
OCDD	4.58E-14	9.63E-14	1.01E-13	1.21E-13	2.47E-14	4.09E-14	9.25E-14	1.31E-13
OCDF	8.22E-15	1.73E-14	1.82E-14	2.18E-14	4.43E-15	7.34E-15	1.66E-14	2.36E-14

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1234678-H6VDD	2.39E-14	2.65E-14	9.56E-14	3.23E-12	4.65E-14	1.85E-13	3.89E-14	1.70E-13
1234678-H7CDF	5.13E-14	5.71E-14	2.06E-13	6.95E-12	1.00E-13	3.98E-13	8.37E-14	3.65E-13
1234789-H7CDF	2.15E-14	2.39E-14	8.60E-14	2.91E-12	4.19E-14	1.67E-13	3.50E-14	1.53E-13
123478-H6CDD	1.55E-14	1.73E-14	6.21E-14	2.10E-12	3.02E-14	1.20E-13	2.53E-14	1.10E-13
123478-H6CDF	2.25E-13	2.50E-13	9.01E-13	3.05E-11	4.38E-13	1.75E-12	3.67E-13	1.60E-12
123478-P5CDF	3.85E-13	4.28E-13	1.54E-12	5.22E-11	7.50E-13	2.99E-12	6.28E-13	2.74E-12
123678-H6CDD	2.32E-14	2.57E-14	9.27E-14	3.14E-12	4.51E-14	1.80E-13	3.78E-14	1.65E-13
123678-H6CDF	9.40E-14	1.05E-13	3.77E-13	1.27E-11	1.83E-13	7.30E-13	1.53E-13	6.69E-13
123789-H6CDD	4.19E-14	4.66E-14	1.68E-13	5.68E-12	8.16E-14	3.25E-13	6.83E-14	2.98E-13
123789-H6CDF	1.74E-14	1.94E-14	6.98E-14	2.36E-12	3.40E-14	1.35E-13	2.84E-14	1.24E-13
12378-P5CDD	5.67E-14	6.30E-14	2.27E-13	7.68E-12	1.10E-13	4.40E-13	9.25E-14	4.03E-13
12378-P5CDF	1.86E-14	2.07E-14	7.46E-14	2.52E-12	3.63E-14	1.45E-13	3.04E-14	1.32E-13
234678-H6CDF	2.06E-13	2.29E-13	8.24E-13	2.79E-11	4.01E-13	1.60E-12	3.35E-13	1.46E-12
2378-T4CDD	5.99E-14	6.66E-14	2.40E-13	8.12E-12	1.17E-13	4.65E-13	9.77E-14	4.26E-13
2378-T4CDF	1.38E-13	1.54E-13	5.54E-13	1.88E-11	2.70E-13	1.08E-12	2.26E-13	9.84E-13
OCDD	5.52E-14	6.14E-14	2.21E-13	7.48E-12	1.08E-13	4.29E-13	9.01E-14	3.92E-13
OCDF	9.91E-15	1.10E-14	3.97E-14	1.34E-12	1.93E-14	7.69E-14	1.62E-14	7.04E-14

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1234678-H6VDD	3.91E-14	1.85E-13	4.05E-14	2.25E-13	4.59E-14	2.67E-13	4.73E-14	1.87E-13
1234678-H7CDF	8.41E-14	3.97E-13	8.71E-14	4.84E-13	9.87E-14	5.74E-13	1.02E-13	4.03E-13
1234789-H7CDF	3.52E-14	1.66E-13	3.65E-14	2.03E-13	4.13E-14	2.40E-13	4.26E-14	1.69E-13
123478-H6CDD	2.54E-14	1.20E-13	2.63E-14	1.46E-13	2.98E-14	1.74E-13	3.07E-14	1.22E-13
123478-H6CDF	3.68E-13	1.74E-12	3.82E-13	2.12E-12	4.33E-13	2.52E-12	4.45E-13	1.77E-12
123478-P5CDF	6.31E-13	2.98E-12	6.53E-13	3.63E-12	7.41E-13	4.31E-12	7.63E-13	3.02E-12
123678-H6CDD	3.79E-14	1.79E-13	3.93E-14	2.19E-13	4.45E-14	2.59E-13	4.59E-14	1.82E-13
123678-H6CDF	1.54E-13	7.27E-13	1.60E-13	8.88E-13	1.81E-13	1.05E-12	1.86E-13	7.38E-13
123789-H6CDD	6.86E-14	3.24E-13	7.11E-14	3.95E-13	8.06E-14	4.69E-13	8.30E-14	3.29E-13
123789-H6CDF	2.85E-14	1.35E-13	2.96E-14	1.64E-13	3.35E-14	1.95E-13	3.45E-14	1.37E-13
12378-P5CDD	9.29E-14	4.38E-13	9.62E-14	5.35E-13	1.09E-13	6.35E-13	1.12E-13	4.45E-13
12378-P5CDF	3.05E-14	1.44E-13	3.16E-14	1.76E-13	3.58E-14	2.08E-13	3.69E-14	1.46E-13
234678-H6CDF	3.37E-13	1.59E-12	3.49E-13	1.94E-12	3.96E-13	2.30E-12	4.07E-13	1.61E-12
2378-T4CDD	9.81E-14	4.63E-13	1.02E-13	5.66E-13	1.15E-13	6.71E-13	1.19E-13	4.70E-13
2378-T4CDF	2.27E-13	1.07E-12	2.35E-13	1.31E-12	2.66E-13	1.55E-12	2.74E-13	1.09E-12
OCDD	9.04E-14	4.27E-13	9.37E-14	5.21E-13	1.06E-13	6.18E-13	1.09E-13	4.33E-13
OCDF	1.62E-14	7.66E-14	1.68E-14	9.35E-14	1.91E-14	1.11E-13	1.96E-14	7.78E-14

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1234678-H6VDD	4.07E-14	5.92E-13	7.12E-14	1.45E-13	4.09E-14	1.58E-13	4.35E-14	1.52E-13
1234678-H7CDF	8.74E-14	1.27E-12	1.53E-13	3.11E-13	8.79E-14	3.40E-13	9.36E-14	3.26E-13
1234789-H7CDF	3.66E-14	5.33E-13	6.41E-14	1.30E-13	3.68E-14	1.42E-13	3.92E-14	1.36E-13
123478-H6CDD	2.64E-14	3.85E-13	4.63E-14	9.40E-14	2.66E-14	1.03E-13	2.83E-14	9.85E-14
123478-H6CDF	3.83E-13	5.58E-12	6.71E-13	1.36E-12	3.85E-13	1.49E-12	4.10E-13	1.43E-12
123478-P5CDF	6.56E-13	9.55E-12	1.15E-12	2.33E-12	6.60E-13	2.55E-12	7.02E-13	2.44E-12
123678-H6CDD	3.94E-14	5.74E-13	6.91E-14	1.40E-13	3.97E-14	1.53E-13	4.22E-14	1.47E-13
123678-H6CDF	1.60E-13	2.33E-12	2.80E-13	5.70E-13	1.61E-13	6.23E-13	1.72E-13	5.97E-13
123789-H6CDD	7.13E-14	1.04E-12	1.25E-13	2.54E-13	7.18E-14	2.77E-13	7.64E-14	2.66E-13
123789-H6CDF	2.97E-14	4.32E-13	5.20E-14	1.06E-13	2.99E-14	1.15E-13	3.18E-14	1.11E-13
12378-P5CDD	9.65E-14	1.41E-12	1.69E-13	3.43E-13	9.71E-14	3.75E-13	1.03E-13	3.60E-13
12378-P5CDF	3.17E-14	4.62E-13	5.55E-14	1.13E-13	3.19E-14	1.23E-13	3.40E-14	1.18E-13
234678-H6CDF	3.50E-13	5.10E-12	6.13E-13	1.25E-12	3.52E-13	1.36E-12	3.75E-13	1.31E-12
2378-T4CDD	1.02E-13	1.49E-12	1.79E-13	3.63E-13	1.03E-13	3.97E-13	1.09E-13	3.80E-13
2378-T4CDF	2.36E-13	3.44E-12	4.13E-13	8.39E-13	2.37E-13	9.16E-13	2.53E-13	8.79E-13
OCDD	9.40E-14	1.37E-12	1.65E-13	3.34E-13	9.46E-14	3.65E-13	1.01E-13	3.50E-13
OCDF	1.69E-14	2.46E-13	2.95E-14	6.00E-14	1.70E-14	6.56E-14	1.81E-14	6.29E-14

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
1234678-H6VDD	4.69E-14	1.03E-13	4.88E-14	1.45E-13	5.59E-14	1.53E-13	5.00E-14	9.37E-14
1234678-H7CDF	1.01E-13	2.21E-13	1.05E-13	3.11E-13	1.20E-13	3.29E-13	1.07E-13	2.02E-13
1234789-H7CDF	4.22E-14	9.23E-14	4.39E-14	1.30E-13	5.03E-14	1.38E-13	4.50E-14	8.44E-14
123478-H6CDD	3.05E-14	6.67E-14	3.17E-14	9.41E-14	3.63E-14	9.94E-14	3.25E-14	6.09E-14
123478-H6CDF	4.42E-13	9.66E-13	4.60E-13	1.36E-12	5.26E-13	1.44E-12	4.71E-13	8.83E-13
123478-P5CDF	7.57E-13	1.65E-12	7.87E-13	2.34E-12	9.01E-13	2.47E-12	8.06E-13	1.51E-12
123678-H6CDD	4.55E-14	9.95E-14	4.73E-14	1.40E-13	5.42E-14	1.48E-13	4.85E-14	9.09E-14
123678-H6CDF	1.85E-13	4.04E-13	1.92E-13	5.70E-13	2.20E-13	6.03E-13	1.97E-13	3.69E-13
123789-H6CDD	8.24E-14	1.80E-13	8.56E-14	2.54E-13	9.81E-14	2.68E-13	8.77E-14	1.65E-13
123789-H6CDF	3.43E-14	7.49E-14	3.56E-14	1.06E-13	4.08E-14	1.12E-13	3.65E-14	6.84E-14
12378-P5CDD	1.11E-13	2.44E-13	1.16E-13	3.44E-13	1.33E-13	3.63E-13	1.19E-13	2.23E-13
12378-P5CDF	3.66E-14	8.00E-14	3.81E-14	1.13E-13	4.36E-14	1.19E-13	3.90E-14	7.31E-14
234678-H6CDF	4.04E-13	8.84E-13	4.20E-13	1.25E-12	4.81E-13	1.32E-12	4.31E-13	8.08E-13
2378-T4CDD	1.18E-13	2.58E-13	1.22E-13	3.63E-13	1.40E-13	3.84E-13	1.25E-13	2.35E-13
2378-T4CDF	2.72E-13	5.95E-13	2.83E-13	8.40E-13	3.24E-13	8.87E-13	2.90E-13	5.44E-13
OCDD	1.09E-13	2.37E-13	1.13E-13	3.35E-13	1.29E-13	3.54E-13	1.16E-13	2.17E-13
OCDF	1.95E-14	4.26E-14	2.02E-14	6.01E-14	2.32E-14	6.35E-14	2.07E-14	3.89E-14

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)						
1234678-H6VDD	8.19E-14	1.93E-13	5.53E-14	1.52E-13	5.30E-14	1.20E-13
1234678-H7CDF	1.76E-13	4.15E-13	1.19E-13	3.28E-13	1.14E-13	2.59E-13
1234789-H7CDF	7.37E-14	1.74E-13	4.98E-14	1.37E-13	4.77E-14	1.08E-13
123478-H6CDD	5.33E-14	1.25E-13	3.59E-14	9.91E-14	3.44E-14	7.83E-14
123478-H6CDF	7.72E-13	1.82E-12	5.21E-13	1.44E-12	4.99E-13	1.13E-12
123478-P5CDF	1.32E-12	3.11E-12	8.92E-13	2.46E-12	8.55E-13	1.94E-12
123678-H6CDD	7.95E-14	1.87E-13	5.36E-14	1.48E-13	5.14E-14	1.17E-13
123678-H6CDF	3.23E-13	7.60E-13	2.18E-13	6.01E-13	2.09E-13	4.75E-13
123789-H6CDD	1.44E-13	3.39E-13	9.71E-14	2.67E-13	9.30E-14	2.11E-13
123789-H6CDF	5.98E-14	1.41E-13	4.04E-14	1.11E-13	3.87E-14	8.79E-14
12378-P5CDD	1.95E-13	4.58E-13	1.31E-13	3.62E-13	1.26E-13	2.86E-13
12378-P5CDF	6.39E-14	1.50E-13	4.31E-14	1.19E-13	4.13E-14	9.40E-14
234678-H6CDF	7.06E-13	1.66E-12	4.76E-13	1.31E-12	4.57E-13	1.04E-12
2378-T4CDD	2.06E-13	4.84E-13	1.39E-13	3.83E-13	1.33E-13	3.02E-13
2378-T4CDF	4.75E-13	1.12E-12	3.21E-13	8.84E-13	3.07E-13	6.99E-13
OCDD	1.90E-13	4.46E-13	1.28E-13	3.53E-13	1.23E-13	2.79E-13
OCDF	3.40E-14	8.01E-14	2.29E-14	6.33E-14	2.20E-14	5.00E-14

Table 10.III.2-11: Predicted Maximum 24-Hour Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)				
1234678-H6VDD	4.69E-14	2.74E-13	1.85E-13	7.47E-12
1234678-H7CDF	1.01E-13	5.88E-13	3.97E-13	1.61E-11
1234789-H7CDF	4.22E-14	2.46E-13	1.66E-13	6.72E-12
123478-H6CDD	3.05E-14	1.78E-13	1.20E-13	4.86E-12
123478-H6CDF	4.42E-13	2.58E-12	1.74E-12	7.04E-11
123478-P5CDF	7.57E-13	4.41E-12	2.98E-12	1.20E-10
123678-H6CDD	4.55E-14	2.65E-13	1.79E-13	7.25E-12
123678-H6CDF	1.85E-13	1.08E-12	7.28E-13	2.94E-11
123789-H6CDD	8.23E-14	4.80E-13	3.24E-13	1.31E-11
123789-H6CDF	3.42E-14	2.00E-13	1.35E-13	5.45E-12
12378-P5CDD	1.11E-13	6.50E-13	4.39E-13	1.77E-11
12378-P5CDF	3.66E-14	2.13E-13	1.44E-13	5.83E-12
234678-H6CDF	4.04E-13	2.36E-12	1.59E-12	6.44E-11
2378-T4CDD	1.18E-13	6.87E-13	4.64E-13	1.87E-11
2378-T4CDF	2.72E-13	1.59E-12	1.07E-12	4.33E-11
OCDD	1.09E-13	6.33E-13	4.27E-13	1.73E-11
OCDF	1.95E-14	1.14E-13	7.66E-14	3.10E-12

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1234678-H6VDD	8.42E-16	2.42E-15	1.67E-15	3.29E-15	8.73E-16	2.34E-15	1.27E-15	1.95E-15
1234678-H7CDF	1.81E-15	5.20E-15	3.59E-15	7.08E-15	1.88E-15	5.02E-15	2.73E-15	4.20E-15
1234789-H7CDF	7.58E-16	2.18E-15	1.50E-15	2.96E-15	7.86E-16	2.10E-15	1.14E-15	1.76E-15
123478-H6CDD	5.47E-16	1.57E-15	1.09E-15	2.14E-15	5.68E-16	1.52E-15	8.24E-16	1.27E-15
123478-H6CDF	7.93E-15	2.28E-14	1.57E-14	3.10E-14	8.23E-15	2.20E-14	1.19E-14	1.84E-14
123478-P5CDF	1.36E-14	3.90E-14	2.70E-14	5.31E-14	1.41E-14	3.77E-14	2.05E-14	3.15E-14
123678-H6CDD	8.17E-16	2.35E-15	1.62E-15	3.19E-15	8.47E-16	2.27E-15	1.23E-15	1.90E-15
123678-H6CDF	3.32E-15	9.53E-15	6.59E-15	1.30E-14	3.44E-15	9.21E-15	5.00E-15	7.70E-15
123789-H6CDD	1.48E-15	4.25E-15	2.93E-15	5.78E-15	1.53E-15	4.10E-15	2.23E-15	3.43E-15
123789-H6CDF	6.15E-16	1.77E-15	1.22E-15	2.40E-15	6.38E-16	1.71E-15	9.26E-16	1.43E-15
12378-P5CDD	2.00E-15	5.75E-15	3.97E-15	7.82E-15	2.07E-15	5.55E-15	3.01E-15	4.64E-15
12378-P5CDF	6.57E-16	1.89E-15	1.30E-15	2.57E-15	6.81E-16	1.82E-15	9.89E-16	1.52E-15
234678-H6CDF	7.25E-15	2.08E-14	1.44E-14	2.84E-14	7.52E-15	2.01E-14	1.09E-14	1.68E-14
2378-T4CDD	2.11E-15	6.07E-15	4.20E-15	8.26E-15	2.19E-15	5.86E-15	3.18E-15	4.91E-15
2378-T4CDF	4.88E-15	1.40E-14	9.70E-15	1.91E-14	5.07E-15	1.36E-14	7.36E-15	1.13E-14
OCDD	1.95E-15	5.60E-15	3.87E-15	7.61E-15	2.02E-15	5.40E-15	2.93E-15	4.52E-15
OCDF	3.49E-16	1.00E-15	6.94E-16	1.37E-15	3.62E-16	9.70E-16	5.26E-16	8.11E-16

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1234678-H6VDD	8.15E-16	2.02E-15	4.35E-15	7.04E-14	2.12E-15	9.17E-15	2.17E-15	9.19E-15
1234678-H7CDF	1.75E-15	4.35E-15	9.35E-15	1.51E-13	4.55E-15	1.97E-14	4.67E-15	1.98E-14
1234789-H7CDF	7.33E-16	1.82E-15	3.91E-15	6.33E-14	1.90E-15	8.25E-15	1.95E-15	8.27E-15
123478-H6CDD	5.30E-16	1.31E-15	2.83E-15	4.57E-14	1.38E-15	5.96E-15	1.41E-15	5.97E-15
123478-H6CDF	7.68E-15	1.90E-14	4.10E-14	6.63E-13	1.99E-14	8.64E-14	2.05E-14	8.66E-14
123478-P5CDF	1.31E-14	3.26E-14	7.02E-14	1.14E-12	3.41E-14	1.48E-13	3.50E-14	1.48E-13
123678-H6CDD	7.90E-16	1.96E-15	4.22E-15	6.83E-14	2.05E-15	8.90E-15	2.11E-15	8.91E-15
123678-H6CDF	3.21E-15	7.97E-15	1.71E-14	2.77E-13	8.34E-15	3.61E-14	8.55E-15	3.62E-14
123789-H6CDD	1.43E-15	3.55E-15	7.63E-15	1.23E-13	3.71E-15	1.61E-14	3.81E-15	1.61E-14
123789-H6CDF	5.95E-16	1.48E-15	3.17E-15	5.14E-14	1.55E-15	6.69E-15	1.58E-15	6.71E-15
12378-P5CDD	1.94E-15	4.80E-15	1.03E-14	1.67E-13	5.03E-15	2.18E-14	5.16E-15	2.18E-14
12378-P5CDF	6.36E-16	1.58E-15	3.39E-15	5.49E-14	1.65E-15	7.15E-15	1.69E-15	7.17E-15
234678-H6CDF	7.02E-15	1.74E-14	3.75E-14	6.06E-13	1.82E-14	7.90E-14	1.87E-14	7.92E-14
2378-T4CDD	2.05E-15	5.08E-15	1.09E-14	1.77E-13	5.31E-15	2.30E-14	5.45E-15	2.31E-14
2378-T4CDF	4.73E-15	1.17E-14	2.52E-14	4.08E-13	1.23E-14	5.32E-14	1.26E-14	5.33E-14
OCDD	1.88E-15	4.68E-15	1.01E-14	1.63E-13	4.90E-15	2.12E-14	5.02E-15	2.13E-14
OCDF	3.38E-16	8.39E-16	1.80E-15	2.92E-14	8.78E-16	3.81E-15	9.01E-16	3.81E-15

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1234678-H6VDD	2.19E-15	1.10E-14	2.20E-15	1.15E-14	2.21E-15	1.24E-14	2.23E-15	1.14E-14
1234678-H7CDF	4.72E-15	2.36E-14	4.72E-15	2.47E-14	4.76E-15	2.68E-14	4.79E-15	2.44E-14
1234789-H7CDF	1.97E-15	9.86E-15	1.98E-15	1.03E-14	1.99E-15	1.12E-14	2.00E-15	1.02E-14
123478-H6CDD	1.43E-15	7.12E-15	1.43E-15	7.46E-15	1.44E-15	8.09E-15	1.45E-15	7.38E-15
123478-H6CDF	2.07E-14	1.03E-13	2.07E-14	1.08E-13	2.09E-14	1.17E-13	2.10E-14	1.07E-13
123478-P5CDF	3.54E-14	1.77E-13	3.54E-14	1.85E-13	3.57E-14	2.01E-13	3.59E-14	1.83E-13
123678-H6CDD	2.13E-15	1.06E-14	2.13E-15	1.11E-14	2.15E-15	1.21E-14	2.16E-15	1.10E-14
123678-H6CDF	8.64E-15	4.32E-14	8.66E-15	4.52E-14	8.72E-15	4.90E-14	8.77E-15	4.47E-14
123789-H6CDD	3.85E-15	1.92E-14	3.86E-15	2.01E-14	3.89E-15	2.18E-14	3.91E-15	1.99E-14
123789-H6CDF	1.60E-15	8.00E-15	1.60E-15	8.38E-15	1.62E-15	9.09E-15	1.63E-15	8.29E-15
12378-P5CDD	5.21E-15	2.60E-14	5.22E-15	2.73E-14	5.26E-15	2.96E-14	5.29E-15	2.70E-14
12378-P5CDF	1.71E-15	8.54E-15	1.71E-15	8.95E-15	1.73E-15	9.71E-15	1.74E-15	8.86E-15
234678-H6CDF	1.89E-14	9.44E-14	1.89E-14	9.89E-14	1.91E-14	1.07E-13	1.92E-14	9.78E-14
2378-T4CDD	5.51E-15	2.75E-14	5.51E-15	2.88E-14	5.56E-15	3.12E-14	5.59E-15	2.85E-14
2378-T4CDF	1.27E-14	6.35E-14	1.27E-14	6.66E-14	1.28E-14	7.22E-14	1.29E-14	6.59E-14
OCDD	5.07E-15	2.53E-14	5.08E-15	2.65E-14	5.12E-15	2.88E-14	5.15E-15	2.63E-14
OCDF	9.11E-16	4.55E-15	9.12E-16	4.76E-15	9.19E-16	5.17E-15	9.24E-16	4.71E-15

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1234678-H6VDD	2.47E-15	3.49E-14	3.36E-15	8.08E-15	1.96E-15	8.03E-15	1.96E-15	8.38E-15
1234678-H7CDF	5.31E-15	7.50E-14	7.23E-15	1.74E-14	4.21E-15	1.73E-14	4.21E-15	1.80E-14
1234789-H7CDF	2.22E-15	3.14E-14	3.03E-15	7.27E-15	1.76E-15	7.23E-15	1.76E-15	7.54E-15
123478-H6CDD	1.61E-15	2.27E-14	2.19E-15	5.25E-15	1.27E-15	5.22E-15	1.27E-15	5.45E-15
123478-H6CDF	2.33E-14	3.28E-13	3.17E-14	7.61E-14	1.85E-14	7.56E-14	1.84E-14	7.89E-14
123478-P5CDF	3.99E-14	5.62E-13	5.43E-14	1.30E-13	3.16E-14	1.30E-13	3.16E-14	1.35E-13
123678-H6CDD	2.40E-15	3.38E-14	3.26E-15	7.83E-15	1.90E-15	7.79E-15	1.90E-15	8.13E-15
123678-H6CDF	9.74E-15	1.37E-13	1.33E-14	3.18E-14	7.72E-15	3.16E-14	7.71E-15	3.30E-14
123789-H6CDD	4.34E-15	6.12E-14	5.91E-15	1.42E-14	3.44E-15	1.41E-14	3.43E-15	1.47E-14
123789-H6CDF	1.80E-15	2.55E-14	2.46E-15	5.90E-15	1.43E-15	5.86E-15	1.43E-15	6.12E-15
12378-P5CDD	5.87E-15	8.28E-14	7.99E-15	1.92E-14	4.65E-15	1.91E-14	4.65E-15	1.99E-14
12378-P5CDF	1.93E-15	2.72E-14	2.62E-15	6.30E-15	1.53E-15	6.26E-15	1.53E-15	6.53E-15
234678-H6CDF	2.13E-14	3.00E-13	2.90E-14	6.96E-14	1.69E-14	6.92E-14	1.69E-14	7.22E-14
2378-T4CDD	6.20E-15	8.75E-14	8.45E-15	2.03E-14	4.92E-15	2.02E-14	4.91E-15	2.10E-14
2378-T4CDF	1.43E-14	2.02E-13	1.95E-14	4.68E-14	1.14E-14	4.66E-14	1.14E-14	4.86E-14
OCDD	5.72E-15	8.06E-14	7.78E-15	1.87E-14	4.53E-15	1.86E-14	4.53E-15	1.94E-14
OCDF	1.03E-15	1.45E-14	1.40E-15	3.35E-15	8.13E-16	3.33E-15	8.12E-16	3.48E-15

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
1234678-H6VDD	1.92E-15	7.00E-15	1.92E-15	7.53E-15	2.01E-15	6.09E-15	2.01E-15	6.61E-15
1234678-H7CDF	4.12E-15	1.50E-14	4.12E-15	1.62E-14	4.32E-15	1.31E-14	4.31E-15	1.42E-14
1234789-H7CDF	1.73E-15	6.30E-15	1.72E-15	6.77E-15	1.81E-15	5.49E-15	1.80E-15	5.95E-15
123478-H6CDD	1.25E-15	4.55E-15	1.25E-15	4.89E-15	1.31E-15	3.96E-15	1.30E-15	4.29E-15
123478-H6CDF	1.81E-14	6.59E-14	1.80E-14	7.09E-14	1.89E-14	5.74E-14	1.89E-14	6.22E-14
123478-P5CDF	3.09E-14	1.13E-13	3.09E-14	1.21E-13	3.24E-14	9.83E-14	3.23E-14	1.07E-13
123678-H6CDD	1.86E-15	6.79E-15	1.86E-15	7.30E-15	1.95E-15	5.91E-15	1.94E-15	6.41E-15
123678-H6CDF	7.56E-15	2.76E-14	7.55E-15	2.97E-14	7.92E-15	2.40E-14	7.90E-15	2.60E-14
123789-H6CDD	3.37E-15	1.23E-14	3.36E-15	1.32E-14	3.53E-15	1.07E-14	3.52E-15	1.16E-14
123789-H6CDF	1.40E-15	5.11E-15	1.40E-15	5.49E-15	1.47E-15	4.45E-15	1.46E-15	4.82E-15
12378-P5CDD	4.56E-15	1.66E-14	4.55E-15	1.79E-14	4.78E-15	1.45E-14	4.76E-15	1.57E-14
12378-P5CDF	1.50E-15	5.46E-15	1.49E-15	5.87E-15	1.57E-15	4.75E-15	1.56E-15	5.15E-15
234678-H6CDF	1.65E-14	6.03E-14	1.65E-14	6.48E-14	1.73E-14	5.25E-14	1.73E-14	5.69E-14
2378-T4CDD	4.81E-15	1.76E-14	4.81E-15	1.89E-14	5.05E-15	1.53E-14	5.03E-15	1.66E-14
2378-T4CDF	1.11E-14	4.06E-14	1.11E-14	4.37E-14	1.17E-14	3.53E-14	1.16E-14	3.83E-14
OCDD	4.44E-15	1.62E-14	4.43E-15	1.74E-14	4.65E-15	1.41E-14	4.64E-15	1.53E-14
OCDF	7.96E-16	2.90E-15	7.95E-16	3.12E-15	8.35E-16	2.53E-15	8.32E-16	2.74E-15

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)						
1234678-H6VDD	3.04E-15	8.91E-15	2.18E-15	7.28E-15	2.21E-15	7.76E-15
1234678-H7CDF	6.54E-15	1.92E-14	4.68E-15	1.57E-14	4.74E-15	1.67E-14
1234789-H7CDF	2.74E-15	8.02E-15	1.96E-15	6.56E-15	1.99E-15	6.99E-15
123478-H6CDD	1.98E-15	5.79E-15	1.42E-15	4.73E-15	1.43E-15	5.05E-15
123478-H6CDF	2.86E-14	8.39E-14	2.05E-14	6.86E-14	2.08E-14	7.31E-14
123478-P5CDF	4.90E-14	1.44E-13	3.51E-14	1.18E-13	3.56E-14	1.25E-13
123678-H6CDD	2.95E-15	8.64E-15	2.11E-15	7.07E-15	2.14E-15	7.53E-15
123678-H6CDF	1.20E-14	3.51E-14	8.58E-15	2.87E-14	8.69E-15	3.06E-14
123789-H6CDD	5.33E-15	1.56E-14	3.82E-15	1.28E-14	3.87E-15	1.36E-14
123789-H6CDF	2.22E-15	6.50E-15	1.59E-15	5.32E-15	1.61E-15	5.67E-15
12378-P5CDD	7.22E-15	2.12E-14	5.17E-15	1.73E-14	5.24E-15	1.84E-14
12378-P5CDF	2.37E-15	6.95E-15	1.70E-15	5.68E-15	1.72E-15	6.05E-15
234678-H6CDF	2.62E-14	7.67E-14	1.88E-14	6.28E-14	1.90E-14	6.69E-14
2378-T4CDD	7.63E-15	2.24E-14	5.47E-15	1.83E-14	5.54E-15	1.95E-14
2378-T4CDF	1.76E-14	5.17E-14	1.26E-14	4.22E-14	1.28E-14	4.50E-14
OCDD	7.03E-15	2.06E-14	5.04E-15	1.68E-14	5.10E-15	1.80E-14
OCDF	1.26E-15	3.70E-15	9.04E-16	3.02E-15	9.15E-16	3.22E-15

Table 10.III.2-12: Predicted Annual Average Dioxin/Furan Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Average (µg/m³)				
1234678-H6VDD	2.17E-15	1.38E-14	1.04E-14	6.13E-13
1234678-H7CDF	4.68E-15	2.96E-14	2.23E-14	1.32E-12
1234789-H7CDF	1.96E-15	1.24E-14	9.36E-15	5.51E-13
123478-H6CDD	1.41E-15	8.95E-15	6.76E-15	3.98E-13
123478-H6CDF	2.05E-14	1.30E-13	9.79E-14	5.77E-12
123478-P5CDF	3.51E-14	2.22E-13	1.68E-13	9.88E-12
123678-H6CDD	2.11E-15	1.34E-14	1.01E-14	5.94E-13
123678-H6CDF	8.57E-15	5.42E-14	4.10E-14	2.41E-12
123789-H6CDD	3.82E-15	2.42E-14	1.82E-14	1.08E-12
123789-H6CDF	1.59E-15	1.00E-14	7.59E-15	4.47E-13
12378-P5CDD	5.16E-15	3.27E-14	2.47E-14	1.46E-12
12378-P5CDF	1.70E-15	1.07E-14	8.11E-15	4.78E-13
234678-H6CDF	1.87E-14	1.19E-13	8.96E-14	5.28E-12
2378-T4CDD	5.46E-15	3.46E-14	2.61E-14	1.54E-12
2378-T4CDF	1.26E-14	7.98E-14	6.03E-14	3.55E-12
OCDD	5.03E-15	3.18E-14	2.40E-14	1.42E-12
OCDF	9.03E-16	5.71E-15	4.31E-15	2.54E-13

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	1.04E-04	0.00E+00	1.61E-04	0.00E+00	1.10E-04	0.00E+00	9.02E-05
Acenapthene	3.64E-05	3.84E-05	1.87E-05	3.05E-05	1.60E-06	1.29E-05	7.07E-07	1.19E-05
Acenapthylene	7.17E-05	7.62E-05	3.69E-05	6.51E-05	3.16E-06	2.90E-05	1.39E-06	2.60E-05
Anthracene	9.56E-06	1.03E-05	4.92E-06	1.08E-05	4.21E-07	5.37E-06	1.86E-07	4.53E-06
Benzo(a)anthracene	4.83E-06	5.11E-06	2.49E-06	4.12E-06	2.13E-07	1.76E-06	9.40E-08	1.61E-06
Benzo(a)pyrene	9.98E-07	1.14E-06	5.14E-07	1.74E-06	4.40E-08	9.92E-07	1.95E-08	7.80E-07
Benzo(b+k)fluoranthene	9.47E-06	1.03E-05	4.88E-06	1.14E-05	4.17E-07	5.85E-06	1.84E-07	4.86E-06
Benzo(g,h,i)perylene	2.16E-06	2.40E-06	1.11E-06	3.14E-06	9.51E-08	1.71E-06	4.21E-08	1.38E-06
Chrysene	1.19E-05	1.25E-05	6.12E-06	9.50E-06	5.24E-07	3.90E-06	2.31E-07	3.65E-06
Dibenzo(a,h)anthracene	1.34E-06	1.47E-06	6.92E-07	1.70E-06	5.92E-08	8.82E-07	2.62E-08	7.27E-07
Fluoranthene	3.13E-05	3.36E-05	1.61E-05	3.19E-05	1.38E-06	1.52E-05	6.09E-07	1.31E-05
Fluorene	9.95E-05	1.06E-04	5.12E-05	9.16E-05	4.38E-06	4.12E-05	1.93E-06	3.66E-05
Indeno(1,2,3-c,d)pyrene	1.61E-06	1.73E-06	8.28E-07	1.65E-06	7.08E-08	7.84E-07	3.14E-08	6.77E-07
Naphthalene	1.01E-03	1.08E-03	5.20E-04	9.97E-04	4.45E-05	4.65E-04	1.97E-05	4.06E-04
Phenanthrene	3.17E-04	3.35E-04	1.63E-04	2.71E-04	1.40E-05	1.17E-04	6.16E-06	1.07E-04
Pyrene	2.88E-05	3.13E-05	1.48E-05	3.35E-05	1.27E-06	1.69E-05	5.60E-07	1.41E-05

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	8.84E-05	0.00E+00	1.24E-02	0.00E+00	1.40E-03	0.00E+00	1.44E-03
Acenapthene	7.82E-07	1.13E-05	1.14E-06	5.84E-03	8.43E-07	2.11E-04	7.89E-07	2.02E-04
Acenapthylene	1.54E-06	2.52E-05	2.24E-06	1.16E-02	1.66E-06	4.62E-04	1.56E-06	4.01E-04
Anthracene	2.05E-07	4.57E-06	2.99E-07	1.56E-03	2.22E-07	8.07E-05	2.07E-07	6.03E-05
Benzo(a)anthracene	1.04E-07	1.54E-06	1.51E-07	7.77E-04	1.12E-07	2.87E-05	1.05E-07	2.69E-05
Benzo(a)pyrene	2.15E-08	8.25E-07	3.13E-08	1.69E-04	2.31E-08	1.39E-05	2.17E-08	9.29E-06
Benzo(b+k)fluoranthene	2.04E-07	4.95E-06	2.96E-07	1.55E-03	2.20E-07	8.67E-05	2.05E-07	6.31E-05
Benzo(g,h,i)perylene	4.64E-08	1.43E-06	6.76E-08	3.59E-04	5.01E-08	2.46E-05	4.68E-08	1.68E-05
Chrysene	2.56E-07	3.44E-06	3.72E-07	1.91E-03	2.76E-07	6.49E-05	2.58E-07	6.58E-05
Dibenzo(a,h)anthracene	2.89E-08	7.45E-07	4.21E-08	2.21E-04	3.12E-08	1.30E-05	2.92E-08	9.28E-06
Fluoranthene	6.73E-07	1.30E-05	9.80E-07	5.08E-03	7.26E-07	2.33E-04	6.79E-07	1.82E-04
Fluorene	2.14E-06	3.57E-05	3.11E-06	1.61E-02	2.31E-06	6.52E-04	2.16E-06	5.56E-04
Indeno(1,2,3-c,d)pyrene	3.46E-08	6.73E-07	5.03E-08	2.61E-04	3.73E-08	1.21E-05	3.49E-08	9.38E-06
Naphthalene	2.17E-05	4.01E-04	3.16E-05	1.64E-01	2.34E-05	7.23E-03	2.19E-05	5.71E-03
Phenanthrene	6.82E-06	1.02E-04	9.92E-06	5.10E-02	7.35E-06	1.90E-03	6.87E-06	1.76E-03
Pyrene	6.20E-07	1.43E-05	9.02E-07	4.71E-03	6.68E-07	2.52E-04	6.25E-07	1.86E-04

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	1.78E-03	0.00E+00	2.09E-03	0.00E+00	2.23E-03	0.00E+00	1.69E-03
Acenapthene	7.86E-07	2.13E-04	7.84E-07	1.96E-04	7.84E-07	2.47E-04	8.47E-07	1.93E-04
Acenapthylene	1.55E-06	4.21E-04	1.55E-06	3.92E-04	1.55E-06	5.13E-04	1.67E-06	4.34E-04
Anthracene	2.07E-07	5.93E-05	2.06E-07	5.57E-05	2.06E-07	7.91E-05	2.23E-07	8.10E-05
Benzo(a)anthracene	1.05E-07	2.83E-05	1.04E-07	2.61E-05	1.04E-07	3.32E-05	1.13E-07	2.63E-05
Benzo(a)pyrene	2.16E-08	1.13E-05	2.15E-08	1.33E-05	2.15E-08	1.55E-05	2.33E-08	1.51E-05
Benzo(b+k)fluoranthene	2.05E-07	6.01E-05	2.04E-07	5.79E-05	2.04E-07	8.21E-05	2.21E-07	8.84E-05
Benzo(g,h,i)perylene	4.67E-08	1.74E-05	4.66E-08	2.04E-05	4.66E-08	2.47E-05	5.03E-08	2.60E-05
Chrysene	2.57E-07	6.95E-05	2.56E-07	6.38E-05	2.56E-07	7.84E-05	2.77E-07	5.88E-05
Dibenzo(a,h)anthracene	2.91E-08	8.65E-06	2.90E-08	9.21E-06	2.90E-08	1.20E-05	3.13E-08	1.33E-05
Fluoranthene	6.77E-07	1.89E-04	6.75E-07	1.75E-04	6.75E-07	2.42E-04	7.29E-07	2.28E-04
Fluorene	2.15E-06	5.83E-04	2.14E-06	5.45E-04	2.14E-06	7.17E-04	2.32E-06	6.16E-04
Indeno(1,2,3-c,d)pyrene	3.48E-08	9.70E-06	3.47E-08	9.01E-06	3.47E-08	1.25E-05	3.75E-08	1.18E-05
Naphthalene	2.18E-05	6.02E-03	2.18E-05	5.62E-03	2.18E-05	7.62E-03	2.35E-05	6.99E-03
Phenanthrene	6.86E-06	1.86E-03	6.83E-06	1.71E-03	6.83E-06	2.18E-03	7.38E-06	1.74E-03
Pyrene	6.23E-07	1.81E-04	6.21E-07	1.70E-04	6.21E-07	2.43E-04	6.71E-07	2.55E-04

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	1.41E-03	0.00E+00	1.17E-03	0.00E+00	1.03E-03	0.00E+00	1.26E-03
Acenapthene	9.59E-07	2.50E-04	1.36E-06	1.86E-04	8.87E-07	1.65E-04	9.09E-07	1.64E-04
Acenapthylene	1.89E-06	5.12E-04	2.68E-06	4.05E-04	1.75E-06	3.58E-04	1.79E-06	3.58E-04
Anthracene	2.52E-07	8.23E-05	3.57E-07	7.01E-05	2.33E-07	6.12E-05	2.39E-07	6.22E-05
Benzo(a)anthracene	1.27E-07	3.34E-05	1.81E-07	2.52E-05	1.18E-07	2.24E-05	1.21E-07	2.23E-05
Benzo(a)pyrene	2.63E-08	1.38E-05	3.73E-08	1.19E-05	2.43E-08	1.03E-05	2.50E-08	1.08E-05
Benzo(b+k)fluoranthene	2.50E-07	8.79E-05	3.54E-07	7.50E-05	2.31E-07	6.53E-05	2.37E-07	6.67E-05
Benzo(g,h,i)perylene	5.69E-08	2.46E-05	8.08E-08	2.11E-05	5.27E-08	1.83E-05	5.40E-08	1.88E-05
Chrysene	3.13E-07	8.11E-05	4.45E-07	5.74E-05	2.90E-07	5.11E-05	2.97E-07	5.06E-05
Dibenzo(a,h)anthracene	3.54E-08	1.31E-05	5.03E-08	1.12E-05	3.28E-08	9.74E-06	3.36E-08	9.96E-06
Fluoranthene	8.26E-07	2.40E-04	1.17E-06	2.03E-04	7.63E-07	1.78E-04	7.83E-07	1.80E-04
Fluorene	2.62E-06	7.15E-04	3.72E-06	5.71E-04	2.42E-06	5.04E-04	2.49E-06	5.05E-04
Indeno(1,2,3-c,d)pyrene	4.24E-08	1.24E-05	6.01E-08	1.05E-05	3.92E-08	9.22E-06	4.02E-08	9.31E-06
Naphthalene	2.66E-05	7.54E-03	3.78E-05	6.31E-03	2.46E-05	5.54E-03	2.52E-05	5.59E-03
Phenanthrene	8.36E-06	2.20E-03	1.19E-05	1.67E-03	7.73E-06	1.48E-03	7.92E-06	1.47E-03
Pyrene	7.60E-07	2.56E-04	1.08E-06	2.18E-04	7.03E-07	1.90E-04	7.21E-07	1.94E-04

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	1.06E-03	0.00E+00	1.19E-03	0.00E+00	1.13E-03	0.00E+00	1.23E-03
Acenapthene	9.57E-07	1.40E-04	9.64E-07	1.35E-04	1.07E-06	1.18E-04	9.21E-07	1.48E-04
Acenapthylene	1.89E-06	3.04E-04	1.90E-06	3.05E-04	2.10E-06	2.60E-04	1.82E-06	3.22E-04
Anthracene	2.51E-07	5.29E-05	2.53E-07	5.69E-05	2.80E-07	4.61E-05	2.42E-07	5.89E-05
Benzo(a)anthracene	1.27E-07	1.89E-05	1.28E-07	1.85E-05	1.42E-07	1.60E-05	1.22E-07	2.00E-05
Benzo(a)pyrene	2.63E-08	9.36E-06	2.65E-08	1.06E-05	2.93E-08	8.75E-06	2.53E-08	1.10E-05
Benzo(b+k)fluoranthene	2.49E-07	5.67E-05	2.51E-07	6.20E-05	2.78E-07	4.97E-05	2.40E-07	6.42E-05
Benzo(g,h,i)perylene	5.68E-08	1.61E-05	5.73E-08	1.82E-05	6.33E-08	1.44E-05	5.47E-08	1.89E-05
Chrysene	3.13E-07	4.29E-05	3.15E-07	4.06E-05	3.49E-07	3.60E-05	3.01E-07	4.54E-05
Dibenzo(a,h)anthracene	3.54E-08	8.48E-06	3.56E-08	9.36E-06	3.94E-08	7.45E-06	3.40E-08	9.69E-06
Fluoranthene	8.24E-07	1.53E-04	8.30E-07	1.60E-04	9.18E-07	1.32E-04	7.93E-07	1.66E-04
Fluorene	2.62E-06	4.29E-04	2.64E-06	4.32E-04	2.92E-06	3.67E-04	2.52E-06	4.55E-04
Indeno(1,2,3-c,d)pyrene	4.23E-08	7.92E-06	4.26E-08	8.28E-06	4.72E-08	6.84E-06	4.07E-08	8.57E-06
Naphthalene	2.66E-05	4.75E-03	2.68E-05	4.90E-03	2.96E-05	4.09E-03	2.56E-05	5.08E-03
Phenanthrene	8.34E-06	1.25E-03	8.40E-06	1.22E-03	9.30E-06	1.06E-03	8.03E-06	1.32E-03
Pyrene	7.58E-07	1.65E-04	7.64E-07	1.79E-04	8.45E-07	1.44E-04	7.30E-07	1.85E-04

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)						
2-Methylnaphthalene	0.00E+00	1.25E-03	0.00E+00	1.14E-03	0.00E+00	1.05E-03
Acenapthene	1.20E-06	1.69E-04	9.31E-07	1.07E-04	9.20E-07	1.34E-04
Acenapthylene	2.36E-06	3.62E-04	1.84E-06	2.29E-04	1.81E-06	2.93E-04
Anthracene	3.15E-07	6.05E-05	2.45E-07	4.07E-05	2.42E-07	5.32E-05
Benzo(a)anthracene	1.59E-07	2.28E-05	1.24E-07	1.45E-05	1.22E-07	1.81E-05
Benzo(a)pyrene	3.29E-08	1.10E-05	2.56E-08	8.53E-06	2.53E-08	9.64E-06
Benzo(b+k)fluoranthene	3.12E-07	6.51E-05	2.43E-07	4.49E-05	2.40E-07	5.77E-05
Benzo(g,h,i)perylene	7.12E-08	1.90E-05	5.53E-08	1.41E-05	5.47E-08	1.67E-05
Chrysene	3.92E-07	5.25E-05	3.04E-07	3.36E-05	3.01E-07	4.21E-05
Dibenzo(a,h)anthracene	4.43E-08	9.80E-06	3.44E-08	6.90E-06	3.40E-08	8.68E-06
Fluoranthene	1.03E-06	1.78E-04	8.02E-07	1.17E-04	7.92E-07	1.51E-04
Fluorene	3.28E-06	5.09E-04	2.55E-06	3.24E-04	2.52E-06	4.14E-04
Indeno(1,2,3-c,d)pyrene	5.30E-08	9.20E-06	4.12E-08	6.03E-06	4.07E-08	7.82E-06
Naphthalene	3.33E-05	5.56E-03	2.59E-05	3.61E-03	2.56E-05	4.66E-03
Phenanthrene	1.04E-05	1.50E-03	8.12E-06	9.53E-04	8.02E-06	1.19E-03
Pyrene	9.50E-07	1.88E-04	7.38E-07	1.28E-04	7.29E-07	1.67E-04

Table 10.III.2-13: Predicted Maximum 1-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)				
2-Methylnaphthalene	0.00E+00	1.85E-03	0.00E+00	4.03E-02
Acenapthene	9.50E-07	2.40E-04	3.15E-06	2.11E-03
Acenapthylene	1.87E-06	5.02E-04	6.21E-06	4.71E-03
Anthracene	2.50E-07	7.91E-05	8.28E-07	1.01E-03
Benzo(a)anthracene	1.26E-07	3.23E-05	4.19E-07	2.86E-04
Benzo(a)pyrene	2.61E-08	1.32E-05	8.65E-08	2.57E-04
Benzo(b+k)fluoranthene	2.47E-07	8.27E-05	8.21E-07	1.15E-03
Benzo(g,h,i)perylene	5.64E-08	2.26E-05	1.87E-07	3.96E-04
Chrysene	3.10E-07	7.57E-05	1.03E-06	6.47E-04
Dibenzo(a,h)anthracene	3.51E-08	1.22E-05	1.16E-07	1.81E-04
Fluoranthene	8.18E-07	2.39E-04	2.71E-06	2.64E-03
Fluorene	2.60E-06	7.03E-04	8.62E-06	6.70E-03
Indeno(1,2,3-c,d)pyrene	4.20E-08	1.23E-05	1.39E-07	1.37E-04
Naphthalene	2.64E-05	7.53E-03	8.75E-05	7.91E-02
Phenanthrene	8.28E-06	2.12E-03	2.75E-05	1.89E-02
Pyrene	7.53E-07	2.44E-04	2.50E-06	3.23E-03

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PAH = polycyclic aromatic hydrocarbon; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.94E-05	0.00E+00	5.94E-05	0.00E+00	2.77E-05	0.00E+00	3.80E-05
Acenapthene	3.74E-06	5.46E-06	1.10E-06	9.69E-06	4.70E-07	2.75E-06	3.74E-07	4.50E-06
Acenapthylene	7.38E-06	1.20E-05	2.18E-06	2.09E-05	9.27E-07	6.22E-06	7.36E-07	1.01E-05
Anthracene	9.83E-07	2.14E-06	2.90E-07	3.55E-06	1.24E-07	1.17E-06	9.82E-08	1.87E-06
Benzo(a)anthracene	4.97E-07	7.42E-07	1.47E-07	1.31E-06	6.25E-08	3.76E-07	4.97E-08	6.14E-07
Benzo(a)pyrene	1.03E-07	3.79E-07	3.03E-08	5.91E-07	1.29E-08	2.24E-07	1.03E-08	3.45E-07
Benzo(b+k)fluoranthene	9.75E-07	2.31E-06	2.87E-07	3.79E-06	1.22E-07	1.27E-06	9.73E-08	2.03E-06
Benzo(g,h,i)perylene	2.22E-07	6.63E-07	6.55E-08	1.06E-06	2.79E-08	3.75E-07	2.22E-08	5.95E-07
Chrysene	1.22E-06	1.67E-06	3.61E-07	3.00E-06	1.54E-07	8.26E-07	1.22E-07	1.36E-06
Dibenzo(a,h)anthracene	1.38E-07	3.47E-07	4.08E-08	5.64E-07	1.74E-08	1.92E-07	1.38E-08	3.07E-07
Fluoranthene	3.22E-06	6.15E-06	9.50E-07	1.04E-05	4.05E-07	3.27E-06	3.22E-07	5.28E-06
Fluorene	1.02E-05	1.70E-05	3.02E-06	2.95E-05	1.29E-06	8.83E-06	1.02E-06	1.43E-05
Indeno(1,2,3-c,d)pyrene	1.66E-07	3.18E-07	4.88E-08	5.37E-07	2.08E-08	1.69E-07	1.66E-08	2.73E-07
Naphthalene	1.04E-04	1.90E-04	3.07E-05	3.23E-04	1.31E-05	1.00E-04	1.04E-05	1.62E-04
Phenanthrene	3.26E-05	4.91E-05	9.62E-06	8.66E-05	4.10E-06	2.49E-05	3.26E-06	4.07E-05
Pyrene	2.97E-06	6.70E-06	8.75E-07	1.11E-05	3.73E-07	3.66E-06	2.96E-07	5.87E-06

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.04E-05	0.00E+00	5.45E-03	0.00E+00	4.91E-04	0.00E+00	3.19E-04
Acenapthene	2.56E-07	4.31E-06	5.31E-07	1.99E-03	4.09E-07	3.53E-05	3.94E-07	2.89E-05
Acenapthylene	5.05E-07	9.49E-06	1.05E-06	3.93E-03	8.06E-07	8.48E-05	7.78E-07	6.36E-05
Anthracene	6.72E-08	1.68E-06	1.39E-07	5.27E-04	1.07E-07	1.77E-05	1.04E-07	1.13E-05
Benzo(a)anthracene	3.40E-08	5.86E-07	7.05E-08	2.64E-04	5.43E-08	4.89E-06	5.24E-08	3.93E-06
Benzo(a)pyrene	7.03E-09	2.95E-07	1.46E-08	5.61E-05	1.12E-08	3.69E-06	1.08E-08	2.12E-06
Benzo(b+k)fluoranthene	6.66E-08	1.81E-06	1.38E-07	5.23E-04	1.06E-07	1.98E-05	1.03E-07	1.21E-05
Benzo(g,h,i)perylene	1.52E-08	5.18E-07	3.15E-08	1.20E-04	2.43E-08	6.12E-06	2.34E-08	3.46E-06
Chrysene	8.36E-08	1.32E-06	1.74E-07	6.49E-04	1.34E-07	1.04E-05	1.29E-07	8.85E-06
Dibenzo(a,h)anthracene	9.46E-09	2.71E-07	1.96E-08	7.44E-05	1.51E-08	3.03E-06	1.46E-08	1.82E-06
Fluoranthene	2.20E-07	4.83E-06	4.57E-07	1.72E-03	3.52E-07	4.76E-05	3.40E-07	3.24E-05
Fluorene	7.00E-07	1.34E-05	1.45E-06	5.45E-03	1.12E-06	1.21E-04	1.08E-06	8.99E-05
Indeno(1,2,3-c,d)pyrene	1.13E-08	2.50E-07	2.35E-08	8.84E-05	1.81E-08	2.47E-06	1.74E-08	1.67E-06
Naphthalene	7.11E-06	1.49E-04	1.47E-05	5.54E-02	1.14E-05	1.44E-03	1.10E-05	1.00E-03
Phenanthrene	2.23E-06	3.87E-05	4.63E-06	1.73E-02	3.56E-06	3.25E-04	3.44E-06	2.60E-04
Pyrene	2.03E-07	5.25E-06	4.21E-07	1.59E-03	3.24E-07	5.62E-05	3.13E-07	3.52E-05

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.94E-04	0.00E+00	3.74E-04	0.00E+00	3.31E-04	0.00E+00	3.02E-04
Acenapthene	3.88E-07	4.57E-05	3.86E-07	4.15E-05	3.75E-07	3.70E-05	3.66E-07	2.87E-05
Acenapthylene	7.65E-07	9.35E-05	7.61E-07	9.01E-05	7.39E-07	7.55E-05	7.21E-07	6.49E-05
Anthracene	1.02E-07	1.39E-05	1.01E-07	1.55E-05	9.85E-08	1.25E-05	9.61E-08	1.22E-05
Benzo(a)anthracene	5.16E-08	6.12E-06	5.13E-08	5.62E-06	4.98E-08	4.95E-06	4.86E-08	3.92E-06
Benzo(a)pyrene	1.07E-08	2.63E-06	1.06E-08	2.68E-06	1.03E-08	2.48E-06	1.00E-08	2.30E-06
Benzo(b+k)fluoranthene	1.01E-07	1.43E-05	1.00E-07	1.66E-05	9.77E-08	1.38E-05	9.53E-08	1.33E-05
Benzo(g,h,i)perylene	2.31E-08	4.24E-06	2.29E-08	4.67E-06	2.23E-08	4.18E-06	2.17E-08	3.93E-06
Chrysene	1.27E-07	1.46E-05	1.26E-07	1.28E-05	1.23E-07	1.19E-05	1.20E-07	9.17E-06
Dibenzo(a,h)anthracene	1.43E-08	2.12E-06	1.43E-08	2.48E-06	1.39E-08	2.10E-06	1.35E-08	2.01E-06
Fluoranthene	3.34E-07	4.33E-05	3.32E-07	4.51E-05	3.23E-07	3.67E-05	3.15E-07	3.42E-05
Fluorene	1.06E-06	1.31E-04	1.05E-06	1.27E-04	1.03E-06	1.05E-04	1.00E-06	9.21E-05
Indeno(1,2,3-c,d)pyrene	1.72E-08	2.23E-06	1.71E-08	2.33E-06	1.66E-08	1.89E-06	1.62E-08	1.77E-06
Naphthalene	1.08E-05	1.37E-03	1.07E-05	1.40E-03	1.04E-05	1.14E-03	1.02E-05	1.05E-03
Phenanthrene	3.38E-06	4.02E-04	3.36E-06	3.71E-04	3.27E-06	3.25E-04	3.19E-06	2.60E-04
Pyrene	3.08E-07	4.27E-05	3.06E-07	4.84E-05	2.97E-07	3.94E-05	2.90E-07	3.83E-05

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.84E-04	0.00E+00	4.61E-04	0.00E+00	4.58E-04	0.00E+00	5.35E-04
Acenapthene	4.15E-07	9.60E-05	5.19E-07	2.86E-05	3.92E-07	3.80E-05	3.95E-07	3.87E-05
Acenapthylene	8.19E-07	1.97E-04	1.02E-06	6.56E-05	7.74E-07	8.98E-05	7.78E-07	9.04E-05
Anthracene	1.09E-07	3.09E-05	1.36E-07	1.34E-05	1.03E-07	1.82E-05	1.04E-07	1.94E-05
Benzo(a)anthracene	5.52E-08	1.29E-05	6.90E-08	3.92E-06	5.21E-08	5.24E-06	5.24E-08	5.26E-06
Benzo(a)pyrene	1.14E-08	4.69E-06	1.43E-08	3.21E-06	1.08E-08	3.71E-06	1.08E-08	4.13E-06
Benzo(b+k)fluoranthene	1.08E-07	3.24E-05	1.35E-07	1.55E-05	1.02E-07	2.03E-05	1.03E-07	2.18E-05
Benzo(g,h,i)perylene	2.47E-08	8.67E-06	3.08E-08	5.12E-06	2.33E-08	6.20E-06	2.34E-08	6.80E-06
Chrysene	1.36E-07	3.07E-05	1.70E-07	8.48E-06	1.28E-07	1.11E-05	1.29E-07	1.18E-05
Dibenzo(a,h)anthracene	1.54E-08	4.77E-06	1.92E-08	2.42E-06	1.45E-08	3.09E-06	1.46E-08	3.34E-06
Fluoranthene	3.58E-07	9.30E-05	4.47E-07	3.51E-05	3.38E-07	4.96E-05	3.40E-07	5.16E-05
Fluorene	1.14E-06	2.75E-04	1.42E-06	9.32E-05	1.07E-06	1.28E-04	1.08E-06	1.30E-04
Indeno(1,2,3-c,d)pyrene	1.84E-08	4.79E-06	2.30E-08	1.82E-06	1.73E-08	2.57E-06	1.75E-08	2.68E-06
Naphthalene	1.15E-05	2.92E-03	1.44E-05	1.07E-03	1.09E-05	1.50E-03	1.10E-05	1.55E-03
Phenanthrene	3.62E-06	8.46E-04	4.53E-06	2.60E-04	3.42E-06	3.48E-04	3.44E-06	3.47E-04
Pyrene	3.29E-07	9.54E-05	4.11E-07	4.32E-05	3.11E-07	5.78E-05	3.13E-07	6.17E-05

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
2-Methylnaphthalene	0.00E+00	4.02E-04	0.00E+00	4.67E-04	0.00E+00	2.82E-04	0.00E+00	3.15E-04
Acenapthene	3.98E-07	4.13E-05	4.05E-07	3.76E-05	4.23E-07	3.05E-05	4.25E-07	2.37E-05
Acenapthylene	7.84E-07	9.42E-05	7.99E-07	8.44E-05	8.35E-07	6.73E-05	8.38E-07	5.70E-05
Anthracene	1.05E-07	1.80E-05	1.06E-07	1.56E-05	1.11E-07	1.20E-05	1.12E-07	1.19E-05
Benzo(a)anthracene	5.29E-08	5.65E-06	5.38E-08	5.13E-06	5.63E-08	4.15E-06	5.65E-08	3.29E-06
Benzo(a)pyrene	1.09E-08	3.43E-06	1.11E-08	3.42E-06	1.16E-08	2.23E-06	1.17E-08	2.48E-06
Benzo(b+k)fluoranthene	1.04E-07	1.97E-05	1.06E-07	1.73E-05	1.10E-07	1.29E-05	1.11E-07	1.33E-05
Benzo(g,h,i)perylene	2.36E-08	5.85E-06	2.41E-08	5.55E-06	2.51E-08	3.71E-06	2.52E-08	4.12E-06
Chrysene	1.30E-07	1.23E-05	1.32E-07	1.13E-05	1.38E-07	9.31E-06	1.39E-07	6.82E-06
Dibenzo(a,h)anthracene	1.47E-08	2.98E-06	1.50E-08	2.67E-06	1.57E-08	1.94E-06	1.57E-08	2.04E-06
Fluoranthene	3.42E-07	5.01E-05	3.49E-07	4.40E-05	3.65E-07	3.44E-05	3.66E-07	3.20E-05
Fluorene	1.09E-06	1.34E-04	1.11E-06	1.20E-04	1.16E-06	9.52E-05	1.16E-06	8.16E-05
Indeno(1,2,3-c,d)pyrene	1.76E-08	2.59E-06	1.79E-08	2.28E-06	1.87E-08	1.78E-06	1.88E-08	1.66E-06
Naphthalene	1.10E-05	1.53E-03	1.13E-05	1.35E-03	1.18E-05	1.06E-03	1.18E-05	9.65E-04
Phenanthrene	3.47E-06	3.75E-04	3.53E-06	3.40E-04	3.69E-06	2.74E-04	3.70E-06	2.19E-04
Pyrene	3.15E-07	5.66E-05	3.21E-07	4.89E-05	3.36E-07	3.75E-05	3.37E-07	3.78E-05

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)						
2-Methylnaphthalene	0.00E+00	4.55E-04	0.00E+00	2.95E-04	0.00E+00	2.88E-04
Acenapthene	6.12E-07	3.95E-05	4.47E-07	2.43E-05	4.43E-07	2.29E-05
Acenapthylene	1.21E-06	8.91E-05	8.82E-07	5.75E-05	8.74E-07	5.06E-05
Anthracene	1.61E-07	1.66E-05	1.18E-07	1.17E-05	1.17E-07	1.00E-05
Benzo(a)anthracene	8.14E-08	5.40E-06	5.94E-08	3.35E-06	5.89E-08	3.10E-06
Benzo(a)pyrene	1.68E-08	3.10E-06	1.23E-08	2.38E-06	1.22E-08	2.18E-06
Benzo(b+k)fluoranthene	1.59E-07	1.81E-05	1.16E-07	1.30E-05	1.15E-07	1.13E-05
Benzo(g,h,i)perylene	3.64E-08	5.30E-06	2.66E-08	3.99E-06	2.63E-08	3.57E-06
Chrysene	2.00E-07	1.19E-05	1.46E-07	7.06E-06	1.45E-07	7.07E-06
Dibenzo(a,h)anthracene	2.26E-08	2.73E-06	1.65E-08	1.99E-06	1.64E-08	1.74E-06
Fluoranthene	5.27E-07	4.67E-05	3.85E-07	3.18E-05	3.82E-07	2.72E-05
Fluorene	1.67E-06	1.26E-04	1.22E-06	8.21E-05	1.21E-06	7.20E-05
Indeno(1,2,3-c,d)pyrene	2.71E-08	2.41E-06	1.98E-08	1.65E-06	1.96E-08	1.41E-06
Naphthalene	1.70E-05	1.43E-03	1.24E-05	9.62E-04	1.23E-05	8.30E-04
Phenanthrene	5.34E-06	3.58E-04	3.90E-06	2.23E-04	3.86E-06	2.05E-04
Pyrene	4.85E-07	5.21E-05	3.55E-07	3.71E-05	3.51E-07	3.19E-05

Table 10.III.2-14: Predicted Maximum 24-Hour Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)				
2-Methylnaphthalene	0.00E+00	5.10E-04	0.00E+00	1.71E-02
Acenapthene	4.24E-07	4.97E-05	9.00E-07	9.78E-04
Acenapthylene	8.35E-07	1.15E-04	1.77E-06	2.10E-03
Anthracene	1.11E-07	2.23E-05	2.36E-07	4.71E-04
Benzo(a)anthracene	5.63E-08	6.82E-06	1.20E-07	1.32E-04
Benzo(a)pyrene	1.16E-08	4.33E-06	2.47E-08	1.16E-04
Benzo(b+k)fluoranthene	1.10E-07	2.45E-05	2.34E-07	5.47E-04
Benzo(g,h,i)perylene	2.52E-08	7.34E-06	5.34E-08	1.83E-04
Chrysene	1.38E-07	1.48E-05	2.94E-07	3.14E-04
Dibenzo(a,h)anthracene	1.57E-08	3.72E-06	3.33E-08	8.56E-05
Fluoranthene	3.65E-07	6.16E-05	7.75E-07	1.17E-03
Fluorene	1.16E-06	1.63E-04	2.46E-06	2.96E-03
Indeno(1,2,3-c,d)pyrene	1.87E-08	3.19E-06	3.98E-08	6.11E-05
Naphthalene	1.18E-05	1.88E-03	2.50E-05	3.43E-02
Phenanthrene	3.69E-06	4.53E-04	7.84E-06	8.72E-03
Pyrene	3.36E-07	7.02E-05	7.13E-07	1.52E-03

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PAH = polycyclic aromatic hydrocarbon; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations

Compounds	Gameti		Whati		Behchokǫ̀		Wekweeti	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
2-Methylnaphthalene	0.00E+00	1.98E-06	0.00E+00	2.96E-06	0.00E+00	2.46E-06	0.00E+00	8.20E-07
Acenapthene	1.00E-07	3.51E-07	4.76E-08	4.41E-07	2.07E-08	2.99E-07	1.52E-08	1.12E-07
Acenapthylene	1.98E-07	7.57E-07	9.39E-08	9.66E-07	4.09E-08	6.70E-07	2.99E-08	2.48E-07
Anthracene	2.64E-08	1.28E-07	1.25E-08	1.69E-07	5.45E-09	1.23E-07	3.99E-09	4.43E-08
Benzo(a)anthracene	1.34E-08	4.75E-08	6.33E-09	5.99E-08	2.76E-09	4.08E-08	2.02E-09	1.53E-08
Benzo(a)pyrene	2.76E-09	2.12E-08	1.31E-09	2.93E-08	5.70E-10	2.25E-08	4.18E-10	7.86E-09
Benzo(b+k)fluoranthene	2.62E-08	1.36E-07	1.24E-08	1.82E-07	5.40E-09	1.34E-07	3.96E-09	4.78E-08
Benzo(g,h,i)perylene	5.97E-09	3.79E-08	2.83E-09	5.17E-08	1.23E-09	3.89E-08	9.03E-10	1.37E-08
Chrysene	3.29E-08	1.09E-07	1.56E-08	1.35E-07	6.78E-09	9.05E-08	4.96E-09	3.43E-08
Dibenzo(a,h)anthracene	3.72E-09	2.03E-08	1.76E-09	2.72E-08	7.67E-10	2.01E-08	5.62E-10	7.18E-09
Fluoranthene	8.65E-08	3.76E-07	4.10E-08	4.89E-07	1.79E-08	3.48E-07	1.31E-08	1.27E-07
Fluorene	2.75E-07	1.07E-06	1.30E-07	1.36E-06	5.67E-08	9.49E-07	4.15E-08	3.51E-07
Indeno(1,2,3-c,d)pyrene	4.45E-09	1.94E-08	2.11E-09	2.53E-08	9.18E-10	1.80E-08	6.73E-10	6.56E-09
Naphthalene	2.79E-06	1.17E-05	1.32E-06	1.51E-05	5.76E-07	1.07E-05	4.22E-07	3.92E-06
Phenanthrene	8.76E-07	3.14E-06	4.15E-07	3.96E-06	1.81E-07	2.70E-06	1.32E-07	1.01E-06
Pyrene	7.97E-08	3.98E-07	3.78E-08	5.28E-07	1.64E-08	3.86E-07	1.20E-08	1.39E-07

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
2-Methylnaphthalene	0.00E+00	1.66E-06	0.00E+00	5.67E-04	0.00E+00	3.79E-05	0.00E+00	3.07E-05
Acenapthene	1.26E-08	2.18E-07	5.90E-08	8.45E-05	3.70E-08	2.53E-06	3.70E-08	1.91E-06
Acenapthylene	2.48E-08	4.84E-07	1.16E-07	1.85E-04	7.30E-08	6.22E-06	7.29E-08	4.77E-06
Anthracene	3.30E-09	8.72E-08	1.55E-08	3.24E-05	9.73E-09	1.35E-06	9.72E-09	1.06E-06
Benzo(a)anthracene	1.67E-09	2.97E-08	7.85E-09	1.15E-05	4.92E-09	3.52E-07	4.92E-09	2.67E-07
Benzo(a)pyrene	3.45E-10	1.56E-08	1.62E-09	5.62E-06	1.02E-09	2.90E-07	1.02E-09	2.31E-07
Benzo(b+k)fluoranthene	3.27E-09	9.44E-08	1.54E-08	3.49E-05	9.64E-09	1.52E-06	9.64E-09	1.19E-06
Benzo(g,h,i)perylene	7.47E-10	2.72E-08	3.51E-09	9.90E-06	2.20E-09	4.77E-07	2.20E-09	3.78E-07
Chrysene	4.10E-09	6.63E-08	1.93E-08	2.59E-05	1.21E-08	7.14E-07	1.21E-08	5.34E-07
Dibenzo(a,h)anthracene	4.65E-10	1.42E-08	2.19E-09	5.22E-06	1.37E-09	2.33E-07	1.37E-09	1.84E-07
Fluoranthene	1.08E-08	2.49E-07	5.08E-08	9.36E-05	3.19E-08	3.58E-06	3.19E-08	2.78E-06
Fluorene	3.43E-08	6.84E-07	1.61E-07	2.61E-04	1.01E-07	8.93E-06	1.01E-07	6.87E-06
Indeno(1,2,3-c,d)pyrene	5.56E-10	1.29E-08	2.62E-09	4.84E-06	1.64E-09	1.86E-07	1.64E-09	1.44E-07
Naphthalene	3.49E-07	7.67E-06	1.64E-06	2.90E-03	1.03E-06	1.07E-04	1.03E-06	8.30E-05
Phenanthrene	1.09E-07	1.96E-06	5.15E-07	7.58E-04	3.23E-07	2.35E-05	3.23E-07	1.78E-05
Pyrene	9.95E-09	2.73E-07	4.68E-08	1.01E-04	2.93E-08	4.30E-06	2.93E-08	3.37E-06

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.62E-05	0.00E+00	3.62E-05	0.00E+00	3.44E-05	0.00E+00	3.03E-05
Acenapthene	3.70E-08	2.40E-06	3.69E-08	2.44E-06	3.64E-08	2.70E-06	3.59E-08	2.37E-06
Acenapthylene	7.29E-08	5.90E-06	7.27E-08	5.98E-06	7.19E-08	6.43E-06	7.07E-08	5.66E-06
Anthracene	9.72E-09	1.28E-06	9.69E-09	1.29E-06	9.58E-09	1.33E-06	9.43E-09	1.17E-06
Benzo(a)anthracene	4.92E-09	3.34E-07	4.90E-09	3.39E-07	4.85E-09	3.73E-07	4.77E-09	3.28E-07
Benzo(a)pyrene	1.02E-09	2.76E-07	1.01E-09	2.77E-07	1.00E-09	2.74E-07	9.86E-10	2.41E-07
Benzo(b+k)fluoranthene	9.63E-09	1.44E-06	9.61E-09	1.45E-06	9.49E-09	1.48E-06	9.35E-09	1.30E-06
Benzo(g,h,i)perylene	2.20E-09	4.54E-07	2.19E-09	4.56E-07	2.17E-09	4.56E-07	2.13E-09	4.02E-07
Chrysene	1.21E-08	6.75E-07	1.21E-08	6.89E-07	1.19E-08	7.78E-07	1.17E-08	6.85E-07
Dibenzo(a,h)anthracene	1.37E-09	2.22E-07	1.36E-09	2.24E-07	1.35E-09	2.26E-07	1.33E-09	1.99E-07
Fluoranthene	3.18E-08	3.39E-06	3.18E-08	3.43E-06	3.14E-08	3.59E-06	3.09E-08	3.16E-06
Fluorene	1.01E-07	8.47E-06	1.01E-07	8.59E-06	9.96E-08	9.19E-06	9.81E-08	8.10E-06
Indeno(1,2,3-c,d)pyrene	1.64E-09	1.76E-07	1.63E-09	1.78E-07	1.61E-09	1.86E-07	1.59E-09	1.64E-07
Naphthalene	1.03E-06	1.02E-04	1.02E-06	1.03E-04	1.01E-06	1.08E-04	9.97E-07	9.54E-05
Phenanthrene	3.22E-07	2.22E-05	3.21E-07	2.26E-05	3.18E-07	2.48E-05	3.13E-07	2.18E-05
Pyrene	2.93E-08	4.08E-06	2.92E-08	4.12E-06	2.89E-08	4.21E-06	2.84E-08	3.71E-06

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.61E-05	0.00E+00	3.45E-05	0.00E+00	3.17E-05	0.00E+00	3.40E-05
Acenapthene	4.31E-08	6.04E-06	5.01E-08	2.57E-06	3.46E-08	2.28E-06	3.47E-08	2.55E-06
Acenapthylene	8.49E-08	1.31E-05	9.88E-08	6.19E-06	6.83E-08	5.52E-06	6.83E-08	6.14E-06
Anthracene	1.13E-08	2.24E-06	1.32E-08	1.30E-06	9.11E-09	1.17E-06	9.11E-09	1.28E-06
Benzo(a)anthracene	5.72E-09	8.18E-07	6.67E-09	3.56E-07	4.61E-09	3.16E-07	4.61E-09	3.54E-07
Benzo(a)pyrene	1.18E-09	3.76E-07	1.38E-09	2.71E-07	9.52E-10	2.47E-07	9.53E-10	2.68E-07
Benzo(b+k)fluoranthene	1.12E-08	2.39E-06	1.31E-08	1.45E-06	9.03E-09	1.31E-06	9.03E-09	1.44E-06
Benzo(g,h,i)perylene	2.56E-09	6.69E-07	2.98E-09	4.49E-07	2.06E-09	4.08E-07	2.06E-09	4.45E-07
Chrysene	1.41E-08	1.87E-06	1.64E-08	7.38E-07	1.13E-08	6.49E-07	1.13E-08	7.33E-07
Dibenzo(a,h)anthracene	1.59E-09	3.56E-07	1.86E-09	2.22E-07	1.28E-09	2.01E-07	1.28E-09	2.20E-07
Fluoranthene	3.71E-08	6.53E-06	4.32E-08	3.48E-06	2.98E-08	3.13E-06	2.99E-08	3.45E-06
Fluorene	1.18E-07	1.84E-05	1.37E-07	8.86E-06	9.47E-08	7.91E-06	9.48E-08	8.79E-06
Indeno(1,2,3-c,d)pyrene	1.91E-09	3.37E-07	2.22E-09	1.81E-07	1.53E-09	1.62E-07	1.54E-09	1.79E-07
Naphthalene	1.20E-06	2.03E-04	1.39E-06	1.05E-04	9.63E-07	9.40E-05	9.63E-07	1.04E-04
Phenanthrene	3.75E-07	5.40E-05	4.37E-07	2.37E-05	3.02E-07	2.10E-05	3.02E-07	2.35E-05
Pyrene	3.41E-08	6.97E-06	3.97E-08	4.12E-06	2.75E-08	3.72E-06	2.75E-08	4.08E-06

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
2-Methylnaphthalene	0.00E+00	3.07E-05	0.00E+00	3.10E-05	0.00E+00	2.46E-05	0.00E+00	2.77E-05
Acenapthene	3.44E-08	2.37E-06	3.46E-08	2.35E-06	3.61E-08	1.66E-06	3.60E-08	1.71E-06
Acenapthylene	6.78E-08	5.67E-06	6.83E-08	5.65E-06	7.12E-08	4.07E-06	7.10E-08	4.26E-06
Anthracene	9.04E-09	1.18E-06	9.10E-09	1.18E-06	9.50E-09	8.79E-07	9.47E-09	9.47E-07
Benzo(a)anthracene	4.57E-09	3.28E-07	4.60E-09	3.26E-07	4.80E-09	2.31E-07	4.79E-09	2.38E-07
Benzo(a)pyrene	9.46E-10	2.44E-07	9.52E-10	2.45E-07	9.93E-10	1.88E-07	9.90E-10	2.08E-07
Benzo(b+k)fluoranthene	8.96E-09	1.31E-06	9.02E-09	1.32E-06	9.41E-09	9.89E-07	9.39E-09	1.07E-06
Benzo(g,h,i)perylene	2.05E-09	4.05E-07	2.06E-09	4.07E-07	2.15E-09	3.10E-07	2.14E-09	3.40E-07
Chrysene	1.12E-08	6.83E-07	1.13E-08	6.77E-07	1.18E-08	4.69E-07	1.18E-08	4.75E-07
Dibenzo(a,h)anthracene	1.27E-09	2.01E-07	1.28E-09	2.01E-07	1.34E-09	1.52E-07	1.33E-09	1.65E-07
Fluoranthene	2.96E-08	3.17E-06	2.98E-08	3.17E-06	3.11E-08	2.33E-06	3.10E-08	2.49E-06
Fluorene	9.41E-08	8.11E-06	9.47E-08	8.08E-06	9.88E-08	5.84E-06	9.85E-08	6.13E-06
Indeno(1,2,3-c,d)pyrene	1.52E-09	1.64E-07	1.53E-09	1.64E-07	1.60E-09	1.21E-07	1.60E-09	1.29E-07
Naphthalene	9.56E-07	9.56E-05	9.62E-07	9.55E-05	1.00E-06	7.00E-05	1.00E-06	7.43E-05
Phenanthrene	3.00E-07	2.18E-05	3.02E-07	2.17E-05	3.15E-07	1.54E-05	3.14E-07	1.59E-05
Pyrene	2.73E-08	3.73E-06	2.75E-08	3.74E-06	2.86E-08	2.80E-06	2.86E-08	3.02E-06

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)						
2-Methylnaphthalene	0.00E+00	3.94E-05	0.00E+00	2.74E-05	0.00E+00	2.98E-05
Acenapthene	4.93E-08	2.50E-06	3.84E-08	1.81E-06	3.86E-08	2.03E-06
Acenapthylene	9.71E-08	6.20E-06	7.57E-08	4.46E-06	7.61E-08	4.97E-06
Anthracene	1.29E-08	1.37E-06	1.01E-08	9.70E-07	1.01E-08	1.07E-06
Benzo(a)anthracene	6.55E-09	3.48E-07	5.11E-09	2.52E-07	5.13E-09	2.82E-07
Benzo(a)pyrene	1.35E-09	2.98E-07	1.06E-09	2.09E-07	1.06E-09	2.29E-07
Benzo(b+k)fluoranthene	1.28E-08	1.54E-06	1.00E-08	1.09E-06	1.01E-08	1.20E-06
Benzo(g,h,i)perylene	2.93E-09	4.87E-07	2.28E-09	3.44E-07	2.29E-09	3.78E-07
Chrysene	1.61E-08	6.98E-07	1.26E-08	5.09E-07	1.26E-08	5.74E-07
Dibenzo(a,h)anthracene	1.82E-09	2.37E-07	1.42E-09	1.68E-07	1.43E-09	1.85E-07
Fluoranthene	4.24E-08	3.60E-06	3.31E-08	2.57E-06	3.32E-08	2.85E-06
Fluorene	1.35E-07	8.91E-06	1.05E-07	6.40E-06	1.06E-07	7.14E-06
Indeno(1,2,3-c,d)pyrene	2.18E-09	1.87E-07	1.70E-09	1.33E-07	1.71E-09	1.48E-07
Naphthalene	1.37E-06	1.08E-04	1.07E-06	7.69E-05	1.07E-06	8.54E-05
Phenanthrene	4.29E-07	2.32E-05	3.35E-07	1.68E-05	3.36E-07	1.88E-05
Pyrene	3.90E-08	4.36E-06	3.04E-08	3.09E-06	3.06E-08	3.41E-06

Table 10.III.2-15: Predicted Annual Average Polycyclic Aromatic Hydrocarbon Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Average (µg/m³)				
2-Methylnaphthalene	0.00E+00	3.92E-05	0.00E+00	2.06E-03
Acenapthene	3.81E-08	3.73E-06	8.44E-08	1.05E-04
Acenapthylene	7.50E-08	8.64E-06	1.66E-07	2.73E-04
Anthracene	1.00E-08	1.69E-06	2.22E-08	6.47E-05
Benzo(a)anthracene	5.06E-09	5.13E-07	1.12E-08	1.48E-05
Benzo(a)pyrene	1.05E-09	3.31E-07	2.32E-09	1.49E-05
Benzo(b+k)fluoranthene	9.91E-09	1.86E-06	2.20E-08	7.40E-05
Benzo(g,h,i)perylene	2.26E-09	5.60E-07	5.02E-09	2.40E-05
Chrysene	1.24E-08	1.10E-06	2.76E-08	2.87E-05
Dibenzo(a,h)anthracene	1.41E-09	2.83E-07	3.13E-09	1.15E-05
Fluoranthene	3.28E-08	4.66E-06	7.27E-08	1.66E-04
Fluorene	1.04E-07	1.23E-05	2.31E-07	3.96E-04
Indeno(1,2,3-c,d)pyrene	1.69E-09	2.41E-07	3.74E-09	8.63E-06
Naphthalene	1.06E-06	1.42E-04	2.35E-06	4.91E-03
Phenanthrene	3.32E-07	3.40E-05	7.36E-07	9.90E-04
Pyrene	3.02E-08	5.33E-06	6.69E-08	2.07E-04

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PAH = polycyclic aromatic hydrocarbon; µg/m^3 = micrograms per cubic metre.

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
aluminum	3.82E-04	2.46E-02	1.98E-04	1.69E-02	1.27E-05	4.30E-02	2.73E-06	4.97E-03
antimony	2.90E-06	7.67E-06	1.02E-05	1.38E-05	6.09E-06	1.42E-05	1.19E-05	1.35E-05
arsenic	1.97E-06	7.49E-04	6.92E-06	5.56E-04	4.13E-06	1.31E-03	8.05E-06	1.60E-04
barium	1.42E-07	2.63E-04	4.98E-07	1.79E-04	2.97E-07	4.60E-04	5.79E-07	5.29E-05
beryllium	2.59E-10	8.64E-07	9.11E-10	6.00E-07	5.44E-10	1.51E-06	1.06E-09	1.76E-07
bismuth	0.00E+00	2.88E-04	0.00E+00	2.01E-04	0.00E+00	5.03E-04	0.00E+00	5.89E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.86E-04	2.95E-04	1.48E-04	1.48E-04	1.11E-05	6.26E-05	2.14E-05	7.22E-05
calcium	0.00E+00	8.88E-03	0.00E+00	6.34E-03	0.00E+00	1.55E-02	0.00E+00	1.84E-03
chromium	4.77E-05	5.07E-05	2.47E-05	2.62E-05	8.73E-06	5.46E-05	1.70E-05	1.90E-05
chromium VI	2.31E-09	8.23E-09	8.13E-09	2.15E-08	4.85E-09	8.61E-09	9.45E-09	2.10E-08
cobalt	4.77E-05	9.74E-05	2.47E-05	7.19E-05	1.59E-06	1.70E-04	5.74E-07	2.19E-05
copper	4.88E-05	7.80E-05	3.01E-05	5.64E-05	1.80E-05	1.39E-04	3.51E-05	4.63E-05
gallium	4.77E-05	4.86E-05	2.47E-05	2.47E-05	1.59E-06	9.42E-06	3.41E-07	9.54E-06
indium	2.86E-04	2.92E-04	1.48E-04	1.48E-04	9.55E-06	5.65E-05	2.05E-06	5.72E-05
iron	2.39E-04	5.22E-02	1.24E-04	3.64E-02	7.96E-06	9.12E-02	1.71E-06	1.06E-02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	9.78E-05	9.78E-05	3.44E-04	3.44E-04	2.05E-04	2.05E-04	4.00E-04	4.01E-04
lithium	0.00E+00	7.45E-06	0.00E+00	5.09E-06	0.00E+00	1.30E-05	0.00E+00	1.50E-06
magnesium	0.00E+00	1.17E-02	0.00E+00	8.06E-03	0.00E+00	2.05E-02	0.00E+00	2.37E-03
manganese	4.77E-05	2.93E-04	2.47E-05	2.09E-04	1.59E-06	5.12E-04	2.60E-06	6.20E-05

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
mercury	2.56E-06	2.56E-06	9.00E-06	9.00E-06	5.37E-06	5.37E-06	1.05E-05	1.06E-05
molybdenum	7.33E-09	2.45E-06	2.58E-08	1.73E-06	1.54E-08	4.28E-06	3.00E-08	5.08E-07
nickel	4.38E-06	8.31E-06	1.54E-05	1.54E-05	9.19E-06	1.50E-05	1.79E-05	1.81E-05
palladium	4.77E-05	4.86E-05	2.47E-05	2.47E-05	1.59E-06	9.42E-06	3.41E-07	9.54E-06
phosphorus	4.77E-05	1.04E-04	2.47E-05	7.08E-05	1.59E-06	1.83E-04	6.42E-07	2.20E-05
potassium	0.00E+00	2.48E-02	0.00E+00	1.70E-02	0.00E+00	4.34E-02	0.00E+00	4.99E-03
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.17E-07	2.31E-06	4.10E-07	1.59E-06	2.45E-07	4.07E-06	4.77E-07	6.19E-07
silicon	3.01E-03	3.06E-03	1.56E-03	1.56E-03	1.00E-04	5.93E-04	2.15E-05	6.01E-04
silver	4.77E-05	4.87E-05	2.47E-05	2.47E-05	1.59E-06	9.53E-06	8.43E-07	9.98E-06
sodium	0.00E+00	2.59E-03	0.00E+00	1.79E-03	0.00E+00	4.53E-03	0.00E+00	5.26E-04
strontium	0.00E+00	1.02E-05	0.00E+00	7.01E-06	0.00E+00	1.79E-05	0.00E+00	2.06E-06
thallium	0.00E+00	2.72E-07	0.00E+00	1.87E-07	0.00E+00	4.75E-07	0.00E+00	5.48E-08
tin	0.00E+00	2.77E-06	0.00E+00	1.93E-06	0.00E+00	4.85E-06	0.00E+00	5.66E-07
titanium	0.00E+00	8.23E-04	0.00E+00	5.69E-04	0.00E+00	1.44E-03	0.00E+00	1.67E-04
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.10E-06	0.00E+00	2.17E-06	0.00E+00	5.41E-06	0.00E+00	6.35E-07
vanadium	2.96E-07	1.84E-05	1.04E-06	1.27E-05	6.22E-07	3.24E-05	1.21E-06	3.87E-06
yttrium	0.00E+00	6.77E-06	0.00E+00	4.71E-06	0.00E+00	1.18E-05	0.00E+00	1.38E-06
zinc	3.34E-04	3.45E-04	1.73E-04	1.73E-04	1.32E-05	9.07E-05	2.54E-05	8.53E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
aluminum	4.43E-06	1.07E-02	8.76E-06	6.91E+01	6.82E-06	3.47E+00	6.24E-06	2.57E+00
antimony	6.15E-06	7.00E-06	2.80E-05	1.56E-02	1.13E-05	7.43E-04	1.11E-05	5.50E-04
arsenic	4.17E-06	3.38E-04	1.90E-05	2.50E+00	7.64E-06	1.13E-01	7.53E-06	8.04E-02
barium	3.00E-07	1.15E-04	1.37E-06	7.36E-01	5.50E-07	3.78E-02	5.42E-07	2.78E-02
beryllium	5.49E-10	3.76E-07	2.50E-09	2.46E-03	1.01E-09	1.18E-04	9.91E-10	8.87E-05
bismuth	0.00E+00	1.26E-04	0.00E+00	8.25E-01	0.00E+00	3.86E-02	0.00E+00	2.92E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.13E-05	5.77E-05	5.20E-05	4.65E-02	2.12E-05	1.78E-03	2.02E-05	1.69E-03
calcium	0.00E+00	3.92E-03	0.00E+00	2.59E+01	0.00E+00	1.20E+00	0.00E+00	8.96E-01
chromium	8.84E-06	2.23E-05	4.03E-05	6.99E-02	1.63E-05	3.55E-03	1.59E-05	2.68E-03
chromium VI	4.90E-09	7.79E-09	2.23E-08	2.81E-06	8.97E-09	1.69E-07	8.84E-09	2.79E-07
cobalt	5.54E-07	4.98E-05	1.32E-06	3.05E-01	8.52E-07	1.39E-02	7.80E-07	1.00E-02
copper	1.82E-05	5.09E-05	8.29E-05	1.90E-01	3.34E-05	9.30E-03	3.28E-05	7.02E-03
gallium	5.54E-07	8.32E-06	1.09E-06	7.75E-03	8.52E-07	2.85E-04	7.80E-07	2.61E-04
indium	3.32E-06	4.99E-05	6.57E-06	4.65E-02	5.11E-06	1.71E-03	4.68E-06	1.57E-03
iron	2.77E-06	2.27E-02	5.47E-06	1.49E+02	4.26E-06	7.06E+00	3.90E-06	5.32E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	2.08E-04	2.08E-04	9.44E-04	9.33E-03	3.80E-04	8.39E-04	3.74E-04	9.20E-04
lithium	0.00E+00	3.23E-06	0.00E+00	2.09E-02	0.00E+00	1.07E-03	0.00E+00	7.84E-04
magnesium	0.00E+00	5.08E-03	0.00E+00	3.30E+01	0.00E+00	1.64E+00	0.00E+00	1.22E+00
manganese	1.38E-06	1.36E-04	6.38E-06	8.40E-01	2.62E-06	3.90E-02	2.47E-06	2.92E-02
mercury	5.43E-06	5.43E-06	2.47E-05	6.93E-04	9.94E-06	4.17E-05	9.79E-06	6.89E-05

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	1.56E-08	1.09E-06	7.07E-08	7.05E-03	2.85E-08	3.22E-04	2.81E-08	2.43E-04
nickel	9.29E-06	9.29E-06	4.22E-05	1.99E-02	1.70E-05	9.22E-04	1.67E-05	7.04E-04
palladium	5.54E-07	8.32E-06	1.09E-06	7.75E-03	8.52E-07	2.85E-04	7.80E-07	2.61E-04
phosphorus	5.54E-07	5.19E-05	1.50E-06	2.82E-01	8.52E-07	1.47E-02	7.80E-07	1.07E-02
potassium	0.00E+00	1.08E-02	0.00E+00	6.95E+01	0.00E+00	3.55E+00	0.00E+00	2.61E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	2.47E-07	1.16E-06	1.12E-06	6.25E-03	4.53E-07	3.11E-04	4.46E-07	2.31E-04
silicon	3.49E-05	5.24E-04	6.89E-05	4.88E-01	5.37E-05	1.79E-02	4.91E-05	1.65E-02
silver	5.54E-07	8.58E-06	2.05E-06	7.79E-03	8.76E-07	2.98E-04	7.80E-07	2.65E-04
sodium	0.00E+00	1.12E-03	0.00E+00	7.35E+00	0.00E+00	3.57E-01	0.00E+00	2.67E-01
strontium	0.00E+00	4.44E-06	0.00E+00	2.87E-02	0.00E+00	1.45E-03	0.00E+00	1.07E-03
thallium	0.00E+00	1.18E-07	0.00E+00	7.65E-04	0.00E+00	3.83E-05	0.00E+00	2.84E-05
tin	0.00E+00	1.21E-06	0.00E+00	7.92E-03	0.00E+00	3.75E-04	0.00E+00	2.83E-04
titanium	0.00E+00	3.57E-04	0.00E+00	2.33E+00	0.00E+00	1.14E-01	0.00E+00	8.49E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.35E-06	0.00E+00	8.90E-03	0.00E+00	4.11E-04	0.00E+00	3.12E-04
vanadium	6.28E-07	8.74E-06	2.86E-06	5.08E-02	1.15E-06	2.51E-03	1.13E-06	1.87E-03
yttrium	0.00E+00	2.94E-06	0.00E+00	1.93E-02	0.00E+00	9.24E-04	0.00E+00	6.94E-04
zinc	1.34E-05	7.41E-05	6.16E-05	5.86E-02	2.52E-05	3.79E-03	2.40E-05	2.56E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
aluminum	6.11E-06	2.54E+00	6.10E-06	3.04E+00	6.48E-06	3.74E+00	6.64E-06	3.01E+00
antimony	1.14E-05	5.41E-04	1.14E-05	6.15E-04	1.20E-05	8.32E-04	1.29E-05	8.36E-04
arsenic	7.75E-06	9.12E-02	7.72E-06	8.94E-02	8.14E-06	9.86E-02	8.77E-06	8.93E-02
barium	5.58E-07	2.75E-02	5.56E-07	3.32E-02	5.86E-07	4.04E-02	6.31E-07	3.23E-02
beryllium	1.02E-09	8.68E-05	1.02E-09	1.03E-04	1.07E-09	1.29E-04	1.16E-09	1.06E-04
bismuth	0.00E+00	2.86E-02	0.00E+00	3.37E-02	0.00E+00	4.24E-02	0.00E+00	3.51E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.09E-05	1.79E-03	2.09E-05	1.72E-03	2.16E-05	2.19E-03	2.32E-05	1.85E-03
calcium	0.00E+00	9.12E-01	0.00E+00	9.72E-01	0.00E+00	1.26E+00	0.00E+00	1.07E+00
chromium	1.64E-05	2.63E-03	1.64E-05	3.12E-03	1.72E-05	3.92E-03	1.85E-05	3.41E-03
chromium VI	9.10E-09	2.23E-07	9.07E-09	2.24E-07	9.56E-09	2.67E-07	1.03E-08	2.84E-07
cobalt	7.64E-07	1.13E-02	7.63E-07	1.11E-02	8.10E-07	1.25E-02	8.29E-07	1.13E-02
copper	3.38E-05	6.88E-03	3.37E-05	8.14E-03	3.54E-05	1.03E-02	3.82E-05	8.96E-03
gallium	7.64E-07	2.78E-04	7.63E-07	2.56E-04	8.10E-07	3.16E-04	8.29E-07	2.57E-04
indium	4.58E-06	1.67E-03	4.58E-06	1.54E-03	4.86E-06	1.90E-03	4.98E-06	1.54E-03
iron	3.82E-06	5.20E+00	3.81E-06	6.17E+00	4.05E-06	7.72E+00	4.15E-06	6.36E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	3.85E-04	7.84E-04	3.84E-04	7.36E-04	4.05E-04	9.87E-04	4.36E-04	1.24E-03
lithium	0.00E+00	7.76E-04	0.00E+00	9.34E-04	0.00E+00	1.14E-03	0.00E+00	9.14E-04
magnesium	0.00E+00	1.20E+00	0.00E+00	1.44E+00	0.00E+00	1.77E+00	0.00E+00	1.43E+00
manganese	2.54E-06	2.97E-02	2.55E-06	3.16E-02	2.65E-06	4.10E-02	2.81E-06	3.51E-02
mercury	1.01E-05	5.50E-05	1.00E-05	5.51E-05	1.06E-05	6.59E-05	1.14E-05	7.00E-05

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	2.89E-08	2.40E-04	2.88E-08	2.75E-04	3.03E-08	3.52E-04	3.27E-08	2.96E-04
nickel	1.72E-05	6.91E-04	1.72E-05	8.00E-04	1.81E-05	1.04E-03	1.95E-05	9.52E-04
palladium	7.64E-07	2.78E-04	7.63E-07	2.56E-04	8.10E-07	3.16E-04	8.29E-07	2.57E-04
phosphorus	7.64E-07	1.07E-02	7.63E-07	1.29E-02	8.10E-07	1.57E-02	8.29E-07	1.25E-02
potassium	0.00E+00	2.59E+00	0.00E+00	3.11E+00	0.00E+00	3.80E+00	0.00E+00	3.05E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	4.59E-07	2.28E-04	4.58E-07	2.72E-04	4.82E-07	3.37E-04	5.20E-07	2.79E-04
silicon	4.81E-05	1.75E-02	4.80E-05	1.61E-02	5.10E-05	1.99E-02	5.23E-05	1.62E-02
silver	7.87E-07	2.81E-04	8.02E-07	2.64E-04	8.45E-07	3.28E-04	8.29E-07	2.77E-04
sodium	0.00E+00	2.61E-01	0.00E+00	3.12E-01	0.00E+00	3.87E-01	0.00E+00	3.16E-01
strontium	0.00E+00	1.06E-03	0.00E+00	1.27E-03	0.00E+00	1.56E-03	0.00E+00	1.25E-03
thallium	0.00E+00	2.80E-05	0.00E+00	3.35E-05	0.00E+00	4.12E-05	0.00E+00	3.33E-05
tin	0.00E+00	2.76E-04	0.00E+00	3.27E-04	0.00E+00	4.10E-04	0.00E+00	3.38E-04
titanium	0.00E+00	8.33E-02	0.00E+00	9.94E-02	0.00E+00	1.23E-01	0.00E+00	1.01E-01
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.07E-04	0.00E+00	3.58E-04	0.00E+00	4.52E-04	0.00E+00	3.76E-04
vanadium	1.17E-06	1.84E-03	1.16E-06	2.20E-03	1.23E-06	2.73E-03	1.32E-06	2.24E-03
yttrium	0.00E+00	6.78E-04	0.00E+00	8.07E-04	0.00E+00	1.01E-03	0.00E+00	8.26E-04
zinc	2.47E-05	2.88E-03	2.47E-05	2.81E-03	2.56E-05	3.20E-03	2.75E-05	3.89E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
aluminum	6.68E-06	1.68E+00	1.14E-05	2.83E+00	7.75E-06	2.67E+00	6.95E-06	2.83E+00
antimony	1.40E-05	4.39E-04	1.61E-05	6.18E-04	9.93E-06	5.60E-04	1.04E-05	6.23E-04
arsenic	9.48E-06	5.70E-02	1.09E-05	9.12E-02	6.73E-06	7.06E-02	7.07E-06	8.68E-02
barium	6.82E-07	1.78E-02	7.85E-07	3.05E-02	4.85E-07	2.89E-02	5.09E-07	3.03E-02
beryllium	1.25E-09	6.00E-05	1.44E-09	9.81E-05	8.87E-10	9.21E-05	9.31E-10	9.97E-05
bismuth	0.00E+00	2.02E-02	0.00E+00	3.24E-02	0.00E+00	3.03E-02	0.00E+00	3.32E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.54E-05	2.06E-03	2.93E-05	1.55E-03	1.83E-05	1.40E-03	1.92E-05	1.39E-03
calcium	0.00E+00	6.41E-01	0.00E+00	9.73E-01	0.00E+00	9.01E-01	0.00E+00	1.03E+00
chromium	2.00E-05	1.75E-03	2.31E-05	2.97E-03	1.43E-05	2.77E-03	1.50E-05	2.95E-03
chromium VI	1.11E-08	2.65E-07	1.28E-08	1.41E-07	7.91E-09	1.47E-07	8.31E-09	1.37E-07
cobalt	8.35E-07	7.06E-03	1.43E-06	1.12E-02	9.69E-07	8.93E-03	8.69E-07	1.09E-02
copper	4.13E-05	4.73E-03	4.76E-05	7.79E-03	2.94E-05	7.26E-03	3.09E-05	7.82E-03
gallium	8.35E-07	2.98E-04	1.43E-06	2.53E-04	9.69E-07	2.17E-04	8.69E-07	2.14E-04
indium	5.01E-06	1.79E-03	8.58E-06	1.52E-03	5.81E-06	1.30E-03	5.21E-06	1.29E-03
iron	4.18E-06	3.64E+00	7.15E-06	5.89E+00	4.85E-06	5.52E+00	4.34E-06	6.02E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.71E-04	9.07E-04	5.42E-04	7.75E-04	3.35E-04	6.45E-04	3.52E-04	6.32E-04
lithium	0.00E+00	5.05E-04	0.00E+00	8.62E-04	0.00E+00	8.16E-04	0.00E+00	8.58E-04
magnesium	0.00E+00	8.03E-01	0.00E+00	1.34E+00	0.00E+00	1.27E+00	0.00E+00	1.35E+00
manganese	3.10E-06	2.08E-02	3.58E-06	3.17E-02	2.24E-06	2.93E-02	2.36E-06	3.34E-02
mercury	1.23E-05	6.53E-05	1.42E-05	3.47E-05	8.76E-06	3.61E-05	9.20E-06	3.37E-05

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.53E-08	1.74E-04	4.06E-08	2.70E-04	2.51E-08	2.52E-04	2.64E-08	2.81E-04
nickel	2.11E-05	5.00E-04	2.43E-05	7.86E-04	1.50E-05	7.24E-04	1.57E-05	8.00E-04
palladium	8.35E-07	2.98E-04	1.43E-06	2.53E-04	9.69E-07	2.17E-04	8.69E-07	2.14E-04
phosphorus	8.35E-07	6.79E-03	1.43E-06	1.18E-02	9.69E-07	1.12E-02	8.69E-07	1.16E-02
potassium	0.00E+00	1.68E+00	0.00E+00	2.87E+00	0.00E+00	2.72E+00	0.00E+00	2.86E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.62E-07	1.53E-04	6.46E-07	2.55E-04	3.99E-07	2.40E-04	4.19E-07	2.55E-04
silicon	5.26E-05	1.88E-02	9.00E-05	1.59E-02	6.11E-05	1.37E-02	5.47E-05	1.35E-02
silver	9.39E-07	3.07E-04	1.43E-06	2.63E-04	9.69E-07	2.26E-04	8.69E-07	2.22E-04
sodium	0.00E+00	1.79E-01	0.00E+00	2.95E-01	0.00E+00	2.77E-01	0.00E+00	2.99E-01
strontium	0.00E+00	6.96E-04	0.00E+00	1.18E-03	0.00E+00	1.11E-03	0.00E+00	1.18E-03
thallium	0.00E+00	1.86E-05	0.00E+00	3.13E-05	0.00E+00	2.95E-05	0.00E+00	3.13E-05
tin	0.00E+00	1.94E-04	0.00E+00	3.13E-04	0.00E+00	2.93E-04	0.00E+00	3.20E-04
titanium	0.00E+00	5.68E-02	0.00E+00	9.38E-02	0.00E+00	8.82E-02	0.00E+00	9.49E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.18E-04	0.00E+00	3.47E-04	0.00E+00	3.24E-04	0.00E+00	3.57E-04
vanadium	1.43E-06	1.24E-03	1.64E-06	2.06E-03	1.01E-06	1.94E-03	1.07E-06	2.07E-03
yttrium	0.00E+00	4.71E-04	0.00E+00	7.68E-04	0.00E+00	7.20E-04	0.00E+00	7.81E-04
zinc	3.01E-05	2.56E-03	3.48E-05	3.25E-03	2.17E-05	2.53E-03	2.28E-05	2.89E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)								
aluminum	7.26E-06	2.01E+00	8.15E-06	2.27E+00	8.60E-06	1.30E+00	6.69E-06	1.64E+00
antimony	1.26E-05	4.51E-04	1.46E-05	5.09E-04	1.51E-05	3.40E-04	1.42E-05	4.39E-04
arsenic	8.52E-06	6.22E-02	9.89E-06	7.12E-02	1.02E-05	3.80E-02	9.60E-06	5.47E-02
barium	6.13E-07	2.15E-02	7.11E-07	2.42E-02	7.36E-07	1.40E-02	6.91E-07	1.75E-02
beryllium	1.12E-09	7.08E-05	1.30E-09	8.01E-05	1.35E-09	4.55E-05	1.26E-09	5.84E-05
bismuth	0.00E+00	2.36E-02	0.00E+00	2.68E-02	0.00E+00	1.51E-02	0.00E+00	1.96E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.32E-05	1.17E-03	2.61E-05	1.12E-03	2.74E-05	1.00E-03	2.57E-05	1.30E-03
calcium	0.00E+00	7.32E-01	0.00E+00	8.32E-01	0.00E+00	4.60E-01	0.00E+00	6.17E-01
chromium	1.81E-05	2.18E-03	2.08E-05	2.45E-03	2.16E-05	1.50E-03	2.03E-05	1.84E-03
chromium VI	1.00E-08	1.32E-07	1.16E-08	1.17E-07	1.20E-08	8.74E-08	1.13E-08	1.44E-07
cobalt	9.08E-07	7.86E-03	1.02E-06	8.97E-03	1.08E-06	4.87E-03	8.36E-07	6.77E-03
copper	3.72E-05	5.66E-03	4.30E-05	6.39E-03	4.46E-05	3.85E-03	4.18E-05	4.75E-03
gallium	9.08E-07	1.86E-04	1.02E-06	1.81E-04	1.08E-06	1.50E-04	8.36E-07	1.92E-04
indium	5.45E-06	1.11E-03	6.11E-06	1.09E-03	6.45E-06	8.98E-04	5.02E-06	1.15E-03
iron	4.54E-06	4.28E+00	5.09E-06	4.84E+00	5.38E-06	2.74E+00	4.18E-06	3.54E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.24E-04	5.87E-04	4.91E-04	5.58E-04	5.09E-04	7.16E-04	4.77E-04	9.60E-04
lithium	0.00E+00	6.09E-04	0.00E+00	6.86E-04	0.00E+00	3.95E-04	0.00E+00	4.95E-04
magnesium	0.00E+00	9.58E-01	0.00E+00	1.08E+00	0.00E+00	6.19E-01	0.00E+00	7.84E-01
manganese	2.85E-06	2.39E-02	3.17E-06	2.71E-02	3.33E-06	1.51E-02	3.12E-06	2.00E-02
mercury	1.11E-05	3.27E-05	1.29E-05	2.90E-05	1.33E-05	2.76E-05	1.25E-05	3.91E-05

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.18E-08	2.00E-04	3.68E-08	2.27E-04	3.81E-08	1.27E-04	3.58E-08	1.68E-04
nickel	1.90E-05	5.74E-04	2.20E-05	6.49E-04	2.28E-05	4.04E-04	2.14E-05	5.12E-04
palladium	9.08E-07	1.86E-04	1.02E-06	1.81E-04	1.08E-06	1.50E-04	8.36E-07	1.92E-04
phosphorus	9.08E-07	8.28E-03	1.02E-06	9.32E-03	1.08E-06	5.47E-03	8.36E-07	6.58E-03
potassium	0.00E+00	2.03E+00	0.00E+00	2.29E+00	0.00E+00	1.32E+00	0.00E+00	1.65E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.05E-07	1.82E-04	5.86E-07	2.05E-04	6.06E-07	1.20E-04	5.69E-07	1.48E-04
silicon	5.72E-05	1.17E-02	6.42E-05	1.14E-02	6.78E-05	9.43E-03	5.27E-05	1.21E-02
silver	9.08E-07	1.92E-04	1.02E-06	1.87E-04	1.08E-06	1.57E-04	9.40E-07	2.02E-04
sodium	0.00E+00	2.12E-01	0.00E+00	2.40E-01	0.00E+00	1.36E-01	0.00E+00	1.75E-01
strontium	0.00E+00	8.36E-04	0.00E+00	9.44E-04	0.00E+00	5.42E-04	0.00E+00	6.82E-04
thallium	0.00E+00	2.22E-05	0.00E+00	2.51E-05	0.00E+00	1.44E-05	0.00E+00	1.82E-05
tin	0.00E+00	2.27E-04	0.00E+00	2.57E-04	0.00E+00	1.46E-04	0.00E+00	1.88E-04
titanium	0.00E+00	6.74E-02	0.00E+00	7.62E-02	0.00E+00	4.34E-02	0.00E+00	5.54E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.54E-04	0.00E+00	2.88E-04	0.00E+00	1.62E-04	0.00E+00	2.12E-04
vanadium	1.28E-06	1.47E-03	1.49E-06	1.66E-03	1.54E-06	9.62E-04	1.45E-06	1.21E-03
yttrium	0.00E+00	5.55E-04	0.00E+00	6.28E-04	0.00E+00	3.56E-04	0.00E+00	4.58E-04
zinc	2.75E-05	2.24E-03	3.10E-05	2.49E-03	3.24E-05	1.91E-03	3.04E-05	2.42E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)						
aluminum	8.77E-06	2.62E+00	7.28E-06	1.62E+00	6.92E-06	1.36E+00
antimony	1.71E-05	6.04E-04	1.57E-05	3.71E-04	1.60E-05	3.07E-04
arsenic	1.16E-05	8.08E-02	1.06E-05	5.13E-02	1.09E-05	4.29E-02
barium	8.36E-07	2.80E-02	7.65E-07	1.73E-02	7.82E-07	1.45E-02
beryllium	1.53E-09	9.21E-05	1.40E-09	5.73E-05	1.43E-09	4.81E-05
bismuth	0.00E+00	3.07E-02	0.00E+00	1.91E-02	0.00E+00	1.61E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	3.13E-05	1.45E-03	2.86E-05	9.39E-04	2.92E-05	1.09E-03
calcium	0.00E+00	9.51E-01	0.00E+00	5.95E-01	0.00E+00	4.99E-01
chromium	2.46E-05	2.77E-03	2.25E-05	1.75E-03	2.30E-05	1.44E-03
chromium VI	1.36E-08	1.37E-07	1.25E-08	1.18E-07	1.28E-08	1.52E-07
cobalt	1.10E-06	1.01E-02	9.10E-07	6.45E-03	8.66E-07	5.36E-03
copper	5.06E-05	7.33E-03	4.63E-05	4.57E-03	4.74E-05	3.80E-03
gallium	1.10E-06	2.21E-04	9.10E-07	1.37E-04	8.66E-07	1.68E-04
indium	6.58E-06	1.33E-03	5.46E-06	8.23E-04	5.19E-06	1.01E-03
iron	5.48E-06	5.56E+00	4.55E-06	3.46E+00	4.33E-06	2.90E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	5.77E-04	9.99E-04	5.28E-04	7.95E-04	5.40E-04	8.63E-04
lithium	0.00E+00	7.91E-04	0.00E+00	4.91E-04	0.00E+00	4.12E-04
magnesium	0.00E+00	1.25E+00	0.00E+00	7.74E-01	0.00E+00	6.50E-01
manganese	3.81E-06	3.09E-02	3.49E-06	1.94E-02	3.56E-06	1.62E-02
mercury	1.51E-05	3.84E-05	1.38E-05	3.71E-05	1.41E-05	4.44E-05

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	4.33E-08	2.61E-04	3.96E-08	1.63E-04	4.05E-08	1.36E-04
nickel	2.58E-05	7.59E-04	2.36E-05	4.71E-04	2.42E-05	3.90E-04
palladium	1.10E-06	2.21E-04	9.10E-07	1.37E-04	8.66E-07	1.68E-04
phosphorus	1.10E-06	1.07E-02	9.10E-07	6.63E-03	8.66E-07	5.56E-03
potassium	0.00E+00	2.64E+00	0.00E+00	1.64E+00	0.00E+00	1.37E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	6.88E-07	2.37E-04	6.30E-07	1.47E-04	6.44E-07	1.23E-04
silicon	6.91E-05	1.39E-02	5.73E-05	8.64E-03	5.45E-05	1.06E-02
silver	1.16E-06	2.30E-04	1.06E-06	1.44E-04	1.08E-06	1.70E-04
sodium	0.00E+00	2.76E-01	0.00E+00	1.72E-01	0.00E+00	1.44E-01
strontium	0.00E+00	1.09E-03	0.00E+00	6.75E-04	0.00E+00	5.66E-04
thallium	0.00E+00	2.89E-05	0.00E+00	1.80E-05	0.00E+00	1.51E-05
tin	0.00E+00	2.96E-04	0.00E+00	1.84E-04	0.00E+00	1.54E-04
titanium	0.00E+00	8.76E-02	0.00E+00	5.45E-02	0.00E+00	4.57E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.31E-04	0.00E+00	2.06E-04	0.00E+00	1.73E-04
vanadium	1.75E-06	1.92E-03	1.60E-06	1.19E-03	1.64E-06	9.99E-04
yttrium	0.00E+00	7.22E-04	0.00E+00	4.49E-04	0.00E+00	3.77E-04
zinc	3.71E-05	2.72E-03	3.39E-05	1.82E-03	3.46E-05	1.54E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 1-Hour (µg/m³)				
aluminum	6.72E-06	2.56E+00	2.77E-05	1.48E+02
antimony	1.59E-05	6.42E-04	6.08E-05	3.02E-02
arsenic	1.08E-05	7.82E-02	4.13E-05	3.59E+00
barium	7.77E-07	2.74E-02	2.97E-06	1.61E+00
beryllium	1.42E-09	8.99E-05	5.43E-09	5.05E-03
bismuth	0.00E+00	2.99E-02	0.00E+00	1.65E+00
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.89E-05	2.03E-03	1.13E-04	1.71E-02
calcium	0.00E+00	9.22E-01	0.00E+00	4.80E+01
chromium	2.28E-05	2.72E-03	8.75E-05	1.50E-01
chromium VI	1.27E-08	2.87E-07	4.85E-08	3.69E-06
cobalt	8.39E-07	9.85E-03	3.46E-06	4.52E-01
copper	4.71E-05	7.22E-03	1.80E-04	3.95E-01
gallium	8.39E-07	2.86E-04	3.46E-06	2.78E-03
indium	5.04E-06	1.71E-03	2.08E-05	1.67E-02
iron	4.20E-06	5.42E+00	1.73E-05	3.02E+02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	5.37E-04	1.36E-03	2.05E-03	1.90E-02
lithium	0.00E+00	7.75E-04	0.00E+00	4.54E-02
magnesium	0.00E+00	1.22E+00	0.00E+00	7.00E+01
manganese	3.52E-06	3.00E-02	1.38E-05	1.56E+00
mercury	1.40E-05	7.85E-05	5.37E-05	9.12E-04

Table 10.III.2-16: Predicted Maximum 1-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
molybdenum	4.02E-08	2.53E-04	1.54E-07	1.35E-02
nickel	2.40E-05	7.58E-04	9.18E-05	3.93E-02
palladium	8.39E-07	2.86E-04	3.46E-06	2.78E-03
phosphorus	8.39E-07	1.05E-02	3.46E-06	6.24E-01
potassium	0.00E+00	2.58E+00	0.00E+00	1.51E+02
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	6.40E-07	2.32E-04	2.45E-06	1.32E-02
silicon	5.29E-05	1.80E-02	2.18E-04	1.75E-01
silver	1.06E-06	2.98E-04	4.39E-06	2.95E-03
sodium	0.00E+00	2.69E-01	0.00E+00	1.52E+01
strontium	0.00E+00	1.06E-03	0.00E+00	6.19E-02
thallium	0.00E+00	2.83E-05	0.00E+00	1.63E-03
tin	0.00E+00	2.88E-04	0.00E+00	1.60E-02
titanium	0.00E+00	8.56E-02	0.00E+00	4.85E+00
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.22E-04	0.00E+00	1.76E-02
vanadium	1.63E-06	1.88E-03	6.21E-06	1.07E-01
yttrium	0.00E+00	7.04E-04	0.00E+00	3.94E-02
zinc	3.43E-05	2.87E-03	1.34E-04	9.23E-02
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
aluminum	3.83E-05	5.60E-03	1.15E-05	5.04E-03	3.17E-06	1.17E-02	1.49E-06	1.00E-03
antimony	1.34E-06	3.42E-06	3.56E-06	4.43E-06	1.07E-06	3.83E-06	2.84E-06	4.25E-06
arsenic	9.07E-07	1.70E-04	2.41E-06	1.61E-04	7.23E-07	3.74E-04	1.93E-06	3.24E-05
barium	6.52E-08	5.99E-05	1.74E-07	5.34E-05	5.20E-08	1.24E-04	1.39E-07	1.07E-05
beryllium	1.19E-10	1.97E-07	3.18E-10	1.77E-07	9.52E-11	4.11E-07	2.54E-10	3.54E-08
bismuth	0.00E+00	6.55E-05	0.00E+00	5.93E-05	0.00E+00	1.37E-04	0.00E+00	1.18E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.87E-05	3.75E-05	8.71E-06	4.80E-05	2.38E-06	2.12E-05	5.86E-06	2.56E-05
calcium	0.00E+00	2.02E-03	0.00E+00	1.85E-03	0.00E+00	4.25E-03	0.00E+00	3.65E-04
chromium	4.78E-06	9.07E-06	5.12E-06	1.16E-05	1.53E-06	1.48E-05	4.19E-06	7.16E-06
chromium VI	1.06E-09	4.83E-09	2.84E-09	6.14E-09	8.49E-10	2.58E-09	2.26E-09	5.32E-09
cobalt	4.78E-06	2.18E-05	1.44E-06	2.49E-05	3.97E-07	4.86E-05	2.32E-07	4.50E-06
copper	4.78E-06	1.90E-05	1.05E-05	2.39E-05	3.15E-06	3.74E-05	8.51E-06	1.47E-05
gallium	4.78E-06	5.38E-06	1.44E-06	6.77E-06	3.97E-07	3.15E-06	1.86E-07	3.39E-06
indium	2.87E-05	3.23E-05	8.64E-06	4.06E-05	2.38E-06	1.89E-05	1.12E-06	2.03E-05
iron	2.39E-05	1.19E-02	7.20E-06	1.07E-02	1.98E-06	2.48E-02	9.31E-07	2.13E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.51E-05	4.52E-05	1.20E-04	1.20E-04	3.59E-05	3.59E-05	9.58E-05	1.02E-04
lithium	0.00E+00	1.69E-06	0.00E+00	1.51E-06	0.00E+00	3.52E-06	0.00E+00	3.03E-07
magnesium	0.00E+00	2.66E-03	0.00E+00	2.39E-03	0.00E+00	5.55E-03	0.00E+00	4.77E-04
manganese	4.78E-06	6.62E-05	1.45E-06	6.54E-05	3.97E-07	1.40E-04	7.45E-07	1.25E-05

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
mercury	1.18E-06	1.24E-06	3.14E-06	3.14E-06	9.40E-07	9.40E-07	2.50E-06	3.04E-06
molybdenum	3.38E-09	5.56E-07	9.00E-09	5.13E-07	2.69E-09	1.17E-06	7.18E-09	1.04E-07
nickel	2.02E-06	2.34E-06	5.37E-06	5.37E-06	1.61E-06	4.04E-06	4.28E-06	5.15E-06
palladium	4.78E-06	5.38E-06	1.44E-06	6.77E-06	3.97E-07	3.15E-06	1.86E-07	3.39E-06
phosphorus	4.78E-06	2.35E-05	1.44E-06	2.52E-05	3.97E-07	4.93E-05	2.51E-07	4.79E-06
potassium	0.00E+00	5.65E-03	0.00E+00	5.04E-03	0.00E+00	1.17E-02	0.00E+00	1.01E-03
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.37E-08	5.24E-07	1.43E-07	5.25E-07	4.29E-08	1.10E-06	1.14E-07	1.78E-07
silicon	3.01E-04	3.39E-04	9.07E-05	4.26E-04	2.50E-05	1.99E-04	1.17E-05	2.13E-04
silver	4.78E-06	5.54E-06	1.44E-06	6.99E-06	3.97E-07	3.24E-06	3.06E-07	3.54E-06
sodium	0.00E+00	5.89E-04	0.00E+00	5.30E-04	0.00E+00	1.23E-03	0.00E+00	1.06E-04
strontium	0.00E+00	2.33E-06	0.00E+00	2.08E-06	0.00E+00	4.84E-06	0.00E+00	4.16E-07
thallium	0.00E+00	6.18E-08	0.00E+00	5.53E-08	0.00E+00	1.29E-07	0.00E+00	1.11E-08
tin	0.00E+00	6.30E-07	0.00E+00	5.70E-07	0.00E+00	1.32E-06	0.00E+00	1.13E-07
titanium	0.00E+00	1.87E-04	0.00E+00	1.68E-04	0.00E+00	3.90E-04	0.00E+00	3.36E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	7.04E-07	0.00E+00	6.39E-07	0.00E+00	1.48E-06	0.00E+00	1.27E-07
vanadium	1.37E-07	4.18E-06	3.64E-07	3.99E-06	1.09E-07	8.76E-06	2.90E-07	9.46E-07
yttrium	0.00E+00	1.54E-06	0.00E+00	1.39E-06	0.00E+00	3.22E-06	0.00E+00	2.76E-07
zinc	3.35E-05	4.50E-05	1.02E-05	5.67E-05	2.78E-06	2.86E-05	6.94E-06	3.05E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
aluminum	1.46E-06	3.19E-03	2.33E-06	4.33E+01	1.57E-06	1.60E+00	1.49E-06	8.56E-01
antimony	2.20E-06	2.61E-06	9.73E-06	8.73E-03	4.33E-06	3.62E-04	3.74E-06	2.02E-04
arsenic	1.50E-06	9.64E-05	6.60E-06	1.12E+00	2.94E-06	4.51E-02	2.54E-06	2.75E-02
barium	1.08E-07	3.40E-05	4.75E-07	4.72E-01	2.11E-07	1.73E-02	1.83E-07	9.13E-03
beryllium	1.97E-10	1.12E-07	8.69E-10	1.47E-03	3.87E-10	5.57E-05	3.34E-10	3.03E-05
bismuth	0.00E+00	3.71E-05	0.00E+00	4.78E-01	0.00E+00	1.84E-02	0.00E+00	1.02E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	4.10E-06	2.72E-05	1.85E-05	1.58E-02	8.28E-06	3.41E-04	7.12E-06	2.60E-04
calcium	0.00E+00	1.14E-03	0.00E+00	1.38E+01	0.00E+00	5.57E-01	0.00E+00	3.18E-01
chromium	3.18E-06	8.35E-06	1.41E-05	4.36E-02	6.27E-06	1.67E-03	5.37E-06	9.08E-04
chromium VI	1.76E-09	3.04E-09	7.75E-09	5.47E-07	3.45E-09	3.13E-08	2.98E-09	2.81E-08
cobalt	1.83E-07	1.54E-05	5.24E-07	1.39E-01	2.44E-07	5.67E-03	2.21E-07	3.44E-03
copper	6.53E-06	1.77E-05	2.89E-05	1.15E-01	1.29E-05	4.44E-03	1.11E-05	2.42E-03
gallium	1.83E-07	3.98E-06	2.91E-07	2.63E-03	1.96E-07	5.06E-05	1.86E-07	3.99E-05
indium	1.10E-06	2.39E-05	1.75E-06	1.58E-02	1.18E-06	3.03E-04	1.11E-06	2.39E-04
iron	9.13E-07	6.73E-03	1.46E-06	8.76E+01	9.81E-07	3.35E+00	9.29E-07	1.84E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	7.44E-05	7.44E-05	3.28E-04	5.35E-03	1.46E-04	3.14E-04	1.26E-04	1.89E-04
lithium	0.00E+00	9.61E-07	0.00E+00	1.33E-02	0.00E+00	4.88E-04	0.00E+00	2.59E-04
magnesium	0.00E+00	1.51E-03	0.00E+00	2.04E+01	0.00E+00	7.61E-01	0.00E+00	4.09E-01
manganese	5.04E-07	3.93E-05	2.28E-06	4.49E-01	1.03E-06	1.81E-02	8.86E-07	1.03E-02
mercury	1.95E-06	1.95E-06	8.59E-06	1.35E-04	3.82E-06	7.71E-06	3.30E-06	6.93E-06

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	5.57E-09	3.20E-07	2.46E-08	3.91E-03	1.09E-08	1.54E-04	9.46E-09	8.66E-05
nickel	3.33E-06	3.33E-06	1.47E-05	1.14E-02	6.53E-06	4.54E-04	5.65E-06	2.52E-04
palladium	1.83E-07	3.98E-06	2.91E-07	2.63E-03	1.96E-07	5.06E-05	1.86E-07	3.99E-05
phosphorus	1.83E-07	1.60E-05	5.87E-07	1.83E-01	2.72E-07	6.64E-03	2.45E-07	3.48E-03
potassium	0.00E+00	3.20E-03	0.00E+00	4.43E+01	0.00E+00	1.63E+00	0.00E+00	8.62E-01
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	8.86E-08	3.47E-07	3.91E-07	3.87E-03	1.74E-07	1.45E-04	1.50E-07	7.77E-05
silicon	1.15E-05	2.51E-04	1.84E-05	1.66E-01	1.24E-05	3.19E-03	1.17E-05	2.51E-03
silver	1.83E-07	4.09E-06	7.77E-07	2.64E-03	3.56E-07	5.74E-05	3.17E-07	4.36E-05
sodium	0.00E+00	3.34E-04	0.00E+00	4.43E+00	0.00E+00	1.67E-01	0.00E+00	9.07E-02
strontium	0.00E+00	1.32E-06	0.00E+00	1.81E-02	0.00E+00	6.68E-04	0.00E+00	3.56E-04
thallium	0.00E+00	3.51E-08	0.00E+00	4.77E-04	0.00E+00	1.77E-05	0.00E+00	9.47E-06
tin	0.00E+00	3.58E-07	0.00E+00	4.65E-03	0.00E+00	1.78E-04	0.00E+00	9.76E-05
titanium	0.00E+00	1.06E-04	0.00E+00	1.41E+00	0.00E+00	5.32E-02	0.00E+00	2.88E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.99E-07	0.00E+00	5.09E-03	0.00E+00	1.97E-04	0.00E+00	1.10E-04
vanadium	2.25E-07	2.54E-06	9.94E-07	3.13E-02	4.42E-07	1.17E-03	3.82E-07	6.30E-04
yttrium	0.00E+00	8.73E-07	0.00E+00	1.15E-02	0.00E+00	4.36E-04	0.00E+00	2.38E-04
zinc	4.86E-06	3.37E-05	2.19E-05	2.71E-02	9.81E-06	1.31E-03	8.43E-06	7.89E-04
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
aluminum	1.45E-06	1.17E+00	1.44E-06	1.05E+00	1.48E-06	9.89E-01	1.55E-06	1.11E+00
antimony	3.80E-06	2.53E-04	3.93E-06	2.44E-04	4.46E-06	2.06E-04	4.60E-06	2.27E-04
arsenic	2.57E-06	3.26E-02	2.67E-06	3.44E-02	3.03E-06	2.56E-02	3.12E-06	2.72E-02
barium	1.85E-07	1.27E-02	1.92E-07	1.11E-02	2.18E-07	1.07E-02	2.25E-07	1.20E-02
beryllium	3.39E-10	4.07E-05	3.51E-10	3.72E-05	3.99E-10	3.40E-05	4.11E-10	3.78E-05
bismuth	0.00E+00	1.35E-02	0.00E+00	1.25E-02	0.00E+00	1.12E-02	0.00E+00	1.24E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	6.94E-06	3.92E-04	7.19E-06	3.58E-04	8.16E-06	3.25E-04	8.43E-06	2.53E-04
calcium	0.00E+00	4.05E-01	0.00E+00	3.93E-01	0.00E+00	3.31E-01	0.00E+00	3.61E-01
chromium	5.45E-06	1.22E-03	5.65E-06	1.12E-03	6.41E-06	1.01E-03	6.61E-06	1.12E-03
chromium VI	3.02E-09	3.06E-08	3.13E-09	3.77E-08	3.56E-09	4.34E-08	3.66E-09	2.92E-08
cobalt	2.11E-07	4.09E-03	2.07E-07	4.30E-03	2.14E-07	3.23E-03	2.21E-07	3.44E-03
copper	1.12E-05	3.21E-03	1.16E-05	2.96E-03	1.32E-05	2.66E-03	1.36E-05	2.96E-03
gallium	1.82E-07	5.98E-05	1.80E-07	5.69E-05	1.85E-07	4.89E-05	1.93E-07	3.76E-05
indium	1.09E-06	3.59E-04	1.08E-06	3.41E-04	1.11E-06	2.93E-04	1.16E-06	2.25E-04
iron	9.09E-07	2.45E+00	9.01E-07	2.26E+00	9.26E-07	2.04E+00	9.66E-07	2.26E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.28E-04	1.91E-04	1.33E-04	2.16E-04	1.51E-04	2.08E-04	1.55E-04	1.55E-04
lithium	0.00E+00	3.57E-04	0.00E+00	3.16E-04	0.00E+00	3.02E-04	0.00E+00	3.39E-04
magnesium	0.00E+00	5.57E-01	0.00E+00	5.00E-01	0.00E+00	4.69E-01	0.00E+00	5.23E-01
manganese	8.46E-07	1.32E-02	8.77E-07	1.28E-02	9.96E-07	1.07E-02	1.03E-06	1.17E-02
mercury	3.35E-06	7.54E-06	3.47E-06	9.33E-06	3.94E-06	1.11E-05	4.06E-06	7.22E-06

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	9.60E-09	1.12E-04	9.94E-09	1.07E-04	1.13E-08	9.25E-05	1.16E-08	1.02E-04
nickel	5.73E-06	3.24E-04	5.94E-06	3.07E-04	6.74E-06	2.67E-04	6.94E-06	2.94E-04
palladium	1.82E-07	5.98E-05	1.80E-07	5.69E-05	1.85E-07	4.89E-05	1.93E-07	3.76E-05
phosphorus	2.33E-07	4.87E-03	2.29E-07	4.24E-03	2.38E-07	4.14E-03	2.45E-07	4.66E-03
potassium	0.00E+00	1.19E+00	0.00E+00	1.05E+00	0.00E+00	1.01E+00	0.00E+00	1.13E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.53E-07	1.06E-04	1.58E-07	9.50E-05	1.79E-07	8.86E-05	1.85E-07	9.90E-05
silicon	1.15E-05	3.77E-03	1.14E-05	3.58E-03	1.17E-05	3.08E-03	1.22E-05	2.37E-03
silver	3.00E-07	6.17E-05	2.93E-07	6.12E-05	3.08E-07	5.12E-05	3.17E-07	3.91E-05
sodium	0.00E+00	1.22E-01	0.00E+00	1.11E-01	0.00E+00	1.02E-01	0.00E+00	1.14E-01
strontium	0.00E+00	4.89E-04	0.00E+00	4.35E-04	0.00E+00	4.13E-04	0.00E+00	4.62E-04
thallium	0.00E+00	1.30E-05	0.00E+00	1.16E-05	0.00E+00	1.09E-05	0.00E+00	1.22E-05
tin	0.00E+00	1.30E-04	0.00E+00	1.20E-04	0.00E+00	1.08E-04	0.00E+00	1.20E-04
titanium	0.00E+00	3.89E-02	0.00E+00	3.53E-02	0.00E+00	3.26E-02	0.00E+00	3.63E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.44E-04	0.00E+00	1.35E-04	0.00E+00	1.19E-04	0.00E+00	1.32E-04
vanadium	3.88E-07	8.56E-04	4.02E-07	7.71E-04	4.56E-07	7.18E-04	4.70E-07	8.01E-04
yttrium	0.00E+00	3.19E-04	0.00E+00	2.92E-04	0.00E+00	2.66E-04	0.00E+00	2.95E-04
zinc	8.22E-06	9.38E-04	8.52E-06	1.01E-03	9.68E-06	7.07E-04	9.99E-06	7.28E-04
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
aluminum	1.71E-06	7.36E-01	2.14E-06	6.83E-01	1.50E-06	1.27E+00	1.52E-06	1.35E+00
antimony	3.40E-06	2.18E-04	6.61E-06	1.62E-04	3.71E-06	2.93E-04	3.91E-06	3.05E-04
arsenic	2.31E-06	2.48E-02	4.48E-06	1.96E-02	2.52E-06	3.81E-02	2.65E-06	3.78E-02
barium	1.66E-07	7.81E-03	3.23E-07	7.34E-03	1.81E-07	1.36E-02	1.91E-07	1.46E-02
beryllium	3.04E-10	2.62E-05	5.90E-10	2.38E-05	3.32E-10	4.44E-05	3.49E-10	4.70E-05
bismuth	0.00E+00	8.83E-03	0.00E+00	7.88E-03	0.00E+00	1.48E-02	0.00E+00	1.55E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	6.35E-06	8.04E-04	1.25E-05	2.57E-04	7.11E-06	3.54E-04	7.46E-06	3.50E-04
calcium	0.00E+00	2.79E-01	0.00E+00	2.39E-01	0.00E+00	4.54E-01	0.00E+00	4.69E-01
chromium	4.90E-06	8.59E-04	9.56E-06	7.35E-04	5.39E-06	1.34E-03	5.67E-06	1.42E-03
chromium VI	2.71E-09	9.13E-08	5.26E-09	2.35E-08	2.96E-09	2.65E-08	3.12E-09	2.54E-08
cobalt	2.14E-07	3.14E-03	3.52E-07	2.47E-03	2.11E-07	4.77E-03	2.17E-07	4.77E-03
copper	1.01E-05	2.26E-03	1.96E-05	1.93E-03	1.10E-05	3.54E-03	1.16E-05	3.75E-03
gallium	2.14E-07	1.18E-04	2.67E-07	3.82E-05	1.87E-07	5.38E-05	1.90E-07	5.32E-05
indium	1.28E-06	7.09E-04	1.60E-06	2.29E-04	1.12E-06	3.23E-04	1.14E-06	3.19E-04
iron	1.07E-06	1.59E+00	1.34E-06	1.43E+00	9.36E-07	2.68E+00	9.49E-07	2.82E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.15E-04	3.70E-04	2.23E-04	2.35E-04	1.25E-04	2.66E-04	1.32E-04	2.73E-04
lithium	0.00E+00	2.21E-04	0.00E+00	2.07E-04	0.00E+00	3.84E-04	0.00E+00	4.12E-04
magnesium	0.00E+00	3.52E-01	0.00E+00	3.24E-01	0.00E+00	6.03E-01	0.00E+00	6.42E-01
manganese	7.81E-07	9.14E-03	1.55E-06	7.80E-03	8.82E-07	1.48E-02	9.25E-07	1.52E-02
mercury	3.00E-06	2.25E-05	5.83E-06	6.30E-06	3.28E-06	6.57E-06	3.45E-06	6.26E-06

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	8.60E-09	7.60E-05	1.67E-08	6.62E-05	9.39E-09	1.25E-04	9.89E-09	1.30E-04
nickel	5.13E-06	2.44E-04	9.97E-06	1.99E-04	5.61E-06	3.65E-04	5.90E-06	3.82E-04
palladium	2.14E-07	1.18E-04	2.67E-07	3.82E-05	1.87E-07	5.38E-05	1.90E-07	5.32E-05
phosphorus	2.14E-07	3.01E-03	3.95E-07	2.84E-03	2.35E-07	5.20E-03	2.43E-07	5.62E-03
potassium	0.00E+00	7.38E-01	0.00E+00	6.91E-01	0.00E+00	1.28E+00	0.00E+00	1.37E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.37E-07	6.86E-05	2.66E-07	6.20E-05	1.49E-07	1.15E-04	1.57E-07	1.22E-04
silicon	1.35E-05	7.45E-03	1.68E-05	2.40E-03	1.18E-05	3.39E-03	1.20E-05	3.35E-03
silver	2.54E-07	1.22E-04	5.24E-07	4.14E-05	3.07E-07	5.93E-05	3.19E-07	5.90E-05
sodium	0.00E+00	7.84E-02	0.00E+00	7.14E-02	0.00E+00	1.33E-01	0.00E+00	1.41E-01
strontium	0.00E+00	3.05E-04	0.00E+00	2.84E-04	0.00E+00	5.27E-04	0.00E+00	5.64E-04
thallium	0.00E+00	8.14E-06	0.00E+00	7.54E-06	0.00E+00	1.40E-05	0.00E+00	1.49E-05
tin	0.00E+00	8.46E-05	0.00E+00	7.61E-05	0.00E+00	1.42E-04	0.00E+00	1.50E-04
titanium	0.00E+00	2.49E-02	0.00E+00	2.27E-02	0.00E+00	4.23E-02	0.00E+00	4.49E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	9.54E-05	0.00E+00	8.45E-05	0.00E+00	1.59E-04	0.00E+00	1.66E-04
vanadium	3.47E-07	5.51E-04	6.75E-07	5.01E-04	3.79E-07	9.29E-04	4.00E-07	9.89E-04
yttrium	0.00E+00	2.06E-04	0.00E+00	1.86E-04	0.00E+00	3.48E-04	0.00E+00	3.68E-04
zinc	7.53E-06	1.19E-03	1.48E-05	6.87E-04	8.43E-06	1.13E-03	8.84E-06	1.18E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)								
aluminum	1.56E-06	7.19E-01	1.62E-06	6.15E-01	1.77E-06	2.75E-01	1.75E-06	4.38E-01
antimony	4.13E-06	1.65E-04	4.29E-06	1.48E-04	4.86E-06	7.46E-05	4.43E-06	1.00E-04
arsenic	2.80E-06	2.37E-02	2.91E-06	1.95E-02	3.30E-06	8.51E-03	3.01E-06	1.38E-02
barium	2.02E-07	7.64E-03	2.09E-07	6.56E-03	2.37E-07	2.94E-03	2.16E-07	4.68E-03
beryllium	3.69E-10	2.55E-05	3.83E-10	2.17E-05	4.34E-10	9.68E-06	3.96E-10	1.55E-05
bismuth	0.00E+00	8.58E-03	0.00E+00	7.27E-03	0.00E+00	3.23E-03	0.00E+00	5.18E-03
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	7.83E-06	3.46E-04	8.09E-06	3.20E-04	9.07E-06	2.50E-04	8.34E-06	1.84E-04
calcium	0.00E+00	2.70E-01	0.00E+00	2.26E-01	0.00E+00	1.00E-01	0.00E+00	1.61E-01
chromium	5.98E-06	7.81E-04	6.19E-06	6.77E-04	7.01E-06	3.25E-04	6.40E-06	4.62E-04
chromium VI	3.29E-09	1.69E-08	3.41E-09	2.30E-08	3.87E-09	1.97E-08	3.53E-09	1.33E-08
cobalt	2.20E-07	2.98E-03	2.23E-07	2.46E-03	2.35E-07	1.09E-03	2.26E-07	1.73E-03
copper	1.23E-05	2.04E-03	1.27E-05	1.77E-03	1.44E-05	8.28E-04	1.32E-05	1.22E-03
gallium	1.96E-07	5.64E-05	2.02E-07	4.97E-05	2.21E-07	3.75E-05	2.18E-07	2.95E-05
indium	1.17E-06	3.38E-04	1.21E-06	2.98E-04	1.33E-06	2.25E-04	1.31E-06	1.77E-04
iron	9.78E-07	1.55E+00	1.01E-06	1.31E+00	1.10E-06	5.85E-01	1.09E-06	9.36E-01
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.39E-04	2.24E-04	1.45E-04	2.37E-04	1.64E-04	2.12E-04	1.50E-04	1.90E-04
lithium	0.00E+00	2.17E-04	0.00E+00	1.86E-04	0.00E+00	8.31E-05	0.00E+00	1.33E-04
magnesium	0.00E+00	3.43E-01	0.00E+00	2.93E-01	0.00E+00	1.31E-01	0.00E+00	2.09E-01
manganese	9.67E-07	8.79E-03	9.99E-07	7.38E-03	1.11E-06	3.28E-03	1.03E-06	5.24E-03
mercury	3.65E-06	4.45E-06	3.78E-06	5.96E-06	4.29E-06	6.85E-06	3.91E-06	4.74E-06

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	1.04E-08	7.34E-05	1.08E-08	6.19E-05	1.23E-08	2.75E-05	1.12E-08	4.40E-05
nickel	6.24E-06	2.09E-04	6.47E-06	1.84E-04	7.34E-06	8.89E-05	6.69E-06	1.27E-04
palladium	1.96E-07	5.64E-05	2.02E-07	4.97E-05	2.21E-07	3.75E-05	2.18E-07	2.95E-05
phosphorus	2.47E-07	2.92E-03	2.51E-07	2.52E-03	2.67E-07	1.15E-03	2.55E-07	1.78E-03
potassium	0.00E+00	7.22E-01	0.00E+00	6.20E-01	0.00E+00	2.77E-01	0.00E+00	4.42E-01
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.66E-07	6.50E-05	1.72E-07	5.60E-05	1.96E-07	2.53E-05	1.78E-07	3.96E-05
silicon	1.23E-05	3.55E-03	1.27E-05	3.13E-03	1.39E-05	2.36E-03	1.38E-05	1.86E-03
silver	3.28E-07	5.92E-05	3.35E-07	5.26E-05	3.61E-07	3.92E-05	3.42E-07	3.08E-05
sodium	0.00E+00	7.64E-02	0.00E+00	6.50E-02	0.00E+00	2.90E-02	0.00E+00	4.63E-02
strontium	0.00E+00	2.98E-04	0.00E+00	2.56E-04	0.00E+00	1.14E-04	0.00E+00	1.82E-04
thallium	0.00E+00	7.95E-06	0.00E+00	6.80E-06	0.00E+00	3.04E-06	0.00E+00	4.85E-06
tin	0.00E+00	8.23E-05	0.00E+00	6.99E-05	0.00E+00	3.11E-05	0.00E+00	4.98E-05
titanium	0.00E+00	2.42E-02	0.00E+00	2.07E-02	0.00E+00	9.21E-03	0.00E+00	1.47E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	9.26E-05	0.00E+00	7.83E-05	0.00E+00	3.48E-05	0.00E+00	5.58E-05
vanadium	4.22E-07	5.28E-04	4.38E-07	4.53E-04	4.97E-07	2.04E-04	4.53E-07	3.21E-04
yttrium	0.00E+00	2.00E-04	0.00E+00	1.70E-04	0.00E+00	7.59E-05	0.00E+00	1.21E-04
zinc	9.27E-06	8.09E-04	9.59E-06	7.22E-04	1.07E-05	4.48E-04	9.88E-06	4.26E-04
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)						
aluminum	2.80E-06	5.73E-01	1.89E-06	3.82E-01	1.86E-06	5.12E-01
antimony	7.37E-06	1.30E-04	4.91E-06	8.90E-05	4.76E-06	1.21E-04
arsenic	5.00E-06	1.76E-02	3.33E-06	1.20E-02	3.23E-06	1.57E-02
barium	3.60E-07	6.13E-03	2.40E-07	4.08E-03	2.33E-07	5.47E-03
beryllium	6.58E-10	2.02E-05	4.39E-10	1.35E-05	4.25E-10	1.80E-05
bismuth	0.00E+00	6.73E-03	0.00E+00	4.51E-03	0.00E+00	6.00E-03
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.36E-05	3.21E-04	9.18E-06	2.23E-04	8.91E-06	2.04E-04
calcium	0.00E+00	2.08E-01	0.00E+00	1.40E-01	0.00E+00	1.85E-01
chromium	1.06E-05	6.04E-04	7.08E-06	4.13E-04	6.87E-06	5.50E-04
chromium VI	5.87E-09	2.39E-08	3.91E-09	1.85E-08	3.79E-09	1.85E-08
cobalt	3.50E-07	2.21E-03	2.41E-07	1.51E-03	2.34E-07	1.97E-03
copper	2.18E-05	1.60E-03	1.46E-05	1.08E-03	1.41E-05	1.45E-03
gallium	3.50E-07	4.87E-05	2.37E-07	3.39E-05	2.33E-07	3.04E-05
indium	2.10E-06	2.92E-04	1.42E-06	2.03E-04	1.40E-06	1.82E-04
iron	1.75E-06	1.22E+00	1.18E-06	8.16E-01	1.17E-06	1.09E+00
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	2.49E-04	3.07E-04	1.66E-04	1.89E-04	1.61E-04	1.69E-04
lithium	0.00E+00	1.74E-04	0.00E+00	1.16E-04	0.00E+00	1.55E-04
magnesium	0.00E+00	2.73E-01	0.00E+00	1.82E-01	0.00E+00	2.44E-01
manganese	1.66E-06	6.76E-03	1.13E-06	4.57E-03	1.10E-06	6.03E-03
mercury	6.50E-06	7.96E-06	4.33E-06	6.57E-06	4.20E-06	5.58E-06

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	1.86E-08	5.70E-05	1.24E-08	3.83E-05	1.20E-08	5.08E-05
nickel	1.11E-05	1.65E-04	7.41E-06	1.12E-04	7.19E-06	1.51E-04
palladium	3.50E-07	4.87E-05	2.37E-07	3.39E-05	2.33E-07	3.04E-05
phosphorus	3.79E-07	2.34E-03	2.73E-07	1.57E-03	2.65E-07	2.10E-03
potassium	0.00E+00	5.79E-01	0.00E+00	3.85E-01	0.00E+00	5.16E-01
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	2.96E-07	5.18E-05	1.97E-07	3.46E-05	1.91E-07	4.65E-05
silicon	2.21E-05	3.07E-03	1.49E-05	2.13E-03	1.47E-05	1.91E-03
silver	5.22E-07	5.10E-05	3.69E-07	3.53E-05	3.58E-07	3.17E-05
sodium	0.00E+00	6.04E-02	0.00E+00	4.04E-02	0.00E+00	5.39E-02
strontium	0.00E+00	2.38E-04	0.00E+00	1.59E-04	0.00E+00	2.13E-04
thallium	0.00E+00	6.34E-06	0.00E+00	4.22E-06	0.00E+00	5.65E-06
tin	0.00E+00	6.47E-05	0.00E+00	4.34E-05	0.00E+00	5.77E-05
titanium	0.00E+00	1.92E-02	0.00E+00	1.28E-02	0.00E+00	1.71E-02
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	7.24E-05	0.00E+00	4.86E-05	0.00E+00	6.45E-05
vanadium	7.53E-07	4.20E-04	5.02E-07	2.81E-04	4.87E-07	3.76E-04
yttrium	0.00E+00	1.58E-04	0.00E+00	1.06E-04	0.00E+00	1.41E-04
zinc	1.61E-05	6.41E-04	1.09E-05	4.04E-04	1.06E-05	5.10E-04
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Maximum 24-Hour (µg/m³)				
aluminum	1.73E-06	9.82E-01	8.58E-06	7.94E+01
antimony	4.32E-06	2.43E-04	1.88E-05	1.64E-02
arsenic	2.93E-06	2.98E-02	1.28E-05	1.99E+00
barium	2.11E-07	1.05E-02	9.20E-07	8.62E-01
beryllium	3.86E-10	3.45E-05	1.68E-09	2.72E-03
bismuth	0.00E+00	1.15E-02	0.00E+00	8.91E-01
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	8.11E-06	4.28E-04	3.45E-05	8.87E-03
calcium	0.00E+00	3.54E-01	0.00E+00	2.62E+01
chromium	6.24E-06	1.07E-03	2.71E-05	8.05E-02
chromium VI	3.44E-09	4.36E-08	1.50E-08	1.25E-06
cobalt	2.17E-07	3.76E-03	1.07E-06	2.51E-01
copper	1.28E-05	2.81E-03	5.58E-05	2.13E-01
gallium	2.17E-07	6.62E-05	1.07E-06	1.33E-03
indium	1.30E-06	3.97E-04	6.43E-06	7.98E-03
iron	1.08E-06	2.08E+00	5.36E-06	1.63E+02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.46E-04	2.78E-04	6.36E-04	1.04E-02
lithium	0.00E+00	2.98E-04	0.00E+00	2.43E-02
magnesium	0.00E+00	4.68E-01	0.00E+00	3.76E+01
manganese	9.99E-07	1.15E-02	4.22E-06	8.51E-01
mercury	3.81E-06	1.08E-05	1.66E-05	3.08E-04

Table 10.III.2-17: Predicted Maximum 24-Hour Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
molybdenum	1.09E-08	9.73E-05	4.76E-08	7.35E-03
nickel	6.52E-06	2.93E-04	2.84E-05	2.13E-02
palladium	2.17E-07	6.62E-05	1.07E-06	1.33E-03
phosphorus	2.46E-07	4.04E-03	1.07E-06	3.33E-01
potassium	0.00E+00	9.92E-01	0.00E+00	8.10E+01
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.74E-07	8.96E-05	7.58E-07	7.11E-03
silicon	1.37E-05	4.17E-03	6.76E-05	8.38E-02
silver	3.30E-07	7.00E-05	1.31E-06	1.47E-03
sodium	0.00E+00	1.03E-01	0.00E+00	8.19E+00
strontium	0.00E+00	4.09E-04	0.00E+00	3.32E-02
thallium	0.00E+00	1.09E-05	0.00E+00	8.76E-04
tin	0.00E+00	1.11E-04	0.00E+00	8.65E-03
titanium	0.00E+00	3.29E-02	0.00E+00	2.61E+00
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.24E-04	0.00E+00	9.50E-03
vanadium	4.41E-07	7.24E-04	1.93E-06	5.76E-02
yttrium	0.00E+00	2.70E-04	0.00E+00	2.13E-02
zinc	9.61E-06	1.04E-03	4.09E-05	5.12E-02
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
aluminum	9.53E-07	1.13E-04	4.21E-07	1.30E-04	1.34E-07	4.69E-04	5.13E-08	1.67E-05
antimony	6.36E-08	1.97E-07	1.34E-07	2.91E-07	6.96E-08	3.04E-07	9.06E-08	1.42E-07
arsenic	4.31E-08	3.50E-06	9.06E-08	4.22E-06	4.72E-08	1.57E-05	6.14E-08	5.84E-07
barium	3.10E-09	1.19E-06	6.52E-09	1.37E-06	3.40E-09	4.97E-06	4.42E-09	1.79E-07
beryllium	5.68E-12	3.91E-09	1.19E-11	4.54E-09	6.22E-12	1.67E-08	8.09E-12	5.90E-10
bismuth	0.00E+00	1.30E-06	0.00E+00	1.51E-06	0.00E+00	5.60E-06	0.00E+00	1.92E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	8.24E-07	2.27E-06	5.45E-07	2.68E-06	2.20E-07	2.14E-06	1.94E-07	6.42E-07
calcium	0.00E+00	4.03E-05	0.00E+00	4.74E-05	0.00E+00	1.77E-04	0.00E+00	6.01E-06
chromium	2.09E-07	6.06E-07	2.42E-07	7.80E-07	1.15E-07	9.59E-07	1.35E-07	2.46E-07
chromium VI	5.07E-11	2.21E-10	1.06E-10	3.09E-10	5.55E-11	2.57E-10	7.22E-11	1.46E-10
cobalt	1.21E-07	7.62E-07	5.58E-08	8.91E-07	1.84E-08	2.23E-06	8.58E-09	1.36E-07
copper	3.06E-07	1.13E-06	4.45E-07	1.49E-06	2.21E-07	2.16E-06	2.73E-07	5.16E-07
gallium	1.19E-07	3.29E-07	5.26E-08	3.72E-07	1.67E-08	3.00E-07	6.42E-09	6.79E-08
indium	7.15E-07	1.97E-06	3.16E-07	2.23E-06	1.00E-07	1.80E-06	3.85E-08	4.07E-07
iron	5.96E-07	2.37E-04	2.63E-07	2.75E-04	8.36E-08	1.01E-03	3.21E-08	3.50E-05
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	2.26E-06	2.86E-06	4.56E-06	5.33E-06	2.36E-06	3.14E-06	3.06E-06	3.28E-06
lithium	0.00E+00	3.33E-08	0.00E+00	3.84E-08	0.00E+00	1.41E-07	0.00E+00	4.89E-09
magnesium	0.00E+00	5.25E-05	0.00E+00	6.07E-05	0.00E+00	2.23E-04	0.00E+00	7.72E-06
manganese	1.32E-07	1.67E-06	8.00E-08	1.96E-06	3.10E-08	6.06E-06	2.50E-08	2.91E-07

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
mercury	5.61E-08	9.81E-08	1.18E-07	1.68E-07	6.14E-08	1.11E-07	7.99E-08	9.82E-08
molybdenum	1.61E-10	1.17E-08	3.38E-10	1.39E-08	1.76E-10	4.88E-08	2.29E-10	2.10E-09
nickel	9.60E-08	1.93E-07	2.02E-07	3.16E-07	1.05E-07	3.18E-07	1.37E-07	1.70E-07
palladium	1.19E-07	3.29E-07	5.26E-08	3.72E-07	1.67E-08	3.00E-07	6.42E-09	6.79E-08
phosphorus	1.21E-07	7.81E-07	5.67E-08	8.93E-07	1.88E-08	2.17E-06	9.17E-09	1.38E-07
potassium	0.00E+00	1.11E-04	0.00E+00	1.28E-04	0.00E+00	4.69E-04	0.00E+00	1.63E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	2.56E-09	1.70E-08	5.37E-09	2.22E-08	2.80E-09	5.04E-08	3.64E-09	7.07E-09
silicon	7.51E-06	2.07E-05	3.32E-06	2.35E-05	1.05E-06	1.89E-05	4.04E-07	4.28E-06
silver	1.22E-07	3.38E-07	5.93E-08	3.86E-07	2.02E-08	3.12E-07	1.09E-08	7.48E-08
sodium	0.00E+00	1.16E-05	0.00E+00	1.35E-05	0.00E+00	4.97E-05	0.00E+00	1.72E-06
strontium	0.00E+00	4.58E-08	0.00E+00	5.28E-08	0.00E+00	1.94E-07	0.00E+00	6.72E-09
thallium	0.00E+00	1.22E-09	0.00E+00	1.41E-09	0.00E+00	5.17E-09	0.00E+00	1.79E-10
tin	0.00E+00	1.25E-08	0.00E+00	1.45E-08	0.00E+00	5.37E-08	0.00E+00	1.85E-09
titanium	0.00E+00	3.70E-06	0.00E+00	4.28E-06	0.00E+00	1.58E-05	0.00E+00	5.45E-07
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.40E-08	0.00E+00	1.63E-08	0.00E+00	6.04E-08	0.00E+00	2.07E-09
vanadium	6.50E-09	1.09E-07	1.36E-08	1.33E-07	7.11E-09	3.76E-07	9.25E-09	3.06E-08
yttrium	0.00E+00	3.05E-08	0.00E+00	3.54E-08	0.00E+00	1.31E-07	0.00E+00	4.50E-09
zinc	9.64E-07	2.72E-06	6.41E-07	3.22E-06	2.59E-07	2.78E-06	2.30E-07	7.68E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
aluminum	7.08E-08	1.16E-04	3.47E-07	3.96E+00	2.07E-07	4.69E-02	2.07E-07	3.56E-02
antimony	7.18E-08	1.93E-07	4.04E-07	8.56E-04	1.84E-07	1.19E-05	1.90E-07	8.73E-06
arsenic	4.87E-08	3.74E-06	2.74E-07	1.13E-01	1.25E-07	1.72E-03	1.29E-07	1.10E-03
barium	3.50E-09	1.22E-06	1.97E-08	4.26E-02	8.96E-09	4.93E-04	9.28E-09	3.81E-04
beryllium	6.41E-12	4.07E-09	3.61E-11	1.38E-04	1.64E-11	1.69E-06	1.70E-11	1.25E-06
bismuth	0.00E+00	1.36E-06	0.00E+00	4.56E-02	0.00E+00	5.76E-04	0.00E+00	4.18E-04
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.76E-07	1.48E-06	9.55E-07	7.32E-04	4.71E-07	2.19E-05	4.82E-07	1.67E-05
calcium	0.00E+00	4.24E-05	0.00E+00	1.38E+00	0.00E+00	1.86E-02	0.00E+00	1.29E-02
chromium	1.11E-07	4.83E-07	6.16E-07	4.10E-03	2.86E-07	5.13E-05	2.95E-07	3.90E-05
chromium VI	5.72E-11	2.07E-10	3.22E-10	1.14E-08	1.46E-10	1.25E-09	1.52E-10	1.25E-09
cobalt	1.06E-08	6.60E-07	5.30E-08	1.41E-02	3.03E-08	2.14E-04	3.04E-08	1.38E-04
copper	2.20E-07	9.99E-07	1.23E-06	1.08E-02	5.66E-07	1.36E-04	5.85E-07	1.02E-04
gallium	8.85E-09	1.99E-07	4.33E-08	1.18E-04	2.59E-08	3.38E-06	2.59E-08	2.52E-06
indium	5.31E-08	1.20E-06	2.60E-07	7.09E-04	1.55E-07	2.03E-05	1.55E-07	1.51E-05
iron	4.42E-08	2.46E-04	2.17E-07	8.29E+00	1.29E-07	1.03E-01	1.29E-07	7.57E-02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	2.43E-06	2.96E-06	1.37E-05	6.40E-04	6.21E-06	1.80E-05	6.44E-06	1.57E-05
lithium	0.00E+00	3.44E-08	0.00E+00	1.20E-03	0.00E+00	1.40E-05	0.00E+00	1.08E-05
magnesium	0.00E+00	5.45E-05	0.00E+00	1.88E+00	0.00E+00	2.25E-02	0.00E+00	1.70E-02
manganese	2.35E-08	1.61E-06	1.26E-07	4.49E-02	6.35E-08	6.07E-04	6.48E-08	4.22E-04
mercury	6.33E-08	1.00E-07	3.57E-07	3.09E-06	1.62E-07	4.35E-07	1.68E-07	4.40E-07

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	1.81E-10	1.22E-08	1.02E-09	3.83E-04	4.64E-10	5.00E-06	4.81E-10	3.55E-06
nickel	1.08E-07	1.99E-07	6.10E-07	1.10E-03	2.77E-07	1.47E-05	2.87E-07	1.08E-05
palladium	8.85E-09	1.99E-07	4.33E-08	1.18E-04	2.59E-08	3.38E-06	2.59E-08	2.52E-06
phosphorus	1.10E-08	6.65E-07	5.56E-08	1.64E-02	3.15E-08	1.86E-04	3.16E-08	1.47E-04
potassium	0.00E+00	1.15E-04	0.00E+00	4.01E+00	0.00E+00	4.68E-02	0.00E+00	3.59E-02
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	2.89E-09	1.72E-08	1.63E-08	3.56E-04	7.38E-09	4.29E-06	7.65E-09	3.25E-06
silicon	5.57E-07	1.26E-05	2.73E-06	7.44E-03	1.63E-06	2.13E-04	1.63E-06	1.59E-04
silver	1.24E-08	2.08E-07	6.35E-08	1.33E-04	3.50E-08	3.60E-06	3.54E-08	2.70E-06
sodium	0.00E+00	1.21E-05	0.00E+00	4.14E-01	0.00E+00	5.05E-03	0.00E+00	3.75E-03
strontium	0.00E+00	4.74E-08	0.00E+00	1.65E-03	0.00E+00	1.94E-05	0.00E+00	1.48E-05
thallium	0.00E+00	1.26E-09	0.00E+00	4.37E-05	0.00E+00	5.19E-07	0.00E+00	3.93E-07
tin	0.00E+00	1.30E-08	0.00E+00	4.40E-04	0.00E+00	5.50E-06	0.00E+00	4.02E-06
titanium	0.00E+00	3.84E-06	0.00E+00	1.32E-01	0.00E+00	1.60E-03	0.00E+00	1.19E-03
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.46E-08	0.00E+00	4.89E-04	0.00E+00	6.24E-06	0.00E+00	4.50E-06
vanadium	7.33E-09	1.10E-07	4.13E-08	2.89E-03	1.88E-08	3.48E-05	1.94E-08	2.62E-05
yttrium	0.00E+00	3.17E-08	0.00E+00	1.08E-03	0.00E+00	1.33E-05	0.00E+00	9.82E-06
zinc	2.08E-07	1.81E-06	1.13E-06	3.09E-03	5.55E-07	5.20E-05	5.69E-07	3.97E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
aluminum	2.06E-07	5.56E-02	2.06E-07	5.87E-02	2.04E-07	5.74E-02	2.01E-07	3.99E-02
antimony	1.93E-07	1.32E-05	1.93E-07	1.39E-05	1.96E-07	1.37E-05	1.97E-07	9.95E-06
arsenic	1.31E-07	1.65E-03	1.31E-07	1.72E-03	1.33E-07	1.71E-03	1.34E-07	1.25E-03
barium	9.41E-09	5.97E-04	9.44E-09	6.30E-04	9.55E-09	6.15E-04	9.64E-09	4.26E-04
beryllium	1.72E-11	1.95E-06	1.73E-11	2.05E-06	1.75E-11	2.01E-06	1.76E-11	1.41E-06
bismuth	0.00E+00	6.47E-04	0.00E+00	6.81E-04	0.00E+00	6.69E-04	0.00E+00	4.70E-04
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	4.86E-07	2.12E-05	4.87E-07	2.17E-05	4.89E-07	2.37E-05	4.90E-07	2.08E-05
calcium	0.00E+00	1.98E-02	0.00E+00	2.08E-02	0.00E+00	2.05E-02	0.00E+00	1.46E-02
chromium	2.99E-07	6.00E-05	3.00E-07	6.32E-05	3.03E-07	6.22E-05	3.05E-07	4.42E-05
chromium VI	1.54E-10	1.55E-09	1.54E-10	1.64E-09	1.56E-10	1.79E-09	1.57E-10	1.61E-09
cobalt	3.04E-08	2.08E-04	3.04E-08	2.17E-04	3.01E-08	2.16E-04	2.98E-08	1.57E-04
copper	5.93E-07	1.57E-04	5.94E-07	1.66E-04	6.01E-07	1.63E-04	6.06E-07	1.15E-04
gallium	2.58E-08	3.21E-06	2.57E-08	3.27E-06	2.55E-08	3.58E-06	2.51E-08	3.13E-06
indium	1.55E-07	1.92E-05	1.54E-07	1.96E-05	1.53E-07	2.15E-05	1.50E-07	1.88E-05
iron	1.29E-07	1.17E-01	1.29E-07	1.24E-01	1.27E-07	1.21E-01	1.25E-07	8.51E-02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	6.53E-06	1.96E-05	6.54E-06	2.02E-05	6.62E-06	2.08E-05	6.68E-06	1.79E-05
lithium	0.00E+00	1.69E-05	0.00E+00	1.78E-05	0.00E+00	1.74E-05	0.00E+00	1.21E-05
magnesium	0.00E+00	2.65E-02	0.00E+00	2.79E-02	0.00E+00	2.73E-02	0.00E+00	1.90E-02
manganese	6.53E-08	6.45E-04	6.53E-08	6.77E-04	6.55E-08	6.68E-04	6.55E-08	4.76E-04
mercury	1.70E-07	5.14E-07	1.71E-07	5.36E-07	1.73E-07	5.75E-07	1.74E-07	5.32E-07

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	4.88E-10	5.46E-06	4.89E-10	5.74E-06	4.95E-10	5.65E-06	4.99E-10	4.00E-06
nickel	2.91E-07	1.64E-05	2.92E-07	1.72E-05	2.95E-07	1.70E-05	2.98E-07	1.22E-05
palladium	2.58E-08	3.21E-06	2.57E-08	3.27E-06	2.55E-08	3.58E-06	2.51E-08	3.13E-06
phosphorus	3.17E-08	2.30E-04	3.16E-08	2.43E-04	3.14E-08	2.37E-04	3.11E-08	1.64E-04
potassium	0.00E+00	5.63E-02	0.00E+00	5.94E-02	0.00E+00	5.80E-02	0.00E+00	4.03E-02
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	7.75E-09	5.05E-06	7.77E-09	5.33E-06	7.87E-09	5.22E-06	7.94E-09	3.65E-06
silicon	1.63E-06	2.02E-04	1.62E-06	2.06E-04	1.60E-06	2.26E-04	1.58E-06	1.97E-04
silver	3.54E-08	3.47E-06	3.54E-08	3.54E-06	3.52E-08	3.86E-06	3.49E-08	3.33E-06
sodium	0.00E+00	5.84E-03	0.00E+00	6.16E-03	0.00E+00	6.03E-03	0.00E+00	4.22E-03
strontium	0.00E+00	2.32E-05	0.00E+00	2.45E-05	0.00E+00	2.39E-05	0.00E+00	1.66E-05
thallium	0.00E+00	6.15E-07	0.00E+00	6.49E-07	0.00E+00	6.34E-07	0.00E+00	4.41E-07
tin	0.00E+00	6.24E-06	0.00E+00	6.57E-06	0.00E+00	6.44E-06	0.00E+00	4.52E-06
titanium	0.00E+00	1.86E-03	0.00E+00	1.96E-03	0.00E+00	1.92E-03	0.00E+00	1.34E-03
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	6.95E-06	0.00E+00	7.31E-06	0.00E+00	7.18E-06	0.00E+00	5.06E-06
vanadium	1.97E-08	4.08E-05	1.98E-08	4.31E-05	2.00E-08	4.22E-05	2.02E-08	2.94E-05
yttrium	0.00E+00	1.53E-05	0.00E+00	1.61E-05	0.00E+00	1.57E-05	0.00E+00	1.10E-05
zinc	5.74E-07	5.63E-05	5.74E-07	5.86E-05	5.77E-07	6.03E-05	5.78E-07	4.69E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
aluminum	2.42E-07	3.29E-02	2.93E-07	3.13E-02	1.94E-07	3.29E-02	1.95E-07	3.38E-02
antimony	2.19E-07	1.06E-05	3.03E-07	8.35E-06	1.69E-07	8.40E-06	1.68E-07	8.61E-06
arsenic	1.49E-07	9.99E-04	2.06E-07	1.25E-03	1.15E-07	1.17E-03	1.14E-07	1.19E-03
barium	1.07E-08	3.52E-04	1.48E-08	3.27E-04	8.25E-09	3.48E-04	8.21E-09	3.58E-04
beryllium	1.96E-11	1.15E-06	2.71E-11	1.15E-06	1.51E-11	1.18E-06	1.50E-11	1.21E-06
bismuth	0.00E+00	3.84E-04	0.00E+00	3.94E-04	0.00E+00	4.01E-04	0.00E+00	4.11E-04
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	5.58E-07	5.03E-05	7.41E-07	2.12E-05	4.36E-07	1.93E-05	4.35E-07	2.15E-05
calcium	0.00E+00	1.18E-02	0.00E+00	1.31E-02	0.00E+00	1.29E-02	0.00E+00	1.31E-02
chromium	3.41E-07	4.29E-05	4.66E-07	3.56E-05	2.64E-07	3.68E-05	2.63E-07	3.81E-05
chromium VI	1.75E-10	5.19E-09	2.42E-10	9.43E-10	1.35E-10	1.08E-09	1.34E-10	1.13E-09
cobalt	3.55E-08	1.31E-04	4.39E-08	1.56E-04	2.83E-08	1.47E-04	2.83E-08	1.49E-04
copper	6.74E-07	1.07E-04	9.28E-07	9.37E-05	5.21E-07	9.65E-05	5.19E-07	9.93E-05
gallium	3.02E-08	7.40E-06	3.66E-08	3.31E-06	2.43E-08	2.98E-06	2.43E-08	3.34E-06
indium	1.81E-07	4.44E-05	2.20E-07	1.99E-05	1.46E-07	1.79E-05	1.46E-07	2.00E-05
iron	1.51E-07	6.96E-02	1.83E-07	7.04E-02	1.21E-07	7.20E-02	1.22E-07	7.38E-02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	7.42E-06	2.97E-05	1.03E-05	1.92E-05	5.72E-06	1.49E-05	5.69E-06	1.55E-05
lithium	0.00E+00	9.95E-06	0.00E+00	9.31E-06	0.00E+00	9.87E-06	0.00E+00	1.02E-05
magnesium	0.00E+00	1.56E-02	0.00E+00	1.51E-02	0.00E+00	1.58E-02	0.00E+00	1.62E-02
manganese	7.51E-08	3.92E-04	9.87E-08	4.25E-04	5.88E-08	4.19E-04	5.87E-08	4.28E-04
mercury	1.93E-07	1.43E-06	2.68E-07	4.41E-07	1.49E-07	3.82E-07	1.48E-07	3.95E-07

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	5.54E-10	3.27E-06	7.67E-10	3.47E-06	4.27E-10	3.47E-06	4.25E-10	3.55E-06
nickel	3.31E-07	1.15E-05	4.58E-07	1.03E-05	2.55E-07	1.03E-05	2.54E-07	1.06E-05
palladium	3.02E-08	7.40E-06	3.66E-08	3.31E-06	2.43E-08	2.98E-06	2.43E-08	3.34E-06
phosphorus	3.69E-08	1.41E-04	4.58E-08	1.23E-04	2.94E-08	1.32E-04	2.94E-08	1.37E-04
potassium	0.00E+00	3.32E-02	0.00E+00	3.11E-02	0.00E+00	3.29E-02	0.00E+00	3.39E-02
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	8.81E-09	3.10E-06	1.22E-08	2.88E-06	6.79E-09	3.01E-06	6.76E-09	3.10E-06
silicon	1.90E-06	4.66E-04	2.31E-06	2.09E-04	1.53E-06	1.88E-04	1.53E-06	2.10E-04
silver	4.12E-08	7.69E-06	5.18E-08	3.47E-06	3.27E-08	3.14E-06	3.27E-08	3.51E-06
sodium	0.00E+00	3.46E-03	0.00E+00	3.42E-03	0.00E+00	3.53E-03	0.00E+00	3.62E-03
strontium	0.00E+00	1.37E-05	0.00E+00	1.29E-05	0.00E+00	1.36E-05	0.00E+00	1.40E-05
thallium	0.00E+00	3.63E-07	0.00E+00	3.47E-07	0.00E+00	3.64E-07	0.00E+00	3.74E-07
tin	0.00E+00	3.70E-06	0.00E+00	3.75E-06	0.00E+00	3.83E-06	0.00E+00	3.93E-06
titanium	0.00E+00	1.10E-03	0.00E+00	1.08E-03	0.00E+00	1.12E-03	0.00E+00	1.15E-03
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	4.13E-06	0.00E+00	4.29E-06	0.00E+00	4.34E-06	0.00E+00	4.44E-06
vanadium	2.24E-08	2.47E-05	3.10E-08	2.34E-05	1.73E-08	2.44E-05	1.72E-08	2.51E-05
yttrium	0.00E+00	9.04E-06	0.00E+00	9.04E-06	0.00E+00	9.30E-06	0.00E+00	9.54E-06
zinc	6.58E-07	7.77E-05	8.75E-07	4.25E-05	5.14E-07	4.11E-05	5.13E-07	4.42E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)								
aluminum	1.93E-07	2.43E-02	1.95E-07	2.38E-02	2.03E-07	1.41E-02	2.02E-07	1.94E-02
antimony	1.63E-07	6.27E-06	1.62E-07	6.22E-06	1.67E-07	3.73E-06	1.68E-07	4.93E-06
arsenic	1.11E-07	8.60E-04	1.10E-07	8.46E-04	1.13E-07	4.67E-04	1.14E-07	6.23E-04
barium	7.96E-09	2.56E-04	7.89E-09	2.51E-04	8.14E-09	1.50E-04	8.20E-09	2.07E-04
beryllium	1.46E-11	8.72E-07	1.44E-11	8.56E-07	1.49E-11	5.03E-07	1.50E-11	6.87E-07
bismuth	0.00E+00	2.95E-04	0.00E+00	2.90E-04	0.00E+00	1.69E-04	0.00E+00	2.30E-04
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	4.25E-07	1.94E-05	4.24E-07	1.93E-05	4.39E-07	1.30E-05	4.40E-07	1.37E-05
calcium	0.00E+00	9.47E-03	0.00E+00	9.31E-03	0.00E+00	5.32E-03	0.00E+00	7.20E-03
chromium	2.55E-07	2.80E-05	2.53E-07	2.76E-05	2.62E-07	1.67E-05	2.63E-07	2.22E-05
chromium VI	1.30E-10	8.96E-10	1.29E-10	9.76E-10	1.33E-10	7.12E-10	1.34E-10	7.97E-10
cobalt	2.81E-08	1.09E-04	2.82E-08	1.07E-04	2.94E-08	5.96E-05	2.93E-08	7.91E-05
copper	5.03E-07	7.22E-05	4.99E-07	7.11E-05	5.16E-07	4.24E-05	5.19E-07	5.70E-05
gallium	2.42E-08	3.03E-06	2.43E-08	3.01E-06	2.54E-08	2.01E-06	2.52E-08	2.11E-06
indium	1.45E-07	1.82E-05	1.46E-07	1.81E-05	1.53E-07	1.21E-05	1.51E-07	1.27E-05
iron	1.21E-07	5.31E-02	1.22E-07	5.21E-02	1.27E-07	3.05E-02	1.26E-07	4.16E-02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	5.52E-06	1.33E-05	5.47E-06	1.33E-05	5.65E-06	1.07E-05	5.69E-06	1.16E-05
lithium	0.00E+00	7.28E-06	0.00E+00	7.14E-06	0.00E+00	4.26E-06	0.00E+00	5.86E-06
magnesium	0.00E+00	1.16E-02	0.00E+00	1.14E-02	0.00E+00	6.75E-03	0.00E+00	9.26E-03
manganese	5.75E-08	3.10E-04	5.74E-08	3.04E-04	5.96E-08	1.74E-04	5.96E-08	2.35E-04
mercury	1.44E-07	3.33E-07	1.43E-07	3.52E-07	1.47E-07	2.90E-07	1.48E-07	3.12E-07

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	4.12E-10	2.56E-06	4.09E-10	2.51E-06	4.21E-10	1.45E-06	4.25E-10	1.96E-06
nickel	2.46E-07	7.70E-06	2.44E-07	7.60E-06	2.52E-07	4.55E-06	2.54E-07	6.06E-06
palladium	2.42E-08	3.03E-06	2.43E-08	3.01E-06	2.54E-08	2.01E-06	2.52E-08	2.11E-06
phosphorus	2.91E-08	9.84E-05	2.92E-08	9.65E-05	3.05E-08	5.84E-05	3.04E-08	8.00E-05
potassium	0.00E+00	2.43E-02	0.00E+00	2.38E-02	0.00E+00	1.42E-02	0.00E+00	1.95E-02
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	6.55E-09	2.22E-06	6.50E-09	2.18E-06	6.70E-09	1.30E-06	6.76E-09	1.78E-06
silicon	1.52E-06	1.91E-04	1.53E-06	1.90E-04	1.60E-06	1.27E-04	1.59E-06	1.33E-04
silver	3.23E-08	3.16E-06	3.24E-08	3.13E-06	3.37E-08	2.09E-06	3.36E-08	2.21E-06
sodium	0.00E+00	2.60E-03	0.00E+00	2.55E-03	0.00E+00	1.50E-03	0.00E+00	2.06E-03
strontium	0.00E+00	1.01E-05	0.00E+00	9.86E-06	0.00E+00	5.87E-06	0.00E+00	8.06E-06
thallium	0.00E+00	2.69E-07	0.00E+00	2.63E-07	0.00E+00	1.56E-07	0.00E+00	2.15E-07
tin	0.00E+00	2.82E-06	0.00E+00	2.77E-06	0.00E+00	1.62E-06	0.00E+00	2.21E-06
titanium	0.00E+00	8.26E-04	0.00E+00	8.10E-04	0.00E+00	4.77E-04	0.00E+00	6.53E-04
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.20E-06	0.00E+00	3.14E-06	0.00E+00	1.82E-06	0.00E+00	2.48E-06
vanadium	1.66E-08	1.80E-05	1.65E-08	1.77E-05	1.70E-08	1.05E-05	1.72E-08	1.43E-05
yttrium	0.00E+00	6.85E-06	0.00E+00	6.73E-06	0.00E+00	3.94E-06	0.00E+00	5.39E-06
zinc	5.01E-07	3.64E-05	5.00E-07	3.60E-05	5.18E-07	2.32E-05	5.19E-07	2.70E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Average (µg/m³)						
aluminum	2.77E-07	2.87E-02	2.16E-07	1.74E-02	2.17E-07	2.04E-02
antimony	2.59E-07	7.17E-06	1.82E-07	4.52E-06	1.86E-07	5.19E-06
arsenic	1.76E-07	9.09E-04	1.24E-07	5.51E-04	1.26E-07	6.27E-04
barium	1.27E-08	3.06E-04	8.90E-09	1.85E-04	9.10E-09	2.18E-04
beryllium	2.32E-11	1.01E-06	1.63E-11	6.14E-07	1.67E-11	7.18E-07
bismuth	0.00E+00	3.39E-04	0.00E+00	2.06E-04	0.00E+00	2.39E-04
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	6.54E-07	2.02E-05	4.75E-07	1.44E-05	4.83E-07	1.62E-05
calcium	0.00E+00	1.06E-02	0.00E+00	6.40E-03	0.00E+00	7.40E-03
chromium	4.02E-07	3.27E-05	2.85E-07	2.03E-05	2.91E-07	2.36E-05
chromium VI	2.07E-10	1.05E-09	1.45E-10	8.82E-10	1.49E-10	9.56E-10
cobalt	4.09E-08	1.15E-04	3.13E-08	7.03E-05	3.15E-08	8.01E-05
copper	7.97E-07	8.38E-05	5.63E-07	5.16E-05	5.75E-07	6.01E-05
gallium	3.47E-08	3.14E-06	2.70E-08	2.21E-06	2.71E-08	2.49E-06
indium	2.08E-07	1.88E-05	1.62E-07	1.32E-05	1.63E-07	1.49E-05
iron	1.73E-07	6.12E-02	1.35E-07	3.72E-02	1.35E-07	4.33E-02
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	8.78E-06	1.73E-05	6.17E-06	1.21E-05	6.31E-06	1.31E-05
lithium	0.00E+00	8.65E-06	0.00E+00	5.25E-06	0.00E+00	6.17E-06
magnesium	0.00E+00	1.37E-02	0.00E+00	8.29E-03	0.00E+00	9.72E-03
manganese	8.78E-08	3.45E-04	6.43E-08	2.10E-04	6.53E-08	2.42E-04
mercury	2.29E-07	4.36E-07	1.61E-07	3.43E-07	1.64E-07	3.64E-07

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	6.56E-10	2.89E-06	4.61E-10	1.75E-06	4.71E-10	2.03E-06
nickel	3.92E-07	8.88E-06	2.75E-07	5.51E-06	2.81E-07	6.35E-06
palladium	3.47E-08	3.14E-06	2.70E-08	2.21E-06	2.71E-08	2.49E-06
phosphorus	4.26E-08	1.18E-04	3.25E-08	7.22E-05	3.28E-08	8.50E-05
potassium	0.00E+00	2.89E-02	0.00E+00	1.75E-02	0.00E+00	2.06E-02
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.04E-08	2.62E-06	7.33E-09	1.60E-06	7.49E-09	1.87E-06
silicon	2.18E-06	1.98E-04	1.70E-06	1.39E-04	1.71E-06	1.57E-04
silver	4.76E-08	3.28E-06	3.61E-08	2.30E-06	3.64E-08	2.60E-06
sodium	0.00E+00	3.03E-03	0.00E+00	1.84E-03	0.00E+00	2.15E-03
strontium	0.00E+00	1.19E-05	0.00E+00	7.22E-06	0.00E+00	8.48E-06
thallium	0.00E+00	3.17E-07	0.00E+00	1.92E-07	0.00E+00	2.25E-07
tin	0.00E+00	3.26E-06	0.00E+00	1.98E-06	0.00E+00	2.30E-06
titanium	0.00E+00	9.63E-04	0.00E+00	5.84E-04	0.00E+00	6.83E-04
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.65E-06	0.00E+00	2.21E-06	0.00E+00	2.57E-06
vanadium	2.65E-08	2.11E-05	1.86E-08	1.29E-05	1.90E-08	1.50E-05
yttrium	0.00E+00	7.94E-06	0.00E+00	4.82E-06	0.00E+00	5.62E-06
zinc	7.72E-07	3.99E-05	5.61E-07	2.67E-05	5.70E-07	3.05E-05
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Average (µg/m³)				
aluminum	2.13E-07	3.05E-02	5.17E-07	7.78E+00
antimony	1.87E-07	7.94E-06	1.03E-06	1.65E-03
arsenic	1.27E-07	9.07E-04	7.02E-07	1.99E-01
barium	9.11E-09	3.26E-04	5.05E-08	8.43E-02
beryllium	1.67E-11	1.07E-06	9.24E-11	2.67E-04
bismuth	0.00E+00	3.54E-04	0.00E+00	8.76E-02
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	4.81E-07	3.03E-05	2.17E-06	1.03E-03
calcium	0.00E+00	1.09E-02	0.00E+00	2.58E+00
chromium	2.91E-07	3.63E-05	1.53E-06	7.98E-03
chromium VI	1.49E-10	1.92E-09	8.24E-10	1.01E-07
cobalt	3.11E-08	1.17E-04	8.93E-08	2.51E-02
copper	5.76E-07	9.11E-05	3.11E-06	2.11E-02
gallium	2.66E-08	4.67E-06	6.47E-08	1.58E-04
indium	1.60E-07	2.80E-05	3.88E-07	9.49E-04
iron	1.33E-07	6.43E-02	3.23E-07	1.60E+01
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	6.32E-06	1.85E-05	3.49E-05	1.24E-03
lithium	0.00E+00	9.23E-06	0.00E+00	2.38E-03
magnesium	0.00E+00	1.45E-02	0.00E+00	3.68E+00
manganese	6.49E-08	3.57E-04	2.76E-07	8.40E-02
mercury	1.65E-07	6.02E-07	9.13E-07	2.55E-05

Table 10.III.2-18: Predicted Annual Average Metals Concentrations at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
molybdenum	4.72E-10	3.00E-06	2.61E-09	7.24E-04
nickel	2.82E-07	9.48E-06	1.56E-06	2.11E-03
palladium	2.66E-08	4.67E-06	6.47E-08	1.58E-04
phosphorus	3.23E-08	1.29E-04	9.61E-08	3.26E-02
potassium	0.00E+00	3.08E-02	0.00E+00	7.92E+00
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	7.51E-09	2.79E-06	4.16E-08	6.98E-04
silicon	1.68E-06	2.94E-04	4.07E-06	9.96E-03
silver	3.60E-08	4.84E-06	1.16E-07	1.88E-04
sodium	0.00E+00	3.20E-03	0.00E+00	8.04E-01
strontium	0.00E+00	1.27E-05	0.00E+00	3.25E-03
thallium	0.00E+00	3.36E-07	0.00E+00	8.58E-05
tin	0.00E+00	3.42E-06	0.00E+00	8.49E-04
titanium	0.00E+00	1.02E-03	0.00E+00	2.56E-01
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.81E-06	0.00E+00	9.34E-04
vanadium	1.91E-08	2.25E-05	1.06E-07	5.65E-03
yttrium	0.00E+00	8.35E-06	0.00E+00	2.09E-03
zinc	5.67E-07	5.27E-05	2.56E-06	5.61E-03
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
1234678-H6VDD	2.15E-19	4.17E-19	2.76E-19	1.07E-18	6.80E-19	9.54E-19	1.66E-19	2.66E-19
1234678-H7CDF	4.63E-19	8.97E-19	5.93E-19	2.30E-18	1.46E-18	2.05E-18	3.58E-19	5.71E-19
1234789-H7CDF	1.94E-19	3.76E-19	2.48E-19	9.65E-19	6.12E-19	8.58E-19	1.50E-19	2.39E-19
123478-H6CDD	1.40E-19	2.71E-19	1.79E-19	6.97E-19	4.42E-19	6.20E-19	1.08E-19	1.73E-19
123478-H6CDF	2.03E-18	3.93E-18	2.60E-18	1.01E-17	6.41E-18	8.98E-18	1.57E-18	2.50E-18
123478-P5CDF	3.47E-18	6.73E-18	4.45E-18	1.73E-17	1.10E-17	1.54E-17	2.68E-18	4.28E-18
123678-H6CDD	2.09E-19	4.05E-19	2.68E-19	1.04E-18	6.60E-19	9.25E-19	1.61E-19	2.58E-19
123678-H6CDF	8.48E-19	1.64E-18	1.09E-18	4.22E-18	2.68E-18	3.76E-18	6.56E-19	1.05E-18
123789-H6CDD	3.78E-19	7.33E-19	4.84E-19	1.88E-18	1.19E-18	1.67E-18	2.92E-19	4.66E-19
123789-H6CDF	1.57E-19	3.05E-19	2.01E-19	7.83E-19	4.97E-19	6.96E-19	1.22E-19	1.94E-19
12378-P5CDD	5.11E-19	9.91E-19	6.55E-19	2.55E-18	1.62E-18	2.26E-18	3.95E-19	6.31E-19
12378-P5CDF	1.68E-19	3.26E-19	2.15E-19	8.36E-19	5.31E-19	7.44E-19	1.30E-19	2.07E-19
234678-H6CDF	1.85E-18	3.60E-18	2.38E-18	9.24E-18	5.86E-18	8.22E-18	1.43E-18	2.29E-18
2378-T4CDD	5.40E-19	1.05E-18	6.92E-19	2.69E-18	1.71E-18	2.39E-18	4.18E-19	6.67E-19
2378-T4CDF	1.25E-18	2.42E-18	1.60E-18	6.22E-18	3.95E-18	5.53E-18	9.65E-19	1.54E-18
OCDD	4.98E-19	9.65E-19	6.38E-19	2.48E-18	1.57E-18	2.21E-18	3.85E-19	6.14E-19
OCDF	8.93E-20	1.73E-19	1.14E-19	4.45E-19	2.82E-19	3.96E-19	6.91E-20	1.10E-19

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
1234678-H6VDD	3.14E-19	4.60E-19	1.97E-18	6.71E-17	1.56E-18	1.19E-17	1.63E-18	1.05E-17
1234678-H7CDF	6.75E-19	9.89E-19	4.23E-18	1.44E-16	3.36E-18	2.57E-17	3.51E-18	2.25E-17
1234789-H7CDF	2.83E-19	4.14E-19	1.77E-18	6.04E-17	1.40E-18	1.07E-17	1.47E-18	9.44E-18
123478-H6CDD	2.04E-19	2.99E-19	1.28E-18	4.36E-17	1.01E-18	7.76E-18	1.06E-18	6.81E-18
123478-H6CDF	2.96E-18	4.33E-18	1.85E-17	6.32E-16	1.47E-17	1.12E-16	1.54E-17	9.88E-17
123478-P5CDF	5.06E-18	7.42E-18	3.17E-17	1.08E-15	2.52E-17	1.93E-16	2.63E-17	1.69E-16
123678-H6CDD	3.05E-19	4.46E-19	1.91E-18	6.51E-17	1.51E-18	1.16E-17	1.58E-18	1.02E-17
123678-H6CDF	1.24E-18	1.81E-18	7.74E-18	2.64E-16	6.15E-18	4.71E-17	6.42E-18	4.13E-17
123789-H6CDD	5.51E-19	8.07E-19	3.45E-18	1.18E-16	2.74E-18	2.10E-17	2.86E-18	1.84E-17
123789-H6CDF	2.29E-19	3.36E-19	1.44E-18	4.90E-17	1.14E-18	8.72E-18	1.19E-18	7.65E-18
12378-P5CDD	7.46E-19	1.09E-18	4.67E-18	1.59E-16	3.71E-18	2.84E-17	3.87E-18	2.49E-17
12378-P5CDF	2.45E-19	3.59E-19	1.53E-18	5.23E-17	1.22E-18	9.31E-18	1.27E-18	8.18E-18
234678-H6CDF	2.70E-18	3.96E-18	1.69E-17	5.78E-16	1.34E-17	1.03E-16	1.40E-17	9.03E-17
2378-T4CDD	7.88E-19	1.15E-18	4.93E-18	1.68E-16	3.92E-18	3.00E-17	4.09E-18	2.63E-17
2378-T4CDF	1.82E-18	2.67E-18	1.14E-17	3.89E-16	9.05E-18	6.93E-17	9.46E-18	6.08E-17
OCDD	7.26E-19	1.06E-18	4.55E-18	1.55E-16	3.61E-18	2.76E-17	3.77E-18	2.43E-17
OCDF	1.30E-19	1.91E-19	8.16E-19	2.79E-17	6.48E-19	4.96E-18	6.77E-19	4.35E-18

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
1234678-H6VDD	1.67E-18	1.38E-17	1.67E-18	1.49E-17	1.70E-18	2.66E-17	1.73E-18	1.82E-17
1234678-H7CDF	3.59E-18	2.97E-17	3.60E-18	3.19E-17	3.66E-18	5.72E-17	3.72E-18	3.92E-17
1234789-H7CDF	1.50E-18	1.24E-17	1.51E-18	1.34E-17	1.53E-18	2.39E-17	1.56E-18	1.64E-17
123478-H6CDD	1.08E-18	8.98E-18	1.09E-18	9.66E-18	1.11E-18	1.73E-17	1.12E-18	1.18E-17
123478-H6CDF	1.57E-17	1.30E-16	1.58E-17	1.40E-16	1.60E-17	2.51E-16	1.63E-17	1.72E-16
123478-P5CDF	2.69E-17	2.23E-16	2.70E-17	2.40E-16	2.74E-17	4.29E-16	2.79E-17	2.94E-16
123678-H6CDD	1.62E-18	1.34E-17	1.62E-18	1.44E-17	1.65E-18	2.58E-17	1.68E-18	1.77E-17
123678-H6CDF	6.58E-18	5.44E-17	6.60E-18	5.85E-17	6.70E-18	1.05E-16	6.81E-18	7.18E-17
123789-H6CDD	2.93E-18	2.42E-17	2.94E-18	2.61E-17	2.98E-18	4.67E-17	3.03E-18	3.20E-17
123789-H6CDF	1.22E-18	1.01E-17	1.22E-18	1.08E-17	1.24E-18	1.94E-17	1.26E-18	1.33E-17
12378-P5CDD	3.96E-18	3.28E-17	3.98E-18	3.53E-17	4.04E-18	6.32E-17	4.11E-18	4.33E-17
12378-P5CDF	1.30E-18	1.08E-17	1.31E-18	1.16E-17	1.33E-18	2.07E-17	1.35E-18	1.42E-17
234678-H6CDF	1.44E-17	1.19E-16	1.44E-17	1.28E-16	1.46E-17	2.29E-16	1.49E-17	1.57E-16
2378-T4CDD	4.19E-18	3.47E-17	4.20E-18	3.73E-17	4.27E-18	6.68E-17	4.34E-18	4.57E-17
2378-T4CDF	9.68E-18	8.01E-17	9.71E-18	8.62E-17	9.86E-18	1.54E-16	1.00E-17	1.06E-16
OCDD	3.86E-18	3.20E-17	3.87E-18	3.44E-17	3.93E-18	6.15E-17	4.00E-18	4.21E-17
OCDF	6.93E-19	5.73E-18	6.95E-19	6.16E-18	7.06E-19	1.10E-17	7.18E-19	7.56E-18

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
1234678-H6VDD	1.10E-18	5.06E-18	1.44E-18	5.24E-18	1.49E-18	7.50E-18	1.45E-18	6.83E-18
1234678-H7CDF	2.35E-18	1.09E-17	3.10E-18	1.13E-17	3.20E-18	1.61E-17	3.11E-18	1.47E-17
1234789-H7CDF	9.86E-19	4.55E-18	1.30E-18	4.72E-18	1.34E-18	6.75E-18	1.30E-18	6.15E-18
123478-H6CDD	7.12E-19	3.29E-18	9.37E-19	3.41E-18	9.66E-19	4.88E-18	9.40E-19	4.44E-18
123478-H6CDF	1.03E-17	4.77E-17	1.36E-17	4.94E-17	1.40E-17	7.06E-17	1.36E-17	6.44E-17
123478-P5CDF	1.77E-17	8.16E-17	2.32E-17	8.45E-17	2.40E-17	1.21E-16	2.33E-17	1.10E-16
123678-H6CDD	1.06E-18	4.91E-18	1.40E-18	5.08E-18	1.44E-18	7.27E-18	1.40E-18	6.63E-18
123678-H6CDF	4.31E-18	1.99E-17	5.68E-18	2.06E-17	5.86E-18	2.96E-17	5.70E-18	2.69E-17
123789-H6CDD	1.92E-18	8.88E-18	2.53E-18	9.20E-18	2.61E-18	1.32E-17	2.54E-18	1.20E-17
123789-H6CDF	7.99E-19	3.69E-18	1.05E-18	3.82E-18	1.09E-18	5.48E-18	1.06E-18	4.99E-18
12378-P5CDD	2.60E-18	1.20E-17	3.42E-18	1.24E-17	3.53E-18	1.78E-17	3.43E-18	1.62E-17
12378-P5CDF	8.54E-19	3.95E-18	1.12E-18	4.09E-18	1.16E-18	5.85E-18	1.13E-18	5.33E-18
234678-H6CDF	9.43E-18	4.36E-17	1.24E-17	4.51E-17	1.28E-17	6.46E-17	1.25E-17	5.89E-17
2378-T4CDD	2.75E-18	1.27E-17	3.62E-18	1.32E-17	3.73E-18	1.88E-17	3.63E-18	1.71E-17
2378-T4CDF	6.35E-18	2.94E-17	8.36E-18	3.04E-17	8.62E-18	4.35E-17	8.39E-18	3.96E-17
OCDD	2.53E-18	1.17E-17	3.33E-18	1.21E-17	3.44E-18	1.73E-17	3.34E-18	1.58E-17
OCDF	4.54E-19	2.10E-18	5.98E-19	2.17E-18	6.17E-19	3.11E-18	6.00E-19	2.84E-18

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
1234678-H6VDD	1.39E-18	9.61E-18	1.39E-18	8.57E-18	1.33E-18	7.67E-18	1.42E-18	8.67E-18
1234678-H7CDF	2.99E-18	2.07E-17	2.99E-18	1.84E-17	2.87E-18	1.65E-17	3.04E-18	1.86E-17
1234789-H7CDF	1.25E-18	8.65E-18	1.25E-18	7.72E-18	1.20E-18	6.91E-18	1.27E-18	7.80E-18
123478-H6CDD	9.03E-19	6.25E-18	9.04E-19	5.57E-18	8.68E-19	4.99E-18	9.21E-19	5.64E-18
123478-H6CDF	1.31E-17	9.06E-17	1.31E-17	8.08E-17	1.26E-17	7.23E-17	1.33E-17	8.17E-17
123478-P5CDF	2.24E-17	1.55E-16	2.24E-17	1.38E-16	2.15E-17	1.24E-16	2.28E-17	1.40E-16
123678-H6CDD	1.35E-18	9.32E-18	1.35E-18	8.32E-18	1.29E-18	7.44E-18	1.37E-18	8.41E-18
123678-H6CDF	5.47E-18	3.79E-17	5.48E-18	3.38E-17	5.26E-18	3.02E-17	5.58E-18	3.42E-17
123789-H6CDD	2.44E-18	1.69E-17	2.44E-18	1.50E-17	2.34E-18	1.35E-17	2.49E-18	1.52E-17
123789-H6CDF	1.01E-18	7.02E-18	1.02E-18	6.26E-18	9.74E-19	5.60E-18	1.03E-18	6.33E-18
12378-P5CDD	3.30E-18	2.28E-17	3.30E-18	2.04E-17	3.17E-18	1.82E-17	3.36E-18	2.06E-17
12378-P5CDF	1.08E-18	7.50E-18	1.09E-18	6.69E-18	1.04E-18	5.99E-18	1.10E-18	6.76E-18
234678-H6CDF	1.20E-17	8.28E-17	1.20E-17	7.39E-17	1.15E-17	6.61E-17	1.22E-17	7.47E-17
2378-T4CDD	3.49E-18	2.41E-17	3.49E-18	2.15E-17	3.35E-18	1.93E-17	3.55E-18	2.18E-17
2378-T4CDF	8.05E-18	5.58E-17	8.07E-18	4.97E-17	7.74E-18	4.45E-17	8.21E-18	5.03E-17
OCDD	3.21E-18	2.22E-17	3.22E-18	1.98E-17	3.09E-18	1.77E-17	3.28E-18	2.01E-17
OCDF	5.76E-19	3.99E-18	5.77E-19	3.56E-18	5.54E-19	3.18E-18	5.88E-19	3.60E-18

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)						
1234678-H6VDD	1.34E-18	6.90E-18	1.37E-18	6.44E-18	1.36E-18	5.79E-18
1234678-H7CDF	2.88E-18	1.48E-17	2.94E-18	1.38E-17	2.93E-18	1.24E-17
1234789-H7CDF	1.21E-18	6.21E-18	1.23E-18	5.79E-18	1.23E-18	5.21E-18
123478-H6CDD	8.70E-19	4.48E-18	8.88E-19	4.18E-18	8.85E-19	3.76E-18
123478-H6CDF	1.26E-17	6.50E-17	1.29E-17	6.06E-17	1.28E-17	5.45E-17
123478-P5CDF	2.16E-17	1.11E-16	2.20E-17	1.04E-16	2.20E-17	9.34E-17
123678-H6CDD	1.30E-18	6.69E-18	1.33E-18	6.24E-18	1.32E-18	5.61E-18
123678-H6CDF	5.28E-18	2.72E-17	5.38E-18	2.54E-17	5.37E-18	2.28E-17
123789-H6CDD	2.35E-18	1.21E-17	2.40E-18	1.13E-17	2.39E-18	1.02E-17
123789-H6CDF	9.78E-19	5.03E-18	9.97E-19	4.70E-18	9.94E-19	4.22E-18
12378-P5CDD	3.18E-18	1.64E-17	3.25E-18	1.53E-17	3.24E-18	1.37E-17
12378-P5CDF	1.04E-18	5.38E-18	1.07E-18	5.02E-18	1.06E-18	4.51E-18
234678-H6CDF	1.15E-17	5.94E-17	1.18E-17	5.54E-17	1.17E-17	4.99E-17
2378-T4CDD	3.36E-18	1.73E-17	3.43E-18	1.62E-17	3.42E-18	1.45E-17
2378-T4CDF	7.77E-18	4.00E-17	7.93E-18	3.73E-17	7.90E-18	3.36E-17
OCDD	3.10E-18	1.60E-17	3.16E-18	1.49E-17	3.15E-18	1.34E-17
OCDF	5.56E-19	2.86E-18	5.67E-19	2.67E-18	5.65E-19	2.40E-18

Table 10.III.2-19: Predicted Annual Dioxin/Furan Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary	
	Baseline	Application	Baseline[a]	Application
Annual Wet Deposition (µg/m²/s)				
1234678-H6VDD	1.36E-18	6.62E-18	2.16E-18	7.40E-17
1234678-H7CDF	2.91E-18	1.42E-17	4.64E-18	1.59E-16
1234789-H7CDF	1.22E-18	5.96E-18	1.94E-18	6.66E-17
123478-H6CDD	8.81E-19	4.30E-18	1.40E-18	4.81E-17
123478-H6CDF	1.28E-17	6.24E-17	2.03E-17	6.97E-16
123478-P5CDF	2.19E-17	1.07E-16	3.48E-17	1.19E-15
123678-H6CDD	1.32E-18	6.42E-18	2.09E-18	7.17E-17
123678-H6CDF	5.34E-18	2.61E-17	8.50E-18	2.91E-16
123789-H6CDD	2.38E-18	1.16E-17	3.79E-18	1.30E-16
123789-H6CDF	9.90E-19	4.83E-18	1.57E-18	5.40E-17
12378-P5CDD	3.22E-18	1.57E-17	5.12E-18	1.76E-16
12378-P5CDF	1.06E-18	5.17E-18	1.68E-18	5.77E-17
234678-H6CDF	1.17E-17	5.71E-17	1.86E-17	6.37E-16
2378-T4CDD	3.40E-18	1.66E-17	5.41E-18	1.86E-16
2378-T4CDF	7.86E-18	3.84E-17	1.25E-17	4.29E-16
OCDD	3.14E-18	1.53E-17	4.99E-18	1.71E-16
OCDF	5.63E-19	2.75E-18	8.95E-19	3.07E-17

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m^3 = micrograms per cubic metre.

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
1234678-H6VDD	1.14E-18	3.10E-18	2.40E-18	4.72E-18	1.25E-18	3.56E-18	1.63E-18	2.48E-18
1234678-H7CDF	2.46E-18	6.66E-18	5.16E-18	1.02E-17	2.69E-18	7.65E-18	3.50E-18	5.33E-18
1234789-H7CDF	1.03E-18	2.79E-18	2.16E-18	4.25E-18	1.13E-18	3.20E-18	1.46E-18	2.23E-18
123478-H6CDD	7.42E-19	2.01E-18	1.56E-18	3.07E-18	8.13E-19	2.31E-18	1.06E-18	1.61E-18
123478-H6CDF	1.08E-17	2.92E-17	2.26E-17	4.45E-17	1.18E-17	3.35E-17	1.53E-17	2.33E-17
123478-P5CDF	1.84E-17	4.99E-17	3.87E-17	7.62E-17	2.02E-17	5.74E-17	2.62E-17	4.00E-17
123678-H6CDD	1.11E-18	3.00E-18	2.33E-18	4.58E-18	1.21E-18	3.45E-18	1.58E-18	2.40E-18
123678-H6CDF	4.50E-18	1.22E-17	9.45E-18	1.86E-17	4.93E-18	1.40E-17	6.41E-18	9.76E-18
123789-H6CDD	2.00E-18	5.43E-18	4.21E-18	8.29E-18	2.19E-18	6.24E-18	2.85E-18	4.35E-18
123789-H6CDF	8.34E-19	2.26E-18	1.75E-18	3.45E-18	9.13E-19	2.60E-18	1.19E-18	1.81E-18
12378-P5CDD	2.71E-18	7.35E-18	5.70E-18	1.12E-17	2.97E-18	8.45E-18	3.86E-18	5.88E-18
12378-P5CDF	8.91E-19	2.41E-18	1.87E-18	3.68E-18	9.75E-19	2.78E-18	1.27E-18	1.93E-18
234678-H6CDF	9.84E-18	2.67E-17	2.07E-17	4.07E-17	1.08E-17	3.07E-17	1.40E-17	2.13E-17
2378-T4CDD	2.87E-18	7.77E-18	6.02E-18	1.19E-17	3.14E-18	8.93E-18	4.08E-18	6.22E-18
2378-T4CDF	6.63E-18	1.80E-17	1.39E-17	2.74E-17	7.25E-18	2.06E-17	9.43E-18	1.44E-17
OCDD	2.64E-18	7.16E-18	5.55E-18	1.09E-17	2.89E-18	8.23E-18	3.76E-18	5.73E-18
OCDF	4.74E-19	1.28E-18	9.96E-19	1.96E-18	5.19E-19	1.48E-18	6.75E-19	1.03E-18

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
1234678-H6VDD	1.29E-18	3.00E-18	7.26E-18	1.29E-16	3.30E-18	1.60E-17	3.41E-18	1.61E-17
1234678-H7CDF	2.77E-18	6.46E-18	1.56E-17	2.77E-16	7.09E-18	3.44E-17	7.34E-18	3.45E-17
1234789-H7CDF	1.16E-18	2.70E-18	6.53E-18	1.16E-16	2.97E-18	1.44E-17	3.07E-18	1.45E-17
123478-H6CDD	8.38E-19	1.95E-18	4.72E-18	8.37E-17	2.14E-18	1.04E-17	2.22E-18	1.04E-17
123478-H6CDF	1.21E-17	2.83E-17	6.84E-17	1.21E-15	3.10E-17	1.51E-16	3.22E-17	1.51E-16
123478-P5CDF	2.08E-17	4.84E-17	1.17E-16	2.08E-15	5.32E-17	2.58E-16	5.51E-17	2.59E-16
123678-H6CDD	1.25E-18	2.91E-18	7.04E-18	1.25E-16	3.20E-18	1.55E-17	3.31E-18	1.56E-17
123678-H6CDF	5.08E-18	1.18E-17	2.86E-17	5.07E-16	1.30E-17	6.30E-17	1.35E-17	6.33E-17
123789-H6CDD	2.26E-18	5.27E-18	1.27E-17	2.26E-16	5.78E-18	2.81E-17	5.99E-18	2.82E-17
123789-H6CDF	9.41E-19	2.19E-18	5.30E-18	9.40E-17	2.41E-18	1.17E-17	2.49E-18	1.17E-17
12378-P5CDD	3.06E-18	7.13E-18	1.72E-17	3.06E-16	7.83E-18	3.80E-17	8.11E-18	3.81E-17
12378-P5CDF	1.01E-18	2.34E-18	5.66E-18	1.00E-16	2.57E-18	1.25E-17	2.66E-18	1.25E-17
234678-H6CDF	1.11E-17	2.59E-17	6.25E-17	1.11E-15	2.84E-17	1.38E-16	2.94E-17	1.38E-16
2378-T4CDD	3.24E-18	7.54E-18	1.82E-17	3.23E-16	8.27E-18	4.01E-17	8.57E-18	4.03E-17
2378-T4CDF	7.48E-18	1.74E-17	4.21E-17	7.47E-16	1.91E-17	9.28E-17	1.98E-17	9.32E-17
OCDD	2.98E-18	6.95E-18	1.68E-17	2.98E-16	7.62E-18	3.70E-17	7.90E-18	3.71E-17
OCDF	5.35E-19	1.25E-18	3.01E-18	5.34E-17	1.37E-18	6.64E-18	1.42E-18	6.67E-18

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
1234678-H6VDD	3.46E-18	1.95E-17	3.47E-18	2.05E-17	3.51E-18	2.22E-17	3.54E-18	2.02E-17
1234678-H7CDF	7.44E-18	4.19E-17	7.46E-18	4.40E-17	7.55E-18	4.77E-17	7.62E-18	4.34E-17
1234789-H7CDF	3.12E-18	1.75E-17	3.12E-18	1.84E-17	3.16E-18	2.00E-17	3.19E-18	1.82E-17
123478-H6CDD	2.25E-18	1.27E-17	2.26E-18	1.33E-17	2.28E-18	1.44E-17	2.30E-18	1.31E-17
123478-H6CDF	3.26E-17	1.83E-16	3.27E-17	1.93E-16	3.31E-17	2.09E-16	3.34E-17	1.90E-16
123478-P5CDF	5.58E-17	3.14E-16	5.60E-17	3.30E-16	5.67E-17	3.58E-16	5.72E-17	3.25E-16
123678-H6CDD	3.36E-18	1.89E-17	3.37E-18	1.99E-17	3.41E-18	2.15E-17	3.44E-18	1.96E-17
123678-H6CDF	1.36E-17	7.67E-17	1.37E-17	8.07E-17	1.38E-17	8.75E-17	1.40E-17	7.95E-17
123789-H6CDD	6.08E-18	3.42E-17	6.09E-18	3.59E-17	6.16E-18	3.90E-17	6.22E-18	3.54E-17
123789-H6CDF	2.53E-18	1.42E-17	2.53E-18	1.49E-17	2.56E-18	1.62E-17	2.59E-18	1.47E-17
12378-P5CDD	8.22E-18	4.62E-17	8.24E-18	4.86E-17	8.34E-18	5.27E-17	8.42E-18	4.79E-17
12378-P5CDF	2.70E-18	1.52E-17	2.71E-18	1.60E-17	2.74E-18	1.73E-17	2.77E-18	1.57E-17
234678-H6CDF	2.98E-17	1.68E-16	2.99E-17	1.76E-16	3.03E-17	1.91E-16	3.05E-17	1.74E-16
2378-T4CDD	8.69E-18	4.89E-17	8.71E-18	5.14E-17	8.82E-18	5.57E-17	8.90E-18	5.06E-17
2378-T4CDF	2.01E-17	1.13E-16	2.01E-17	1.19E-16	2.04E-17	1.29E-16	2.06E-17	1.17E-16
OCDD	8.01E-18	4.50E-17	8.03E-18	4.74E-17	8.12E-18	5.13E-17	8.20E-18	4.67E-17
OCDF	1.44E-18	8.08E-18	1.44E-18	8.50E-18	1.46E-18	9.21E-18	1.47E-18	8.37E-18

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
1234678-H6VDD	3.94E-18	6.15E-17	5.45E-18	1.35E-17	3.03E-18	1.38E-17	3.02E-18	1.45E-17
1234678-H7CDF	8.46E-18	1.32E-16	1.17E-17	2.90E-17	6.52E-18	2.98E-17	6.49E-18	3.11E-17
1234789-H7CDF	3.54E-18	5.53E-17	4.90E-18	1.21E-17	2.73E-18	1.25E-17	2.72E-18	1.30E-17
123478-H6CDD	2.56E-18	4.00E-17	3.54E-18	8.77E-18	1.97E-18	9.00E-18	1.96E-18	9.41E-18
123478-H6CDF	3.71E-17	5.79E-16	5.13E-17	1.27E-16	2.86E-17	1.30E-16	2.84E-17	1.36E-16
123478-P5CDF	6.35E-17	9.92E-16	8.79E-17	2.18E-16	4.89E-17	2.23E-16	4.87E-17	2.34E-16
123678-H6CDD	3.82E-18	5.97E-17	5.28E-18	1.31E-17	2.94E-18	1.34E-17	2.93E-18	1.40E-17
123678-H6CDF	1.55E-17	2.42E-16	2.15E-17	5.32E-17	1.20E-17	5.46E-17	1.19E-17	5.71E-17
123789-H6CDD	6.91E-18	1.08E-16	9.56E-18	2.37E-17	5.32E-18	2.43E-17	5.30E-18	2.54E-17
123789-H6CDF	2.87E-18	4.49E-17	3.98E-18	9.85E-18	2.21E-18	1.01E-17	2.20E-18	1.06E-17
12378-P5CDD	9.35E-18	1.46E-16	1.29E-17	3.20E-17	7.20E-18	3.29E-17	7.17E-18	3.44E-17
12378-P5CDF	3.07E-18	4.80E-17	4.25E-18	1.05E-17	2.37E-18	1.08E-17	2.36E-18	1.13E-17
234678-H6CDF	3.39E-17	5.30E-16	4.69E-17	1.16E-16	2.61E-17	1.19E-16	2.60E-17	1.25E-16
2378-T4CDD	9.88E-18	1.54E-16	1.37E-17	3.39E-17	7.61E-18	3.48E-17	7.58E-18	3.63E-17
2378-T4CDF	2.28E-17	3.57E-16	3.16E-17	7.83E-17	1.76E-17	8.03E-17	1.75E-17	8.40E-17
OCDD	9.10E-18	1.42E-16	1.26E-17	3.12E-17	7.02E-18	3.20E-17	6.98E-18	3.35E-17
OCDF	1.63E-18	2.55E-17	2.26E-18	5.60E-18	1.26E-18	5.75E-18	1.25E-18	6.01E-18

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
1234678-H6VDD	2.93E-18	1.17E-17	2.90E-18	1.26E-17	2.99E-18	9.63E-18	3.02E-18	1.06E-17
1234678-H7CDF	6.29E-18	2.52E-17	6.24E-18	2.71E-17	6.43E-18	2.07E-17	6.48E-18	2.28E-17
1234789-H7CDF	2.63E-18	1.05E-17	2.61E-18	1.14E-17	2.69E-18	8.66E-18	2.71E-18	9.55E-18
123478-H6CDD	1.90E-18	7.62E-18	1.89E-18	8.20E-18	1.95E-18	6.26E-18	1.96E-18	6.90E-18
123478-H6CDF	2.76E-17	1.10E-16	2.73E-17	1.19E-16	2.82E-17	9.07E-17	2.84E-17	1.00E-16
123478-P5CDF	4.72E-17	1.89E-16	4.68E-17	2.04E-16	4.83E-17	1.55E-16	4.87E-17	1.71E-16
123678-H6CDD	2.84E-18	1.14E-17	2.81E-18	1.22E-17	2.90E-18	9.34E-18	2.93E-18	1.03E-17
123678-H6CDF	1.15E-17	4.62E-17	1.14E-17	4.97E-17	1.18E-17	3.79E-17	1.19E-17	4.18E-17
123789-H6CDD	5.14E-18	2.06E-17	5.09E-18	2.21E-17	5.25E-18	1.69E-17	5.29E-18	1.86E-17
123789-H6CDF	2.14E-18	8.55E-18	2.12E-18	9.21E-18	2.18E-18	7.03E-18	2.20E-18	7.75E-18
12378-P5CDD	6.95E-18	2.78E-17	6.89E-18	3.00E-17	7.11E-18	2.29E-17	7.16E-18	2.52E-17
12378-P5CDF	2.28E-18	9.14E-18	2.26E-18	9.84E-18	2.33E-18	7.51E-18	2.35E-18	8.28E-18
234678-H6CDF	2.52E-17	1.01E-16	2.50E-17	1.09E-16	2.58E-17	8.29E-17	2.60E-17	9.14E-17
2378-T4CDD	7.34E-18	2.94E-17	7.28E-18	3.17E-17	7.51E-18	2.42E-17	7.57E-18	2.66E-17
2378-T4CDF	1.70E-17	6.80E-17	1.68E-17	7.32E-17	1.74E-17	5.58E-17	1.75E-17	6.16E-17
OCDD	6.77E-18	2.71E-17	6.71E-18	2.92E-17	6.92E-18	2.23E-17	6.98E-18	2.46E-17
OCDF	1.21E-18	4.86E-18	1.20E-18	5.24E-18	1.24E-18	4.00E-18	1.25E-18	4.41E-18

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)						
1234678-H6VDD	4.66E-18	1.43E-17	3.27E-18	1.17E-17	3.35E-18	1.26E-17
1234678-H7CDF	1.00E-17	3.07E-17	7.04E-18	2.52E-17	7.19E-18	2.71E-17
1234789-H7CDF	4.19E-18	1.29E-17	2.95E-18	1.05E-17	3.01E-18	1.13E-17
123478-H6CDD	3.03E-18	9.29E-18	2.13E-18	7.62E-18	2.18E-18	8.20E-18
123478-H6CDF	4.39E-17	1.35E-16	3.08E-17	1.10E-16	3.15E-17	1.19E-16
123478-P5CDF	7.51E-17	2.30E-16	5.28E-17	1.89E-16	5.40E-17	2.03E-16
123678-H6CDD	4.52E-18	1.39E-17	3.18E-18	1.14E-17	3.25E-18	1.22E-17
123678-H6CDF	1.84E-17	5.63E-17	1.29E-17	4.62E-17	1.32E-17	4.97E-17
123789-H6CDD	8.17E-18	2.51E-17	5.75E-18	2.06E-17	5.87E-18	2.21E-17
123789-H6CDF	3.40E-18	1.04E-17	2.39E-18	8.55E-18	2.44E-18	9.20E-18
12378-P5CDD	1.11E-17	3.39E-17	7.78E-18	2.78E-17	7.95E-18	2.99E-17
12378-P5CDF	3.63E-18	1.11E-17	2.55E-18	9.14E-18	2.61E-18	9.84E-18
234678-H6CDF	4.01E-17	1.23E-16	2.82E-17	1.01E-16	2.88E-17	1.09E-16
2378-T4CDD	1.17E-17	3.59E-17	8.22E-18	2.94E-17	8.40E-18	3.16E-17
2378-T4CDF	2.70E-17	8.29E-17	1.90E-17	6.79E-17	1.94E-17	7.31E-17
OCDD	1.08E-17	3.30E-17	7.57E-18	2.71E-17	7.74E-18	2.92E-17
OCDF	1.93E-18	5.93E-18	1.36E-18	4.86E-18	1.39E-18	5.23E-18

Table 10.III.2-20: Predicted Annual Dioxin/Furan Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)				
1234678-H6VDD	3.35E-18	2.37E-17	1.86E-17	1.16E-15
1234678-H7CDF	7.21E-18	5.09E-17	3.99E-17	2.50E-15
1234789-H7CDF	3.02E-18	2.13E-17	1.67E-17	1.05E-15
123478-H6CDD	2.18E-18	1.54E-17	1.21E-17	7.57E-16
123478-H6CDF	3.16E-17	2.23E-16	1.75E-16	1.10E-14
123478-P5CDF	5.41E-17	3.82E-16	3.00E-16	1.88E-14
123678-H6CDD	3.25E-18	2.30E-17	1.80E-17	1.13E-15
123678-H6CDF	1.32E-17	9.32E-17	7.32E-17	4.59E-15
123789-H6CDD	5.88E-18	4.15E-17	3.26E-17	2.04E-15
123789-H6CDF	2.45E-18	1.73E-17	1.36E-17	8.50E-16
12378-P5CDD	7.96E-18	5.62E-17	4.41E-17	2.77E-15
12378-P5CDF	2.61E-18	1.85E-17	1.45E-17	9.08E-16
234678-H6CDF	2.89E-17	2.04E-16	1.60E-16	1.00E-14
2378-T4CDD	8.41E-18	5.94E-17	4.66E-17	2.92E-15
2378-T4CDF	1.94E-17	1.37E-16	1.08E-16	6.75E-15
OCDD	7.75E-18	5.47E-17	4.30E-17	2.69E-15
OCDF	1.39E-18	9.82E-18	7.71E-18	4.83E-16

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m²/s = micrograms per square metre per second.

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
1234678-H6VDD	1.36E-18	3.51E-18	2.68E-18	5.79E-18	1.93E-18	4.51E-18	1.79E-18	2.74E-18
1234678-H7CDF	2.92E-18	7.55E-18	5.75E-18	1.25E-17	4.15E-18	9.70E-18	3.86E-18	5.90E-18
1234789-H7CDF	1.22E-18	3.16E-18	2.41E-18	5.21E-18	1.74E-18	4.06E-18	1.61E-18	2.47E-18
123478-H6CDD	8.82E-19	2.28E-18	1.74E-18	3.77E-18	1.25E-18	2.93E-18	1.17E-18	1.78E-18
123478-H6CDF	1.28E-17	3.31E-17	2.52E-17	5.46E-17	1.82E-17	4.25E-17	1.69E-17	2.58E-17
123478-P5CDF	2.19E-17	5.67E-17	4.31E-17	9.34E-17	3.11E-17	7.28E-17	2.89E-17	4.42E-17
123678-H6CDD	1.32E-18	3.41E-18	2.59E-18	5.62E-18	1.87E-18	4.38E-18	1.74E-18	2.66E-18
123678-H6CDF	5.35E-18	1.38E-17	1.05E-17	2.28E-17	7.61E-18	1.78E-17	7.06E-18	1.08E-17
123789-H6CDD	2.38E-18	6.17E-18	4.69E-18	1.02E-17	3.39E-18	7.92E-18	3.15E-18	4.81E-18
123789-H6CDF	9.91E-19	2.56E-18	1.95E-18	4.23E-18	1.41E-18	3.29E-18	1.31E-18	2.00E-18
12378-P5CDD	3.22E-18	8.34E-18	6.35E-18	1.38E-17	4.58E-18	1.07E-17	4.26E-18	6.51E-18
12378-P5CDF	1.06E-18	2.74E-18	2.09E-18	4.52E-18	1.51E-18	3.52E-18	1.40E-18	2.14E-18
234678-H6CDF	1.17E-17	3.03E-17	2.30E-17	4.99E-17	1.66E-17	3.89E-17	1.54E-17	2.36E-17
2378-T4CDD	3.41E-18	8.82E-18	6.71E-18	1.45E-17	4.85E-18	1.13E-17	4.50E-18	6.88E-18
2378-T4CDF	7.87E-18	2.04E-17	1.55E-17	3.36E-17	1.12E-17	2.62E-17	1.04E-17	1.59E-17
OCDD	3.14E-18	8.13E-18	6.19E-18	1.34E-17	4.46E-18	1.04E-17	4.15E-18	6.34E-18
OCDF	5.63E-19	1.46E-18	1.11E-18	2.40E-18	8.01E-19	1.87E-18	7.44E-19	1.14E-18

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
1234678-H6VDD	1.60E-18	3.46E-18	9.22E-18	1.96E-16	4.86E-18	2.79E-17	5.04E-18	2.65E-17
1234678-H7CDF	3.45E-18	7.44E-18	1.98E-17	4.21E-16	1.04E-17	6.01E-17	1.08E-17	5.71E-17
1234789-H7CDF	1.44E-18	3.12E-18	8.30E-18	1.76E-16	4.37E-18	2.51E-17	4.54E-18	2.39E-17
123478-H6CDD	1.04E-18	2.25E-18	6.00E-18	1.27E-16	3.16E-18	1.82E-17	3.28E-18	1.73E-17
123478-H6CDF	1.51E-17	3.26E-17	8.69E-17	1.84E-15	4.58E-17	2.63E-16	4.75E-17	2.50E-16
123478-P5CDF	2.59E-17	5.59E-17	1.49E-16	3.16E-15	7.83E-17	4.51E-16	8.14E-17	4.28E-16
123678-H6CDD	1.56E-18	3.36E-18	8.95E-18	1.90E-16	4.71E-18	2.71E-17	4.89E-18	2.57E-17
123678-H6CDF	6.32E-18	1.36E-17	3.63E-17	7.72E-16	1.91E-17	1.10E-16	1.99E-17	1.05E-16
123789-H6CDD	2.81E-18	6.08E-18	1.62E-17	3.44E-16	8.52E-18	4.90E-17	8.85E-18	4.66E-17
123789-H6CDF	1.17E-18	2.53E-18	6.73E-18	1.43E-16	3.55E-18	2.04E-17	3.68E-18	1.94E-17
12378-P5CDD	3.81E-18	8.22E-18	2.19E-17	4.65E-16	1.15E-17	6.63E-17	1.20E-17	6.30E-17
12378-P5CDF	1.25E-18	2.70E-18	7.20E-18	1.53E-16	3.79E-18	2.18E-17	3.93E-18	2.07E-17
234678-H6CDF	1.38E-17	2.98E-17	7.95E-17	1.69E-15	4.18E-17	2.41E-16	4.35E-17	2.29E-16
2378-T4CDD	4.02E-18	8.69E-18	2.32E-17	4.92E-16	1.22E-17	7.01E-17	1.27E-17	6.66E-17
2378-T4CDF	9.30E-18	2.01E-17	5.35E-17	1.14E-15	2.82E-17	1.62E-16	2.93E-17	1.54E-16
OCDD	3.71E-18	8.01E-18	2.13E-17	4.53E-16	1.12E-17	6.46E-17	1.17E-17	6.14E-17
OCDF	6.65E-19	1.44E-18	3.83E-18	8.13E-17	2.02E-18	1.16E-17	2.09E-18	1.10E-17

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
1234678-H6VDD	5.13E-18	3.33E-17	5.15E-18	3.53E-17	5.21E-18	4.88E-17	5.27E-18	3.84E-17
1234678-H7CDF	1.10E-17	7.16E-17	1.11E-17	7.60E-17	1.12E-17	1.05E-16	1.13E-17	8.26E-17
1234789-H7CDF	4.62E-18	3.00E-17	4.63E-18	3.18E-17	4.69E-18	4.39E-17	4.75E-18	3.46E-17
123478-H6CDD	3.34E-18	2.16E-17	3.34E-18	2.30E-17	3.39E-18	3.17E-17	3.43E-18	2.50E-17
123478-H6CDF	4.83E-17	3.14E-16	4.85E-17	3.33E-16	4.91E-17	4.60E-16	4.97E-17	3.62E-16
123478-P5CDF	8.28E-17	5.37E-16	8.30E-17	5.70E-16	8.41E-17	7.87E-16	8.51E-17	6.19E-16
123678-H6CDD	4.98E-18	3.23E-17	4.99E-18	3.43E-17	5.06E-18	4.73E-17	5.12E-18	3.72E-17
123678-H6CDF	2.02E-17	1.31E-16	2.03E-17	1.39E-16	2.05E-17	1.92E-16	2.08E-17	1.51E-16
123789-H6CDD	9.01E-18	5.84E-17	9.03E-18	6.20E-17	9.15E-18	8.56E-17	9.26E-18	6.74E-17
123789-H6CDF	3.75E-18	2.43E-17	3.76E-18	2.58E-17	3.81E-18	3.56E-17	3.85E-18	2.80E-17
12378-P5CDD	1.22E-17	7.91E-17	1.22E-17	8.39E-17	1.24E-17	1.16E-16	1.25E-17	9.12E-17
12378-P5CDF	4.00E-18	2.60E-17	4.01E-18	2.76E-17	4.07E-18	3.81E-17	4.11E-18	2.99E-17
234678-H6CDF	4.42E-17	2.87E-16	4.43E-17	3.04E-16	4.49E-17	4.20E-16	4.54E-17	3.31E-16
2378-T4CDD	1.29E-17	8.36E-17	1.29E-17	8.87E-17	1.31E-17	1.22E-16	1.32E-17	9.64E-17
2378-T4CDF	2.98E-17	1.93E-16	2.98E-17	2.05E-16	3.02E-17	2.83E-16	3.06E-17	2.23E-16
OCDD	1.19E-17	7.70E-17	1.19E-17	8.17E-17	1.21E-17	1.13E-16	1.22E-17	8.88E-17
OCDF	2.13E-18	1.38E-17	2.14E-18	1.47E-17	2.16E-18	2.02E-17	2.19E-18	1.59E-17

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
1234678-H6VDD	5.03E-18	6.66E-17	6.89E-18	1.87E-17	4.52E-18	2.13E-17	4.47E-18	2.13E-17
1234678-H7CDF	1.08E-17	1.43E-16	1.48E-17	4.03E-17	9.72E-18	4.59E-17	9.60E-18	4.58E-17
1234789-H7CDF	4.53E-18	5.99E-17	6.20E-18	1.69E-17	4.07E-18	1.92E-17	4.02E-18	1.92E-17
123478-H6CDD	3.27E-18	4.33E-17	4.48E-18	1.22E-17	2.94E-18	1.39E-17	2.90E-18	1.39E-17
123478-H6CDF	4.74E-17	6.27E-16	6.49E-17	1.76E-16	4.26E-17	2.01E-16	4.21E-17	2.01E-16
123478-P5CDF	8.11E-17	1.07E-15	1.11E-16	3.02E-16	7.29E-17	3.44E-16	7.20E-17	3.44E-16
123678-H6CDD	4.88E-18	6.46E-17	6.68E-18	1.82E-17	4.38E-18	2.07E-17	4.33E-18	2.07E-17
123678-H6CDF	1.98E-17	2.62E-16	2.71E-17	7.38E-17	1.78E-17	8.41E-17	1.76E-17	8.40E-17
123789-H6CDD	8.83E-18	1.17E-16	1.21E-17	3.29E-17	7.93E-18	3.75E-17	7.84E-18	3.74E-17
123789-H6CDF	3.67E-18	4.86E-17	5.03E-18	1.37E-17	3.30E-18	1.56E-17	3.26E-18	1.56E-17
12378-P5CDD	1.19E-17	1.58E-16	1.64E-17	4.45E-17	1.07E-17	5.07E-17	1.06E-17	5.06E-17
12378-P5CDF	3.92E-18	5.19E-17	5.37E-18	1.46E-17	3.53E-18	1.66E-17	3.48E-18	1.66E-17
234678-H6CDF	4.33E-17	5.73E-16	5.93E-17	1.61E-16	3.89E-17	1.84E-16	3.85E-17	1.84E-16
2378-T4CDD	1.26E-17	1.67E-16	1.73E-17	4.70E-17	1.13E-17	5.36E-17	1.12E-17	5.35E-17
2378-T4CDF	2.92E-17	3.86E-16	3.99E-17	1.09E-16	2.62E-17	1.24E-16	2.59E-17	1.24E-16
OCDD	1.16E-17	1.54E-16	1.59E-17	4.33E-17	1.05E-17	4.94E-17	1.03E-17	4.93E-17
OCDF	2.09E-18	2.76E-17	2.86E-18	7.77E-18	1.88E-18	8.86E-18	1.85E-18	8.85E-18

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
1234678-H6VDD	4.31E-18	2.13E-17	4.29E-18	2.12E-17	4.33E-18	1.73E-17	4.43E-18	1.93E-17
1234678-H7CDF	9.28E-18	4.59E-17	9.23E-18	4.56E-17	9.30E-18	3.72E-17	9.53E-18	4.15E-17
1234789-H7CDF	3.88E-18	1.92E-17	3.86E-18	1.91E-17	3.89E-18	1.56E-17	3.99E-18	1.74E-17
123478-H6CDD	2.80E-18	1.39E-17	2.79E-18	1.38E-17	2.81E-18	1.12E-17	2.88E-18	1.25E-17
123478-H6CDF	4.06E-17	2.01E-16	4.04E-17	2.00E-16	4.08E-17	1.63E-16	4.18E-17	1.82E-16
123478-P5CDF	6.96E-17	3.44E-16	6.92E-17	3.42E-16	6.98E-17	2.79E-16	7.15E-17	3.11E-16
123678-H6CDD	4.19E-18	2.07E-17	4.16E-18	2.06E-17	4.20E-18	1.68E-17	4.30E-18	1.87E-17
123678-H6CDF	1.70E-17	8.40E-17	1.69E-17	8.35E-17	1.71E-17	6.82E-17	1.75E-17	7.60E-17
123789-H6CDD	7.57E-18	3.74E-17	7.53E-18	3.72E-17	7.60E-18	3.04E-17	7.78E-18	3.38E-17
123789-H6CDF	3.15E-18	1.56E-17	3.13E-18	1.55E-17	3.16E-18	1.26E-17	3.24E-18	1.41E-17
12378-P5CDD	1.02E-17	5.07E-17	1.02E-17	5.03E-17	1.03E-17	4.11E-17	1.05E-17	4.58E-17
12378-P5CDF	3.37E-18	1.66E-17	3.35E-18	1.65E-17	3.38E-18	1.35E-17	3.46E-18	1.50E-17
234678-H6CDF	3.72E-17	1.84E-16	3.70E-17	1.83E-16	3.73E-17	1.49E-16	3.82E-17	1.66E-16
2378-T4CDD	1.08E-17	5.35E-17	1.08E-17	5.32E-17	1.09E-17	4.34E-17	1.11E-17	4.84E-17
2378-T4CDF	2.50E-17	1.24E-16	2.49E-17	1.23E-16	2.51E-17	1.00E-16	2.57E-17	1.12E-16
OCDD	9.98E-18	4.93E-17	9.93E-18	4.90E-17	1.00E-17	4.00E-17	1.03E-17	4.46E-17
OCDF	1.79E-18	8.85E-18	1.78E-18	8.80E-18	1.80E-18	7.18E-18	1.84E-18	8.00E-18

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)						
1234678-H6VDD	6.00E-18	2.12E-17	4.64E-18	1.82E-17	4.71E-18	1.84E-17
1234678-H7CDF	1.29E-17	4.55E-17	9.98E-18	3.90E-17	1.01E-17	3.96E-17
1234789-H7CDF	5.40E-18	1.91E-17	4.18E-18	1.63E-17	4.24E-18	1.66E-17
123478-H6CDD	3.90E-18	1.38E-17	3.02E-18	1.18E-17	3.06E-18	1.20E-17
123478-H6CDF	5.65E-17	2.00E-16	4.37E-17	1.71E-16	4.44E-17	1.73E-16
123478-P5CDF	9.67E-17	3.42E-16	7.48E-17	2.93E-16	7.59E-17	2.97E-16
123678-H6CDD	5.82E-18	2.05E-17	4.50E-18	1.76E-17	4.57E-18	1.78E-17
123678-H6CDF	2.36E-17	8.35E-17	1.83E-17	7.15E-17	1.86E-17	7.25E-17
123789-H6CDD	1.05E-17	3.72E-17	8.14E-18	3.19E-17	8.26E-18	3.23E-17
123789-H6CDF	4.38E-18	1.55E-17	3.39E-18	1.33E-17	3.44E-18	1.34E-17
12378-P5CDD	1.42E-17	5.03E-17	1.10E-17	4.31E-17	1.12E-17	4.37E-17
12378-P5CDF	4.68E-18	1.65E-17	3.62E-18	1.42E-17	3.67E-18	1.43E-17
234678-H6CDF	5.17E-17	1.82E-16	4.00E-17	1.56E-16	4.06E-17	1.58E-16
2378-T4CDD	1.51E-17	5.32E-17	1.16E-17	4.56E-17	1.18E-17	4.62E-17
2378-T4CDF	3.48E-17	1.23E-16	2.69E-17	1.05E-16	2.73E-17	1.07E-16
OCDD	1.39E-17	4.90E-17	1.07E-17	4.20E-17	1.09E-17	4.26E-17
OCDF	2.49E-18	8.79E-18	1.93E-18	7.53E-18	1.95E-18	7.63E-18

Table 10.III.2-21: Predicted Annual Dioxin/Furan Total Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)				
1234678-H6VDD	4.71E-18	3.03E-17	2.05E-17	1.19E-15
1234678-H7CDF	1.01E-17	6.51E-17	4.40E-17	2.57E-15
1234789-H7CDF	4.24E-18	2.73E-17	1.84E-17	1.08E-15
123478-H6CDD	3.06E-18	1.97E-17	1.33E-17	7.76E-16
123478-H6CDF	4.43E-17	2.85E-16	1.93E-16	1.13E-14
123478-P5CDF	7.59E-17	4.89E-16	3.30E-16	1.93E-14
123678-H6CDD	4.57E-18	2.94E-17	1.99E-17	1.16E-15
123678-H6CDF	1.85E-17	1.19E-16	8.07E-17	4.71E-15
123789-H6CDD	8.26E-18	5.32E-17	3.59E-17	2.10E-15
123789-H6CDF	3.44E-18	2.21E-17	1.49E-17	8.72E-16
12378-P5CDD	1.12E-17	7.19E-17	4.86E-17	2.84E-15
12378-P5CDF	3.67E-18	2.36E-17	1.60E-17	9.32E-16
234678-H6CDF	4.06E-17	2.61E-16	1.76E-16	1.03E-14
2378-T4CDD	1.18E-17	7.60E-17	5.14E-17	3.00E-15
2378-T4CDF	2.73E-17	1.76E-16	1.19E-16	6.93E-15
OCDD	1.09E-17	7.01E-17	4.74E-17	2.76E-15
OCDF	1.95E-18	1.26E-17	8.50E-18	4.96E-16

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

µg/m²/s = micrograms per square metre per second.

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	1.38E-10	0.00E+00	6.58E-10	0.00E+00	1.72E-10	0.00E+00	7.14E-11
Acenapthene	1.57E-07	1.57E-07	2.61E-08	2.62E-08	3.61E-12	3.61E-11	1.25E-12	1.33E-11
Acenapthylene	3.10E-07	3.10E-07	5.15E-08	5.17E-08	7.11E-12	7.68E-11	2.45E-12	2.85E-11
Anthracene	4.13E-08	4.14E-08	6.87E-09	6.90E-09	9.48E-13	1.26E-11	3.27E-13	4.78E-12
Benzo(a)anthracene	2.09E-08	2.09E-08	3.47E-09	3.49E-09	4.80E-13	4.87E-12	1.66E-13	1.80E-12
Benzo(a)pyrene	4.32E-09	4.32E-09	7.17E-10	7.24E-10	9.94E-14	1.99E-12	3.43E-14	7.80E-13
Benzo(b+k)fluoranthene	4.10E-08	4.10E-08	6.81E-09	6.85E-09	9.40E-13	1.33E-11	3.25E-13	5.08E-12
Benzo(g,h,i)perylene	9.35E-09	9.35E-09	1.55E-09	1.56E-09	2.15E-13	3.63E-12	7.41E-14	1.40E-12
Chrysene	5.14E-08	5.14E-08	8.54E-09	8.57E-09	1.18E-12	1.13E-11	4.07E-13	4.13E-12
Dibenzo(a,h)anthracene	5.82E-09	5.82E-09	9.66E-10	9.72E-10	1.34E-13	1.97E-12	4.62E-14	7.54E-13
Fluoranthene	1.35E-07	1.36E-07	2.25E-08	2.26E-08	3.11E-12	3.74E-11	1.07E-12	1.41E-11
Fluorene	4.30E-07	4.30E-07	7.15E-08	7.18E-08	9.86E-12	1.08E-10	3.40E-12	4.01E-11
Indeno(1,2,3-c,d)pyrene	6.96E-09	6.96E-09	1.16E-09	1.16E-09	1.60E-13	1.93E-12	5.53E-14	7.26E-13
Naphthalene	4.37E-06	4.37E-06	7.26E-07	7.29E-07	1.00E-10	1.17E-09	3.46E-11	4.38E-10
Phenanthrene	1.37E-06	1.37E-06	2.28E-07	2.29E-07	3.14E-11	3.21E-10	1.09E-11	1.18E-10
Pyrene	1.25E-07	1.25E-07	2.07E-08	2.08E-08	2.86E-12	3.90E-11	9.87E-13	1.48E-11

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	1.02E-10	0.00E+00	2.13E-08	0.00E+00	1.22E-08	0.00E+00	1.57E-08
Acenapthene	1.64E-12	1.91E-11	7.44E-12	4.77E-09	6.60E-12	1.52E-09	6.76E-12	1.43E-09
Acenapthylene	3.23E-12	4.09E-11	1.46E-11	1.01E-08	1.30E-11	3.39E-09	1.33E-11	3.33E-09
Anthracene	4.31E-13	6.84E-12	1.95E-12	1.64E-09	1.73E-12	6.19E-10	1.78E-12	6.59E-10
Benzo(a)anthracene	2.19E-13	2.58E-12	9.90E-13	6.44E-10	8.79E-13	2.07E-10	9.00E-13	1.97E-10
Benzo(a)pyrene	4.52E-14	1.11E-12	2.05E-13	2.55E-10	1.82E-13	1.13E-10	1.86E-13	1.31E-10
Benzo(b+k)fluoranthene	4.28E-13	7.27E-12	1.94E-12	1.73E-09	1.72E-12	6.72E-10	1.76E-12	7.29E-10
Benzo(g,h,i)perylene	9.78E-14	2.01E-12	4.44E-13	4.67E-10	3.94E-13	1.95E-10	4.03E-13	2.20E-10
Chrysene	5.37E-13	5.93E-12	2.43E-12	1.50E-09	2.16E-12	4.59E-10	2.21E-12	4.21E-10
Dibenzo(a,h)anthracene	6.09E-14	1.08E-12	2.76E-13	2.55E-10	2.45E-13	1.01E-10	2.51E-13	1.11E-10
Fluoranthene	1.41E-12	2.02E-11	6.40E-12	4.90E-09	5.69E-12	1.76E-09	5.82E-12	1.81E-09
Fluorene	4.49E-12	5.76E-11	2.03E-11	1.42E-08	1.80E-11	4.79E-09	1.85E-11	4.75E-09
Indeno(1,2,3-c,d)pyrene	7.29E-14	1.04E-12	3.31E-13	2.53E-10	2.94E-13	9.08E-11	3.01E-13	9.38E-11
Naphthalene	4.57E-11	6.29E-10	2.07E-10	1.53E-07	1.84E-10	5.40E-08	1.88E-10	5.50E-08
Phenanthrene	1.43E-11	1.70E-10	6.48E-11	4.24E-08	5.75E-11	1.37E-08	5.89E-11	1.31E-08
Pyrene	1.30E-12	2.13E-11	5.89E-12	5.07E-09	5.23E-12	1.94E-09	5.36E-12	2.08E-09

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	2.45E-08	0.00E+00	2.54E-08	0.00E+00	2.42E-08	0.00E+00	2.02E-08
Acenapthene	6.84E-12	2.00E-09	6.86E-12	2.08E-09	6.94E-12	3.62E-09	7.05E-12	2.61E-09
Acenapthylene	1.35E-11	4.75E-09	1.35E-11	4.93E-09	1.37E-11	7.93E-09	1.39E-11	5.80E-09
Anthracene	1.80E-12	9.69E-10	1.80E-12	1.01E-09	1.82E-12	1.39E-09	1.85E-12	1.05E-09
Benzo(a)anthracene	9.11E-13	2.77E-10	9.13E-13	2.88E-10	9.24E-13	4.92E-10	9.38E-13	3.55E-10
Benzo(a)pyrene	1.89E-13	1.98E-10	1.89E-13	2.05E-10	1.91E-13	2.40E-10	1.94E-13	1.89E-10
Benzo(b+k)fluoranthene	1.78E-12	1.08E-09	1.79E-12	1.12E-09	1.81E-12	1.49E-09	1.84E-12	1.14E-09
Benzo(g,h,i)perylene	4.08E-13	3.30E-10	4.09E-13	3.43E-10	4.14E-13	4.24E-10	4.20E-13	3.29E-10
Chrysene	2.24E-12	5.82E-10	2.24E-12	6.05E-10	2.27E-12	1.11E-09	2.30E-12	7.93E-10
Dibenzo(a,h)anthracene	2.54E-13	1.65E-10	2.55E-13	1.71E-10	2.58E-13	2.23E-10	2.62E-13	1.71E-10
Fluoranthene	5.89E-12	2.63E-09	5.90E-12	2.73E-09	5.98E-12	4.01E-09	6.07E-12	2.99E-09
Fluorene	1.87E-11	6.78E-09	1.87E-11	7.05E-09	1.90E-11	1.12E-08	1.92E-11	8.21E-09
Indeno(1,2,3-c,d)pyrene	3.04E-13	1.36E-10	3.05E-13	1.42E-10	3.09E-13	2.07E-10	3.13E-13	1.55E-10
Naphthalene	1.90E-10	7.95E-08	1.91E-10	8.26E-08	1.93E-10	1.24E-07	1.96E-10	9.22E-08
Phenanthrene	5.96E-11	1.84E-08	5.97E-11	1.91E-08	6.04E-11	3.25E-08	6.14E-11	2.35E-08
Pyrene	5.42E-12	3.07E-09	5.43E-12	3.19E-09	5.50E-12	4.33E-09	5.58E-12	3.29E-09

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	2.91E-09	0.00E+00	5.18E-09	0.00E+00	8.01E-09	0.00E+00	6.87E-09
Acenapthene	5.64E-12	5.34E-10	6.44E-12	6.16E-10	6.47E-12	9.42E-10	6.39E-12	9.19E-10
Acenapthylene	1.11E-11	1.15E-09	1.27E-11	1.38E-09	1.27E-11	2.12E-09	1.26E-11	2.03E-09
Anthracene	1.48E-12	1.93E-10	1.69E-12	2.55E-10	1.70E-12	3.92E-10	1.68E-12	3.65E-10
Benzo(a)anthracene	7.51E-13	7.22E-11	8.57E-13	8.41E-11	8.60E-13	1.29E-10	8.50E-13	1.25E-10
Benzo(a)pyrene	1.55E-13	3.16E-11	1.78E-13	4.70E-11	1.78E-13	7.24E-11	1.76E-13	6.52E-11
Benzo(b+k)fluoranthene	1.47E-12	2.05E-10	1.68E-12	2.78E-10	1.68E-12	4.27E-10	1.67E-12	3.95E-10
Benzo(g,h,i)perylene	3.36E-13	5.68E-11	3.84E-13	8.12E-11	3.85E-13	1.25E-10	3.81E-13	1.14E-10
Chrysene	1.84E-12	1.66E-10	2.11E-12	1.86E-10	2.11E-12	2.84E-10	2.09E-12	2.80E-10
Dibenzo(a,h)anthracene	2.09E-13	3.05E-11	2.39E-13	4.19E-11	2.40E-13	6.43E-11	2.37E-13	5.93E-11
Fluoranthene	4.86E-12	5.67E-10	5.55E-12	7.21E-10	5.57E-12	1.11E-09	5.50E-12	1.04E-09
Fluorene	1.54E-11	1.61E-09	1.76E-11	1.96E-09	1.77E-11	3.00E-09	1.75E-11	2.88E-09
Indeno(1,2,3-c,d)pyrene	2.51E-13	2.93E-11	2.86E-13	3.73E-11	2.87E-13	5.72E-11	2.84E-13	5.40E-11
Naphthalene	1.57E-10	1.77E-08	1.79E-10	2.21E-08	1.80E-10	3.39E-08	1.78E-10	3.22E-08
Phenanthrene	4.91E-11	4.76E-09	5.61E-11	5.56E-09	5.63E-11	8.51E-09	5.56E-11	8.27E-09
Pyrene	4.47E-12	5.99E-10	5.11E-12	8.01E-10	5.12E-12	1.23E-09	5.06E-12	1.14E-09

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	7.33E-09	0.00E+00	8.16E-09	0.00E+00	6.81E-09	0.00E+00	6.99E-09
Acenapthene	6.31E-12	1.19E-09	6.35E-12	1.18E-09	6.40E-12	9.96E-10	6.49E-12	1.01E-09
Acenapthylene	1.24E-11	2.59E-09	1.25E-11	2.60E-09	1.26E-11	2.18E-09	1.28E-11	2.21E-09
Anthracene	1.66E-12	4.45E-10	1.67E-12	4.58E-10	1.68E-12	3.85E-10	1.70E-12	3.91E-10
Benzo(a)anthracene	8.40E-13	1.61E-10	8.45E-13	1.61E-10	8.52E-13	1.35E-10	8.63E-13	1.37E-10
Benzo(a)pyrene	1.74E-13	7.53E-11	1.75E-13	7.99E-11	1.76E-13	6.70E-11	1.79E-13	6.83E-11
Benzo(b+k)fluoranthene	1.64E-12	4.76E-10	1.66E-12	4.93E-10	1.67E-12	4.14E-10	1.69E-12	4.21E-10
Benzo(g,h,i)perylene	3.76E-13	1.34E-10	3.78E-13	1.41E-10	3.81E-13	1.18E-10	3.86E-13	1.20E-10
Chrysene	2.06E-12	3.68E-10	2.08E-12	3.62E-10	2.09E-12	3.05E-10	2.12E-12	3.08E-10
Dibenzo(a,h)anthracene	2.34E-13	7.11E-11	2.36E-13	7.38E-11	2.38E-13	6.19E-11	2.41E-13	6.30E-11
Fluoranthene	5.43E-12	1.30E-09	5.47E-12	1.32E-09	5.51E-12	1.11E-09	5.58E-12	1.12E-09
Fluorene	1.72E-11	3.65E-09	1.74E-11	3.67E-09	1.75E-11	3.09E-09	1.77E-11	3.12E-09
Indeno(1,2,3-c,d)pyrene	2.80E-13	6.69E-11	2.82E-13	6.82E-11	2.84E-13	5.73E-11	2.88E-13	5.81E-11
Naphthalene	1.76E-10	4.02E-08	1.77E-10	4.08E-08	1.78E-10	3.43E-08	1.80E-10	3.48E-08
Phenanthrene	5.49E-11	1.07E-08	5.53E-11	1.06E-08	5.58E-11	8.94E-09	5.65E-11	9.04E-09
Pyrene	5.00E-12	1.39E-09	5.03E-12	1.43E-09	5.07E-12	1.20E-09	5.14E-12	1.22E-09

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)						
2-Methylnaphthalene	0.00E+00	4.41E-09	0.00E+00	3.97E-09	0.00E+00	4.04E-09
Acenapthene	6.44E-12	7.35E-10	6.45E-12	6.45E-10	6.39E-12	6.15E-10
Acenapthylene	1.27E-11	1.59E-09	1.27E-11	1.40E-09	1.26E-11	1.34E-09
Anthracene	1.69E-12	2.73E-10	1.69E-12	2.41E-10	1.68E-12	2.35E-10
Benzo(a)anthracene	8.57E-13	9.96E-11	8.59E-13	8.74E-11	8.51E-13	8.35E-11
Benzo(a)pyrene	1.77E-13	4.59E-11	1.78E-13	4.08E-11	1.76E-13	4.04E-11
Benzo(b+k)fluoranthene	1.68E-12	2.91E-10	1.68E-12	2.58E-10	1.67E-12	2.52E-10
Benzo(g,h,i)perylene	3.84E-13	8.17E-11	3.84E-13	7.25E-11	3.81E-13	7.14E-11
Chrysene	2.11E-12	2.27E-10	2.11E-12	1.99E-10	2.09E-12	1.89E-10
Dibenzo(a,h)anthracene	2.39E-13	4.35E-11	2.39E-13	3.85E-11	2.37E-13	3.77E-11
Fluoranthene	5.55E-12	7.95E-10	5.55E-12	7.01E-10	5.50E-12	6.79E-10
Fluorene	1.76E-11	2.24E-09	1.76E-11	1.97E-09	1.75E-11	1.90E-09
Indeno(1,2,3-c,d)pyrene	2.86E-13	4.11E-11	2.87E-13	3.62E-11	2.84E-13	3.51E-11
Naphthalene	1.79E-10	2.47E-08	1.79E-10	2.18E-08	1.78E-10	2.10E-08
Phenanthrene	5.61E-11	6.57E-09	5.62E-11	5.77E-09	5.57E-11	5.52E-09
Pyrene	5.11E-12	8.49E-10	5.11E-12	7.51E-10	5.07E-12	7.32E-10

Table 10.III.2-22: Predicted Annual PAH Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)				
2-Methylnaphthalene	0.00E+00	3.74E-09	0.00E+00	5.40E-08
Acenapthene	6.26E-12	6.72E-10	7.85E-12	9.65E-09
Acenapthylene	1.23E-11	1.45E-09	1.54E-11	2.03E-08
Anthracene	1.64E-12	2.44E-10	2.06E-12	3.26E-09
Benzo(a)anthracene	8.33E-13	9.09E-11	1.04E-12	1.30E-09
Benzo(a)pyrene	1.72E-13	4.02E-11	2.16E-13	5.10E-10
Benzo(b+k)fluoranthene	1.63E-12	2.60E-10	2.05E-12	3.43E-09
Benzo(g,h,i)perylene	3.73E-13	7.22E-11	4.68E-13	9.29E-10
Chrysene	2.04E-12	2.09E-10	2.56E-12	3.04E-09
Dibenzo(a,h)anthracene	2.32E-13	3.87E-11	2.91E-13	5.07E-10
Fluoranthene	5.39E-12	7.17E-10	6.76E-12	9.78E-09
Fluorene	1.71E-11	2.04E-09	2.14E-11	2.85E-08
Indeno(1,2,3-c,d)pyrene	2.78E-13	3.70E-11	3.49E-13	5.04E-10
Naphthalene	1.74E-10	2.23E-08	2.18E-10	3.07E-07
Phenanthrene	5.45E-11	6.00E-09	6.83E-11	8.56E-08
Pyrene	4.96E-12	7.59E-10	6.22E-12	1.01E-08

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PAH = polycyclic aromatic hydrocarbon; µg/m²/s = micrograms per square metre per second.

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	2.04E-09	0.00E+00	2.87E-09	0.00E+00	3.00E-09	0.00E+00	6.11E-10
Acenapthene	1.76E-10	4.69E-10	7.94E-11	5.27E-10	2.57E-11	4.19E-10	1.10E-11	9.74E-11
Acenapthylene	3.46E-10	9.91E-10	1.57E-10	1.13E-09	5.08E-11	9.24E-10	2.17E-11	2.12E-10
Anthracene	4.61E-11	1.60E-10	2.09E-11	1.90E-10	6.76E-12	1.64E-10	2.90E-12	3.66E-11
Benzo(a)anthracene	2.33E-11	6.32E-11	1.06E-11	7.12E-11	3.42E-12	5.70E-11	1.47E-12	1.32E-11
Benzo(a)pyrene	4.82E-12	2.47E-11	2.18E-12	3.11E-11	7.07E-13	2.90E-11	3.04E-13	6.23E-12
Benzo(b+k)fluoranthene	4.57E-11	1.68E-10	2.07E-11	2.02E-10	6.71E-12	1.77E-10	2.88E-12	3.92E-11
Benzo(g,h,i)perylene	1.04E-11	4.54E-11	4.72E-12	5.60E-11	1.53E-12	5.07E-11	6.57E-13	1.10E-11
Chrysene	5.74E-11	1.47E-10	2.60E-11	1.64E-10	8.41E-12	1.28E-10	3.61E-12	3.00E-11
Dibenzo(a,h)anthracene	6.49E-12	2.49E-11	2.94E-12	3.00E-11	9.52E-13	2.66E-11	4.09E-13	5.85E-12
Fluoranthene	1.51E-10	4.79E-10	6.84E-11	5.59E-10	2.22E-11	4.71E-10	9.50E-12	1.06E-10
Fluorene	4.80E-10	1.39E-09	2.17E-10	1.59E-09	7.04E-11	1.31E-09	3.02E-11	2.99E-10
Indeno(1,2,3-c,d)pyrene	7.77E-12	2.47E-11	3.51E-12	2.89E-11	1.14E-12	2.44E-11	4.90E-13	5.50E-12
Naphthalene	4.88E-09	1.50E-08	2.21E-09	1.74E-08	7.15E-10	1.46E-08	3.07E-10	3.30E-09
Phenanthrene	1.53E-09	4.16E-09	6.92E-10	4.70E-09	2.24E-10	3.77E-09	9.61E-11	8.72E-10
Pyrene	1.39E-10	4.95E-10	6.29E-11	5.91E-10	2.04E-11	5.14E-10	8.75E-12	1.14E-10

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	1.89E-09	0.00E+00	1.04E-06	0.00E+00	6.24E-08	0.00E+00	5.00E-08
Acenapthene	1.43E-11	2.80E-10	7.07E-11	1.62E-07	4.12E-11	4.40E-09	4.13E-11	3.27E-09
Acenapthylene	2.81E-11	6.14E-10	1.39E-10	3.54E-07	8.12E-11	1.07E-08	8.14E-11	8.07E-09
Anthracene	3.74E-12	1.08E-10	1.86E-11	6.14E-08	1.08E-11	2.28E-09	1.09E-11	1.76E-09
Benzo(a)anthracene	1.89E-12	3.80E-11	9.41E-12	2.20E-08	5.48E-12	6.10E-10	5.49E-12	4.55E-10
Benzo(a)pyrene	3.92E-13	1.87E-11	1.95E-12	1.05E-08	1.13E-12	4.83E-10	1.14E-12	3.81E-10
Benzo(b+k)fluoranthene	3.71E-12	1.16E-10	1.84E-11	6.58E-08	1.07E-11	2.56E-09	1.08E-11	1.98E-09
Benzo(g,h,i)perylene	8.48E-13	3.29E-11	4.21E-12	1.86E-08	2.45E-12	7.98E-10	2.46E-12	6.25E-10
Chrysene	4.66E-12	8.59E-11	2.31E-11	4.99E-08	1.35E-11	1.25E-09	1.35E-11	9.19E-10
Dibenzo(a,h)anthracene	5.28E-13	1.73E-11	2.62E-12	9.83E-09	1.53E-12	3.92E-10	1.53E-12	3.05E-10
Fluoranthene	1.23E-11	3.11E-10	6.09E-11	1.78E-07	3.55E-11	6.08E-09	3.56E-11	4.65E-09
Fluorene	3.90E-11	8.66E-10	1.93E-10	4.99E-07	1.13E-10	1.53E-08	1.13E-10	1.16E-08
Indeno(1,2,3-c,d)pyrene	6.32E-13	1.61E-11	3.14E-12	9.19E-09	1.83E-12	3.15E-10	1.83E-12	2.42E-10
Naphthalene	3.96E-10	9.62E-09	1.97E-09	5.52E-06	1.15E-09	1.83E-07	1.15E-09	1.39E-07
Phenanthrene	1.24E-10	2.51E-09	6.16E-10	1.45E-06	3.59E-10	4.07E-08	3.60E-10	3.04E-08
Pyrene	1.13E-11	3.36E-10	5.61E-11	1.91E-07	3.27E-11	7.25E-09	3.27E-11	5.61E-09

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	6.03E-08	0.00E+00	6.05E-08	0.00E+00	5.77E-08	0.00E+00	5.05E-08
Acenapthene	4.13E-11	4.19E-09	4.12E-11	4.28E-09	4.08E-11	4.76E-09	4.03E-11	4.16E-09
Acenapthylene	8.13E-11	1.02E-08	8.12E-11	1.04E-08	8.04E-11	1.13E-08	7.94E-11	9.84E-09
Anthracene	1.08E-11	2.19E-09	1.08E-11	2.21E-09	1.07E-11	2.29E-09	1.06E-11	2.00E-09
Benzo(a)anthracene	5.49E-12	5.82E-10	5.48E-12	5.94E-10	5.43E-12	6.57E-10	5.36E-12	5.74E-10
Benzo(a)pyrene	1.13E-12	4.66E-10	1.13E-12	4.69E-10	1.12E-12	4.66E-10	1.11E-12	4.08E-10
Benzo(b+k)fluoranthene	1.08E-11	2.46E-09	1.07E-11	2.48E-09	1.06E-11	2.55E-09	1.05E-11	2.23E-09
Benzo(g,h,i)perylene	2.45E-12	7.68E-10	2.45E-12	7.75E-10	2.43E-12	7.80E-10	2.40E-12	6.82E-10
Chrysene	1.35E-11	1.19E-09	1.35E-11	1.22E-09	1.33E-11	1.38E-09	1.32E-11	1.21E-09
Dibenzo(a,h)anthracene	1.53E-12	3.77E-10	1.52E-12	3.81E-10	1.51E-12	3.89E-10	1.49E-12	3.40E-10
Fluoranthene	3.55E-11	5.83E-09	3.55E-11	5.91E-09	3.51E-11	6.22E-09	3.47E-11	5.44E-09
Fluorene	1.13E-10	1.47E-08	1.13E-10	1.49E-08	1.12E-10	1.61E-08	1.10E-10	1.41E-08
Indeno(1,2,3-c,d)pyrene	1.83E-12	3.02E-10	1.82E-12	3.07E-10	1.81E-12	3.23E-10	1.79E-12	2.82E-10
Naphthalene	1.15E-09	1.75E-07	1.14E-09	1.78E-07	1.13E-09	1.88E-07	1.12E-09	1.65E-07
Phenanthrene	3.60E-10	3.88E-08	3.59E-10	3.96E-08	3.56E-10	4.37E-08	3.51E-10	3.82E-08
Pyrene	3.27E-11	6.97E-09	3.26E-11	7.04E-09	3.23E-11	7.26E-09	3.19E-11	6.35E-09

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	5.73E-08	0.00E+00	5.46E-08	0.00E+00	5.16E-08	0.00E+00	5.56E-08
Acenapthene	4.82E-11	1.04E-08	5.91E-11	4.37E-09	3.86E-11	3.92E-09	3.86E-11	4.42E-09
Acenapthylene	9.50E-11	2.24E-08	1.16E-10	1.04E-08	7.60E-11	9.40E-09	7.62E-11	1.05E-08
Anthracene	1.27E-11	3.78E-09	1.55E-11	2.13E-09	1.01E-11	1.96E-09	1.02E-11	2.16E-09
Benzo(a)anthracene	6.41E-12	1.41E-09	7.86E-12	6.04E-10	5.13E-12	5.43E-10	5.14E-12	6.10E-10
Benzo(a)pyrene	1.33E-12	6.20E-10	1.62E-12	4.38E-10	1.06E-12	4.08E-10	1.06E-12	4.44E-10
Benzo(b+k)fluoranthene	1.26E-11	4.02E-09	1.54E-11	2.38E-09	1.00E-11	2.19E-09	1.01E-11	2.41E-09
Benzo(g,h,i)perylene	2.87E-12	1.11E-09	3.51E-12	7.30E-10	2.29E-12	6.77E-10	2.30E-12	7.41E-10
Chrysene	1.58E-11	3.24E-09	1.93E-11	1.27E-09	1.26E-11	1.13E-09	1.26E-11	1.28E-09
Dibenzo(a,h)anthracene	1.78E-12	5.97E-10	2.19E-12	3.63E-10	1.43E-12	3.35E-10	1.43E-12	3.68E-10
Fluoranthene	4.15E-11	1.11E-08	5.09E-11	5.78E-09	3.32E-11	5.28E-09	3.33E-11	5.85E-09
Fluorene	1.32E-10	3.16E-08	1.62E-10	1.49E-08	1.05E-10	1.35E-08	1.06E-10	1.50E-08
Indeno(1,2,3-c,d)pyrene	2.14E-12	5.73E-10	2.62E-12	2.99E-10	1.71E-12	2.74E-10	1.71E-12	3.03E-10
Naphthalene	1.34E-09	3.46E-07	1.64E-09	1.75E-07	1.07E-09	1.59E-07	1.07E-09	1.77E-07
Phenanthrene	4.20E-10	9.32E-08	5.15E-10	4.02E-08	3.36E-10	3.61E-08	3.37E-10	4.06E-08
Pyrene	3.82E-11	1.17E-08	4.68E-11	6.77E-09	3.06E-11	6.23E-09	3.06E-11	6.86E-09

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	4.89E-08	0.00E+00	4.93E-08	0.00E+00	3.73E-08	0.00E+00	4.31E-08
Acenapthene	3.83E-11	4.02E-09	3.85E-11	3.98E-09	4.02E-11	2.63E-09	4.00E-11	2.72E-09
Acenapthylene	7.55E-11	9.52E-09	7.59E-11	9.45E-09	7.93E-11	6.39E-09	7.88E-11	6.76E-09
Anthracene	1.01E-11	1.94E-09	1.01E-11	1.94E-09	1.06E-11	1.36E-09	1.05E-11	1.49E-09
Benzo(a)anthracene	5.10E-12	5.55E-10	5.12E-12	5.50E-10	5.35E-12	3.65E-10	5.32E-12	3.80E-10
Benzo(a)pyrene	1.05E-12	3.95E-10	1.06E-12	3.96E-10	1.11E-12	2.89E-10	1.10E-12	3.25E-10
Benzo(b+k)fluoranthene	9.98E-12	2.16E-09	1.00E-11	2.15E-09	1.05E-11	1.53E-09	1.04E-11	1.68E-09
Benzo(g,h,i)perylene	2.28E-12	6.60E-10	2.29E-12	6.61E-10	2.39E-12	4.77E-10	2.38E-12	5.32E-10
Chrysene	1.25E-11	1.17E-09	1.26E-11	1.15E-09	1.31E-11	7.48E-10	1.31E-11	7.61E-10
Dibenzo(a,h)anthracene	1.42E-12	3.29E-10	1.43E-12	3.29E-10	1.49E-12	2.35E-10	1.48E-12	2.59E-10
Fluoranthene	3.30E-11	5.26E-09	3.32E-11	5.24E-09	3.46E-11	3.63E-09	3.44E-11	3.93E-09
Fluorene	1.05E-10	1.36E-08	1.05E-10	1.35E-08	1.10E-10	9.16E-09	1.09E-10	9.73E-09
Indeno(1,2,3-c,d)pyrene	1.70E-12	2.73E-10	1.71E-12	2.72E-10	1.78E-12	1.89E-10	1.77E-12	2.04E-10
Naphthalene	1.07E-09	1.59E-07	1.07E-09	1.59E-07	1.12E-09	1.09E-07	1.11E-09	1.17E-07
Phenanthrene	3.34E-10	3.69E-08	3.36E-10	3.66E-08	3.51E-10	2.43E-08	3.49E-10	2.53E-08
Pyrene	3.04E-11	6.14E-09	3.05E-11	6.13E-09	3.19E-11	4.33E-09	3.17E-11	4.76E-09

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)						
2-Methylnaphthalene	0.00E+00	6.17E-08	0.00E+00	4.22E-08	0.00E+00	4.62E-08
Acenapthene	5.54E-11	4.06E-09	4.28E-11	2.87E-09	4.30E-11	3.25E-09
Acenapthylene	1.09E-10	1.00E-08	8.43E-11	7.02E-09	8.48E-11	7.90E-09
Anthracene	1.46E-11	2.18E-09	1.12E-11	1.51E-09	1.13E-11	1.69E-09
Benzo(a)anthracene	7.37E-12	5.65E-10	5.69E-12	3.99E-10	5.72E-12	4.51E-10
Benzo(a)pyrene	1.52E-12	4.70E-10	1.18E-12	3.24E-10	1.18E-12	3.58E-10
Benzo(b+k)fluoranthene	1.44E-11	2.45E-09	1.11E-11	1.70E-09	1.12E-11	1.89E-09
Benzo(g,h,i)perylene	3.30E-12	7.72E-10	2.54E-12	5.34E-10	2.56E-12	5.91E-10
Chrysene	1.81E-11	1.14E-09	1.40E-11	8.12E-10	1.41E-11	9.23E-10
Dibenzo(a,h)anthracene	2.05E-12	3.77E-10	1.58E-12	2.62E-10	1.59E-12	2.90E-10
Fluoranthene	4.77E-11	5.77E-09	3.68E-11	4.02E-09	3.71E-11	4.50E-09
Fluorene	1.52E-10	1.44E-08	1.17E-10	1.01E-08	1.18E-10	1.13E-08
Indeno(1,2,3-c,d)pyrene	2.46E-12	2.99E-10	1.90E-12	2.09E-10	1.91E-12	2.33E-10
Naphthalene	1.54E-09	1.73E-07	1.19E-09	1.21E-07	1.20E-09	1.35E-07
Phenanthrene	4.83E-10	3.77E-08	3.73E-10	2.66E-08	3.75E-10	3.00E-08
Pyrene	4.40E-11	6.94E-09	3.39E-11	4.82E-09	3.41E-11	5.36E-09

Table 10.III.2-23: Predicted Annual PAH Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)				
2-Methylnaphthalene	0.00E+00	6.29E-08	0.00E+00	3.80E-06
Acenapthene	4.24E-11	6.31E-09	1.13E-10	1.97E-07
Acenapthylene	8.35E-11	1.45E-08	2.23E-10	5.12E-07
Anthracene	1.11E-11	2.79E-09	2.98E-11	1.20E-07
Benzo(a)anthracene	5.64E-12	8.65E-10	1.51E-11	2.78E-08
Benzo(a)pyrene	1.17E-12	5.39E-10	3.12E-12	2.75E-08
Benzo(b+k)fluoranthene	1.10E-11	3.07E-09	2.95E-11	1.37E-07
Benzo(g,h,i)perylene	2.52E-12	9.16E-10	6.75E-12	4.44E-08
Chrysene	1.39E-11	1.88E-09	3.71E-11	5.43E-08
Dibenzo(a,h)anthracene	1.57E-12	4.65E-10	4.20E-12	2.13E-08
Fluoranthene	3.65E-11	7.75E-09	9.76E-11	3.09E-07
Fluorene	1.16E-10	2.06E-08	3.10E-10	7.40E-07
Indeno(1,2,3-c,d)pyrene	1.88E-12	4.01E-10	5.03E-12	1.61E-08
Naphthalene	1.18E-09	2.36E-07	3.15E-09	9.16E-06
Phenanthrene	3.69E-10	5.74E-08	9.88E-10	1.86E-06
Pyrene	3.36E-11	8.80E-09	8.99E-11	3.86E-07

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PAH = polycyclic aromatic hydrocarbon; µg/m²/s = gram per square metre per second.

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	2.18E-09	0.00E+00	3.53E-09	0.00E+00	3.17E-09	0.00E+00	6.82E-10
Acenapthene	1.57E-07	1.58E-07	2.62E-08	2.68E-08	2.94E-11	4.55E-10	1.23E-11	1.11E-10
Acenapthylene	3.11E-07	3.11E-07	5.17E-08	5.29E-08	5.79E-11	1.00E-09	2.42E-11	2.40E-10
Anthracene	4.14E-08	4.15E-08	6.89E-09	7.09E-09	7.71E-12	1.77E-10	3.23E-12	4.14E-11
Benzo(a)anthracene	2.09E-08	2.10E-08	3.48E-09	3.56E-09	3.90E-12	6.18E-11	1.63E-12	1.50E-11
Benzo(a)pyrene	4.32E-09	4.35E-09	7.20E-10	7.55E-10	8.07E-13	3.10E-11	3.38E-13	7.01E-12
Benzo(b+k)fluoranthene	4.10E-08	4.12E-08	6.83E-09	7.05E-09	7.65E-12	1.90E-10	3.20E-12	4.43E-11
Benzo(g,h,i)perylene	9.36E-09	9.39E-09	1.56E-09	1.62E-09	1.75E-12	5.44E-11	7.31E-13	1.24E-11
Chrysene	5.15E-08	5.16E-08	8.57E-09	8.74E-09	9.59E-12	1.39E-10	4.01E-12	3.41E-11
Dibenzo(a,h)anthracene	5.82E-09	5.84E-09	9.69E-10	1.00E-09	1.09E-12	2.85E-11	4.55E-13	6.61E-12
Fluoranthene	1.36E-07	1.36E-07	2.26E-08	2.32E-08	2.53E-11	5.09E-10	1.06E-11	1.20E-10
Fluorene	4.31E-07	4.32E-07	7.17E-08	7.34E-08	8.02E-11	1.41E-09	3.36E-11	3.39E-10
Indeno(1,2,3-c,d)pyrene	6.97E-09	6.98E-09	1.16E-09	1.19E-09	1.30E-12	2.63E-11	5.45E-13	6.22E-12
Naphthalene	4.37E-06	4.39E-06	7.28E-07	7.47E-07	8.16E-10	1.57E-08	3.42E-10	3.74E-09
Phenanthrene	1.37E-06	1.38E-06	2.28E-07	2.33E-07	2.56E-10	4.09E-09	1.07E-10	9.90E-10
Pyrene	1.25E-07	1.25E-07	2.08E-08	2.14E-08	2.33E-11	5.53E-10	9.73E-12	1.29E-10

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	1.99E-09	0.00E+00	1.06E-06	0.00E+00	7.46E-08	0.00E+00	6.57E-08
Acenapthene	1.59E-11	2.99E-10	7.82E-11	1.67E-07	4.78E-11	5.91E-09	4.81E-11	4.70E-09
Acenapthylene	3.13E-11	6.55E-10	1.54E-10	3.64E-07	9.42E-11	1.41E-08	9.47E-11	1.14E-08
Anthracene	4.18E-12	1.15E-10	2.05E-11	6.30E-08	1.26E-11	2.90E-09	1.26E-11	2.42E-09
Benzo(a)anthracene	2.11E-12	4.06E-11	1.04E-11	2.26E-08	6.36E-12	8.17E-10	6.39E-12	6.52E-10
Benzo(a)pyrene	4.37E-13	1.98E-11	2.15E-12	1.08E-08	1.31E-12	5.96E-10	1.32E-12	5.11E-10
Benzo(b+k)fluoranthene	4.14E-12	1.23E-10	2.04E-11	6.75E-08	1.25E-11	3.23E-09	1.25E-11	2.71E-09
Benzo(g,h,i)perylene	9.45E-13	3.49E-11	4.65E-12	1.91E-08	2.84E-12	9.93E-10	2.86E-12	8.45E-10
Chrysene	5.19E-12	9.18E-11	2.56E-11	5.14E-08	1.56E-11	1.71E-09	1.57E-11	1.34E-09
Dibenzo(a,h)anthracene	5.88E-13	1.84E-11	2.90E-12	1.01E-08	1.77E-12	4.93E-10	1.78E-12	4.16E-10
Fluoranthene	1.37E-11	3.31E-10	6.73E-11	1.83E-07	4.12E-11	7.83E-09	4.14E-11	6.47E-09
Fluorene	4.34E-11	9.24E-10	2.14E-10	5.13E-07	1.31E-10	2.01E-08	1.31E-10	1.63E-08
Indeno(1,2,3-c,d)pyrene	7.04E-13	1.71E-11	3.47E-12	9.45E-09	2.12E-12	4.06E-10	2.13E-12	3.35E-10
Naphthalene	4.42E-10	1.02E-08	2.17E-09	5.67E-06	1.33E-09	2.37E-07	1.34E-09	1.94E-07
Phenanthrene	1.38E-10	2.68E-09	6.81E-10	1.50E-06	4.17E-10	5.43E-08	4.19E-10	4.34E-08
Pyrene	1.26E-11	3.58E-10	6.20E-11	1.97E-07	3.79E-11	9.19E-09	3.81E-11	7.70E-09

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	8.49E-08	0.00E+00	8.59E-08	0.00E+00	8.19E-08	0.00E+00	7.07E-08
Acenapthene	4.81E-11	6.20E-09	4.80E-11	6.36E-09	4.77E-11	8.38E-09	4.73E-11	6.77E-09
Acenapthylene	9.48E-11	1.50E-08	9.47E-11	1.53E-08	9.41E-11	1.92E-08	9.33E-11	1.56E-08
Anthracene	1.26E-11	3.16E-09	1.26E-11	3.22E-09	1.25E-11	3.68E-09	1.24E-11	3.05E-09
Benzo(a)anthracene	6.40E-12	8.59E-10	6.39E-12	8.82E-10	6.35E-12	1.15E-09	6.29E-12	9.30E-10
Benzo(a)pyrene	1.32E-12	6.64E-10	1.32E-12	6.74E-10	1.31E-12	7.07E-10	1.30E-12	5.97E-10
Benzo(b+k)fluoranthene	1.25E-11	3.54E-09	1.25E-11	3.60E-09	1.24E-11	4.04E-09	1.23E-11	3.37E-09
Benzo(g,h,i)perylene	2.86E-12	1.10E-09	2.86E-12	1.12E-09	2.84E-12	1.20E-09	2.82E-12	1.01E-09
Chrysene	1.57E-11	1.77E-09	1.57E-11	1.82E-09	1.56E-11	2.50E-09	1.55E-11	2.00E-09
Dibenzo(a,h)anthracene	1.78E-12	5.42E-10	1.78E-12	5.52E-10	1.77E-12	6.12E-10	1.75E-12	5.11E-10
Fluoranthene	4.14E-11	8.46E-09	4.14E-11	8.64E-09	4.11E-11	1.02E-08	4.08E-11	8.43E-09
Fluorene	1.32E-10	2.14E-08	1.31E-10	2.20E-08	1.31E-10	2.73E-08	1.29E-10	2.23E-08
Indeno(1,2,3-c,d)pyrene	2.13E-12	4.39E-10	2.13E-12	4.48E-10	2.12E-12	5.30E-10	2.10E-12	4.37E-10
Naphthalene	1.34E-09	2.55E-07	1.34E-09	2.60E-07	1.33E-09	3.12E-07	1.32E-09	2.57E-07
Phenanthrene	4.19E-10	5.72E-08	4.19E-10	5.87E-08	4.16E-10	7.61E-08	4.12E-10	6.17E-08
Pyrene	3.81E-11	1.00E-08	3.81E-11	1.02E-08	3.78E-11	1.16E-08	3.75E-11	9.64E-09

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	6.02E-08	0.00E+00	5.98E-08	0.00E+00	5.96E-08	0.00E+00	6.24E-08
Acenapthene	5.39E-11	1.10E-08	6.55E-11	4.99E-09	4.50E-11	4.86E-09	4.50E-11	5.34E-09
Acenapthylene	1.06E-10	2.36E-08	1.29E-10	1.18E-08	8.87E-11	1.15E-08	8.87E-11	1.25E-08
Anthracene	1.42E-11	3.97E-09	1.72E-11	2.39E-09	1.18E-11	2.35E-09	1.18E-11	2.53E-09
Benzo(a)anthracene	7.16E-12	1.48E-09	8.72E-12	6.88E-10	5.99E-12	6.71E-10	5.99E-12	7.35E-10
Benzo(a)pyrene	1.48E-12	6.52E-10	1.80E-12	4.85E-10	1.24E-12	4.80E-10	1.24E-12	5.10E-10
Benzo(b+k)fluoranthene	1.40E-11	4.22E-09	1.71E-11	2.65E-09	1.17E-11	2.62E-09	1.17E-11	2.80E-09
Benzo(g,h,i)perylene	3.20E-12	1.17E-09	3.90E-12	8.11E-10	2.68E-12	8.02E-10	2.68E-12	8.54E-10
Chrysene	1.76E-11	3.41E-09	2.14E-11	1.45E-09	1.47E-11	1.41E-09	1.47E-11	1.56E-09
Dibenzo(a,h)anthracene	1.99E-12	6.28E-10	2.43E-12	4.05E-10	1.67E-12	4.00E-10	1.67E-12	4.27E-10
Fluoranthene	4.64E-11	1.17E-08	5.64E-11	6.50E-09	3.88E-11	6.38E-09	3.88E-11	6.89E-09
Fluorene	1.47E-10	3.32E-08	1.79E-10	1.68E-08	1.23E-10	1.65E-08	1.23E-10	1.79E-08
Indeno(1,2,3-c,d)pyrene	2.39E-12	6.02E-10	2.91E-12	3.37E-10	2.00E-12	3.31E-10	2.00E-12	3.57E-10
Naphthalene	1.50E-09	3.63E-07	1.82E-09	1.97E-07	1.25E-09	1.93E-07	1.25E-09	2.09E-07
Phenanthrene	4.69E-10	9.79E-08	5.71E-10	4.57E-08	3.92E-10	4.46E-08	3.92E-10	4.89E-08
Pyrene	4.27E-11	1.23E-08	5.19E-11	7.57E-09	3.57E-11	7.46E-09	3.57E-11	8.00E-09

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
2-Methylnaphthalene	0.00E+00	5.62E-08	0.00E+00	5.75E-08	0.00E+00	4.41E-08	0.00E+00	5.00E-08
Acenapthene	4.46E-11	5.21E-09	4.49E-11	5.16E-09	4.66E-11	3.62E-09	4.65E-11	3.73E-09
Acenapthylene	8.80E-11	1.21E-08	8.84E-11	1.20E-08	9.19E-11	8.58E-09	9.16E-11	8.97E-09
Anthracene	1.17E-11	2.38E-09	1.18E-11	2.39E-09	1.23E-11	1.75E-09	1.22E-11	1.88E-09
Benzo(a)anthracene	5.94E-12	7.17E-10	5.97E-12	7.11E-10	6.20E-12	5.00E-10	6.18E-12	5.17E-10
Benzo(a)pyrene	1.23E-12	4.70E-10	1.23E-12	4.76E-10	1.28E-12	3.56E-10	1.28E-12	3.93E-10
Benzo(b+k)fluoranthene	1.16E-11	2.63E-09	1.17E-11	2.65E-09	1.21E-11	1.94E-09	1.21E-11	2.10E-09
Benzo(g,h,i)perylene	2.66E-12	7.94E-10	2.67E-12	8.02E-10	2.77E-12	5.95E-10	2.76E-12	6.52E-10
Chrysene	1.46E-11	1.54E-09	1.47E-11	1.52E-09	1.52E-11	1.05E-09	1.52E-11	1.07E-09
Dibenzo(a,h)anthracene	1.65E-12	4.00E-10	1.66E-12	4.03E-10	1.73E-12	2.96E-10	1.72E-12	3.22E-10
Fluoranthene	3.84E-11	6.56E-09	3.86E-11	6.56E-09	4.01E-11	4.74E-09	4.00E-11	5.05E-09
Fluorene	1.22E-10	1.72E-08	1.23E-10	1.72E-08	1.27E-10	1.22E-08	1.27E-10	1.28E-08
Indeno(1,2,3-c,d)pyrene	1.98E-12	3.40E-10	1.99E-12	3.40E-10	2.07E-12	2.46E-10	2.06E-12	2.62E-10
Naphthalene	1.24E-09	1.99E-07	1.25E-09	1.99E-07	1.30E-09	1.43E-07	1.29E-09	1.52E-07
Phenanthrene	3.89E-10	4.76E-08	3.91E-10	4.72E-08	4.06E-10	3.32E-08	4.05E-10	3.44E-08
Pyrene	3.54E-11	7.53E-09	3.56E-11	7.57E-09	3.70E-11	5.53E-09	3.68E-11	5.98E-09

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)						
2-Methylnaphthalene	0.00E+00	6.61E-08	0.00E+00	4.62E-08	0.00E+00	5.03E-08
Acenapthene	6.19E-11	4.80E-09	4.92E-11	3.51E-09	4.94E-11	3.86E-09
Acenapthylene	1.22E-10	1.16E-08	9.70E-11	8.42E-09	9.74E-11	9.25E-09
Anthracene	1.63E-11	2.45E-09	1.29E-11	1.76E-09	1.30E-11	1.92E-09
Benzo(a)anthracene	8.23E-12	6.65E-10	6.55E-12	4.86E-10	6.57E-12	5.34E-10
Benzo(a)pyrene	1.70E-12	5.16E-10	1.35E-12	3.65E-10	1.36E-12	3.98E-10
Benzo(b+k)fluoranthene	1.61E-11	2.75E-09	1.28E-11	1.96E-09	1.29E-11	2.14E-09
Benzo(g,h,i)perylene	3.68E-12	8.54E-10	2.93E-12	6.06E-10	2.94E-12	6.62E-10
Chrysene	2.02E-11	1.37E-09	1.61E-11	1.01E-09	1.62E-11	1.11E-09
Dibenzo(a,h)anthracene	2.29E-12	4.21E-10	1.82E-12	3.00E-10	1.83E-12	3.28E-10
Fluoranthene	5.33E-11	6.56E-09	4.24E-11	4.72E-09	4.26E-11	5.17E-09
Fluorene	1.69E-10	1.66E-08	1.35E-10	1.21E-08	1.35E-10	1.32E-08
Indeno(1,2,3-c,d)pyrene	2.74E-12	3.40E-10	2.18E-12	2.45E-10	2.19E-12	2.68E-10
Naphthalene	1.72E-09	1.97E-07	1.37E-09	1.42E-07	1.37E-09	1.56E-07
Phenanthrene	5.39E-10	4.43E-08	4.29E-10	3.24E-08	4.31E-10	3.56E-08
Pyrene	4.91E-11	7.79E-09	3.90E-11	5.57E-09	3.92E-11	6.10E-09

Table 10.III.2-24: Predicted Annual PAH Total Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)				
2-Methylnaphthalene	0.00E+00	6.66E-08	0.00E+00	3.84E-06
Acenapthene	4.86E-11	6.98E-09	1.21E-10	2.01E-07
Acenapthylene	9.59E-11	1.59E-08	2.38E-10	5.22E-07
Anthracene	1.28E-11	3.04E-09	3.17E-11	1.22E-07
Benzo(a)anthracene	6.47E-12	9.56E-10	1.61E-11	2.84E-08
Benzo(a)pyrene	1.34E-12	5.79E-10	3.32E-12	2.79E-08
Benzo(b+k)fluoranthene	1.27E-11	3.33E-09	3.14E-11	1.39E-07
Benzo(g,h,i)perylene	2.89E-12	9.88E-10	7.18E-12	4.50E-08
Chrysene	1.59E-11	2.08E-09	3.94E-11	5.55E-08
Dibenzo(a,h)anthracene	1.80E-12	5.04E-10	4.47E-12	2.16E-08
Fluoranthene	4.19E-11	8.46E-09	1.04E-10	3.15E-07
Fluorene	1.33E-10	2.26E-08	3.30E-10	7.54E-07
Indeno(1,2,3-c,d)pyrene	2.16E-12	4.38E-10	5.36E-12	1.64E-08
Naphthalene	1.35E-09	2.59E-07	3.36E-09	9.32E-06
Phenanthrene	4.24E-10	6.34E-08	1.05E-09	1.90E-06
Pyrene	3.86E-11	9.56E-09	9.56E-11	3.92E-07

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.

PAH = polycyclic aromatic hydrocarbon; µg/m²/s = gram per square metre per second.

Table 10.III.2-25: Predicted Annual Metals Wet Deposition at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
aluminum	1.67E-06	1.89E-06	2.77E-07	8.88E-07	3.10E-11	3.18E-07	1.14E-11	7.09E-08
antimony	2.32E-11	9.49E-11	2.98E-11	2.52E-10	7.34E-11	1.76E-10	1.80E-11	4.46E-11
arsenic	1.58E-11	7.11E-09	2.02E-11	1.97E-08	4.98E-11	1.10E-08	1.22E-11	2.32E-09
barium	1.13E-12	2.39E-09	1.45E-12	6.51E-09	3.59E-12	3.37E-09	8.77E-13	7.55E-10
beryllium	2.08E-15	7.93E-12	2.66E-15	2.16E-11	6.56E-15	1.14E-11	1.61E-15	2.52E-12
bismuth	0.00E+00	2.65E-09	0.00E+00	7.25E-09	0.00E+00	3.83E-09	0.00E+00	8.43E-10
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.25E-06	1.25E-06	2.08E-07	2.09E-07	1.49E-10	4.66E-10	3.94E-11	1.57E-10
calcium	0.00E+00	8.25E-08	0.00E+00	2.27E-07	0.00E+00	1.22E-07	0.00E+00	2.65E-08
chromium	2.08E-07	2.09E-07	3.47E-08	3.55E-08	1.08E-10	4.92E-10	2.69E-11	1.22E-10
chromium VI	1.85E-14	5.27E-14	2.37E-14	1.58E-13	5.85E-14	1.05E-13	1.43E-14	3.11E-14
cobalt	2.08E-07	2.09E-07	3.46E-08	3.72E-08	5.63E-12	1.40E-09	1.86E-12	3.04E-10
copper	2.09E-07	2.09E-07	3.47E-08	3.68E-08	2.20E-10	1.23E-09	5.43E-11	2.96E-10
gallium	2.08E-07	2.08E-07	3.46E-08	3.48E-08	3.87E-12	4.82E-11	1.43E-12	1.79E-11
indium	1.25E-06	1.25E-06	2.08E-07	2.09E-07	2.32E-11	2.89E-10	8.57E-12	1.08E-10
iron	1.04E-06	1.52E-06	1.73E-07	1.48E-06	1.94E-11	6.90E-07	7.14E-12	1.52E-07
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	2.09E-07	2.09E-07	3.56E-08	3.61E-08	2.48E-09	2.66E-09	6.07E-10	6.69E-10
lithium	0.00E+00	6.77E-11	0.00E+00	1.84E-10	0.00E+00	9.54E-11	0.00E+00	2.14E-11
magnesium	0.00E+00	1.07E-07	0.00E+00	2.91E-07	0.00E+00	1.52E-07	0.00E+00	3.38E-08
manganese	2.08E-07	2.11E-07	3.46E-08	4.21E-08	1.89E-11	4.02E-09	5.11E-12	8.81E-10

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
mercury	2.05E-11	2.89E-11	2.63E-11	5.95E-11	6.48E-11	7.62E-11	1.59E-11	2.00E-11
molybdenum	5.88E-14	2.27E-11	7.53E-14	6.23E-11	1.86E-13	3.33E-11	4.54E-14	7.30E-12
nickel	3.51E-11	1.12E-10	4.49E-11	2.72E-10	1.11E-10	2.21E-10	2.71E-11	5.40E-11
palladium	2.08E-07	2.08E-07	3.46E-08	3.48E-08	3.87E-12	4.82E-11	1.43E-12	1.79E-11
phosphorus	2.08E-07	2.09E-07	3.46E-08	3.72E-08	6.10E-12	1.31E-09	1.97E-12	3.02E-10
potassium	0.00E+00	2.26E-07	0.00E+00	6.14E-07	0.00E+00	3.18E-07	0.00E+00	7.12E-08
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	9.35E-13	2.21E-11	1.20E-12	5.99E-11	2.95E-12	3.29E-11	7.22E-13	7.56E-12
silicon	1.31E-05	1.31E-05	2.18E-06	2.19E-06	2.44E-10	3.04E-09	9.00E-11	1.13E-09
silver	2.08E-07	2.08E-07	3.46E-08	3.48E-08	7.54E-12	5.45E-11	2.32E-12	1.96E-11
sodium	0.00E+00	2.37E-08	0.00E+00	6.47E-08	0.00E+00	3.39E-08	0.00E+00	7.52E-09
strontium	0.00E+00	9.31E-11	0.00E+00	2.53E-10	0.00E+00	1.32E-10	0.00E+00	2.94E-11
thallium	0.00E+00	2.48E-12	0.00E+00	6.75E-12	0.00E+00	3.51E-12	0.00E+00	7.83E-13
tin	0.00E+00	2.55E-11	0.00E+00	6.96E-11	0.00E+00	3.67E-11	0.00E+00	8.10E-12
titanium	0.00E+00	7.53E-09	0.00E+00	2.05E-08	0.00E+00	1.08E-08	0.00E+00	2.39E-09
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.85E-11	0.00E+00	7.81E-11	0.00E+00	4.15E-11	0.00E+00	9.10E-12
vanadium	2.37E-12	1.71E-10	3.04E-12	4.68E-10	7.50E-12	2.47E-10	1.84E-12	5.60E-11
yttrium	0.00E+00	6.21E-11	0.00E+00	1.70E-10	0.00E+00	8.92E-11	0.00E+00	1.97E-11
zinc	1.46E-06	1.46E-06	2.42E-07	2.44E-07	1.77E-10	7.29E-10	4.66E-11	2.25E-10
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
aluminum	1.40E-11	9.25E-08	5.78E-11	1.04E-03	5.33E-11	1.29E-04	5.42E-11	1.39E-04
antimony	3.39E-11	7.05E-11	2.12E-10	2.33E-07	1.69E-10	3.16E-08	1.76E-10	3.36E-08
arsenic	2.30E-11	3.09E-09	1.44E-10	3.07E-05	1.14E-10	4.74E-06	1.19E-10	5.00E-06
barium	1.65E-12	9.83E-10	1.04E-11	1.12E-05	8.23E-12	1.36E-06	8.59E-12	1.47E-06
beryllium	3.03E-15	3.29E-12	1.90E-14	3.64E-08	1.51E-14	4.67E-09	1.57E-14	5.02E-09
bismuth	0.00E+00	1.10E-09	0.00E+00	1.21E-05	0.00E+00	1.59E-06	0.00E+00	1.70E-06
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	6.88E-11	2.39E-10	4.08E-10	5.36E-08	3.30E-10	1.53E-08	3.43E-10	1.46E-08
calcium	0.00E+00	3.48E-08	0.00E+00	3.70E-04	0.00E+00	5.14E-05	0.00E+00	5.48E-05
chromium	4.98E-11	1.78E-10	3.08E-10	1.06E-06	2.45E-10	1.33E-07	2.56E-10	1.43E-07
chromium VI	2.70E-14	5.17E-14	1.69E-13	1.12E-11	1.34E-13	1.89E-12	1.40E-13	1.64E-12
cobalt	2.57E-12	4.05E-10	1.23E-11	3.82E-06	1.07E-11	5.83E-07	1.10E-11	6.15E-07
copper	1.01E-10	4.25E-10	6.31E-10	2.85E-06	5.02E-10	3.66E-07	5.24E-10	3.92E-07
gallium	1.76E-12	2.57E-11	7.23E-12	6.43E-09	6.66E-12	2.12E-09	6.78E-12	2.05E-09
indium	1.05E-11	1.54E-10	4.34E-11	3.86E-08	4.00E-11	1.27E-08	4.07E-11	1.23E-08
iron	8.78E-12	1.99E-07	3.61E-11	2.20E-03	3.33E-11	2.85E-04	3.39E-11	3.06E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.14E-09	1.23E-09	7.16E-09	1.66E-07	5.69E-09	2.82E-08	5.94E-09	2.91E-08
lithium	0.00E+00	2.78E-11	0.00E+00	3.16E-07	0.00E+00	3.87E-08	0.00E+00	4.18E-08
magnesium	0.00E+00	4.41E-08	0.00E+00	4.96E-04	0.00E+00	6.20E-05	0.00E+00	6.68E-05
manganese	8.69E-12	1.16E-09	5.07E-11	1.20E-05	4.12E-11	1.67E-06	4.28E-11	1.77E-06
mercury	2.99E-11	3.60E-11	1.87E-10	2.90E-09	1.49E-10	5.82E-10	1.55E-10	5.24E-10

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	8.57E-14	9.62E-12	5.37E-13	1.02E-07	4.26E-13	1.38E-08	4.45E-13	1.47E-08
nickel	5.12E-11	8.74E-11	3.20E-10	2.95E-07	2.54E-10	3.95E-08	2.66E-10	4.21E-08
palladium	1.76E-12	2.57E-11	7.23E-12	6.43E-09	6.66E-12	2.12E-09	6.78E-12	2.05E-09
phosphorus	2.79E-12	3.96E-10	1.37E-11	4.26E-06	1.18E-11	5.06E-07	1.21E-11	5.49E-07
potassium	0.00E+00	9.28E-08	0.00E+00	1.05E-03	0.00E+00	1.29E-04	0.00E+00	1.39E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.36E-12	1.04E-11	8.53E-12	9.40E-08	6.78E-12	1.18E-08	7.08E-12	1.27E-08
silicon	1.11E-10	1.62E-09	4.55E-10	4.05E-07	4.20E-10	1.34E-07	4.27E-10	1.29E-07
silver	3.45E-12	2.85E-11	1.78E-11	1.06E-08	1.51E-11	2.68E-09	1.56E-11	2.63E-09
sodium	0.00E+00	9.82E-09	0.00E+00	1.09E-04	0.00E+00	1.39E-05	0.00E+00	1.50E-05
strontium	0.00E+00	3.83E-11	0.00E+00	4.34E-07	0.00E+00	5.35E-08	0.00E+00	5.77E-08
thallium	0.00E+00	1.02E-12	0.00E+00	1.15E-08	0.00E+00	1.43E-09	0.00E+00	1.54E-09
tin	0.00E+00	1.06E-11	0.00E+00	1.17E-07	0.00E+00	1.52E-08	0.00E+00	1.63E-08
titanium	0.00E+00	3.12E-09	0.00E+00	3.48E-05	0.00E+00	4.42E-06	0.00E+00	4.75E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.19E-11	0.00E+00	1.30E-07	0.00E+00	1.72E-08	0.00E+00	1.84E-08
vanadium	3.46E-12	7.45E-11	2.17E-11	7.62E-07	1.72E-11	9.58E-08	1.80E-11	1.03E-07
yttrium	0.00E+00	2.58E-11	0.00E+00	2.85E-07	0.00E+00	3.67E-08	0.00E+00	3.95E-08
zinc	8.14E-11	3.34E-10	4.83E-10	6.52E-07	3.90E-10	9.08E-08	4.06E-10	9.57E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
aluminum	5.47E-11	2.10E-04	5.48E-11	2.18E-04	5.54E-11	2.07E-04	5.62E-11	1.62E-04
antimony	1.80E-10	4.79E-08	1.81E-10	4.96E-08	1.84E-10	5.00E-08	1.87E-10	3.85E-08
arsenic	1.22E-10	6.54E-06	1.23E-10	6.73E-06	1.25E-10	7.04E-06	1.27E-10	5.32E-06
barium	8.80E-12	2.24E-06	8.83E-12	2.33E-06	8.96E-12	2.19E-06	9.11E-12	1.73E-06
beryllium	1.61E-14	7.40E-09	1.62E-14	7.67E-09	1.64E-14	7.38E-09	1.67E-14	5.77E-09
bismuth	0.00E+00	2.47E-06	0.00E+00	2.56E-06	0.00E+00	2.49E-06	0.00E+00	1.94E-06
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	3.51E-10	2.05E-08	3.52E-10	2.14E-08	3.57E-10	3.55E-08	3.63E-10	2.56E-08
calcium	0.00E+00	7.66E-05	0.00E+00	7.92E-05	0.00E+00	7.90E-05	0.00E+00	6.08E-05
chromium	2.62E-10	2.15E-07	2.63E-10	2.23E-07	2.67E-10	2.15E-07	2.72E-10	1.68E-07
chromium VI	1.44E-13	2.20E-12	1.44E-13	2.37E-12	1.46E-13	4.36E-12	1.49E-13	2.94E-12
cobalt	1.11E-11	8.12E-07	1.12E-11	8.36E-07	1.13E-11	8.72E-07	1.15E-11	6.60E-07
copper	5.37E-10	5.80E-07	5.38E-10	6.01E-07	5.47E-10	5.83E-07	5.56E-10	4.55E-07
gallium	6.83E-12	2.90E-09	6.85E-12	3.01E-09	6.92E-12	5.01E-09	7.03E-12	3.65E-09
indium	4.10E-11	1.74E-08	4.11E-11	1.81E-08	4.15E-11	3.01E-08	4.22E-11	2.19E-08
iron	3.42E-11	4.47E-04	3.42E-11	4.63E-04	3.46E-11	4.48E-04	3.51E-11	3.49E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	6.08E-09	3.95E-08	6.10E-09	4.10E-08	6.20E-09	4.65E-08	6.30E-09	3.64E-08
lithium	0.00E+00	6.34E-08	0.00E+00	6.59E-08	0.00E+00	6.21E-08	0.00E+00	4.90E-08
magnesium	0.00E+00	1.00E-04	0.00E+00	1.04E-04	0.00E+00	9.88E-05	0.00E+00	7.76E-05
manganese	4.37E-11	2.49E-06	4.39E-11	2.57E-06	4.45E-11	2.56E-06	4.52E-11	1.97E-06
mercury	1.59E-10	6.65E-10	1.60E-10	7.09E-10	1.62E-10	1.20E-09	1.65E-10	8.52E-10

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	4.56E-13	2.10E-08	4.57E-13	2.17E-08	4.64E-13	2.14E-08	4.72E-13	1.66E-08
nickel	2.72E-10	6.05E-08	2.73E-10	6.27E-08	2.77E-10	6.21E-08	2.82E-10	4.81E-08
palladium	6.83E-12	2.90E-09	6.85E-12	3.01E-09	6.92E-12	5.01E-09	7.03E-12	3.65E-09
phosphorus	1.23E-11	8.49E-07	1.23E-11	8.83E-07	1.25E-11	8.24E-07	1.27E-11	6.53E-07
potassium	0.00E+00	2.11E-04	0.00E+00	2.20E-04	0.00E+00	2.07E-04	0.00E+00	1.63E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	7.24E-12	1.90E-08	7.27E-12	1.97E-08	7.38E-12	1.88E-08	7.51E-12	1.48E-08
silicon	4.30E-10	1.82E-07	4.31E-10	1.90E-07	4.36E-10	3.16E-07	4.43E-10	2.30E-07
silver	1.58E-11	3.75E-09	1.59E-11	3.89E-09	1.61E-11	5.93E-09	1.63E-11	4.35E-09
sodium	0.00E+00	2.21E-05	0.00E+00	2.30E-05	0.00E+00	2.21E-05	0.00E+00	1.73E-05
strontium	0.00E+00	8.72E-08	0.00E+00	9.05E-08	0.00E+00	8.57E-08	0.00E+00	6.75E-08
thallium	0.00E+00	2.32E-09	0.00E+00	2.41E-09	0.00E+00	2.29E-09	0.00E+00	1.80E-09
tin	0.00E+00	2.38E-08	0.00E+00	2.46E-08	0.00E+00	2.38E-08	0.00E+00	1.86E-08
titanium	0.00E+00	7.04E-06	0.00E+00	7.30E-06	0.00E+00	7.00E-06	0.00E+00	5.48E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.66E-08	0.00E+00	2.75E-08	0.00E+00	2.69E-08	0.00E+00	2.09E-08
vanadium	1.84E-11	1.54E-07	1.85E-11	1.60E-07	1.88E-11	1.53E-07	1.91E-11	1.20E-07
yttrium	0.00E+00	5.80E-08	0.00E+00	6.01E-08	0.00E+00	5.79E-08	0.00E+00	4.53E-08
zinc	4.15E-10	1.43E-07	4.17E-10	1.48E-07	4.23E-10	1.58E-07	4.30E-10	1.22E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
aluminum	4.81E-11	1.71E-05	5.29E-11	3.29E-05	5.26E-11	7.49E-05	5.23E-11	5.71E-05
antimony	1.18E-10	4.26E-09	1.56E-10	8.17E-09	1.61E-10	1.81E-08	1.56E-10	1.39E-08
arsenic	8.02E-11	5.04E-07	1.06E-10	1.16E-06	1.09E-10	2.63E-06	1.06E-10	2.02E-06
barium	5.77E-12	1.84E-07	7.60E-12	3.48E-07	7.84E-12	7.91E-07	7.62E-12	6.03E-07
beryllium	1.06E-14	6.00E-10	1.39E-14	1.18E-09	1.43E-14	2.69E-09	1.39E-14	2.05E-09
bismuth	0.00E+00	1.99E-07	0.00E+00	4.00E-07	0.00E+00	9.09E-07	0.00E+00	6.94E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.39E-10	5.34E-09	3.07E-10	6.23E-09	3.15E-10	9.50E-09	3.07E-10	9.09E-09
calcium	0.00E+00	6.08E-06	0.00E+00	1.28E-05	0.00E+00	2.91E-05	0.00E+00	2.23E-05
chromium	1.74E-10	1.84E-08	2.27E-10	3.45E-08	2.34E-10	7.73E-08	2.28E-10	5.93E-08
chromium VI	9.42E-14	7.65E-13	1.24E-13	7.66E-13	1.28E-13	1.14E-12	1.24E-13	1.03E-12
cobalt	8.83E-12	6.33E-08	1.03E-11	1.43E-07	1.04E-11	3.24E-07	1.03E-11	2.49E-07
copper	3.54E-10	4.88E-08	4.64E-10	9.37E-08	4.79E-10	2.11E-07	4.66E-10	1.62E-07
gallium	6.01E-12	7.29E-10	6.61E-12	8.64E-10	6.58E-12	1.32E-09	6.53E-12	1.28E-09
indium	3.61E-11	4.38E-09	3.97E-11	5.18E-09	3.95E-11	7.93E-09	3.92E-11	7.69E-09
iron	3.01E-11	3.61E-05	3.30E-11	7.19E-05	3.29E-11	1.63E-04	3.27E-11	1.25E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	3.99E-09	8.28E-09	5.25E-09	1.17E-08	5.42E-09	1.85E-08	5.27E-09	1.58E-08
lithium	0.00E+00	5.20E-09	0.00E+00	9.88E-09	0.00E+00	2.25E-08	0.00E+00	1.71E-08
magnesium	0.00E+00	8.16E-06	0.00E+00	1.58E-05	0.00E+00	3.58E-05	0.00E+00	2.73E-05
manganese	3.02E-11	1.98E-07	3.85E-11	4.15E-07	3.94E-11	9.42E-07	3.85E-11	7.22E-07
mercury	1.04E-10	2.70E-10	1.37E-10	2.96E-10	1.42E-10	3.92E-10	1.38E-10	3.62E-10

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	2.99E-13	1.68E-09	3.93E-13	3.45E-09	4.06E-13	7.84E-09	3.95E-13	6.00E-09
nickel	1.78E-10	5.22E-09	2.35E-10	1.02E-08	2.42E-10	2.26E-08	2.36E-10	1.74E-08
palladium	6.01E-12	7.29E-10	6.61E-12	8.64E-10	6.58E-12	1.32E-09	6.53E-12	1.28E-09
phosphorus	9.60E-12	7.07E-08	1.13E-11	1.31E-07	1.15E-11	2.96E-07	1.13E-11	2.26E-07
potassium	0.00E+00	1.73E-05	0.00E+00	3.30E-05	0.00E+00	7.50E-05	0.00E+00	5.71E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	4.75E-12	1.57E-09	6.26E-12	3.00E-09	6.45E-12	6.81E-09	6.28E-12	5.20E-09
silicon	3.79E-10	4.60E-08	4.16E-10	5.44E-08	4.14E-10	8.33E-08	4.11E-10	8.07E-08
silver	1.19E-11	8.19E-10	1.44E-11	1.02E-09	1.46E-11	1.65E-09	1.43E-11	1.53E-09
sodium	0.00E+00	1.80E-06	0.00E+00	3.53E-06	0.00E+00	8.02E-06	0.00E+00	6.12E-06
strontium	0.00E+00	7.14E-09	0.00E+00	1.36E-08	0.00E+00	3.10E-08	0.00E+00	2.37E-08
thallium	0.00E+00	1.89E-10	0.00E+00	3.65E-10	0.00E+00	8.29E-10	0.00E+00	6.32E-10
tin	0.00E+00	1.92E-09	0.00E+00	3.82E-09	0.00E+00	8.69E-09	0.00E+00	6.64E-09
titanium	0.00E+00	5.72E-07	0.00E+00	1.12E-06	0.00E+00	2.54E-06	0.00E+00	1.94E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.14E-09	0.00E+00	4.33E-09	0.00E+00	9.83E-09	0.00E+00	7.52E-09
vanadium	1.21E-11	1.26E-08	1.59E-11	2.44E-08	1.64E-11	5.53E-08	1.60E-11	4.22E-08
yttrium	0.00E+00	4.69E-09	0.00E+00	9.29E-09	0.00E+00	2.11E-08	0.00E+00	1.61E-08
zinc	2.83E-10	1.60E-08	3.64E-10	2.59E-08	3.73E-10	5.34E-08	3.64E-10	4.29E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)								
aluminum	5.20E-11	5.15E-05	5.24E-11	5.94E-05	5.36E-11	4.39E-05	5.36E-11	4.95E-05
antimony	1.50E-10	1.27E-08	1.50E-10	1.44E-08	1.44E-10	1.05E-08	1.53E-10	1.17E-08
arsenic	1.02E-10	1.72E-06	1.02E-10	1.97E-06	9.78E-11	1.36E-06	1.04E-10	1.47E-06
barium	7.32E-12	5.47E-07	7.33E-12	6.31E-07	7.04E-12	4.70E-07	7.46E-12	5.30E-07
beryllium	1.34E-14	1.84E-09	1.34E-14	2.12E-09	1.29E-14	1.55E-09	1.37E-14	1.73E-09
bismuth	0.00E+00	6.18E-07	0.00E+00	7.11E-07	0.00E+00	5.17E-07	0.00E+00	5.75E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.97E-10	1.17E-08	2.97E-10	1.16E-08	2.88E-10	9.79E-09	3.03E-10	1.01E-08
calcium	0.00E+00	1.95E-05	0.00E+00	2.24E-05	0.00E+00	1.60E-05	0.00E+00	1.76E-05
chromium	2.19E-10	5.43E-08	2.19E-10	6.21E-08	2.11E-10	4.62E-08	2.23E-10	5.18E-08
chromium VI	1.19E-13	1.51E-12	1.20E-13	1.33E-12	1.15E-13	1.19E-12	1.22E-13	1.35E-12
cobalt	1.01E-11	2.14E-07	1.01E-11	2.45E-07	1.01E-11	1.70E-07	1.04E-11	1.83E-07
copper	4.47E-10	1.47E-07	4.48E-10	1.68E-07	4.30E-10	1.24E-07	4.56E-10	1.38E-07
gallium	6.50E-12	1.64E-09	6.56E-12	1.64E-09	6.70E-12	1.38E-09	6.70E-12	1.39E-09
indium	3.90E-11	9.84E-09	3.93E-11	9.84E-09	4.02E-11	8.28E-09	4.02E-11	8.36E-09
iron	3.25E-11	1.11E-04	3.28E-11	1.28E-04	3.35E-11	9.35E-05	3.35E-11	1.04E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	5.06E-09	1.62E-08	5.07E-09	1.68E-08	4.86E-09	1.40E-08	5.16E-09	1.53E-08
lithium	0.00E+00	1.55E-08	0.00E+00	1.79E-08	0.00E+00	1.33E-08	0.00E+00	1.50E-08
magnesium	0.00E+00	2.46E-05	0.00E+00	2.84E-05	0.00E+00	2.09E-05	0.00E+00	2.35E-05
manganese	3.72E-11	6.34E-07	3.73E-11	7.28E-07	3.62E-11	5.20E-07	3.80E-11	5.73E-07
mercury	1.32E-10	4.75E-10	1.33E-10	4.32E-10	1.27E-10	3.91E-10	1.35E-10	4.37E-10

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.79E-13	5.30E-09	3.80E-13	6.09E-09	3.64E-13	4.38E-09	3.87E-13	4.86E-09
nickel	2.26E-10	1.57E-08	2.27E-10	1.79E-08	2.18E-10	1.31E-08	2.31E-10	1.45E-08
palladium	6.50E-12	1.64E-09	6.56E-12	1.64E-09	6.70E-12	1.38E-09	6.70E-12	1.39E-09
phosphorus	1.11E-11	2.07E-07	1.11E-11	2.39E-07	1.11E-11	1.79E-07	1.13E-11	2.03E-07
potassium	0.00E+00	5.18E-05	0.00E+00	5.97E-05	0.00E+00	4.43E-05	0.00E+00	5.00E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	6.03E-12	4.70E-09	6.04E-12	5.41E-09	5.79E-12	3.99E-09	6.15E-12	4.49E-09
silicon	4.10E-10	1.03E-07	4.13E-10	1.03E-07	4.22E-10	8.69E-08	4.22E-10	8.78E-08
silver	1.40E-11	1.88E-09	1.41E-11	1.91E-09	1.39E-11	1.58E-09	1.43E-11	1.62E-09
sodium	0.00E+00	5.49E-06	0.00E+00	6.32E-06	0.00E+00	4.64E-06	0.00E+00	5.19E-06
strontium	0.00E+00	2.14E-08	0.00E+00	2.47E-08	0.00E+00	1.83E-08	0.00E+00	2.06E-08
thallium	0.00E+00	5.70E-10	0.00E+00	6.57E-10	0.00E+00	4.86E-10	0.00E+00	5.46E-10
tin	0.00E+00	5.93E-09	0.00E+00	6.82E-09	0.00E+00	4.97E-09	0.00E+00	5.55E-09
titanium	0.00E+00	1.74E-06	0.00E+00	2.01E-06	0.00E+00	1.47E-06	0.00E+00	1.65E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	6.67E-09	0.00E+00	7.68E-09	0.00E+00	5.56E-09	0.00E+00	6.18E-09
vanadium	1.53E-11	3.81E-08	1.53E-11	4.38E-08	1.47E-11	3.23E-08	1.56E-11	3.63E-08
yttrium	0.00E+00	1.44E-08	0.00E+00	1.66E-08	0.00E+00	1.21E-08	0.00E+00	1.36E-08
zinc	3.51E-10	4.29E-08	3.52E-10	4.71E-08	3.41E-10	3.63E-08	3.59E-10	3.98E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)						
aluminum	5.40E-11	2.87E-05	5.38E-11	2.83E-05	5.32E-11	3.33E-05
antimony	1.45E-10	6.99E-09	1.48E-10	6.84E-09	1.47E-10	7.81E-09
arsenic	9.81E-11	8.54E-07	1.00E-10	8.33E-07	9.98E-11	9.64E-07
barium	7.06E-12	3.08E-07	7.20E-12	3.04E-07	7.18E-12	3.58E-07
beryllium	1.29E-14	1.01E-09	1.32E-14	9.91E-10	1.31E-14	1.16E-09
bismuth	0.00E+00	3.35E-07	0.00E+00	3.29E-07	0.00E+00	3.85E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.89E-10	7.38E-09	2.94E-10	6.56E-09	2.93E-10	6.23E-09
calcium	0.00E+00	1.03E-05	0.00E+00	1.01E-05	0.00E+00	1.17E-05
chromium	2.12E-10	3.05E-08	2.16E-10	2.99E-08	2.15E-10	3.48E-08
chromium VI	1.15E-13	1.05E-12	1.18E-13	9.75E-13	1.17E-13	8.65E-13
cobalt	1.02E-11	1.07E-07	1.02E-11	1.04E-07	1.02E-11	1.21E-07
copper	4.32E-10	8.12E-08	4.40E-10	7.98E-08	4.39E-10	9.29E-08
gallium	6.74E-12	1.01E-09	6.72E-12	8.85E-10	6.65E-12	8.48E-10
indium	4.05E-11	6.05E-09	4.03E-11	5.31E-09	3.99E-11	5.09E-09
iron	3.37E-11	6.06E-05	3.36E-11	5.97E-05	3.32E-11	7.00E-05
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.88E-09	1.15E-08	4.98E-09	1.12E-08	4.96E-09	1.15E-08
lithium	0.00E+00	8.72E-09	0.00E+00	8.60E-09	0.00E+00	1.01E-08
magnesium	0.00E+00	1.37E-05	0.00E+00	1.35E-05	0.00E+00	1.58E-05
manganese	3.63E-11	3.33E-07	3.69E-11	3.27E-07	3.68E-11	3.81E-07
mercury	1.28E-10	3.59E-10	1.30E-10	3.42E-10	1.30E-10	3.14E-10

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.66E-13	2.82E-09	3.73E-13	2.77E-09	3.72E-13	3.24E-09
nickel	2.18E-10	8.62E-09	2.23E-10	8.46E-09	2.22E-10	9.76E-09
palladium	6.74E-12	1.01E-09	6.72E-12	8.85E-10	6.65E-12	8.48E-10
phosphorus	1.11E-11	1.18E-07	1.12E-11	1.17E-07	1.11E-11	1.37E-07
potassium	0.00E+00	2.90E-05	0.00E+00	2.87E-05	0.00E+00	3.37E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.81E-12	2.62E-09	5.93E-12	2.58E-09	5.91E-12	3.02E-09
silicon	4.25E-10	6.35E-08	4.23E-10	5.57E-08	4.19E-10	5.34E-08
silver	1.40E-11	1.15E-09	1.41E-11	1.02E-09	1.40E-11	1.00E-09
sodium	0.00E+00	3.02E-06	0.00E+00	2.97E-06	0.00E+00	3.49E-06
strontium	0.00E+00	1.20E-08	0.00E+00	1.18E-08	0.00E+00	1.39E-08
thallium	0.00E+00	3.17E-10	0.00E+00	3.13E-10	0.00E+00	3.68E-10
tin	0.00E+00	3.22E-09	0.00E+00	3.17E-09	0.00E+00	3.72E-09
titanium	0.00E+00	9.59E-07	0.00E+00	9.45E-07	0.00E+00	1.11E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.59E-09	0.00E+00	3.53E-09	0.00E+00	4.14E-09
vanadium	1.48E-11	2.11E-08	1.51E-11	2.08E-08	1.50E-11	2.44E-08
yttrium	0.00E+00	7.88E-09	0.00E+00	7.76E-09	0.00E+00	9.10E-09
zinc	3.42E-10	2.49E-08	3.48E-10	2.38E-08	3.46E-10	2.62E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Wet Deposition (µg/m²/s)				
aluminum	5.18E-11	3.64E-05	6.01E-11	1.24E-03
antimony	1.46E-10	8.52E-09	2.33E-10	2.63E-07
arsenic	9.93E-11	1.04E-06	1.58E-10	3.23E-05
barium	7.15E-12	3.92E-07	1.14E-11	1.34E-05
beryllium	1.31E-14	1.27E-09	2.08E-14	4.27E-08
bismuth	0.00E+00	4.20E-07	0.00E+00	1.40E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.90E-10	6.81E-09	4.45E-10	9.15E-08
calcium	0.00E+00	1.27E-05	0.00E+00	4.16E-04
chromium	2.14E-10	3.81E-08	3.38E-10	1.25E-06
chromium VI	1.17E-13	1.01E-12	1.86E-13	1.24E-11
cobalt	9.97E-12	1.30E-07	1.31E-11	4.05E-06
copper	4.37E-10	1.01E-07	6.92E-10	3.34E-06
gallium	6.48E-12	9.18E-10	7.51E-12	1.31E-08
indium	3.89E-11	5.51E-09	4.51E-11	7.87E-08
iron	3.24E-11	7.63E-05	3.76E-11	2.56E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.94E-09	1.22E-08	7.86E-09	1.74E-07
lithium	0.00E+00	1.11E-08	0.00E+00	3.79E-07
magnesium	0.00E+00	1.73E-05	0.00E+00	5.88E-04
manganese	3.64E-11	4.13E-07	5.52E-11	1.35E-05
mercury	1.29E-10	3.49E-10	2.06E-10	3.18E-09

Table 10.III.2-25: Predicted Annual Metals Wet Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
molybdenum	3.70E-13	3.52E-09	5.89E-13	1.16E-07
nickel	2.21E-10	1.06E-08	3.52E-10	3.38E-07
palladium	6.48E-12	9.18E-10	7.51E-12	1.31E-08
phosphorus	1.09E-11	1.50E-07	1.46E-11	5.17E-06
potassium	0.00E+00	3.69E-05	0.00E+00	1.26E-03
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.89E-12	3.30E-09	9.36E-12	1.11E-07
silicon	4.08E-10	5.79E-08	4.73E-10	8.27E-07
silver	1.38E-11	1.09E-09	1.91E-11	1.58E-08
sodium	0.00E+00	3.81E-06	0.00E+00	1.29E-04
strontium	0.00E+00	1.52E-08	0.00E+00	5.18E-07
thallium	0.00E+00	4.02E-10	0.00E+00	1.37E-08
tin	0.00E+00	4.05E-09	0.00E+00	1.36E-07
titanium	0.00E+00	1.21E-06	0.00E+00	4.09E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	4.50E-09	0.00E+00	1.50E-07
vanadium	1.50E-11	2.67E-08	2.38E-11	9.03E-07
yttrium	0.00E+00	9.92E-09	0.00E+00	3.34E-07
zinc	3.44E-10	2.86E-08	5.27E-10	7.57E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.
µg/m²/s = microgram per square metre per second.

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
aluminum	1.85E-09	3.23E-06	8.16E-10	3.72E-06	2.59E-10	1.37E-05	9.96E-11	4.75E-07
antimony	1.23E-10	1.05E-09	2.59E-10	1.34E-09	1.35E-10	3.48E-09	1.76E-10	3.73E-10
arsenic	8.37E-11	1.01E-07	1.76E-10	1.21E-07	9.16E-11	4.57E-07	1.19E-10	1.54E-08
barium	6.02E-12	3.44E-08	1.26E-11	3.96E-08	6.59E-12	1.45E-07	8.57E-12	5.06E-09
beryllium	1.10E-14	1.14E-10	2.31E-14	1.32E-10	1.21E-14	4.87E-10	1.57E-14	1.68E-11
bismuth	0.00E+00	3.80E-08	0.00E+00	4.43E-08	0.00E+00	1.64E-07	0.00E+00	5.63E-09
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.60E-09	4.40E-09	1.06E-09	5.21E-09	4.26E-10	4.18E-09	3.76E-10	1.25E-09
calcium	0.00E+00	1.18E-06	0.00E+00	1.39E-06	0.00E+00	5.18E-06	0.00E+00	1.76E-07
chromium	4.06E-10	4.20E-09	4.69E-10	5.00E-09	2.24E-10	1.47E-08	2.61E-10	9.21E-10
chromium VI	9.83E-14	4.29E-13	2.06E-13	5.99E-13	1.08E-13	4.98E-13	1.40E-13	2.84E-13
cobalt	2.34E-10	1.31E-08	1.08E-10	1.57E-08	3.57E-11	5.69E-08	1.66E-11	2.03E-09
copper	5.94E-10	1.04E-08	8.64E-10	1.24E-08	4.29E-10	3.93E-08	5.29E-10	2.21E-09
gallium	2.31E-10	6.38E-10	1.02E-10	7.22E-10	3.24E-11	5.83E-10	1.24E-11	1.32E-10
indium	1.39E-09	3.83E-09	6.12E-10	4.33E-09	1.95E-10	3.50E-09	7.47E-11	7.90E-10
iron	1.16E-09	6.88E-06	5.10E-10	7.99E-06	1.62E-10	2.95E-05	6.22E-11	1.02E-06
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.39E-09	5.91E-09	8.83E-09	1.08E-08	4.58E-09	7.70E-09	5.93E-09	6.42E-09
lithium	0.00E+00	9.75E-10	0.00E+00	1.12E-09	0.00E+00	4.12E-09	0.00E+00	1.43E-10
magnesium	0.00E+00	1.54E-06	0.00E+00	1.78E-06	0.00E+00	6.54E-06	0.00E+00	2.26E-07
manganese	2.56E-10	3.90E-08	1.55E-10	4.58E-08	6.01E-11	1.68E-07	4.84E-11	5.89E-09

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
mercury	1.09E-10	1.90E-10	2.29E-10	3.25E-10	1.19E-10	2.15E-10	1.55E-10	1.90E-10
molybdenum	3.12E-13	3.24E-10	6.55E-13	3.80E-10	3.41E-13	1.41E-09	4.44E-13	4.89E-11
nickel	1.86E-10	1.23E-09	3.91E-10	1.61E-09	2.04E-10	4.31E-09	2.65E-10	4.56E-10
palladium	2.31E-10	6.38E-10	1.02E-10	7.22E-10	3.24E-11	5.83E-10	1.24E-11	1.32E-10
phosphorus	2.35E-10	1.37E-08	1.10E-10	1.56E-08	3.65E-11	5.50E-08	1.78E-11	2.04E-09
potassium	0.00E+00	3.25E-06	0.00E+00	3.74E-06	0.00E+00	1.37E-05	0.00E+00	4.77E-07
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	4.96E-12	3.04E-10	1.04E-11	3.57E-10	5.43E-12	1.25E-09	7.06E-12	5.37E-11
silicon	1.46E-08	4.02E-08	6.43E-09	4.55E-08	2.04E-09	3.67E-08	7.84E-10	8.30E-09
silver	2.37E-10	6.66E-10	1.15E-10	7.61E-10	3.92E-11	6.53E-10	2.12E-11	1.47E-10
sodium	0.00E+00	3.41E-07	0.00E+00	3.95E-07	0.00E+00	1.46E-06	0.00E+00	5.02E-08
strontium	0.00E+00	1.34E-09	0.00E+00	1.55E-09	0.00E+00	5.68E-09	0.00E+00	1.97E-10
thallium	0.00E+00	3.56E-11	0.00E+00	4.11E-11	0.00E+00	1.51E-10	0.00E+00	5.24E-12
tin	0.00E+00	3.66E-10	0.00E+00	4.25E-10	0.00E+00	1.57E-09	0.00E+00	5.40E-11
titanium	0.00E+00	1.08E-07	0.00E+00	1.25E-07	0.00E+00	4.62E-07	0.00E+00	1.60E-08
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	4.09E-10	0.00E+00	4.77E-10	0.00E+00	1.77E-09	0.00E+00	6.06E-11
vanadium	1.26E-11	2.42E-09	2.65E-11	2.81E-09	1.38E-11	1.01E-08	1.79E-11	3.84E-10
yttrium	0.00E+00	8.92E-10	0.00E+00	1.04E-09	0.00E+00	3.82E-09	0.00E+00	1.32E-10
zinc	1.87E-09	6.99E-09	1.24E-09	8.22E-09	5.02E-10	1.26E-08	4.45E-10	1.74E-09
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
aluminum	1.37E-10	3.34E-06	6.72E-10	1.15E-01	4.01E-10	1.37E-03	4.01E-10	1.04E-03
antimony	1.39E-10	1.07E-09	7.84E-10	2.47E-05	3.56E-10	3.22E-07	3.69E-10	2.30E-07
arsenic	9.44E-11	1.08E-07	5.32E-10	3.27E-03	2.41E-10	5.02E-05	2.50E-10	3.20E-05
barium	6.79E-12	3.56E-08	3.83E-11	1.24E-03	1.74E-11	1.44E-05	1.80E-11	1.11E-05
beryllium	1.24E-14	1.19E-10	7.00E-14	4.01E-06	3.18E-14	4.94E-08	3.29E-14	3.65E-08
bismuth	0.00E+00	3.97E-08	0.00E+00	1.33E-03	0.00E+00	1.68E-05	0.00E+00	1.22E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	3.42E-10	2.88E-09	1.85E-09	1.72E-06	9.12E-10	4.60E-08	9.34E-10	3.51E-08
calcium	0.00E+00	1.24E-06	0.00E+00	4.02E-02	0.00E+00	5.44E-04	0.00E+00	3.77E-04
chromium	2.14E-10	4.07E-09	1.19E-09	1.16E-04	5.54E-10	1.38E-06	5.73E-10	1.05E-06
chromium VI	1.11E-13	4.01E-13	6.24E-13	2.12E-11	2.83E-13	2.43E-12	2.94E-13	2.43E-12
cobalt	2.05E-11	1.37E-08	1.03E-10	4.07E-04	5.87E-11	6.16E-06	5.90E-11	3.96E-06
copper	4.26E-10	1.05E-08	2.39E-09	3.11E-04	1.10E-09	3.82E-06	1.13E-09	2.84E-06
gallium	1.72E-11	3.87E-10	8.40E-11	2.29E-07	5.02E-11	6.55E-09	5.02E-11	4.88E-09
indium	1.03E-10	2.32E-09	5.04E-10	1.37E-06	3.01E-10	3.93E-08	3.01E-10	2.93E-08
iron	8.58E-11	7.17E-06	4.20E-10	2.41E-01	2.51E-10	3.01E-03	2.51E-10	2.21E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.71E-09	6.12E-09	2.65E-08	1.44E-05	1.20E-08	1.99E-07	1.25E-08	1.51E-07
lithium	0.00E+00	1.01E-09	0.00E+00	3.50E-05	0.00E+00	4.09E-07	0.00E+00	3.14E-07
magnesium	0.00E+00	1.60E-06	0.00E+00	5.47E-02	0.00E+00	6.55E-04	0.00E+00	4.94E-04
manganese	4.56E-11	4.07E-08	2.44E-10	1.30E-03	1.23E-10	1.76E-05	1.26E-10	1.22E-05
mercury	1.23E-10	1.94E-10	6.92E-10	5.76E-09	3.14E-10	8.43E-10	3.25E-10	8.53E-10

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.52E-13	3.40E-10	1.98E-12	1.11E-05	9.00E-13	1.46E-07	9.32E-13	1.03E-07
nickel	2.10E-10	1.28E-09	1.18E-09	3.18E-05	5.37E-10	4.09E-07	5.56E-10	2.95E-07
palladium	1.72E-11	3.87E-10	8.40E-11	2.29E-07	5.02E-11	6.55E-09	5.02E-11	4.88E-09
phosphorus	2.14E-11	1.38E-08	1.08E-10	4.72E-04	6.10E-11	5.33E-06	6.14E-11	4.20E-06
potassium	0.00E+00	3.36E-06	0.00E+00	1.17E-01	0.00E+00	1.36E-03	0.00E+00	1.05E-03
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.60E-12	3.15E-10	3.15E-11	1.03E-05	1.43E-11	1.24E-07	1.48E-11	9.36E-08
silicon	1.08E-09	2.44E-08	5.29E-09	1.44E-05	3.16E-09	4.12E-07	3.16E-09	3.08E-07
silver	2.41E-11	4.15E-10	1.23E-10	6.50E-07	6.79E-11	1.18E-08	6.86E-11	8.81E-09
sodium	0.00E+00	3.54E-07	0.00E+00	1.20E-02	0.00E+00	1.47E-04	0.00E+00	1.09E-04
strontium	0.00E+00	1.39E-09	0.00E+00	4.80E-05	0.00E+00	5.65E-07	0.00E+00	4.32E-07
thallium	0.00E+00	3.70E-11	0.00E+00	1.27E-06	0.00E+00	1.51E-08	0.00E+00	1.15E-08
tin	0.00E+00	3.81E-10	0.00E+00	1.28E-05	0.00E+00	1.60E-07	0.00E+00	1.17E-07
titanium	0.00E+00	1.13E-07	0.00E+00	3.83E-03	0.00E+00	4.67E-05	0.00E+00	3.48E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	4.28E-10	0.00E+00	1.42E-05	0.00E+00	1.82E-07	0.00E+00	1.31E-07
vanadium	1.42E-11	2.50E-09	8.01E-11	8.39E-05	3.64E-11	1.01E-06	3.77E-11	7.60E-07
yttrium	0.00E+00	9.29E-10	0.00E+00	3.14E-05	0.00E+00	3.88E-07	0.00E+00	2.86E-07
zinc	4.04E-10	5.28E-09	2.19E-09	6.71E-05	1.08E-09	8.24E-07	1.10E-09	6.27E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
aluminum	4.00E-10	1.62E-03	3.99E-10	1.71E-03	3.95E-10	1.67E-03	3.89E-10	1.16E-03
antimony	3.74E-10	3.54E-07	3.75E-10	3.73E-07	3.79E-10	3.66E-07	3.83E-10	2.60E-07
arsenic	2.54E-10	4.80E-05	2.54E-10	5.01E-05	2.57E-10	4.97E-05	2.60E-10	3.63E-05
barium	1.82E-11	1.74E-05	1.83E-11	1.84E-05	1.85E-11	1.79E-05	1.87E-11	1.24E-05
beryllium	3.34E-14	5.68E-08	3.35E-14	5.98E-08	3.39E-14	5.85E-08	3.42E-14	4.11E-08
bismuth	0.00E+00	1.89E-05	0.00E+00	1.98E-05	0.00E+00	1.95E-05	0.00E+00	1.37E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	9.42E-10	4.53E-08	9.43E-10	4.64E-08	9.48E-10	5.03E-08	9.49E-10	4.33E-08
calcium	0.00E+00	5.77E-04	0.00E+00	6.06E-04	0.00E+00	5.96E-04	0.00E+00	4.25E-04
chromium	5.80E-10	1.64E-06	5.81E-10	1.73E-06	5.87E-10	1.69E-06	5.91E-10	1.18E-06
chromium VI	2.98E-13	3.00E-12	2.99E-13	3.17E-12	3.02E-13	3.46E-12	3.05E-13	3.12E-12
cobalt	5.90E-11	5.96E-06	5.89E-11	6.23E-06	5.84E-11	6.18E-06	5.78E-11	4.50E-06
copper	1.15E-09	4.41E-06	1.15E-09	4.65E-06	1.16E-09	4.55E-06	1.17E-09	3.19E-06
gallium	5.00E-11	6.22E-09	4.99E-11	6.33E-09	4.94E-11	6.94E-09	4.86E-11	6.06E-09
indium	3.00E-10	3.73E-08	3.00E-10	3.80E-08	2.96E-10	4.16E-08	2.92E-10	3.64E-08
iron	2.50E-10	3.42E-03	2.50E-10	3.60E-03	2.47E-10	3.53E-03	2.43E-10	2.48E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.27E-08	2.24E-07	1.27E-08	2.35E-07	1.28E-08	2.32E-07	1.30E-08	1.70E-07
lithium	0.00E+00	4.92E-07	0.00E+00	5.19E-07	0.00E+00	5.07E-07	0.00E+00	3.52E-07
magnesium	0.00E+00	7.71E-04	0.00E+00	8.14E-04	0.00E+00	7.95E-04	0.00E+00	5.55E-04
manganese	1.27E-10	1.87E-05	1.27E-10	1.96E-05	1.27E-10	1.93E-05	1.27E-10	1.38E-05
mercury	3.30E-10	9.97E-10	3.31E-10	1.04E-09	3.35E-10	1.11E-09	3.38E-10	1.03E-09

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	9.45E-13	1.59E-07	9.47E-13	1.67E-07	9.59E-13	1.64E-07	9.68E-13	1.16E-07
nickel	5.64E-10	4.55E-07	5.66E-10	4.78E-07	5.72E-10	4.69E-07	5.78E-10	3.32E-07
palladium	5.00E-11	6.22E-09	4.99E-11	6.33E-09	4.94E-11	6.94E-09	4.86E-11	6.06E-09
phosphorus	6.14E-11	6.61E-06	6.13E-11	6.99E-06	6.09E-11	6.80E-06	6.03E-11	4.70E-06
potassium	0.00E+00	1.64E-03	0.00E+00	1.73E-03	0.00E+00	1.69E-03	0.00E+00	1.17E-03
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.50E-11	1.46E-07	1.51E-11	1.54E-07	1.52E-11	1.50E-07	1.54E-11	1.05E-07
silicon	3.15E-09	3.92E-07	3.14E-09	3.99E-07	3.11E-09	4.37E-07	3.06E-09	3.82E-07
silver	6.87E-11	1.23E-08	6.86E-11	1.27E-08	6.83E-11	1.32E-08	6.77E-11	1.05E-08
sodium	0.00E+00	1.70E-04	0.00E+00	1.79E-04	0.00E+00	1.75E-04	0.00E+00	1.23E-04
strontium	0.00E+00	6.75E-07	0.00E+00	7.12E-07	0.00E+00	6.95E-07	0.00E+00	4.84E-07
thallium	0.00E+00	1.79E-08	0.00E+00	1.89E-08	0.00E+00	1.84E-08	0.00E+00	1.29E-08
tin	0.00E+00	1.82E-07	0.00E+00	1.91E-07	0.00E+00	1.87E-07	0.00E+00	1.32E-07
titanium	0.00E+00	5.41E-05	0.00E+00	5.70E-05	0.00E+00	5.58E-05	0.00E+00	3.91E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.03E-07	0.00E+00	2.13E-07	0.00E+00	2.09E-07	0.00E+00	1.48E-07
vanadium	3.82E-11	1.18E-06	3.83E-11	1.25E-06	3.87E-11	1.22E-06	3.91E-11	8.53E-07
yttrium	0.00E+00	4.44E-07	0.00E+00	4.68E-07	0.00E+00	4.58E-07	0.00E+00	3.22E-07
zinc	1.11E-09	9.69E-07	1.11E-09	1.02E-06	1.12E-09	1.00E-06	1.12E-09	7.08E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
aluminum	4.69E-10	9.61E-04	5.68E-10	9.13E-04	3.76E-10	9.60E-04	3.77E-10	9.86E-04
antimony	4.25E-10	2.17E-07	5.88E-10	2.23E-07	3.28E-10	2.24E-07	3.26E-10	2.29E-07
arsenic	2.88E-10	2.92E-05	3.99E-10	3.65E-05	2.22E-10	3.41E-05	2.21E-10	3.46E-05
barium	2.07E-11	1.03E-05	2.87E-11	9.52E-06	1.60E-11	1.01E-05	1.59E-11	1.04E-05
beryllium	3.79E-14	3.38E-08	5.25E-14	3.35E-08	2.93E-14	3.45E-08	2.91E-14	3.54E-08
bismuth	0.00E+00	1.13E-05	0.00E+00	1.15E-05	0.00E+00	1.17E-05	0.00E+00	1.20E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.08E-09	9.99E-08	1.44E-09	4.35E-08	8.45E-10	3.98E-08	8.43E-10	4.42E-08
calcium	0.00E+00	3.47E-04	0.00E+00	3.81E-04	0.00E+00	3.75E-04	0.00E+00	3.83E-04
chromium	6.61E-10	9.85E-07	9.04E-10	9.28E-07	5.11E-10	9.73E-07	5.09E-10	1.00E-06
chromium VI	3.38E-13	1.01E-11	4.68E-13	1.83E-12	2.61E-13	2.09E-12	2.60E-13	2.20E-12
cobalt	6.88E-11	3.64E-06	8.50E-11	4.46E-06	5.48E-11	4.19E-06	5.49E-11	4.26E-06
copper	1.31E-09	2.65E-06	1.80E-09	2.58E-06	1.01E-09	2.67E-06	1.01E-09	2.74E-06
gallium	5.86E-11	1.44E-08	7.10E-11	6.43E-09	4.70E-11	5.78E-09	4.71E-11	6.47E-09
indium	3.52E-10	8.62E-08	4.26E-10	3.86E-08	2.82E-10	3.47E-08	2.83E-10	3.88E-08
iron	2.93E-10	2.04E-03	3.55E-10	2.05E-03	2.35E-10	2.10E-03	2.36E-10	2.15E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.44E-08	1.69E-07	1.99E-08	1.49E-07	1.11E-08	1.43E-07	1.10E-08	1.47E-07
lithium	0.00E+00	2.91E-07	0.00E+00	2.71E-07	0.00E+00	2.88E-07	0.00E+00	2.96E-07
magnesium	0.00E+00	4.58E-04	0.00E+00	4.40E-04	0.00E+00	4.60E-04	0.00E+00	4.72E-04
manganese	1.46E-10	1.13E-05	1.91E-10	1.23E-05	1.14E-10	1.21E-05	1.14E-10	1.24E-05
mercury	3.75E-10	2.77E-09	5.19E-10	8.54E-10	2.89E-10	7.40E-10	2.88E-10	7.66E-10

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	1.07E-12	9.52E-08	1.49E-12	1.01E-07	8.28E-13	1.01E-07	8.24E-13	1.03E-07
nickel	6.41E-10	2.75E-07	8.88E-10	2.82E-07	4.94E-10	2.84E-07	4.92E-10	2.91E-07
palladium	5.86E-11	1.44E-08	7.10E-11	6.43E-09	4.70E-11	5.78E-09	4.71E-11	6.47E-09
phosphorus	7.15E-11	3.91E-06	8.89E-11	3.49E-06	5.70E-11	3.78E-06	5.71E-11	3.89E-06
potassium	0.00E+00	9.71E-04	0.00E+00	9.06E-04	0.00E+00	9.60E-04	0.00E+00	9.88E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.71E-11	8.69E-08	2.36E-11	8.32E-08	1.32E-11	8.70E-08	1.31E-11	8.94E-08
silicon	3.69E-09	9.05E-07	4.47E-09	4.05E-07	2.96E-09	3.64E-07	2.97E-09	4.08E-07
silver	7.98E-11	1.82E-08	1.00E-10	1.00E-08	6.34E-11	9.48E-09	6.34E-11	1.03E-08
sodium	0.00E+00	1.01E-04	0.00E+00	9.96E-05	0.00E+00	1.03E-04	0.00E+00	1.06E-04
strontium	0.00E+00	4.00E-07	0.00E+00	3.77E-07	0.00E+00	3.98E-07	0.00E+00	4.09E-07
thallium	0.00E+00	1.06E-08	0.00E+00	1.01E-08	0.00E+00	1.06E-08	0.00E+00	1.09E-08
tin	0.00E+00	1.08E-07	0.00E+00	1.09E-07	0.00E+00	1.12E-07	0.00E+00	1.15E-07
titanium	0.00E+00	3.22E-05	0.00E+00	3.15E-05	0.00E+00	3.27E-05	0.00E+00	3.35E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.21E-07	0.00E+00	1.25E-07	0.00E+00	1.27E-07	0.00E+00	1.30E-07
vanadium	4.34E-11	7.04E-07	6.01E-11	6.78E-07	3.35E-11	7.08E-07	3.33E-11	7.27E-07
yttrium	0.00E+00	2.65E-07	0.00E+00	2.64E-07	0.00E+00	2.71E-07	0.00E+00	2.78E-07
zinc	1.28E-09	6.61E-07	1.70E-09	5.65E-07	9.97E-10	5.88E-07	9.95E-10	6.08E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)								
aluminum	3.75E-10	7.07E-04	3.77E-10	6.94E-04	3.94E-10	4.12E-04	3.92E-10	5.66E-04
antimony	3.16E-10	1.65E-07	3.13E-10	1.62E-07	3.23E-10	9.40E-08	3.26E-10	1.28E-07
arsenic	2.14E-10	2.51E-05	2.12E-10	2.47E-05	2.19E-10	1.36E-05	2.21E-10	1.82E-05
barium	1.54E-11	7.47E-06	1.53E-11	7.33E-06	1.58E-11	4.38E-06	1.59E-11	6.03E-06
beryllium	2.82E-14	2.54E-08	2.80E-14	2.50E-08	2.89E-14	1.46E-08	2.91E-14	2.00E-08
bismuth	0.00E+00	8.61E-06	0.00E+00	8.45E-06	0.00E+00	4.92E-06	0.00E+00	6.71E-06
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	8.24E-10	3.94E-08	8.21E-10	3.92E-08	8.51E-10	2.63E-08	8.53E-10	2.80E-08
calcium	0.00E+00	2.76E-04	0.00E+00	2.71E-04	0.00E+00	1.55E-04	0.00E+00	2.10E-04
chromium	4.95E-10	7.19E-07	4.91E-10	7.05E-07	5.07E-10	4.19E-07	5.10E-10	5.74E-07
chromium VI	2.52E-13	1.74E-12	2.50E-13	1.89E-12	2.57E-13	1.38E-12	2.59E-13	1.54E-12
cobalt	5.44E-11	3.09E-06	5.46E-11	3.04E-06	5.70E-11	1.68E-06	5.67E-11	2.25E-06
copper	9.76E-10	1.97E-06	9.68E-10	1.94E-06	9.99E-10	1.14E-06	1.01E-09	1.56E-06
gallium	4.69E-11	5.88E-09	4.72E-11	5.83E-09	4.93E-11	3.91E-09	4.90E-11	4.09E-09
indium	2.81E-10	3.53E-08	2.83E-10	3.50E-08	2.96E-10	2.34E-08	2.94E-10	2.46E-08
iron	2.34E-10	1.55E-03	2.36E-10	1.52E-03	2.46E-10	8.88E-04	2.45E-10	1.21E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.07E-08	1.10E-07	1.06E-08	1.09E-07	1.09E-08	6.90E-08	1.10E-08	8.86E-08
lithium	0.00E+00	2.12E-07	0.00E+00	2.08E-07	0.00E+00	1.24E-07	0.00E+00	1.71E-07
magnesium	0.00E+00	3.39E-04	0.00E+00	3.33E-04	0.00E+00	1.97E-04	0.00E+00	2.70E-04
manganese	1.12E-10	8.94E-06	1.11E-10	8.79E-06	1.15E-10	5.02E-06	1.16E-10	6.80E-06
mercury	2.79E-10	6.45E-10	2.76E-10	6.82E-10	2.85E-10	5.62E-10	2.87E-10	6.04E-10

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	7.99E-13	7.44E-08	7.92E-13	7.31E-08	8.17E-13	4.21E-08	8.23E-13	5.72E-08
nickel	4.77E-10	2.10E-07	4.73E-10	2.06E-07	4.88E-10	1.20E-07	4.92E-10	1.63E-07
palladium	4.69E-11	5.88E-09	4.72E-11	5.83E-09	4.93E-11	3.91E-09	4.90E-11	4.09E-09
phosphorus	5.65E-11	2.79E-06	5.67E-11	2.73E-06	5.91E-11	1.65E-06	5.89E-11	2.27E-06
potassium	0.00E+00	7.08E-04	0.00E+00	6.94E-04	0.00E+00	4.14E-04	0.00E+00	5.70E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.27E-11	6.41E-08	1.26E-11	6.29E-08	1.30E-11	3.73E-08	1.31E-11	5.11E-08
silicon	2.95E-09	3.71E-07	2.97E-09	3.68E-07	3.11E-09	2.46E-07	3.08E-09	2.58E-07
silver	6.26E-11	8.62E-09	6.28E-11	8.53E-09	6.54E-11	5.50E-09	6.52E-11	6.25E-09
sodium	0.00E+00	7.59E-05	0.00E+00	7.45E-05	0.00E+00	4.38E-05	0.00E+00	6.00E-05
strontium	0.00E+00	2.93E-07	0.00E+00	2.88E-07	0.00E+00	1.71E-07	0.00E+00	2.35E-07
thallium	0.00E+00	7.83E-09	0.00E+00	7.69E-09	0.00E+00	4.56E-09	0.00E+00	6.26E-09
tin	0.00E+00	8.23E-08	0.00E+00	8.08E-08	0.00E+00	4.72E-08	0.00E+00	6.45E-08
titanium	0.00E+00	2.41E-05	0.00E+00	2.36E-05	0.00E+00	1.39E-05	0.00E+00	1.90E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	9.32E-08	0.00E+00	9.16E-08	0.00E+00	5.31E-08	0.00E+00	7.24E-08
vanadium	3.23E-11	5.22E-07	3.20E-11	5.12E-07	3.30E-11	3.03E-07	3.33E-11	4.15E-07
yttrium	0.00E+00	2.00E-07	0.00E+00	1.96E-07	0.00E+00	1.15E-07	0.00E+00	1.57E-07
zinc	9.72E-10	4.45E-07	9.69E-10	4.37E-07	1.00E-09	2.63E-07	1.01E-09	3.52E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)						
aluminum	5.38E-10	8.36E-04	4.18E-10	5.08E-04	4.20E-10	5.96E-04
antimony	5.03E-10	1.88E-07	3.53E-10	1.14E-07	3.61E-10	1.33E-07
arsenic	3.41E-10	2.65E-05	2.40E-10	1.61E-05	2.45E-10	1.83E-05
barium	2.46E-11	8.92E-06	1.73E-11	5.42E-06	1.76E-11	6.37E-06
beryllium	4.49E-14	2.96E-08	3.16E-14	1.79E-08	3.23E-14	2.10E-08
bismuth	0.00E+00	9.89E-06	0.00E+00	6.00E-06	0.00E+00	6.99E-06
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.27E-09	4.14E-08	9.21E-10	2.92E-08	9.36E-10	3.29E-08
calcium	0.00E+00	3.08E-04	0.00E+00	1.87E-04	0.00E+00	2.16E-04
chromium	7.80E-10	8.48E-07	5.53E-10	5.16E-07	5.65E-10	6.05E-07
chromium VI	4.01E-13	2.03E-12	2.82E-13	1.71E-12	2.88E-13	1.85E-12
cobalt	7.92E-11	3.29E-06	6.07E-11	1.99E-06	6.12E-11	2.27E-06
copper	1.55E-09	2.30E-06	1.09E-09	1.40E-06	1.11E-09	1.63E-06
gallium	6.72E-11	6.08E-09	5.23E-11	4.28E-09	5.25E-11	4.82E-09
indium	4.03E-10	3.65E-08	3.14E-10	2.57E-08	3.15E-10	2.89E-08
iron	3.36E-10	1.79E-03	2.62E-10	1.09E-03	2.63E-10	1.27E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.70E-08	1.31E-07	1.20E-08	8.26E-08	1.22E-08	9.43E-08
lithium	0.00E+00	2.53E-07	0.00E+00	1.53E-07	0.00E+00	1.80E-07
magnesium	0.00E+00	3.99E-04	0.00E+00	2.42E-04	0.00E+00	2.84E-04
manganese	1.70E-10	9.99E-06	1.25E-10	6.06E-06	1.27E-10	7.01E-06
mercury	4.44E-10	8.45E-10	3.12E-10	6.64E-10	3.19E-10	7.05E-10

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	1.27E-12	8.42E-08	8.94E-13	5.11E-08	9.13E-13	5.93E-08
nickel	7.59E-10	2.40E-07	5.34E-10	1.46E-07	5.45E-10	1.69E-07
palladium	6.72E-11	6.08E-09	5.23E-11	4.28E-09	5.25E-11	4.82E-09
phosphorus	8.25E-11	3.37E-06	6.31E-11	2.05E-06	6.35E-11	2.42E-06
potassium	0.00E+00	8.43E-04	0.00E+00	5.12E-04	0.00E+00	6.01E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	2.02E-11	7.55E-08	1.42E-11	4.59E-08	1.45E-11	5.38E-08
silicon	4.24E-09	3.83E-07	3.30E-09	2.69E-07	3.31E-09	3.04E-07
silver	9.23E-11	9.26E-09	6.99E-11	6.22E-09	7.06E-11	7.09E-09
sodium	0.00E+00	8.85E-05	0.00E+00	5.37E-05	0.00E+00	6.28E-05
strontium	0.00E+00	3.48E-07	0.00E+00	2.11E-07	0.00E+00	2.48E-07
thallium	0.00E+00	9.25E-09	0.00E+00	5.61E-09	0.00E+00	6.59E-09
tin	0.00E+00	9.51E-08	0.00E+00	5.77E-08	0.00E+00	6.73E-08
titanium	0.00E+00	2.81E-05	0.00E+00	1.71E-05	0.00E+00	2.00E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.07E-07	0.00E+00	6.47E-08	0.00E+00	7.52E-08
vanadium	5.14E-11	6.13E-07	3.61E-11	3.72E-07	3.69E-11	4.36E-07
yttrium	0.00E+00	2.32E-07	0.00E+00	1.41E-07	0.00E+00	1.64E-07
zinc	1.50E-09	5.21E-07	1.09E-09	3.21E-07	1.10E-09	3.75E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Dry Deposition (µg/m²/s)				
aluminum	4.13E-10	8.90E-04	1.00E-09	2.26E-01
antimony	3.62E-10	1.96E-07	2.01E-09	4.70E-05
arsenic	2.45E-10	2.65E-05	1.36E-09	5.79E-03
barium	1.77E-11	9.54E-06	9.79E-11	2.45E-03
beryllium	3.23E-14	3.12E-08	1.79E-13	7.78E-06
bismuth	0.00E+00	1.04E-05	0.00E+00	2.55E-03
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	9.32E-10	6.11E-08	4.20E-09	2.58E-06
calcium	0.00E+00	3.18E-04	0.00E+00	7.52E-02
chromium	5.64E-10	9.05E-07	2.97E-09	2.27E-04
chromium VI	2.88E-13	3.72E-12	1.60E-12	1.96E-10
cobalt	6.03E-11	3.30E-06	1.73E-10	7.26E-04
copper	1.12E-09	2.43E-06	6.02E-09	6.06E-04
gallium	5.17E-11	9.05E-09	1.25E-10	3.07E-07
indium	3.10E-10	5.43E-08	7.52E-10	1.84E-06
iron	2.58E-10	1.88E-03	6.27E-10	4.65E-01
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.23E-08	1.38E-07	6.77E-08	2.78E-05
lithium	0.00E+00	2.70E-07	0.00E+00	6.92E-05
magnesium	0.00E+00	4.24E-04	0.00E+00	1.07E-01
manganese	1.26E-10	1.03E-05	5.36E-10	2.44E-03
mercury	3.19E-10	1.17E-09	1.77E-09	4.94E-08

Table 10.III.2-26: Predicted Annual Metals Dry Depositions at Selected Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
molybdenum	9.15E-13	8.75E-08	5.07E-12	2.11E-05
nickel	5.46E-10	2.51E-07	3.03E-09	6.09E-05
palladium	5.17E-11	9.05E-09	1.25E-10	3.07E-07
phosphorus	6.27E-11	3.63E-06	1.86E-10	9.45E-04
potassium	0.00E+00	9.00E-04	0.00E+00	2.31E-01
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.46E-11	8.02E-08	8.06E-11	2.03E-05
silicon	3.26E-09	5.70E-07	7.90E-09	1.93E-05
silver	6.97E-11	1.25E-08	2.25E-10	1.13E-06
sodium	0.00E+00	9.35E-05	0.00E+00	2.34E-02
strontium	0.00E+00	3.70E-07	0.00E+00	9.45E-05
thallium	0.00E+00	9.83E-09	0.00E+00	2.50E-06
tin	0.00E+00	9.99E-08	0.00E+00	2.47E-05
titanium	0.00E+00	2.97E-05	0.00E+00	7.45E-03
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.11E-07	0.00E+00	2.72E-05
vanadium	3.70E-11	6.51E-07	2.05E-10	1.64E-04
yttrium	0.00E+00	2.44E-07	0.00E+00	6.08E-05
zinc	1.10E-09	5.75E-07	4.97E-09	1.31E-04
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.
µg/m²/s = microgram per square metre per second.

Table 10.III.2-27: Predicted Annual Metals Total Depostions at Selected Locations

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
aluminum	1.67E-06	1.89E-06	2.77E-07	8.88E-07	3.10E-11	3.18E-07	1.14E-11	7.09E-08
antimony	2.32E-11	9.49E-11	2.98E-11	2.52E-10	7.34E-11	1.76E-10	1.80E-11	4.46E-11
arsenic	1.58E-11	7.11E-09	2.02E-11	1.97E-08	4.98E-11	1.10E-08	1.22E-11	2.32E-09
barium	1.13E-12	2.39E-09	1.45E-12	6.51E-09	3.59E-12	3.37E-09	8.77E-13	7.55E-10
beryllium	2.08E-15	7.93E-12	2.66E-15	2.16E-11	6.56E-15	1.14E-11	1.61E-15	2.52E-12
bismuth	0.00E+00	2.65E-09	0.00E+00	7.25E-09	0.00E+00	3.83E-09	0.00E+00	8.43E-10
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	1.25E-06	1.25E-06	2.08E-07	2.09E-07	1.49E-10	4.66E-10	3.94E-11	1.57E-10
calcium	0.00E+00	8.25E-08	0.00E+00	2.27E-07	0.00E+00	1.22E-07	0.00E+00	2.65E-08
chromium	2.08E-07	2.09E-07	3.47E-08	3.55E-08	1.08E-10	4.92E-10	2.69E-11	1.22E-10
chromium VI	1.85E-14	5.27E-14	2.37E-14	1.58E-13	5.85E-14	1.05E-13	1.43E-14	3.11E-14
cobalt	2.08E-07	2.09E-07	3.46E-08	3.72E-08	5.63E-12	1.40E-09	1.86E-12	3.04E-10
copper	2.09E-07	2.09E-07	3.47E-08	3.68E-08	2.20E-10	1.23E-09	5.43E-11	2.96E-10
gallium	2.08E-07	2.08E-07	3.46E-08	3.48E-08	3.87E-12	4.82E-11	1.43E-12	1.79E-11
indium	1.25E-06	1.25E-06	2.08E-07	2.09E-07	2.32E-11	2.89E-10	8.57E-12	1.08E-10
iron	1.04E-06	1.52E-06	1.73E-07	1.48E-06	1.94E-11	6.90E-07	7.14E-12	1.52E-07
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	2.09E-07	2.09E-07	3.56E-08	3.61E-08	2.48E-09	2.66E-09	6.07E-10	6.69E-10
lithium	0.00E+00	6.77E-11	0.00E+00	1.84E-10	0.00E+00	9.54E-11	0.00E+00	2.14E-11
magnesium	0.00E+00	1.07E-07	0.00E+00	2.91E-07	0.00E+00	1.52E-07	0.00E+00	3.38E-08
manganese	2.08E-07	2.11E-07	3.46E-08	4.21E-08	1.89E-11	4.02E-09	5.11E-12	8.81E-10

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Gamètì		Whatì		Behchokǫ̀		Wekweetì	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
mercury	2.05E-11	2.89E-11	2.63E-11	5.95E-11	6.48E-11	7.62E-11	1.59E-11	2.00E-11
molybdenum	5.88E-14	2.27E-11	7.53E-14	6.23E-11	1.86E-13	3.33E-11	4.54E-14	7.30E-12
nickel	3.51E-11	1.12E-10	4.49E-11	2.72E-10	1.11E-10	2.21E-10	2.71E-11	5.40E-11
palladium	2.08E-07	2.08E-07	3.46E-08	3.48E-08	3.87E-12	4.82E-11	1.43E-12	1.79E-11
phosphorus	2.08E-07	2.09E-07	3.46E-08	3.72E-08	6.10E-12	1.31E-09	1.97E-12	3.02E-10
potassium	0.00E+00	2.26E-07	0.00E+00	6.14E-07	0.00E+00	3.18E-07	0.00E+00	7.12E-08
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	9.35E-13	2.21E-11	1.20E-12	5.99E-11	2.95E-12	3.29E-11	7.22E-13	7.56E-12
silicon	1.31E-05	1.31E-05	2.18E-06	2.19E-06	2.44E-10	3.04E-09	9.00E-11	1.13E-09
silver	2.08E-07	2.08E-07	3.46E-08	3.48E-08	7.54E-12	5.45E-11	2.32E-12	1.96E-11
sodium	0.00E+00	2.37E-08	0.00E+00	6.47E-08	0.00E+00	3.39E-08	0.00E+00	7.52E-09
strontium	0.00E+00	9.31E-11	0.00E+00	2.53E-10	0.00E+00	1.32E-10	0.00E+00	2.94E-11
thallium	0.00E+00	2.48E-12	0.00E+00	6.75E-12	0.00E+00	3.51E-12	0.00E+00	7.83E-13
tin	0.00E+00	2.55E-11	0.00E+00	6.96E-11	0.00E+00	3.67E-11	0.00E+00	8.10E-12
titanium	0.00E+00	7.53E-09	0.00E+00	2.05E-08	0.00E+00	1.08E-08	0.00E+00	2.39E-09
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.85E-11	0.00E+00	7.81E-11	0.00E+00	4.15E-11	0.00E+00	9.10E-12
vanadium	2.37E-12	1.71E-10	3.04E-12	4.68E-10	7.50E-12	2.47E-10	1.84E-12	5.60E-11
yttrium	0.00E+00	6.21E-11	0.00E+00	1.70E-10	0.00E+00	8.92E-11	0.00E+00	1.97E-11
zinc	1.46E-06	1.46E-06	2.42E-07	2.44E-07	1.77E-10	7.29E-10	4.66E-11	2.25E-10
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
aluminum	1.40E-11	9.25E-08	5.78E-11	1.04E-03	5.33E-11	1.29E-04	5.42E-11	1.39E-04
antimony	3.39E-11	7.05E-11	2.12E-10	2.33E-07	1.69E-10	3.16E-08	1.76E-10	3.36E-08
arsenic	2.30E-11	3.09E-09	1.44E-10	3.07E-05	1.14E-10	4.74E-06	1.19E-10	5.00E-06
barium	1.65E-12	9.83E-10	1.04E-11	1.12E-05	8.23E-12	1.36E-06	8.59E-12	1.47E-06
beryllium	3.03E-15	3.29E-12	1.90E-14	3.64E-08	1.51E-14	4.67E-09	1.57E-14	5.02E-09
bismuth	0.00E+00	1.10E-09	0.00E+00	1.21E-05	0.00E+00	1.59E-06	0.00E+00	1.70E-06
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	6.88E-11	2.39E-10	4.08E-10	5.36E-08	3.30E-10	1.53E-08	3.43E-10	1.46E-08
calcium	0.00E+00	3.48E-08	0.00E+00	3.70E-04	0.00E+00	5.14E-05	0.00E+00	5.48E-05
chromium	4.98E-11	1.78E-10	3.08E-10	1.06E-06	2.45E-10	1.33E-07	2.56E-10	1.43E-07
chromium VI	2.70E-14	5.17E-14	1.69E-13	1.12E-11	1.34E-13	1.89E-12	1.40E-13	1.64E-12
cobalt	2.57E-12	4.05E-10	1.23E-11	3.82E-06	1.07E-11	5.83E-07	1.10E-11	6.15E-07
copper	1.01E-10	4.25E-10	6.31E-10	2.85E-06	5.02E-10	3.66E-07	5.24E-10	3.92E-07
gallium	1.76E-12	2.57E-11	7.23E-12	6.43E-09	6.66E-12	2.12E-09	6.78E-12	2.05E-09
indium	1.05E-11	1.54E-10	4.34E-11	3.86E-08	4.00E-11	1.27E-08	4.07E-11	1.23E-08
iron	8.78E-12	1.99E-07	3.61E-11	2.20E-03	3.33E-11	2.85E-04	3.39E-11	3.06E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	1.14E-09	1.23E-09	7.16E-09	1.66E-07	5.69E-09	2.82E-08	5.94E-09	2.91E-08
lithium	0.00E+00	2.78E-11	0.00E+00	3.16E-07	0.00E+00	3.87E-08	0.00E+00	4.18E-08
magnesium	0.00E+00	4.41E-08	0.00E+00	4.96E-04	0.00E+00	6.20E-05	0.00E+00	6.68E-05
manganese	8.69E-12	1.16E-09	5.07E-11	1.20E-05	4.12E-11	1.67E-06	4.28E-11	1.77E-06
mercury	2.99E-11	3.60E-11	1.87E-10	2.90E-09	1.49E-10	5.82E-10	1.55E-10	5.24E-10

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Yellowknife		Worker Camp		Marian River Receptor 1		Marian River Receptor 2	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	8.57E-14	9.62E-12	5.37E-13	1.02E-07	4.26E-13	1.38E-08	4.45E-13	1.47E-08
nickel	5.12E-11	8.74E-11	3.20E-10	2.95E-07	2.54E-10	3.95E-08	2.66E-10	4.21E-08
palladium	1.76E-12	2.57E-11	7.23E-12	6.43E-09	6.66E-12	2.12E-09	6.78E-12	2.05E-09
phosphorus	2.79E-12	3.96E-10	1.37E-11	4.26E-06	1.18E-11	5.06E-07	1.21E-11	5.49E-07
potassium	0.00E+00	9.28E-08	0.00E+00	1.05E-03	0.00E+00	1.29E-04	0.00E+00	1.39E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	1.36E-12	1.04E-11	8.53E-12	9.40E-08	6.78E-12	1.18E-08	7.08E-12	1.27E-08
silicon	1.11E-10	1.62E-09	4.55E-10	4.05E-07	4.20E-10	1.34E-07	4.27E-10	1.29E-07
silver	3.45E-12	2.85E-11	1.78E-11	1.06E-08	1.51E-11	2.68E-09	1.56E-11	2.63E-09
sodium	0.00E+00	9.82E-09	0.00E+00	1.09E-04	0.00E+00	1.39E-05	0.00E+00	1.50E-05
strontium	0.00E+00	3.83E-11	0.00E+00	4.34E-07	0.00E+00	5.35E-08	0.00E+00	5.77E-08
thallium	0.00E+00	1.02E-12	0.00E+00	1.15E-08	0.00E+00	1.43E-09	0.00E+00	1.54E-09
tin	0.00E+00	1.06E-11	0.00E+00	1.17E-07	0.00E+00	1.52E-08	0.00E+00	1.63E-08
titanium	0.00E+00	3.12E-09	0.00E+00	3.48E-05	0.00E+00	4.42E-06	0.00E+00	4.75E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	1.19E-11	0.00E+00	1.30E-07	0.00E+00	1.72E-08	0.00E+00	1.84E-08
vanadium	3.46E-12	7.45E-11	2.17E-11	7.62E-07	1.72E-11	9.58E-08	1.80E-11	1.03E-07
yttrium	0.00E+00	2.58E-11	0.00E+00	2.85E-07	0.00E+00	3.67E-08	0.00E+00	3.95E-08
zinc	8.14E-11	3.34E-10	4.83E-10	6.52E-07	3.90E-10	9.08E-08	4.06E-10	9.57E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
aluminum	5.47E-11	2.10E-04	5.48E-11	2.18E-04	5.54E-11	2.07E-04	5.62E-11	1.62E-04
antimony	1.80E-10	4.79E-08	1.81E-10	4.96E-08	1.84E-10	5.00E-08	1.87E-10	3.85E-08
arsenic	1.22E-10	6.54E-06	1.23E-10	6.73E-06	1.25E-10	7.04E-06	1.27E-10	5.32E-06
barium	8.80E-12	2.24E-06	8.83E-12	2.33E-06	8.96E-12	2.19E-06	9.11E-12	1.73E-06
beryllium	1.61E-14	7.40E-09	1.62E-14	7.67E-09	1.64E-14	7.38E-09	1.67E-14	5.77E-09
bismuth	0.00E+00	2.47E-06	0.00E+00	2.56E-06	0.00E+00	2.49E-06	0.00E+00	1.94E-06
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	3.51E-10	2.05E-08	3.52E-10	2.14E-08	3.57E-10	3.55E-08	3.63E-10	2.56E-08
calcium	0.00E+00	7.66E-05	0.00E+00	7.92E-05	0.00E+00	7.90E-05	0.00E+00	6.08E-05
chromium	2.62E-10	2.15E-07	2.63E-10	2.23E-07	2.67E-10	2.15E-07	2.72E-10	1.68E-07
chromium VI	1.44E-13	2.20E-12	1.44E-13	2.37E-12	1.46E-13	4.36E-12	1.49E-13	2.94E-12
cobalt	1.11E-11	8.12E-07	1.12E-11	8.36E-07	1.13E-11	8.72E-07	1.15E-11	6.60E-07
copper	5.37E-10	5.80E-07	5.38E-10	6.01E-07	5.47E-10	5.83E-07	5.56E-10	4.55E-07
gallium	6.83E-12	2.90E-09	6.85E-12	3.01E-09	6.92E-12	5.01E-09	7.03E-12	3.65E-09
indium	4.10E-11	1.74E-08	4.11E-11	1.81E-08	4.15E-11	3.01E-08	4.22E-11	2.19E-08
iron	3.42E-11	4.47E-04	3.42E-11	4.63E-04	3.46E-11	4.48E-04	3.51E-11	3.49E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	6.08E-09	3.95E-08	6.10E-09	4.10E-08	6.20E-09	4.65E-08	6.30E-09	3.64E-08
lithium	0.00E+00	6.34E-08	0.00E+00	6.59E-08	0.00E+00	6.21E-08	0.00E+00	4.90E-08
magnesium	0.00E+00	1.00E-04	0.00E+00	1.04E-04	0.00E+00	9.88E-05	0.00E+00	7.76E-05
manganese	4.37E-11	2.49E-06	4.39E-11	2.57E-06	4.45E-11	2.56E-06	4.52E-11	1.97E-06
mercury	1.59E-10	6.65E-10	1.60E-10	7.09E-10	1.62E-10	1.20E-09	1.65E-10	8.52E-10

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Marian River Receptor 3		Marian River Receptor 4		Marian River Receptor 5		Marian River Receptor 6	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	4.56E-13	2.10E-08	4.57E-13	2.17E-08	4.64E-13	2.14E-08	4.72E-13	1.66E-08
nickel	2.72E-10	6.05E-08	2.73E-10	6.27E-08	2.77E-10	6.21E-08	2.82E-10	4.81E-08
palladium	6.83E-12	2.90E-09	6.85E-12	3.01E-09	6.92E-12	5.01E-09	7.03E-12	3.65E-09
phosphorus	1.23E-11	8.49E-07	1.23E-11	8.83E-07	1.25E-11	8.24E-07	1.27E-11	6.53E-07
potassium	0.00E+00	2.11E-04	0.00E+00	2.20E-04	0.00E+00	2.07E-04	0.00E+00	1.63E-04
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	7.24E-12	1.90E-08	7.27E-12	1.97E-08	7.38E-12	1.88E-08	7.51E-12	1.48E-08
silicon	4.30E-10	1.82E-07	4.31E-10	1.90E-07	4.36E-10	3.16E-07	4.43E-10	2.30E-07
silver	1.58E-11	3.75E-09	1.59E-11	3.89E-09	1.61E-11	5.93E-09	1.63E-11	4.35E-09
sodium	0.00E+00	2.21E-05	0.00E+00	2.30E-05	0.00E+00	2.21E-05	0.00E+00	1.73E-05
strontium	0.00E+00	8.72E-08	0.00E+00	9.05E-08	0.00E+00	8.57E-08	0.00E+00	6.75E-08
thallium	0.00E+00	2.32E-09	0.00E+00	2.41E-09	0.00E+00	2.29E-09	0.00E+00	1.80E-09
tin	0.00E+00	2.38E-08	0.00E+00	2.46E-08	0.00E+00	2.38E-08	0.00E+00	1.86E-08
titanium	0.00E+00	7.04E-06	0.00E+00	7.30E-06	0.00E+00	7.00E-06	0.00E+00	5.48E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.66E-08	0.00E+00	2.75E-08	0.00E+00	2.69E-08	0.00E+00	2.09E-08
vanadium	1.84E-11	1.54E-07	1.85E-11	1.60E-07	1.88E-11	1.53E-07	1.91E-11	1.20E-07
yttrium	0.00E+00	5.80E-08	0.00E+00	6.01E-08	0.00E+00	5.79E-08	0.00E+00	4.53E-08
zinc	4.15E-10	1.43E-07	4.17E-10	1.48E-07	4.23E-10	1.58E-07	4.30E-10	1.22E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
aluminum	4.81E-11	1.71E-05	5.29E-11	3.29E-05	5.26E-11	7.49E-05	5.23E-11	5.71E-05
antimony	1.18E-10	4.26E-09	1.56E-10	8.17E-09	1.61E-10	1.81E-08	1.56E-10	1.39E-08
arsenic	8.02E-11	5.04E-07	1.06E-10	1.16E-06	1.09E-10	2.63E-06	1.06E-10	2.02E-06
barium	5.77E-12	1.84E-07	7.60E-12	3.48E-07	7.84E-12	7.91E-07	7.62E-12	6.03E-07
beryllium	1.06E-14	6.00E-10	1.39E-14	1.18E-09	1.43E-14	2.69E-09	1.39E-14	2.05E-09
bismuth	0.00E+00	1.99E-07	0.00E+00	4.00E-07	0.00E+00	9.09E-07	0.00E+00	6.94E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.39E-10	5.34E-09	3.07E-10	6.23E-09	3.15E-10	9.50E-09	3.07E-10	9.09E-09
calcium	0.00E+00	6.08E-06	0.00E+00	1.28E-05	0.00E+00	2.91E-05	0.00E+00	2.23E-05
chromium	1.74E-10	1.84E-08	2.27E-10	3.45E-08	2.34E-10	7.73E-08	2.28E-10	5.93E-08
chromium VI	9.42E-14	7.65E-13	1.24E-13	7.66E-13	1.28E-13	1.14E-12	1.24E-13	1.03E-12
cobalt	8.83E-12	6.33E-08	1.03E-11	1.43E-07	1.04E-11	3.24E-07	1.03E-11	2.49E-07
copper	3.54E-10	4.88E-08	4.64E-10	9.37E-08	4.79E-10	2.11E-07	4.66E-10	1.62E-07
gallium	6.01E-12	7.29E-10	6.61E-12	8.64E-10	6.58E-12	1.32E-09	6.53E-12	1.28E-09
indium	3.61E-11	4.38E-09	3.97E-11	5.18E-09	3.95E-11	7.93E-09	3.92E-11	7.69E-09
iron	3.01E-11	3.61E-05	3.30E-11	7.19E-05	3.29E-11	1.63E-04	3.27E-11	1.25E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	3.99E-09	8.28E-09	5.25E-09	1.17E-08	5.42E-09	1.85E-08	5.27E-09	1.58E-08
lithium	0.00E+00	5.20E-09	0.00E+00	9.88E-09	0.00E+00	2.25E-08	0.00E+00	1.71E-08
magnesium	0.00E+00	8.16E-06	0.00E+00	1.58E-05	0.00E+00	3.58E-05	0.00E+00	2.73E-05
manganese	3.02E-11	1.98E-07	3.85E-11	4.15E-07	3.94E-11	9.42E-07	3.85E-11	7.22E-07
mercury	1.04E-10	2.70E-10	1.37E-10	2.96E-10	1.42E-10	3.92E-10	1.38E-10	3.62E-10

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Bea Lake Receptor		Hislop Lake Receptor 1		Hislop Lake Receptor 2		Hislop Lake Receptor 3	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	2.99E-13	1.68E-09	3.93E-13	3.45E-09	4.06E-13	7.84E-09	3.95E-13	6.00E-09
nickel	1.78E-10	5.22E-09	2.35E-10	1.02E-08	2.42E-10	2.26E-08	2.36E-10	1.74E-08
palladium	6.01E-12	7.29E-10	6.61E-12	8.64E-10	6.58E-12	1.32E-09	6.53E-12	1.28E-09
phosphorus	9.60E-12	7.07E-08	1.13E-11	1.31E-07	1.15E-11	2.96E-07	1.13E-11	2.26E-07
potassium	0.00E+00	1.73E-05	0.00E+00	3.30E-05	0.00E+00	7.50E-05	0.00E+00	5.71E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	4.75E-12	1.57E-09	6.26E-12	3.00E-09	6.45E-12	6.81E-09	6.28E-12	5.20E-09
silicon	3.79E-10	4.60E-08	4.16E-10	5.44E-08	4.14E-10	8.33E-08	4.11E-10	8.07E-08
silver	1.19E-11	8.19E-10	1.44E-11	1.02E-09	1.46E-11	1.65E-09	1.43E-11	1.53E-09
sodium	0.00E+00	1.80E-06	0.00E+00	3.53E-06	0.00E+00	8.02E-06	0.00E+00	6.12E-06
strontium	0.00E+00	7.14E-09	0.00E+00	1.36E-08	0.00E+00	3.10E-08	0.00E+00	2.37E-08
thallium	0.00E+00	1.89E-10	0.00E+00	3.65E-10	0.00E+00	8.29E-10	0.00E+00	6.32E-10
tin	0.00E+00	1.92E-09	0.00E+00	3.82E-09	0.00E+00	8.69E-09	0.00E+00	6.64E-09
titanium	0.00E+00	5.72E-07	0.00E+00	1.12E-06	0.00E+00	2.54E-06	0.00E+00	1.94E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	2.14E-09	0.00E+00	4.33E-09	0.00E+00	9.83E-09	0.00E+00	7.52E-09
vanadium	1.21E-11	1.26E-08	1.59E-11	2.44E-08	1.64E-11	5.53E-08	1.60E-11	4.22E-08
yttrium	0.00E+00	4.69E-09	0.00E+00	9.29E-09	0.00E+00	2.11E-08	0.00E+00	1.61E-08
zinc	2.83E-10	1.60E-08	3.64E-10	2.59E-08	3.73E-10	5.34E-08	3.64E-10	4.29E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)								
aluminum	5.20E-11	5.15E-05	5.24E-11	5.94E-05	5.36E-11	4.39E-05	5.36E-11	4.95E-05
antimony	1.50E-10	1.27E-08	1.50E-10	1.44E-08	1.44E-10	1.05E-08	1.53E-10	1.17E-08
arsenic	1.02E-10	1.72E-06	1.02E-10	1.97E-06	9.78E-11	1.36E-06	1.04E-10	1.47E-06
barium	7.32E-12	5.47E-07	7.33E-12	6.31E-07	7.04E-12	4.70E-07	7.46E-12	5.30E-07
beryllium	1.34E-14	1.84E-09	1.34E-14	2.12E-09	1.29E-14	1.55E-09	1.37E-14	1.73E-09
bismuth	0.00E+00	6.18E-07	0.00E+00	7.11E-07	0.00E+00	5.17E-07	0.00E+00	5.75E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.97E-10	1.17E-08	2.97E-10	1.16E-08	2.88E-10	9.79E-09	3.03E-10	1.01E-08
calcium	0.00E+00	1.95E-05	0.00E+00	2.24E-05	0.00E+00	1.60E-05	0.00E+00	1.76E-05
chromium	2.19E-10	5.43E-08	2.19E-10	6.21E-08	2.11E-10	4.62E-08	2.23E-10	5.18E-08
chromium VI	1.19E-13	1.51E-12	1.20E-13	1.33E-12	1.15E-13	1.19E-12	1.22E-13	1.35E-12
cobalt	1.01E-11	2.14E-07	1.01E-11	2.45E-07	1.01E-11	1.70E-07	1.04E-11	1.83E-07
copper	4.47E-10	1.47E-07	4.48E-10	1.68E-07	4.30E-10	1.24E-07	4.56E-10	1.38E-07
gallium	6.50E-12	1.64E-09	6.56E-12	1.64E-09	6.70E-12	1.38E-09	6.70E-12	1.39E-09
indium	3.90E-11	9.84E-09	3.93E-11	9.84E-09	4.02E-11	8.28E-09	4.02E-11	8.36E-09
iron	3.25E-11	1.11E-04	3.28E-11	1.28E-04	3.35E-11	9.35E-05	3.35E-11	1.04E-04
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	5.06E-09	1.62E-08	5.07E-09	1.68E-08	4.86E-09	1.40E-08	5.16E-09	1.53E-08
lithium	0.00E+00	1.55E-08	0.00E+00	1.79E-08	0.00E+00	1.33E-08	0.00E+00	1.50E-08
magnesium	0.00E+00	2.46E-05	0.00E+00	2.84E-05	0.00E+00	2.09E-05	0.00E+00	2.35E-05
manganese	3.72E-11	6.34E-07	3.73E-11	7.28E-07	3.62E-11	5.20E-07	3.80E-11	5.73E-07
mercury	1.32E-10	4.75E-10	1.33E-10	4.32E-10	1.27E-10	3.91E-10	1.35E-10	4.37E-10

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Hislop Lake Receptor 4		Hislop Lake Receptor 5		Hislop Lake Receptor 6		Hislop Lake Receptor 7	
	Baseline	Application	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.79E-13	5.30E-09	3.80E-13	6.09E-09	3.64E-13	4.38E-09	3.87E-13	4.86E-09
nickel	2.26E-10	1.57E-08	2.27E-10	1.79E-08	2.18E-10	1.31E-08	2.31E-10	1.45E-08
palladium	6.50E-12	1.64E-09	6.56E-12	1.64E-09	6.70E-12	1.38E-09	6.70E-12	1.39E-09
phosphorus	1.11E-11	2.07E-07	1.11E-11	2.39E-07	1.11E-11	1.79E-07	1.13E-11	2.03E-07
potassium	0.00E+00	5.18E-05	0.00E+00	5.97E-05	0.00E+00	4.43E-05	0.00E+00	5.00E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	6.03E-12	4.70E-09	6.04E-12	5.41E-09	5.79E-12	3.99E-09	6.15E-12	4.49E-09
silicon	4.10E-10	1.03E-07	4.13E-10	1.03E-07	4.22E-10	8.69E-08	4.22E-10	8.78E-08
silver	1.40E-11	1.88E-09	1.41E-11	1.91E-09	1.39E-11	1.58E-09	1.43E-11	1.62E-09
sodium	0.00E+00	5.49E-06	0.00E+00	6.32E-06	0.00E+00	4.64E-06	0.00E+00	5.19E-06
strontium	0.00E+00	2.14E-08	0.00E+00	2.47E-08	0.00E+00	1.83E-08	0.00E+00	2.06E-08
thallium	0.00E+00	5.70E-10	0.00E+00	6.57E-10	0.00E+00	4.86E-10	0.00E+00	5.46E-10
tin	0.00E+00	5.93E-09	0.00E+00	6.82E-09	0.00E+00	4.97E-09	0.00E+00	5.55E-09
titanium	0.00E+00	1.74E-06	0.00E+00	2.01E-06	0.00E+00	1.47E-06	0.00E+00	1.65E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	6.67E-09	0.00E+00	7.68E-09	0.00E+00	5.56E-09	0.00E+00	6.18E-09
vanadium	1.53E-11	3.81E-08	1.53E-11	4.38E-08	1.47E-11	3.23E-08	1.56E-11	3.63E-08
yttrium	0.00E+00	1.44E-08	0.00E+00	1.66E-08	0.00E+00	1.21E-08	0.00E+00	1.36E-08
zinc	3.51E-10	4.29E-08	3.52E-10	4.71E-08	3.41E-10	3.63E-08	3.59E-10	3.98E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)						
aluminum	5.40E-11	2.87E-05	5.38E-11	2.83E-05	5.32E-11	3.33E-05
antimony	1.45E-10	6.99E-09	1.48E-10	6.84E-09	1.47E-10	7.81E-09
arsenic	9.81E-11	8.54E-07	1.00E-10	8.33E-07	9.98E-11	9.64E-07
barium	7.06E-12	3.08E-07	7.20E-12	3.04E-07	7.18E-12	3.58E-07
beryllium	1.29E-14	1.01E-09	1.32E-14	9.91E-10	1.31E-14	1.16E-09
bismuth	0.00E+00	3.35E-07	0.00E+00	3.29E-07	0.00E+00	3.85E-07
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.89E-10	7.38E-09	2.94E-10	6.56E-09	2.93E-10	6.23E-09
calcium	0.00E+00	1.03E-05	0.00E+00	1.01E-05	0.00E+00	1.17E-05
chromium	2.12E-10	3.05E-08	2.16E-10	2.99E-08	2.15E-10	3.48E-08
chromium VI	1.15E-13	1.05E-12	1.18E-13	9.75E-13	1.17E-13	8.65E-13
cobalt	1.02E-11	1.07E-07	1.02E-11	1.04E-07	1.02E-11	1.21E-07
copper	4.32E-10	8.12E-08	4.40E-10	7.98E-08	4.39E-10	9.29E-08
gallium	6.74E-12	1.01E-09	6.72E-12	8.85E-10	6.65E-12	8.48E-10
indium	4.05E-11	6.05E-09	4.03E-11	5.31E-09	3.99E-11	5.09E-09
iron	3.37E-11	6.06E-05	3.36E-11	5.97E-05	3.32E-11	7.00E-05
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.88E-09	1.15E-08	4.98E-09	1.12E-08	4.96E-09	1.15E-08
lithium	0.00E+00	8.72E-09	0.00E+00	8.60E-09	0.00E+00	1.01E-08
magnesium	0.00E+00	1.37E-05	0.00E+00	1.35E-05	0.00E+00	1.58E-05
manganese	3.63E-11	3.33E-07	3.69E-11	3.27E-07	3.68E-11	3.81E-07
mercury	1.28E-10	3.59E-10	1.30E-10	3.42E-10	1.30E-10	3.14E-10

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Hislop Lake Receptor 8		Hislop Lake Receptor 9		Hislop Lake Receptor 10	
	Baseline	Application	Baseline	Application	Baseline	Application
molybdenum	3.66E-13	2.82E-09	3.73E-13	2.77E-09	3.72E-13	3.24E-09
nickel	2.18E-10	8.62E-09	2.23E-10	8.46E-09	2.22E-10	9.76E-09
palladium	6.74E-12	1.01E-09	6.72E-12	8.85E-10	6.65E-12	8.48E-10
phosphorus	1.11E-11	1.18E-07	1.12E-11	1.17E-07	1.11E-11	1.37E-07
potassium	0.00E+00	2.90E-05	0.00E+00	2.87E-05	0.00E+00	3.37E-05
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.81E-12	2.62E-09	5.93E-12	2.58E-09	5.91E-12	3.02E-09
silicon	4.25E-10	6.35E-08	4.23E-10	5.57E-08	4.19E-10	5.34E-08
silver	1.40E-11	1.15E-09	1.41E-11	1.02E-09	1.40E-11	1.00E-09
sodium	0.00E+00	3.02E-06	0.00E+00	2.97E-06	0.00E+00	3.49E-06
strontium	0.00E+00	1.20E-08	0.00E+00	1.18E-08	0.00E+00	1.39E-08
thallium	0.00E+00	3.17E-10	0.00E+00	3.13E-10	0.00E+00	3.68E-10
tin	0.00E+00	3.22E-09	0.00E+00	3.17E-09	0.00E+00	3.72E-09
titanium	0.00E+00	9.59E-07	0.00E+00	9.45E-07	0.00E+00	1.11E-06
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	3.59E-09	0.00E+00	3.53E-09	0.00E+00	4.14E-09
vanadium	1.48E-11	2.11E-08	1.51E-11	2.08E-08	1.50E-11	2.44E-08
yttrium	0.00E+00	7.88E-09	0.00E+00	7.76E-09	0.00E+00	9.10E-09
zinc	3.42E-10	2.49E-08	3.48E-10	2.38E-08	3.46E-10	2.62E-08
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
Annual Total Deposition (µg/m²/s)				
aluminum	5.18E-11	3.64E-05	6.01E-11	1.24E-03
antimony	1.46E-10	8.52E-09	2.33E-10	2.63E-07
arsenic	9.93E-11	1.04E-06	1.58E-10	3.23E-05
barium	7.15E-12	3.92E-07	1.14E-11	1.34E-05
beryllium	1.31E-14	1.27E-09	2.08E-14	4.27E-08
bismuth	0.00E+00	4.20E-07	0.00E+00	1.40E-05
boron	0.00E+00	0.00E+00	0.00E+00	0.00E+00
bromine	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cadmium	2.90E-10	6.81E-09	4.45E-10	9.15E-08
calcium	0.00E+00	1.27E-05	0.00E+00	4.16E-04
chromium	2.14E-10	3.81E-08	3.38E-10	1.25E-06
chromium VI	1.17E-13	1.01E-12	1.86E-13	1.24E-11
cobalt	9.97E-12	1.30E-07	1.31E-11	4.05E-06
copper	4.37E-10	1.01E-07	6.92E-10	3.34E-06
gallium	6.48E-12	9.18E-10	7.51E-12	1.31E-08
indium	3.89E-11	5.51E-09	4.51E-11	7.87E-08
iron	3.24E-11	7.63E-05	3.76E-11	2.56E-03
lanthanum	0.00E+00	0.00E+00	0.00E+00	0.00E+00
lead	4.94E-09	1.22E-08	7.86E-09	1.74E-07
lithium	0.00E+00	1.11E-08	0.00E+00	3.79E-07
magnesium	0.00E+00	1.73E-05	0.00E+00	5.88E-04
manganese	3.64E-11	4.13E-07	5.52E-11	1.35E-05
mercury	1.29E-10	3.49E-10	2.06E-10	3.18E-09

Table 10.III.2-27: Predicted Annual Metals Total Depositions Locations (continued)

Compounds	Hislop Lake Receptor 11		Maximum Outside NICO Project Lease Boundary[a]	
	Baseline	Application	Baseline	Application
molybdenum	3.70E-13	3.52E-09	5.89E-13	1.16E-07
nickel	2.21E-10	1.06E-08	3.52E-10	3.38E-07
palladium	6.48E-12	9.18E-10	7.51E-12	1.31E-08
phosphorus	1.09E-11	1.50E-07	1.46E-11	5.17E-06
potassium	0.00E+00	3.69E-05	0.00E+00	1.26E-03
rubidium	0.00E+00	0.00E+00	0.00E+00	0.00E+00
selenium	5.89E-12	3.30E-09	9.36E-12	1.11E-07
silicon	4.08E-10	5.79E-08	4.73E-10	8.27E-07
silver	1.38E-11	1.09E-09	1.91E-11	1.58E-08
sodium	0.00E+00	3.81E-06	0.00E+00	1.29E-04
strontium	0.00E+00	1.52E-08	0.00E+00	5.18E-07
thallium	0.00E+00	4.02E-10	0.00E+00	1.37E-08
tin	0.00E+00	4.05E-09	0.00E+00	1.36E-07
titanium	0.00E+00	1.21E-06	0.00E+00	4.09E-05
tungsten	0.00E+00	0.00E+00	0.00E+00	0.00E+00
uranium	0.00E+00	4.50E-09	0.00E+00	1.50E-07
vanadium	1.50E-11	2.67E-08	2.38E-11	9.03E-07
yttrium	0.00E+00	9.92E-09	0.00E+00	3.34E-07
zinc	3.44E-10	2.86E-08	5.27E-10	7.57E-07
zirconium	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[a] These values are based on maximum predictions outside the NICO Project Lease Boundary within the local study area.
µg/m²/s = microgram per square metre per second.

10.III.3 PREDICTED AIR QUALITY AT SELECTED LAKES

Table 10.III.2-28: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Aluminum ($\mu g/m^2/s$)	Antimony ($\mu g/m^2/s$)	Arsenic ($\mu g/m^2/s$)	Barium ($\mu g/m^2/s$)	Beryllium ($\mu g/m^2/s$)	Bismuth ($\mu g/m^2/s$)	Boron ($\mu g/m^2/s$)	Bromine ($\mu g/m^2/s$)
1	Burke	Burke Lake Deep Bottom; Deep Top	3.41E-03	7.60E-07	1.06E-04	3.64E-05	1.20E-07	4.01E-05	0.00E+00	0.00E+00
1	Burke	Burke Lake Shallow	4.06E-03	8.84E-07	1.18E-04	4.36E-05	1.42E-07	4.71E-05	0.00E+00	0.00E+00
2	Chalco	Chalco Lake	2.27E-02	4.77E-06	5.89E-04	2.46E-04	7.83E-07	2.57E-04	0.00E+00	0.00E+00
3	Clouter	Clouter Lake (Lake 5)	2.28E-03	5.12E-07	7.24E-05	2.44E-05	8.01E-08	2.70E-05	0.00E+00	0.00E+00
3	Clouter	Clouter Lake (Lake 5) SE	2.13E-03	5.05E-07	7.89E-05	2.24E-05	7.75E-08	2.63E-05	0.00E+00	0.00E+00
5	Lion	Lion Lake Deep Top; Deep Bottom	1.25E-03	2.77E-07	3.78E-05	1.34E-05	4.40E-08	1.46E-05	0.00E+00	0.00E+00
6	Little Grid Pond	Little Grid Pond	2.84E-01	5.85E-05	7.07E-03	3.08E-03	9.72E-06	3.18E-03	0.00E+00	0.00E+00
7	Grid Pond	Grid Pond	1.73E-01	3.58E-05	4.40E-03	1.87E-03	5.93E-06	1.94E-03	0.00E+00	0.00E+00
10	Lou	Lou Lake Deep Top; Deep Bottom	4.84E-03	1.03E-06	1.32E-04	5.23E-05	1.68E-07	5.53E-05	0.00E+00	0.00E+00
10	Lou	Lou Lake Shallow	3.71E-03	8.18E-07	1.08E-04	3.99E-05	1.30E-07	4.31E-05	0.00E+00	0.00E+00
14	Nico	Nico Lake Deep Bottom; Deep Top	8.87E-03	1.82E-06	2.19E-04	9.64E-05	3.04E-07	9.92E-05	0.00E+00	0.00E+00
14	Nico	Nico Lake Shallow	8.67E-03	1.78E-06	2.14E-04	9.42E-05	2.97E-07	9.70E-05	0.00E+00	0.00E+00
15	Peanut	Peanut Lake Deep Top; Deep Bottom	7.17E-03	1.56E-06	2.08E-04	7.71E-05	2.50E-07	8.31E-05	0.00E+00	0.00E+00
15	Peanut	Peanut Lake Shallow	6.47E-03	1.39E-06	1.80E-04	6.97E-05	2.25E-07	7.42E-05	0.00E+00	0.00E+00
11	Pond 11	Pond 11	9.26E-03	2.15E-06	3.17E-04	9.82E-05	3.32E-07	1.12E-04	0.00E+00	0.00E+00
12	Pond 12	Pond 12	7.43E-03	1.71E-06	2.48E-04	7.90E-05	2.66E-07	8.91E-05	0.00E+00	0.00E+00
13	Pond 13	Pond 13	8.96E-03	2.01E-06	2.83E-04	9.56E-05	3.17E-07	1.06E-04	0.00E+00	0.00E+00
4	Pond 4	Pond 4	1.60E-02	3.45E-06	4.51E-04	1.73E-04	5.57E-07	1.84E-04	0.00E+00	0.00E+00
8	Pond 8	Pond 8	1.66E-02	3.91E-06	5.94E-04	1.76E-04	6.00E-07	2.03E-04	0.00E+00	0.00E+00
9	Pond 9	Pond 9	1.66E-02	3.90E-06	5.92E-04	1.75E-04	5.99E-07	2.02E-04	0.00E+00	0.00E+00
16	Reference	Reference Lake Shallow	1.33E-03	3.08E-07	4.59E-05	1.41E-05	4.76E-08	1.61E-05	0.00E+00	0.00E+00

Table 10.III.2-28: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes (continued)

Lake ID	Lake Name	Original Lake Identifier	Aluminum (µg/m^2/s)	Antimony (µg/m^2/s)	Arsenic (µg/m^2/s)	Barium (µg/m^2/s)	Beryllium (µg/m^2/s)	Bismuth (µg/m^2/s)	Boron (µg/m^2/s)	Bromine (µg/m^2/s)
16	Reference	Reference Lake DeepTop; Deep Bottom	1.05E-03	2.50E-07	3.86E-05	1.11E-05	3.76E-08	1.29E-05	0.00E+00	0.00E+00
17	Unnamed	238	3.98E-04	9.09E-08	1.30E-05	4.24E-06	1.34E-08	4.74E-06	0.00E+00	0.00E+00
18	Unnamed	239	2.92E-04	6.64E-08	8.11E-06	3.15E-06	1.06E-08	3.35E-06	0.00E+00	0.00E+00
19	Unnamed	240	2.97E-05	9.69E-09	9.01E-07	3.18E-07	1.24E-09	3.47E-07	0.00E+00	0.00E+00
20	Unnamed	241	9.53E-06	3.29E-09	2.93E-07	1.02E-07	8.95E-10	1.11E-07	0.00E+00	0.00E+00
21	Unnamed	242	3.94E-06	1.66E-09	1.24E-07	4.25E-08	9.72E-10	4.71E-08	0.00E+00	0.00E+00
22	Unnamed	243	2.62E-06	5.95E-10	8.38E-08	2.78E-08	1.68E-09	3.18E-08	0.00E+00	0.00E+00
28	Unnamed	251	1.04E-04	2.52E-08	3.39E-06	1.11E-06	2.74E-09	1.24E-06	0.00E+00	0.00E+00
39	Unnamed	405	4.56E-06	8.35E-10	1.41E-07	4.84E-08	1.73E-09	5.33E-08	0.00E+00	0.00E+00

µg/m^2/s = microgram per square metre per second.

Table 10.III.3-1: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Cadmium (µg/m^2/s)	Calcium (µg/m^2/s)	Chromium (µg/m^2/s)	Chromium VI (µg/m^2/s)	Cobalt (µg/m^2/s)	Copper (µg/m^2/s)	Gallium (µg/m^2/s)	Indium (µg/m^2/s)
1	Burke	Burke Lake Deep Bottom; Deep Top	1.08E-07	1.24E-03	3.44E-06	3.53E-10	1.31E-05	9.34E-06	1.30E-08	8.55E-08
1	Burke	Burke Lake Shallow	1.09E-07	1.44E-03	4.10E-06	5.26E-10	1.47E-05	1.10E-05	1.32E-08	8.54E-08
2	Chalco	Chalco Lake	5.57E-07	7.60E-03	2.29E-05	4.54E-11	7.38E-05	6.11E-05	7.49E-08	4.42E-07
3	Clouter	Clouter Lake (Lake 5)	1.00E-07	8.41E-04	2.31E-06	1.69E-09	8.97E-06	6.27E-06	1.43E-08	8.67E-08
3	Clouter	Clouter Lake (Lake 5) SE	9.57E-08	8.52E-04	2.16E-06	2.25E-09	9.68E-06	5.97E-06	1.38E-08	8.36E-08
5	Lion	Lion Lake Deep Top; Deep Bottom	5.81E-08	4.50E-04	1.27E-06	1.90E-09	4.69E-06	3.42E-06	8.40E-09	5.00E-08
6	Little Grid Pond	Little Grid Pond	3.42E-06	9.32E-02	2.85E-04	1.49E-09	8.88E-04	7.58E-04	4.06E-07	2.44E-06
7	Grid Pond	Grid Pond	1.94E-06	5.73E-02	1.74E-04	2.71E-09	5.52E-04	4.62E-04	2.26E-07	1.36E-06
10	Lou	Lou Lake Deep Top; Deep Bottom	1.84E-07	1.66E-03	4.89E-06	0.00E+00	1.65E-05	1.31E-05	2.66E-08	1.59E-07
10	Lou	Lou Lake Shallow	2.22E-07	1.31E-03	3.77E-06	0.00E+00	1.35E-05	1.01E-05	3.22E-08	1.90E-07
14	Nico	Nico Lake Deep Bottom; Deep Top	1.22E-07	2.90E-03	8.91E-06	0.00E+00	2.76E-05	2.37E-05	1.40E-08	9.14E-08
14	Nico	Nico Lake Shallow	1.23E-07	2.84E-03	8.71E-06	9.29E-11	2.69E-05	2.31E-05	1.45E-08	9.26E-08
15	Peanut	Peanut Lake Deep Top; Deep Bottom	2.15E-07	2.53E-03	7.24E-06	6.69E-11	2.59E-05	1.95E-05	2.74E-08	1.69E-07
15	Peanut	Peanut Lake Shallow	1.61E-07	2.23E-03	6.52E-06	9.02E-10	2.24E-05	1.75E-05	2.02E-08	1.24E-07
11	Pond 11	Pond 11	3.85E-07	3.55E-03	9.39E-06	8.02E-10	3.91E-05	2.57E-05	5.16E-08	3.13E-07
12	Pond 12	Pond 12	3.33E-07	2.81E-03	7.54E-06	5.08E-10	3.06E-05	2.06E-05	4.59E-08	2.75E-07
13	Pond 13	Pond 13	3.29E-07	3.29E-03	9.06E-06	1.84E-10	3.50E-05	2.46E-05	4.62E-08	2.74E-07
4	Pond 4	Pond 4	3.90E-07	5.56E-03	1.62E-05	3.48E-10	5.62E-05	4.34E-05	5.06E-08	3.01E-07
8	Pond 8	Pond 8	7.18E-07	6.52E-03	1.69E-05	6.27E-10	7.31E-05	4.64E-05	9.86E-08	5.98E-07
9	Pond 9	Pond 9	7.12E-07	6.50E-03	1.68E-05	5.92E-10	7.27E-05	4.63E-05	9.78E-08	5.93E-07
16	Reference	Reference Lake Shallow	5.64E-08	5.12E-04	1.35E-06	0.00E+00	5.66E-06	3.69E-06	7.55E-09	4.63E-08
16	Reference	Reference Lake DeepTop; Deep Bottom	4.45E-08	4.18E-04	1.07E-06	2.96E-10	4.74E-06	2.94E-06	5.75E-09	3.65E-08
17	Unnamed	238	4.07E-08	1.49E-04	4.08E-07	8.49E-11	1.61E-06	1.10E-06	6.66E-09	3.61E-08

Table 10.III.3-1: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes (continued)

Lake ID	Lake Name	Original Lake Identifier	Cadmium (µg/m^2/s)	Calcium (µg/m^2/s)	Chromium (µg/m^2/s)	Chromium VI (µg/m^2/s)	Cobalt (µg/m^2/s)	Copper (µg/m^2/s)	Gallium (µg/m^2/s)	Indium (µg/m^2/s)
18	Unnamed	239	5.21E-08	1.01E-04	3.05E-07	1.21E-09	1.02E-06	8.07E-07	7.29E-09	4.33E-08
19	Unnamed	240	1.69E-08	1.07E-05	3.54E-08	0.00E+00	1.13E-07	8.95E-08	1.89E-09	1.39E-08
20	Unnamed	241	8.75E-09	3.45E-06	1.15E-08	0.00E+00	3.64E-08	3.11E-08	1.47E-09	9.12E-09
21	Unnamed	242	6.97E-09	1.45E-06	6.17E-09	0.00E+00	1.56E-08	1.42E-08	7.41E-10	5.13E-09
22	Unnamed	243	5.04E-09	9.68E-07	4.01E-09	1.40E-09	1.12E-08	9.98E-09	1.27E-10	3.73E-09
28	Unnamed	251	2.96E-08	3.88E-05	1.10E-07	0.00E+00	4.22E-07	2.95E-07	4.47E-09	2.55E-08
39	Unnamed	405	5.49E-08	1.65E-06	1.35E-08	0.00E+00	2.75E-08	2.40E-08	9.76E-09	5.43E-08

µg/m^2/s = micrograms per square metre per second.

Table 10.III.3-2: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Iron ($\mu g/m^2/s$)	Lanthanum ($\mu g/m^2/s$)	Lead ($\mu g/m^2/s$)	Lithium ($\mu g/m^2/s$)	Magnesium ($\mu g/m^2/s$)	Manganese ($\mu g/m^2/s$)	Mercury ($\mu g/m^2/s$)	Molybdenum ($\mu g/m^2/s$)
1	Burke	Burke Lake Deep Bottom; Deep Top	7.26E-03	0.00E+00	4.81E-07	1.03E-06	1.62E-03	4.03E-05	3.76E-09	3.40E-07
1	Burke	Burke Lake Shallow	8.54E-03	0.00E+00	5.56E-07	1.23E-06	1.93E-03	4.65E-05	3.22E-09	3.97E-07
2	Chalco	Chalco Lake	4.69E-02	0.00E+00	2.94E-06	6.95E-06	1.08E-02	2.47E-04	1.31E-08	2.13E-06
3	Clouter	Clouter Lake (Lake 5)	4.88E-03	0.00E+00	3.30E-07	6.90E-07	1.09E-03	2.73E-05	2.55E-09	2.30E-07
3	Clouter	Clouter Lake (Lake 5) SE	4.71E-03	0.00E+00	3.17E-07	6.37E-07	1.02E-03	2.76E-05	1.68E-09	2.28E-07
5	Lion	Lion Lake Deep Top; Deep Bottom	2.65E-03	0.00E+00	1.90E-07	3.79E-07	5.96E-04	1.46E-05	4.55E-10	1.23E-07
6	Little Grid Pond	Little Grid Pond	5.81E-01	0.00E+00	3.48E-05	8.69E-05	1.34E-01	3.02E-03	4.57E-08	2.62E-05
7	Grid Pond	Grid Pond	3.55E-01	0.00E+00	2.12E-05	5.29E-05	8.18E-02	1.86E-03	2.37E-08	1.61E-05
10	Lou	Lou Lake Deep Top; Deep Bottom	1.01E-02	0.00E+00	6.54E-07	1.48E-06	2.30E-03	5.37E-05	4.20E-09	4.59E-07
10	Lou	Lou Lake Shallow	7.81E-03	0.00E+00	5.50E-07	1.13E-06	1.77E-03	4.26E-05	4.71E-09	3.62E-07
14	Nico	Nico Lake Deep Bottom; Deep Top	1.81E-02	0.00E+00	1.10E-06	2.72E-06	4.20E-03	9.43E-05	1.89E-09	8.17E-07
14	Nico	Nico Lake Shallow	1.77E-02	0.00E+00	1.08E-06	2.66E-06	4.10E-03	9.21E-05	2.02E-09	7.98E-07
15	Peanut	Peanut Lake Deep Top; Deep Bottom	1.51E-02	0.00E+00	9.77E-07	2.18E-06	3.41E-03	8.20E-05	5.87E-09	6.96E-07
15	Peanut	Peanut Lake Shallow	1.35E-02	0.00E+00	8.63E-07	1.97E-06	3.07E-03	7.25E-05	5.03E-09	6.20E-07
11	Pond 11	Pond 11	2.01E-02	0.00E+00	1.34E-06	2.79E-06	4.43E-03	1.15E-04	1.09E-08	9.60E-07
12	Pond 12	Pond 12	1.61E-02	0.00E+00	1.08E-06	2.24E-06	3.55E-03	9.11E-05	7.72E-09	7.61E-07
13	Pond 13	Pond 13	1.91E-02	0.00E+00	1.24E-06	2.71E-06	4.27E-03	1.07E-04	6.66E-09	9.00E-07
4	Pond 4	Pond 4	3.35E-02	0.00E+00	2.12E-06	4.88E-06	7.61E-03	1.80E-04	1.09E-08	1.54E-06
8	Pond 8	Pond 8	3.65E-02	0.00E+00	2.39E-06	4.99E-06	7.97E-03	2.11E-04	1.78E-08	1.76E-06
9	Pond 9	Pond 9	3.64E-02	0.00E+00	2.38E-06	4.98E-06	7.95E-03	2.10E-04	1.74E-08	1.75E-06
16	Reference	Reference Lake Shallow	2.89E-03	0.00E+00	2.10E-07	4.00E-07	6.36E-04	1.66E-05	1.67E-09	1.38E-07
16	Reference	Reference Lake DeepTop; Deep Bottom	2.32E-03	0.00E+00	1.73E-07	3.15E-07	5.04E-04	1.35E-05	1.05E-09	1.12E-07
17	Unnamed	238	8.56E-04	0.00E+00	7.97E-08	1.19E-07	1.90E-04	4.82E-06	1.23E-09	4.03E-08

Table 10.III.3-2: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes (continued)

Lake ID	Lake Name	Original Lake Identifier	Iron ($\mu g/m^2/s$)	Lanthanum ($\mu g/m^2/s$)	Lead ($\mu g/m^2/s$)	Lithium ($\mu g/m^2/s$)	Magnesium ($\mu g/m^2/s$)	Manganese ($\mu g/m^2/s$)	Mercury ($\mu g/m^2/s$)	Molybdenum ($\mu g/m^2/s$)
18	Unnamed	239	6.09E-04	0.00E+00	8.73E-08	8.79E-08	1.39E-04	3.28E-06	3.89E-09	2.83E-08
19	Unnamed	240	6.29E-05	0.00E+00	4.20E-08	9.12E-09	1.41E-05	3.49E-07	1.72E-09	2.76E-09
20	Unnamed	241	2.02E-05	0.00E+00	2.39E-08	3.44E-09	4.54E-06	1.14E-07	5.44E-10	2.96E-09
21	Unnamed	242	8.40E-06	0.00E+00	1.91E-08	1.47E-09	1.88E-06	4.85E-08	9.27E-10	0.00E+00
22	Unnamed	243	5.61E-06	0.00E+00	1.68E-08	9.03E-10	1.25E-06	3.29E-08	1.28E-09	0.00E+00
28	Unnamed	251	2.23E-04	0.00E+00	4.55E-08	3.21E-08	4.96E-05	1.26E-06	0.00E+00	1.11E-08
39	Unnamed	405	9.62E-06	0.00E+00	1.94E-08	2.39E-09	2.14E-06	6.32E-08	0.00E+00	3.44E-10

$\mu g/m^2/s$ = micrograms per square metre per second.

Table 10.III.3-3: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Nickel ($\mu g/m^2/s$)	Palladium ($\mu g/m^2/s$)	Phosphorus ($\mu g/m^2/s$)	Potassium ($\mu g/m^2/s$)	Rubidium ($\mu g/m^2/s$)	Selenium ($\mu g/m^2/s$)	Silicon ($\mu g/m^2/s$)	Silver ($\mu g/m^2/s$)
1	Burke	Burke Lake Deep Bottom; Deep Top	9.71E-07	1.30E-08	1.38E-05	3.44E-03	0.00E+00	3.08E-07	8.96E-07	2.86E-08
1	Burke	Burke Lake Shallow	1.13E-06	1.32E-08	1.66E-05	4.11E-03	0.00E+00	3.67E-07	8.96E-07	3.01E-08
2	Chalco	Chalco Lake	6.15E-06	7.49E-08	9.49E-05	2.32E-02	0.00E+00	2.04E-06	4.65E-06	1.58E-07
3	Clouter	Clouter Lake (Lake 5)	6.54E-07	1.43E-08	9.20E-06	2.30E-03	0.00E+00	2.08E-07	9.12E-07	2.33E-08
3	Clouter	Clouter Lake (Lake 5) SE	6.40E-07	1.38E-08	8.31E-06	2.13E-03	0.00E+00	1.94E-07	8.75E-07	2.24E-08
5	Lion	Lion Lake Deep Top; Deep Bottom	3.54E-07	8.40E-09	5.09E-06	1.26E-03	0.00E+00	1.13E-07	5.19E-07	1.29E-08
6	Little Grid Pond	Little Grid Pond	7.58E-05	4.06E-07	1.19E-03	2.90E-01	0.00E+00	2.54E-05	2.56E-05	1.43E-06
7	Grid Pond	Grid Pond	4.64E-05	2.26E-07	7.22E-04	1.76E-01	0.00E+00	1.55E-05	1.43E-05	8.52E-07
10	Lou	Lou Lake Deep Top; Deep Bottom	1.33E-06	2.66E-08	2.01E-05	4.92E-03	0.00E+00	4.34E-07	1.67E-06	4.49E-08
10	Lou	Lou Lake Shallow	1.04E-06	3.22E-08	1.52E-05	3.76E-03	0.00E+00	3.35E-07	2.00E-06	4.62E-08
14	Nico	Nico Lake Deep Bottom; Deep Top	2.37E-06	1.40E-08	3.72E-05	9.05E-03	0.00E+00	7.94E-07	9.58E-07	4.66E-08
14	Nico	Nico Lake Shallow	2.31E-06	1.45E-08	3.64E-05	8.85E-03	0.00E+00	7.76E-07	9.70E-07	4.62E-08
15	Peanut	Peanut Lake Deep Top; Deep Bottom	2.00E-06	2.74E-08	2.94E-05	7.26E-03	0.00E+00	6.45E-07	1.77E-06	5.51E-08
15	Peanut	Peanut Lake Shallow	1.78E-06	2.02E-08	2.67E-05	6.57E-03	0.00E+00	5.82E-07	1.30E-06	4.55E-08
11	Pond 11	Pond 11	2.72E-06	5.16E-08	3.68E-05	9.29E-03	0.00E+00	8.40E-07	3.28E-06	8.86E-08
12	Pond 12	Pond 12	2.17E-06	4.59E-08	2.97E-05	7.47E-03	0.00E+00	6.73E-07	2.88E-06	7.76E-08
13	Pond 13	Pond 13	2.56E-06	4.62E-08	3.61E-05	9.03E-03	0.00E+00	8.09E-07	2.87E-06	7.79E-08
4	Pond 4	Pond 4	4.43E-06	5.06E-08	6.59E-05	1.63E-02	0.00E+00	1.44E-06	3.17E-06	1.10E-07
8	Pond 8	Pond 8	4.94E-06	9.86E-08	6.54E-05	1.66E-02	0.00E+00	1.51E-06	6.26E-06	1.64E-07
9	Pond 9	Pond 9	4.93E-06	9.78E-08	6.53E-05	1.66E-02	0.00E+00	1.51E-06	6.21E-06	1.63E-07
16	Reference	Reference Lake Shallow	3.92E-07	7.55E-09	5.26E-06	1.33E-03	0.00E+00	1.20E-07	4.85E-07	1.29E-08
16	Reference	Reference Lake DeepTop; Deep Bottom	3.17E-07	5.75E-09	4.10E-06	1.05E-03	0.00E+00	9.49E-08	3.86E-07	1.18E-08
17	Unnamed	238	1.16E-07	6.66E-09	1.60E-06	4.00E-04	0.00E+00	3.56E-08	3.81E-07	6.87E-09

Table 10.III.3-3: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes (continued)

Lake ID	Lake Name	Original Lake Identifier	Nickel (µg/m^2/s)	Palladium (µg/m^2/s)	Phosphorus (µg/m^2/s)	Potassium (µg/m^2/s)	Rubidium (µg/m^2/s)	Selenium (µg/m^2/s)	Silicon (µg/m^2/s)	Silver (µg/m^2/s)
18	Unnamed	239	8.25E-08	7.29E-09	1.21E-06	2.97E-04	0.00E+00	2.69E-08	4.63E-07	7.46E-09
19	Unnamed	240	1.07E-08	1.89E-09	1.22E-07	3.00E-05	0.00E+00	1.59E-09	1.45E-07	2.97E-09
20	Unnamed	241	3.90E-09	1.47E-09	4.12E-08	9.61E-06	0.00E+00	2.76E-09	8.21E-08	1.55E-09
21	Unnamed	242	1.49E-09	7.41E-10	1.60E-08	3.96E-06	0.00E+00	0.00E+00	5.04E-08	7.54E-10
22	Unnamed	243	1.15E-09	1.27E-10	1.14E-08	2.64E-06	0.00E+00	0.00E+00	4.04E-08	1.06E-09
28	Unnamed	251	3.17E-08	4.47E-09	4.19E-07	1.05E-04	0.00E+00	9.65E-09	2.65E-07	4.37E-09
39	Unnamed	405	9.50E-10	9.76E-09	2.82E-08	4.52E-06	0.00E+00	3.50E-10	5.79E-07	9.84E-09

µg/m^2/s = micrograms per square metre per second.

Table 10.III.3-4: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Sodium ($\mu g/m^2/s$)	Strontium ($\mu g/m^2/s$)	Thallium ($\mu g/m^2/s$)	Tin ($\mu g/m^2/s$)	Titanium ($\mu g/m^2/s$)	Tungsten ($\mu g/m^2/s$)	Uranium ($\mu g/m^2/s$)	Vanadium ($\mu g/m^2/s$)
1	Burke	Burke Lake Deep Bottom; Deep Top	3.60E-04	1.42E-06	3.86E-08	3.86E-07	1.14E-04	0.00E+00	4.32E-07	2.50E-06
1	Burke	Burke Lake Shallow	4.26E-04	1.69E-06	4.46E-08	4.55E-07	1.35E-04	0.00E+00	5.06E-07	2.97E-06
2	Chalco	Chalco Lake	2.35E-03	9.50E-06	2.52E-07	2.49E-06	7.50E-04	0.00E+00	2.74E-06	1.65E-05
3	Clouter	Clouter Lake (Lake 5)	2.42E-04	9.49E-07	2.49E-08	2.60E-07	7.67E-05	0.00E+00	2.91E-07	1.67E-06
3	Clouter	Clouter Lake (Lake 5) SE	2.30E-04	8.82E-07	2.31E-08	2.51E-07	7.29E-05	0.00E+00	2.84E-07	1.58E-06
5	Lion	Lion Lake Deep Top; Deep Bottom	1.32E-04	5.20E-07	1.49E-08	1.42E-07	4.18E-05	0.00E+00	1.57E-07	9.15E-07
6	Little Grid Pond	Little Grid Pond	2.92E-02	1.19E-04	3.13E-06	3.08E-05	9.32E-03	0.00E+00	3.39E-05	2.06E-04
7	Grid Pond	Grid Pond	1.79E-02	7.22E-05	1.91E-06	1.89E-05	5.69E-03	0.00E+00	2.07E-05	1.25E-04
10	Lou	Lou Lake Deep Top; Deep Bottom	5.04E-04	2.02E-06	5.26E-08	5.34E-07	1.60E-04	0.00E+00	5.91E-07	3.53E-06
10	Lou	Lou Lake Shallow	3.89E-04	1.55E-06	4.06E-08	4.16E-07	1.24E-04	0.00E+00	4.62E-07	2.71E-06
14	Nico	Nico Lake Deep Bottom; Deep Top	9.14E-04	3.71E-06	9.81E-08	9.62E-07	2.91E-04	0.00E+00	1.06E-06	6.43E-06
14	Nico	Nico Lake Shallow	8.93E-04	3.62E-06	9.58E-08	9.40E-07	2.85E-04	0.00E+00	1.03E-06	6.29E-06
15	Peanut	Peanut Lake Deep Top; Deep Bottom	7.51E-04	2.99E-06	7.94E-08	8.00E-07	2.39E-04	0.00E+00	8.90E-07	5.24E-06
15	Peanut	Peanut Lake Shallow	6.74E-04	2.70E-06	7.07E-08	7.18E-07	2.15E-04	0.00E+00	7.95E-07	4.72E-06
11	Pond 11	Pond 11	9.90E-04	3.84E-06	1.02E-07	1.07E-06	3.14E-04	0.00E+00	1.21E-06	6.83E-06
12	Pond 12	Pond 12	7.92E-04	3.09E-06	8.53E-08	8.55E-07	2.51E-04	0.00E+00	9.61E-07	5.47E-06
13	Pond 13	Pond 13	9.47E-04	3.72E-06	9.91E-08	1.02E-06	3.01E-04	0.00E+00	1.14E-06	6.57E-06
4	Pond 4	Pond 4	1.67E-03	6.68E-06	1.77E-07	1.78E-06	5.32E-04	0.00E+00	1.97E-06	1.17E-05
8	Pond 8	Pond 8	1.79E-03	6.89E-06	1.84E-07	1.94E-06	5.67E-04	0.00E+00	2.20E-06	1.23E-05
9	Pond 9	Pond 9	1.78E-03	6.88E-06	1.83E-07	1.94E-06	5.65E-04	0.00E+00	2.19E-06	1.23E-05
16	Reference	Reference Lake Shallow	1.42E-04	5.51E-07	1.45E-08	1.54E-07	4.51E-05	0.00E+00	1.73E-07	9.79E-07
16	Reference	Reference Lake DeepTop; Deep Bottom	1.13E-04	4.34E-07	1.34E-08	1.22E-07	3.59E-05	0.00E+00	1.39E-07	7.77E-07
17	Unnamed	238	4.23E-05	1.65E-07	4.33E-09	4.55E-08	1.34E-05	0.00E+00	5.13E-08	2.92E-07

Table 10.III.3-4: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes (continued)

Lake ID	Lake Name	Original Lake Identifier	Sodium (µg/m^2/s)	Strontium (µg/m^2/s)	Thallium (µg/m^2/s)	Tin (µg/m^2/s)	Titanium (µg/m^2/s)	Tungsten (µg/m^2/s)	Uranium (µg/m^2/s)	Vanadium (µg/m^2/s)
18	Unnamed	239	3.05E-05	1.22E-07	2.80E-09	3.23E-08	9.69E-06	0.00E+00	3.57E-08	2.15E-07
19	Unnamed	240	3.13E-06	1.22E-08	0.00E+00	2.81E-09	9.95E-07	0.00E+00	4.19E-09	2.26E-08
20	Unnamed	241	1.00E-06	4.80E-09	0.00E+00	6.79E-10	3.19E-07	0.00E+00	7.59E-10	6.87E-09
21	Unnamed	242	4.16E-07	1.64E-09	0.00E+00	2.60E-11	1.31E-07	0.00E+00	4.18E-11	3.82E-09
22	Unnamed	243	2.77E-07	1.68E-09	4.21E-10	0.00E+00	8.84E-08	0.00E+00	0.00E+00	1.68E-09
28	Unnamed	251	1.10E-05	4.39E-08	1.84E-09	1.44E-08	3.50E-06	0.00E+00	1.50E-08	7.55E-08
39	Unnamed	405	4.75E-07	2.37E-09	6.18E-10	1.41E-10	1.50E-07	0.00E+00	1.57E-10	1.65E-09

µg/m^2/s = micrograms per square metre per second.

Table 10.III.3-5: Predicted Application Case Annual Deposition Rates of Metals at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Yttrium ($\mu g/m^2/s$)	Zinc ($\mu g/m^2/s$)	Zirconium ($\mu g/m^2/s$)
1	Burke	Burke Lake Deep Bottom; Deep Top	9.41E-07	2.05E-06	0.00E+00
1	Burke	Burke Lake Shallow	1.11E-06	2.42E-06	0.00E+00
2	Chalco	Chalco Lake	6.12E-06	1.35E-05	0.00E+00
3	Clouter	Clouter Lake (Lake 5)	6.33E-07	1.41E-06	0.00E+00
3	Clouter	Clouter Lake (Lake 5) SE	6.06E-07	1.31E-06	0.00E+00
5	Lion	Lion Lake Deep Top; Deep Bottom	3.44E-07	7.75E-07	0.00E+00
6	Little Grid Pond	Little Grid Pond	7.59E-05	1.65E-04	0.00E+00
7	Grid Pond	Grid Pond	4.64E-05	1.00E-04	0.00E+00
10	Lou	Lou Lake Deep Top; Deep Bottom	1.31E-06	2.96E-06	0.00E+00
10	Lou	Lou Lake Shallow	1.02E-06	2.36E-06	0.00E+00
14	Nico	Nico Lake Deep Bottom; Deep Top	2.37E-06	5.17E-06	0.00E+00
14	Nico	Nico Lake Shallow	2.32E-06	5.06E-06	0.00E+00
15	Peanut	Peanut Lake Deep Top; Deep Bottom	1.96E-06	4.31E-06	0.00E+00
15	Peanut	Peanut Lake Shallow	1.76E-06	3.85E-06	0.00E+00
11	Pond 11	Pond 11	2.60E-06	5.68E-06	0.00E+00
12	Pond 12	Pond 12	2.08E-06	4.59E-06	0.00E+00
13	Pond 13	Pond 13	2.48E-06	5.45E-06	0.00E+00
4	Pond 4	Pond 4	4.36E-06	9.52E-06	0.00E+00
8	Pond 8	Pond 8	4.71E-06	1.02E-05	0.00E+00
9	Pond 9	Pond 9	4.70E-06	1.02E-05	0.00E+00
16	Reference	Reference Lake Shallow	3.75E-07	8.15E-07	0.00E+00
16	Reference	Reference Lake DeepTop; Deep Bottom	2.99E-07	6.46E-07	0.00E+00
17	Unnamed	238	1.10E-07	2.72E-07	0.00E+00
18	Unnamed	239	7.82E-08	2.27E-07	0.00E+00
19	Unnamed	240	8.36E-09	3.83E-08	0.00E+00
20	Unnamed	241	2.46E-09	1.73E-08	0.00E+00
21	Unnamed	242	1.37E-09	1.01E-08	0.00E+00
22	Unnamed	243	0.00E+00	7.40E-09	0.00E+00
28	Unnamed	251	2.90E-08	9.26E-08	0.00E+00
39	Unnamed	405	1.36E-09	6.90E-08	0.00E+00

$\mu g/m^2/s$ = micrograms per square metre per second.

Table 10.III.3-6: Predicted Application Case Annaul Total Suspended Particulates Deposition Rates at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	TSP Depostion Rates [kg/ha/yr]
1	Burke	Burke Lake Deep Bottom; Deep Top	23.1
1	Burke	Burke Lake Shallow	27.3
2	Chalco	Chalco Lake	152.5
3	Clouter	Clouter Lake (Lake 5)	15.5
3	Clouter	Clouter Lake (Lake 5) SE	14.5
5	Lion	Lion Lake Deep Top; Deep Bottom	8.4
6	Little Grid Pond	Little Grid Pond	1887.9
7	Grid Pond	Grid Pond	1148.7
10	Lou	Lou Lake Deep Top; Deep Bottom	32.7
10	Lou	Lou Lake Shallow	25.4
14	Nico	Nico Lake Deep Bottom; Deep Top	59.0
14	Nico	Nico Lake Shallow	57.7
15	Peanut	Peanut Lake Deep Top; Deep Bottom	48.5
15	Peanut	Peanut Lake Shallow	43.5
11	Pond 11	Pond 11	63.5
12	Pond 12	Pond 12	50.9
13	Pond 13	Pond 13	60.9
4	Pond 4	Pond 4	107.9
8	Pond 8	Pond 8	114.5
9	Pond 9	Pond 9	114.2
16	Reference	Reference Lake Shallow	9.1
16	Reference	Reference Lake DeepTop; Deep Bottom	7.2
17	Unnamed	238	2.7
18	Unnamed	239	2.0
19	Unnamed	240	0.2
20	Unnamed	241	0.1
21	Unnamed	242	0.0
22	Unnamed	243	0.0
28	Unnamed	251	0.7
39	Unnamed	405	0.1

TSP = total suspended particles; kg/ha/yr = kilogram per hectare per year

Table 10.III.3-7: Predicted Application Case Sulphate and Nitrate Deposition Rates at Selected Lakes

Lake ID	Lake Name	Original Lake Identifier	Sulphate Deposition Rates[a] [keq/ha/yr]	Nitrate Deposition Rates[a] [keq/ha/yr]
1	Burke	Burke Lake Deep Bottom; Deep Top	1.012E-04	1.847E-02
1	Burke	Burke Lake Shallow	1.083E-04	1.651E-02
2	Chalco	Chalco Lake	3.168E-04	9.196E-02
3	Clouter	Clouter Lake (Lake 5)	1.285E-04	1.168E-02
3	Clouter	Clouter Lake (Lake 5) southeast	1.193E-04	1.153E-02
5	Lion	Lion Lake Deep Top; Deep Bottom	7.366E-05	6.104E-03
6	Little Grid Pond	Little Grid Pond	1.183E-03	4.481E-01
7	Grid Pond	Grid Pond	7.850E-04	2.320E-01
10	Lou	Lou Lake Deep Top; Deep Bottom	2.230E-04	3.036E-02
10	Lou	Lou Lake Shallow	1.528E-04	4.128E-02
14	Nico	Nico Lake Deep Bottom; Deep Top	6.593E-05	1.570E-02
14	Nico	Nico Lake Shallow	6.026E-05	1.588E-02
15	Peanut	Peanut Lake Deep Top; Deep Bottom	1.751E-04	3.280E-02
15	Peanut	Peanut Lake Shallow	1.203E-04	2.210E-02
11	Pond 11	Pond 11	3.058E-04	5.509E-02
12	Pond 12	Pond 12	2.755E-04	4.264E-02
13	Pond 13	Pond 13	3.277E-04	4.027E-02
4	Pond 4	Pond 4	2.843E-04	5.828E-02
8	Pond 8	Pond 8	4.725E-04	1.054E-01
9	Pond 9	Pond 9	4.692E-04	1.038E-01
16	Reference	Reference Lake Shallow	5.853E-05	8.903E-03
16	Reference	Reference Lake DeepTop; Deep Bottom	4.897E-05	6.752E-03
17	Unnamed	238	5.465E-05	5.059E-03
18	Unnamed	239	6.761E-05	8.290E-03
19	Unnamed	240	2.621E-05	2.973E-03
20	Unnamed	241	1.384E-05	1.715E-03
21	Unnamed	242	8.613E-06	1.130E-03
22	Unnamed	243	7.120E-06	9.238E-04
28	Unnamed	251	3.331E-05	4.631E-03
39	Unnamed	405	1.190E-05	1.675E-03

[a] Deposition rates from CALPUFF model. These rates do not include background sulphate and nitrate deposition values. keq/ha/yr = kilo-equivalent (hydrogen ion equivalent – 1 keq = 1 kmol H+) per hectare per year. Measure of PAI deposition.

10.III.4 SUMMARY OF PREDICTED AIR QUALITY IN LOCAL AND REGIONAL STUDY AREAS

Table 10.III.4-1: Comparison of Regional Baseline Case and Application Case Sulphur Dioxide Concentrations

Parameter	Baseline Case	Application Case
Local Study Area		
maximum 1-hour SO_2 (outside NICO Project Lease Boundary) [µg/m³]	0.6	10.1
occurrences above 1-hour NWT Ambient Air Quality Standard (AAQS)[a]	0	0
area above 1-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
maximum 24-hour SO_2 (outside NICO Project Lease Boundary) [µg/m³]	0.5	4.2
occurrences above 24-hour NWT AAQS[b]	0	0
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
annual average SO_2 (outside NICO Project Lease Boundary) [µg/m³]	0.5	1.0
occurrences above annual NWT AAQS[c]	—	—
area above annual NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
Regional Study Area (RSA)		
maximum 1-hour SO_2 (outside NICO Project Lease Boundary) [µg/m³]	0.8	10.1
occurrences above 1-hour NWT AAQS[a]	0	0
area above 1-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
maximum 24-hour SO_2 (outside NICO Project Lease Boundary) [µg/m³]	0.5	4.2
occurrences above 24-hour NWT AAQS[b]	0	0
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
annual average SO_2 (outside NICO Project Lease Boundary) [µg/m³]	0.5	1.0
occurrences above annual NWT AAQS[c]	—	—
area above annual NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0

[a] The 1-hour NWT Standard for SO_2 is 450 µg/m^3 (GNWT 2010, internet site).

[b] The 24-hour NWT Standard for SO_2 is 150 µg/m^3 (GNWT 2010, internet site).

[c] The annual NWT Standard for SO_2 is 30 µg/m^3 (GNWT 2010, internet site).

AAQS = Ambient Air Quality Standard; NWT = Northwest Territories; SO_2 = sulphur dioxide gas; µg/m^3 = micrograms per cubic metre; ha = hectare.

Table 10.III.4-2: Comparison of Regional Baseline Case and Application Case Nitrogen Dioxide Concentrations

Parameter	Baseline Case	Application Case
Local Study Area		
maximum 1-hour NO_2 (outside NICO Project Lease Boundary) [µg/m³]	3.4	204.1
occurrences above 1-hour NAAQO[a]	0	0
area above 1-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
maximum 24-hour NO_2 (outside NICO Project Lease Boundary) [µg/m³]	2.0	129.4
occurrences above 24-hour NAAQO[b]	0	0
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
annual average NO_2 (outside NICO Project Lease Boundary) [µg/m³]	1.1	68.4
occurrences above annual NAAQO[c]	—	—
area above annual NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	4
Regional Study Area		
maximum 1-hour NO_2 (outside NICO Project Lease Boundary) [µg/m³]	73.8	204.1
occurrences above 1-hour NAAQO[a]	0	0
area above 1-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
maximum 24-hour NO_2 (outside NICO Project Lease Boundary) [µg/m³]	27.9	129.4
occurrences above 24-hour NAAQO[b]	0	0
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	0
annual average NO_2 (outside NICO Project Lease Boundary) [µg/m³]	1.9	68.4
occurrences above annual NAAQO[c]	—	—
area above annual NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	4

[a] The 1-hour NAAQO for NO_2 is 400 µg/m^3 (Environment Canada 1981).

[b] The 24-hour NAAQO for NO_2 is 200 µg/m^3 (Environment Canada 1981).

[c] The annual NAAQO for NO_2 is 60 µg/m^3 (Environment Canada 1981).

AAQS = Ambient Air Quality Standard; NAAQO = National Ambient Air Quality Objectives; NWT = Northwest Territories; NO_2 = Nitrogen Dioxide Gas; µg/m^3 = micrograms per cubic metre; ha = hectare.

Table 10.III.4-3: Comparison of Regional Baseline Case and Application Case Carbon Monoxide Concentrations

Parameter	Baseline Case	Application Case
Local Study Area		
maximum 1-hour CO (outside NICO Project Lease Boundary) [µg/m³]	346.7	965.0
occurrences above 1-hour NAAQO[a]	0	0
area above 1-hour Canadian Objectives (outside NICO Project Lease Boundary) [ha]	0	0
maximum 8-hour CO (outside NICO Project Lease Boundary) [µg/m³]	346.4	693.5
occurrences above 8-hour NAAQO[b]	0	0
area above 8-hour Canadian Objectives (outside NICO Project Lease Boundary) [ha]	0	0
annual average CO (outside NICO Project Lease Boundary) [µg/m³]	346.0	380.2
occurrences above annual NAAQO[c]	—	—
area above annual Canadian Objectives (outside NICO Project Lease Boundary) [ha]	—	—
Regional Study Area		
maximum 1-hour CO (outside NICO Project Lease Boundary) [µg/m³]	365.9	965.0
occurrences above 1-hour NAAQO[a]	0	0
area above 1-hour Canadian Objectives (outside NICO Project Lease Boundary) [ha]	0	0
maximum 8-hour CO (outside NICO Project Lease Boundary) [µg/m³]	357.9	693.5
occurrences above 8-hour NAAQO[b]	0	0
area above 8-hour Canadian Objectives (outside NICO Project Lease Boundary) [ha]	0	0
annual average CO (outside NICO Project Lease Boundary) [µg/m³]	346.2	380.2
occurrences above annual NAAQO[c]	—	—
area above annual Canadian Objectives (outside NICO Project Lease Boundary) [ha]	—	—

[a] The 1-hour NAAQO for CO is 15 000 µg/m^3 (Environment Canada 1981).

[b] The 8-hour NAAQO for CO is 6 000 µg/m^3 (Environment Canada 1981).

[c] The is no annual NAAQO for CO (Environment Canada 1981).

AAQS = Ambient Air Quality Standard; NAAQO = National Ambient Air Quality Objectives; NWT = Northwest Territories; CO = Carbon monoxide; µg/m^3 = micrograms per cubic metre; ha = hectare.

Table 10.III.4-4: Comparison of Regional Baseline Case and Application Case Total Suspended Particulates Concentrations

Parameter	Baseline Case	Application Case
Local Study Area		
maximum 1-hour TSP (outside NICO Project Lease Boundary) [µg/m³]	2.3	3101.3
occurrences above 1-hour NAAQO[a]	—	—
maximum 24-hour TSP (outside NICO Project Lease Boundary) [µg/m³]	2.3	1668.6
occurrences above 24-hour NWT AAQS[b]	0	121
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	381
annual average TSP (outside NICO Project Lease Boundary) [µg/m³]	2.2	166.0
occurrences above annual NWT AAQS[c]	—	—
area above annual NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	27
Regional Study Area		
maximum 1-hour TSP (outside NICO Project Lease Boundary) [µg/m³]	3.5	3101.3
occurrences above 1-hour NAAQO[a]	—	—
maximum 24-hour TSP (outside NICO Project Lease Boundary) [µg/m³]	2.7	1668.6
occurrences above 24-hour NWT AAQS[b]	0	121
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	381
annual average TSP (outside NICO Project Lease Boundary) [µg/m³]	2.2	166.0
occurrences above annual NWT AAQS[c]	—	—
area above annual NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	27

[a] There is no 1-hour NWT Standard for TSP (GNWT 2010, internet site).

[b] The 24-hour NWT Standard for TSP is 120 µg/m^3 (GNWT 2010, internet site).

[c] The annual NWT Standard for TSP is 60 µg/m^3 (GNWT 2010, internet site).

AAQS = Ambient Air Quality Standard; NAAQO = National Ambient Air Quality Objectives; NWT = Northwest Territories; TSP = Total suspended particlates; µg/m^3 = micrograms per cubic metre; ha = hectare.

Table 10.III.4-5: Comparison of Regional Baseline Case and Application Case $PM_{2.5}$ Concentrations

Parameter	Baseline Case	Application Case
Local Study Area		
maximum 1-hour $PM_{2.5}$ (outside NICO Project Lease Boundary) [µg/m³]	2.4	150.9
occurrences above 1-hour NWT AAQS[a]	—	—
maximum 24-hour $PM_{2.5}$ (outside NICO Project Lease Boundary) [µg/m³]	2.3	80.3
occurrences above 24-hour NWT AAQS[b]	0	39
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	189
annual average $PM_{2.5}$ (outside NICO Project Lease Boundary) [µg/m³]	2.2	11.1
occurrences above annual NWT AAQS[c]	—	—
Regional Study Area		
maximum 1-hour $PM_{2.5}$ (outside NICO Project Lease Boundary) [µg/m³]	3.6	150.9
occurrences above 1-hour NWT AAQS[a]	—	—
maximum 24-hour $PM_{2.5}$ (outside NICO Project Lease Boundary) [µg/m³]	2.7	80.3
occurrences above 24-hour NWT AAQS	0	39
area above 24-hour NWT AAQS (outside NICO Project Lease Boundary) [ha]	0	189
annual average $PM_{2.5}$ (outside NICO Project Lease Boundary) [µg/m³]	2.3	11.1
occurrences above annual NWT AAQS[c]	—	—

[a] There is no 1-hour NWT Standard for $PM_{2.5}$ (GNWT 2010, internet site).

[b] The 24-hour NWT Standard for $PM_{2.5}$ is 30 µg/m^3 (GNWT 2010, internet site).

[c] There is no annual NWT Standard for $PM_{2.5}$ (GNWT 2010, internet site).

AAQS = Ambient Air Quality Standard; NAAQO = National Ambient Air Quality Objectives; NWT = Northwest Territories; $PM_{2.5}$ = particulate matter of particle diameter less than 2.5 µm (micrometres); µg/m^3 = micrograms per cubic metre; ha = hectare.

Table 10.III.4-6: Comparison of Regional Baseline Case and Application Case PM_{10} Concentrations

Parameter	Baseline Case	Application Case
Local Study Area		
maximum 1-hour PM_{10} (outside NICO Project Lease Boundary) [µg/m³]	2.3	819.3
maximum 24-hour PM_{10} (outside NICO Project Lease Boundary) [µg/m³]	2.3	500.1
annual average PM_{10} (outside NICO Project Lease Boundary) [µg/m³]	2.2	50.6
Regional Study Area		
maximum 1-hour PM_{10} (outside NICO Project Lease Boundary) [µg/m³]	3.5	819.3
maximum 24-hour PM_{10} (outside NICO Project Lease Boundary) [µg/m³]	2.7	500.1
annual average PM_{10} (outside NICO Project Lease Boundary) [µg/m³]	2.2	50.6

PM_{10} = particulate matter of particle diameter less than 10 µm (micrometres); µg/m^3 = micrograms per cubic metre; ha = hectare.

Table 10.III.4-7: Comparison of Regional Baseline Case and Application Case for Annual Potential Acid Input, Sulphate, Nitrate, and Nitrogen Depositions

Annual Deposition	Baseline Case	Application Case
Local Study Area		
PAI [keq/ha/yr]	0.06	2.29
PAI (outside NICO Project Lease Boundary) [keq/ha/yr]	0.06	0.34
Nitrate (outside NICO Project Lease Boundary) [keq/ha/yr]	0.03	0.30
Sulphate (outside NICO Project Lease Boundary) [keq/ha/yr]	0.04	0.04
Nitrogen [kg/ha/yr] (outside NICO Project Lease Boundary)	0.39	4.14
Regional Study Area		
PAI [keq/ha/yr]	0.07	2.29
PAI (outside NICO Project Lease Boundary) [keq/ha/yr]	0.07	0.34
Nitrate (outside NICO Project Lease Boundary) [keq/ha/yr]	0.03	0.30
Sulphate (outside NICO Project Lease Boundary) [keq/ha/yr]	0.04	0.04
Nitrogen [kg/ha/yr] (outside NICO Project Lease Boundary)	0.42	4.14

PAI = potential acid input; kg/ha/yr = kilogram per hectare per year; keq/ha/yr = kilo-equivalent (hydrogen ion equivalent – 1 keq = 1 kmol H^+) per hectare per year. Measure of PAI deposition.

Table 10.III.4-8: Comparison of Regional Baseline Case and Application Case for Annual Total Suspended Particulates Deposition

Annual Deposition	Baseline Case	Application Case
Local Study Area		
TSP deposition [µg/m²/s]	0.0	34
TSP deposition [µg/m²/s] (outside NICO Project Lease Boundary)	0.0	5
Regional Study Area		
TSP deposition [µg/m²/s]	0.0	34
TSP deposition [µg/m²/s] (outside NICO Project Lease Boundary)	0.0	5

TSP = total suspended solids; µg/m²/s = microgram per square metre per second.

10.III.5 REFERENCES

Environment Canada. 1981. The Clean Air Act – Compilation Of Regulations And Guidelines. Regulations, Codes And Protocols Report EPS 1-AP-81-1. Air Pollution Control Division.

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