



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Extraction East Pit	Blasting	EASTPIT	TSP	1.69E-01	<1%	1.69E-01	<1%
			TSPmetals	6.67E-02	<1%	6.67E-02	<1%
			PM ₁₀	8.81E-02	<1%	—	—
			PM _{2.5}	5.08E-03	<1%	—	—
			CO	6.82E-01	2%	6.82E-01	27%
			NO _x	5.93E-02	<1%	5.93E-02	2%
Extraction East Pit	Ore Drop to Haul Trucks	EASTPIT	TSP	1.05E+00	<1%	1.05E+00	4%
			TSPmetals	4.12E-01	1%	4.12E-01	1%
			PM ₁₀	4.19E-01	<1%	—	—
			PM _{2.5}	1.67E-01	2%	—	—
Extraction East Pit	Waste Drop to Haul Trucks	EASTPIT	TSP	1.61E+00	<1%	1.61E+00	7%
			TSPmetals	6.35E-01	2%	6.35E-01	2%
			PM ₁₀	6.44E-01	1%	—	—
			PM _{2.5}	2.58E-01	2%	—	—
Extraction East Pit	Ore Handling Bulldozing	EASTPIT	TSP	1.27E+00	<1%	1.27E+00	5%
			TSPmetals	5.00E-01	2%	5.00E-01	2%
			PM ₁₀	2.72E-01	<1%	—	—
			PM _{2.5}	1.33E-01	1%	—	—
Extraction East Pit	Waste Handling Bulldozing	EASTPIT	TSP	1.27E+00	<1%	1.27E+00	5%
			TSPmetals	5.00E-01	2%	5.00E-01	2%
			PM ₁₀	2.72E-01	<1%	—	—
			PM _{2.5}	1.33E-01	1%	—	—
Extraction East Pit	Grading	EASTPIT	TSP	5.42E-04	<1%	5.42E-04	<1%
			TSPmetals	2.14E-04	<1%	2.14E-04	<1%
			PM ₁₀	3.99E-04	<1%	—	—
			PM _{2.5}	1.68E-05	<1%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Extraction West Pit	Blasting	WESTPIT	TSP	7.07E-01	<1%	7.07E-01	3%
			TSPmetals	2.79E-01	<1%	2.79E-01	<1%
			PM ₁₀	3.68E-01	<1%	—	—
			PM _{2.5}	2.12E-02	<1%	—	—
			CO	1.77E+00	6%	1.77E+00	71%
			NO _x	1.54E-01	<1%	1.54E-01	5%
Extraction West Pit	Ore Drop to Haul Trucks	WESTPIT	TSP	2.71E+00	1%	2.71E+00	11%
			TSPmetals	1.07E+00	4%	1.07E+00	4%
			PM ₁₀	1.09E+00	2%	—	—
			PM _{2.5}	4.34E-01	4%	—	—
Extraction West Pit	Waste Drop to Haul Trucks	WESTPIT	TSP	4.18E+00	2%	4.18E+00	17%
			TSPmetals	1.65E+00	6%	1.65E+00	6%
			PM ₁₀	1.67E+00	3%	—	—
			PM _{2.5}	6.68E-01	6%	—	—
Extraction West Pit	Ore Handling Bulldozing	WESTPIT	TSP	1.27E+00	<1%	1.27E+00	5%
			TSPmetals	5.00E-01	2%	5.00E-01	2%
			PM ₁₀	2.72E-01	<1%	—	—
			PM _{2.5}	1.33E-01	1%	—	—
Extraction West Pit	Waste Handling Bulldozing	WESTPIT	TSP	1.27E+00	<1%	1.27E+00	5%
			TSPmetals	5.00E-01	2%	5.00E-01	2%
			PM ₁₀	2.72E-01	<1%	—	—
			PM _{2.5}	1.33E-01	1%	—	—
Extraction West Pit	Grading	WESTPIT	TSP	9.17E-04	<1%	9.17E-04	<1%
			TSPmetals	3.61E-04	<1%	3.61E-04	<1%
			PM ₁₀	6.75E-04	<1%	—	—
			PM _{2.5}	2.84E-05	<1%	—	—
Ore Management	Drop at Ore Stockpile	OSTKPL	TSP	1.59E+00	<1%	—	—
			TSPmetals	1.59E+00	6%	1.59E+00	6%
			PM ₁₀	6.34E-01	1%	—	—
			PM _{2.5}	2.54E-01	2%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Ore Management	Bulldozing	OSTKPL	TSP	1.27E+00	<1%	—	—
			TSPmetals	1.27E+00	4%	1.27E+00	4%
			PM ₁₀	2.72E-01	<1%	—	—
			PM _{2.5}	1.33E-01	1%	—	—
Ore Management	Grading	OSTKPL	TSP	3.14E-05	<1%	—	—
			TSPmetals	3.14E-05	<1%	3.14E-05	<1%
			PM ₁₀	2.31E-05	<1%	—	—
			PM _{2.5}	9.73E-07	<1%	—	—
Gyratory Crusher	Material Transfer to Primary Crusher	GCRSH	TSP	9.40E-01	<1%	9.40E-01	4%
			TSPmetals	9.40E-01	3%	9.40E-01	3%
			PM ₁₀	3.76E-01	<1%	—	—
			PM _{2.5}	1.06E-01	<1%	—	—
Gyratory Crusher	Primary Crusher	GCRSH	TSP	7.52E-02	<1%	7.52E-02	<1%
			TSPmetals	7.52E-02	<1%	7.52E-02	<1%
			PM ₁₀	3.01E-02	<1%	—	—
			PM _{2.5}	5.57E-02	<1%	—	—
Secondary Crushing, Screening, Tertiary Crushing	Material Transfer to Bin	STCRSH	TSP	1.88E-02	<1%	1.88E-02	<1%
			TSPmetals	1.88E-02	<1%	1.88E-02	<1%
			PM ₁₀	7.52E-03	<1%	—	—
			PM _{2.5}	4.25E-03	<1%	—	—
Secondary Crushing, Screening, Tertiary Crushing	Screening	STCRSH	TSP	4.70E-02	<1%	4.70E-02	<1%
			TSPmetals	4.70E-02	<1%	4.70E-02	<1%
			PM ₁₀	1.62E-02	<1%	—	—
			PM _{2.5}	2.19E-03	<1%	—	—
Secondary Crushing, Screening, Tertiary Crushing	Secondary Crushing	STCRSH	TSP	2.26E-01	<1%	2.26E-01	<1%
			TSPmetals	2.26E-01	<1%	2.26E-01	<1%
			PM ₁₀	9.03E-02	<1%	—	—
			PM _{2.5}	1.67E-01	2%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Secondary Crushing, Screening, Tertiary Crushing	Reclaim Material Transfer	STCRSH	TSP	1.88E-02	<1%	1.88E-02	<1%
			TSPmetals	1.88E-02	<1%	1.88E-02	<1%
			PM ₁₀	7.52E-03	<1%	—	—
			PM _{2.5}	4.25E-03	<1%	—	—
Secondary Crushing, Screening, Tertiary Crushing	Final Crushing	STCRSH	TSP	2.26E-01	<1%	2.26E-01	<1%
			TSPmetals	2.26E-01	<1%	2.26E-01	<1%
			PM ₁₀	7.52E-02	<1%	—	—
			PM _{2.5}	1.39E-01	1%	—	—
Ore Processing and Refining	CIP Adsorption	CONC	Ammonia	4.69E-01	44%	4.69E-01	44%
			Sodium Hydroxide	2.68E-01	56%	2.68E-01	56%
Ore Processing and Refining	Acid Wash	CONC_ST	Hydrochloric Acid	1.97E+00	100%	1.97E+00	100%
Ore Processing and Refining	Carbon Regeneration/Reactivation	CONC	TSP	1.04E-01	<1%	1.04E-01	<1%
			TSPmetals	1.04E-01	<1%	1.04E-01	<1%
			PM ₁₀	1.04E-01	<1%	—	—
			PM _{2.5}	1.04E-01	<1%	—	—
			CO	3.84E-02	<1%	3.84E-02	2%
Ore Processing and Refining	Regeneration Furnace	CONC	SO ₂	3.26E-05	<1%	3.26E-05	<1%
			NO _x	2.35E-02	<1%	2.35E-02	<1%
Ore Processing and Refining	Cyanide Destruction	CONC	Ammonia	1.98E-03	<1%	1.98E-03	<1%
Ore Processing and Refining	Cyanide Destruction	CONC_ST	SO ₂	1.98E+01	97%	1.98E+01	100%
Ore Processing and Refining	Electrowinning	CONC	Ammonia	5.89E-01	56%	5.89E-01	56%
			Sodium Hydroxide	2.14E-01	44%	2.14E-01	44%
Ore Processing and Refining	Smelting Furnace	CONC	TSP	1.99E-01	<1%	1.99E-01	<1%
			TSPmetals	1.99E-01	<1%	1.99E-01	<1%
			PM ₁₀	1.99E-01	<1%	—	—
			PM _{2.5}	1.99E-01	2%	—	—
Ore Processing and Refining	Plant Wide Emissions	CONC	Hydrogen Cyanide	4.62E-01	100%	4.62E-01	100%
Waste Rock Management	Drop at Wasterock Stockpile	WRSTKPL	TSP	5.79E+00	3%	5.79E+00	24%
			PM ₁₀	2.31E+00	4%	2.31E+00	100%
			PM _{2.5}	9.26E-01	8%	9.26E-01	100%



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Waste Rock Management	Bulldozing	WRSTKPL	TSP	1.27E+00	<1%	1.27E+00	5%
			PM ₁₀	2.72E-01	<1%	—	—
			PM _{2.5}	1.33E-01	1%	—	—
Waste Rock Management	Grading	WRSTKPL	TSP	2.03E-04	<1%	2.03E-04	<1%
			PM ₁₀	1.49E-04	<1%	—	—
			PM _{2.5}	6.28E-06	<1%	—	—
Emergency Generators	2 x 2500 kW, 2 x 800 kW, 4 x 250 kW	CONC	CO	3.03E-01	<1%	—	—
			NO _x	1.33E+00	3%	—	—
			TSP	3.25E-02	<1%	—	—
			TSP _{diesel}	3.25E-02	2%	—	—
			PM ₁₀	1.55E-02	<1%	—	—
			SO ₂	5.78E-01	3%	—	—
			HC	5.01E-02	<1%	—	—
Concentrator	Propane Heating	CONC	TSP	8.48E-03	<1%	—	—
			PM ₁₀	8.48E-03	<1%	—	—
			PM _{2.5}	8.48E-03	<1%	—	—
			SO ₂	2.18E-04	<1%	—	—
			NO _x	1.57E-01	<1%	1.57E-01	5%
			CO	9.08E-02	<1%	—	—
Detonator Storage	Propane Heating	DTSTRG	TSP	2.60E-03	<1%	—	—
			PM ₁₀	2.60E-03	<1%	—	—
			PM _{2.5}	2.60E-03	<1%	—	—
			SO ₂	6.68E-05	<1%	—	—
			NO _x	4.83E-02	<1%	4.83E-02	1%
			CO	2.78E-02	<1%	—	—
Effluent Treatment Plant	Propane Heating	CONC	TSP	5.67E-02	<1%	—	—
			PM ₁₀	5.67E-02	<1%	—	—
			PM _{2.5}	5.67E-02	<1%	—	—
			SO ₂	1.46E-03	<1%	—	—
			NO _x	1.05E+00	2%	1.05E+00	32%
			CO	6.08E-01	2%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Emergency Pump Station	Propane Heating	EPS	TSP	2.86E-04	<1%	—	—
			PM ₁₀	2.86E-04	<1%	—	—
			PM _{2.5}	2.86E-04	<1%	—	—
			SO ₂	7.37E-06	<1%	—	—
			NO _x	5.32E-03	<1%	5.32E-03	<1%
			CO	3.07E-03	<1%	—	—
Emulsion Plant	Propane Heating	EMPLNT	TSP	3.89E-02	<1%	—	—
			PM ₁₀	3.89E-02	<1%	—	—
			PM _{2.5}	3.89E-02	<1%	—	—
			SO ₂	9.99E-04	<1%	—	—
			NO _x	7.22E-01	2%	7.22E-01	22%
			CO	4.16E-01	1%	—	—
Gyratory Crusher Building	Propane Heating	GCRSH	TSP	1.20E-03	<1%	—	—
			PM ₁₀	1.20E-03	<1%	—	—
			PM _{2.5}	1.20E-03	<1%	—	—
			SO ₂	3.07E-05	<1%	—	—
			NO _x	2.22E-02	<1%	2.22E-02	<1%
			CO	1.28E-02	<1%	—	—
Sec. & Tert. Crusher Building	Propane Heating	STCRSH	TSP	9.87E-03	<1%	—	—
			PM ₁₀	9.87E-03	<1%	—	—
			PM _{2.5}	9.87E-03	<1%	—	—
			SO ₂	2.54E-04	<1%	—	—
			NO _x	1.83E-01	<1%	1.83E-01	6%
			CO	1.06E-01	<1%	—	—
Security Station	Propane Heating	SECSTN	TSP	9.25E-04	<1%	—	—
			PM ₁₀	9.25E-04	<1%	—	—
			PM _{2.5}	9.25E-04	<1%	—	—
			SO ₂	2.38E-05	<1%	—	—
			NO _x	1.72E-02	<1%	1.72E-02	<1%
			CO	9.91E-03	<1%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
Stockpile	Propane Heating	STKPL	TSP	1.49E-02	<1%	—	—
			PM ₁₀	1.49E-02	<1%	—	—
			PM _{2.5}	1.49E-02	<1%	—	—
			SO ₂	3.82E-04	<1%	—	—
			NO _x	2.76E-01	<1%	2.76E-01	8%
			CO	1.59E-01	<1%	—	—
Transfer Station	Propane Heating	TRSTN	TSP	1.97E-03	<1%	—	—
			PM ₁₀	1.97E-03	<1%	—	—
			PM _{2.5}	1.97E-03	<1%	—	—
			SO ₂	5.06E-05	<1%	—	—
			NO _x	3.65E-02	<1%	3.65E-02	1%
			CO	2.11E-02	<1%	—	—
Truck Shop	Propane Heating	TRCKSTP	TSP	2.05E-02	<1%	—	—
			PM ₁₀	2.05E-02	<1%	—	—
			PM _{2.5}	2.05E-02	<1%	—	—
			SO ₂	5.28E-04	<1%	—	—
			NO _x	3.81E-01	<1%	3.81E-01	11%
			CO	2.20E-01	<1%	—	—
AC Main Building	Propane Heating	ACMB	TSP	2.37E-03	<1%	—	—
			PM ₁₀	2.37E-03	<1%	—	—
			PM _{2.5}	2.37E-03	<1%	—	—
			SO ₂	6.10E-05	<1%	—	—
			NO _x	4.40E-02	<1%	4.40E-02	1%
			CO	2.54E-02	<1%	—	—
AC Dorm 1	Propane Heating	ACD1	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
AC Dorm 2	Propane Heating	ACD2	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 3	Propane Heating	ACD3	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 4	Propane Heating	ACD4	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 5	Propane Heating	ACD5	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 6	Propane Heating	ACD6	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
AC Dorm 7	Propane Heating	ACD7	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 8	Propane Heating	ACD8	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 9	Propane Heating	ACD9	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Dorm 10	Propane Heating	ACD10	TSP	7.40E-04	<1%	—	—
			PM ₁₀	7.40E-04	<1%	—	—
			PM _{2.5}	7.40E-04	<1%	—	—
			SO ₂	1.90E-05	<1%	—	—
			NO _x	1.37E-02	<1%	1.37E-02	<1%
			CO	7.93E-03	<1%	—	—
AC Compressor Room	Propane Heating	ACCOMP	TSP	8.33E-06	<1%	—	—
			PM ₁₀	8.33E-06	<1%	—	—
			PM _{2.5}	8.33E-06	<1%	—	—
			SO ₂	2.14E-07	<1%	—	—
			NO _x	1.55E-04	<1%	1.55E-04	<1%
			CO	8.92E-05	<1%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
RS-1	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS1_1 – RS1_36	TSP	8.47E+00	4%	—	—
			PM ₁₀	2.51E+00	4%	—	—
			PM _{2.5}	3.14E-01	3%	—	—
			NO _x	2.01E+00	4%	—	—
			SO ₂	2.63E-04	<1%	—	—
			CO	1.25E+00	4%	—	—
			HC	2.91E-01	5%	—	—
			TSPmetals	8.40E-01	3%	8.40E-01	3%
			TSPdiesel	7.24E-02	5%	—	—
RS-2	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	EASTPIT	TSP	1.89E+01	9%	—	—
			PM ₁₀	5.59E+00	9%	—	—
			PM _{2.5}	6.99E-01	6%	—	—
			NO _x	4.48E+00	10%	—	—
			SO ₂	5.87E-04	<1%	—	—
			CO	2.80E+00	9%	—	—
			HC	6.50E-01	11%	—	—
			TSPmetals	1.87E+00	7%	1.87E+00	7%
			TSPdiesel	1.61E-01	11%	—	—
RS-4	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS4_1 – RS4_47	TSP	2.90E+01	14%	—	—
			PM ₁₀	8.58E+00	14%	—	—
			PM _{2.5}	1.07E+00	10%	—	—
			NO _x	6.88E+00	15%	—	—
			SO ₂	9.01E-04	<1%	—	—
			CO	4.29E+00	14%	—	—
			HC	9.97E-01	16%	—	—
			TSPmetals	2.87E+00	10%	2.87E+00	10%
			TSPdiesel	2.48E-01	16%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
RS-5	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	WESTPIT	TSP	6.33E+01	31%	—	—
			PM ₁₀	1.87E+01	30%	—	—
			PM _{2.5}	2.34E+00	21%	—	—
			NO _x	1.50E+01	32%	—	—
			SO ₂	1.97E-03	<1%	—	—
			CO	9.37E+00	31%	—	—
			HC	2.18E+00	36%	—	—
			TSPmetals	6.27E+00	22%	6.27E+00	22%
			TSPdiesel	5.41E-01	35%	—	—
RS-7S	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS7S_1 – RS7S_53	TSP	1.69E+01	8%	—	—
			PM ₁₀	5.01E+00	8%	—	—
			PM _{2.5}	6.27E-01	6%	—	—
			NO _x	4.02E+00	9%	—	—
			SO ₂	5.26E-04	<1%	—	—
			CO	2.51E+00	8%	—	—
			HC	5.82E-01	10%	—	—
			TSPmetals	1.68E+00	6%	1.68E+00	6%
			TSPdiesel	1.45E-01	9%	—	—
RS-7N	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS7N_1 – RS7N_70	TSP	8.69E+00	4%	—	—
			PM ₁₀	2.57E+00	4%	—	—
			PM _{2.5}	3.22E-01	3%	—	—
			NO _x	2.06E+00	4%	—	—
			SO ₂	2.70E-04	<1%	—	—
			CO	1.29E+00	4%	—	—
			HC	2.99E-01	5%	—	—
			TSPmetals	8.62E-01	3%	8.62E-01	3%
			TSPdiesel	7.42E-02	5%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
RS-8	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS8_1 – RS8_28	TSP	3.37E+00	2%	—	—
			PM ₁₀	9.97E-01	2%	—	—
			PM _{2.5}	1.25E-01	1%	—	—
			NO _x	7.99E-01	2%	—	—
			SO ₂	1.05E-04	<1%	—	—
			CO	4.99E-01	2%	—	—
			HC	1.16E-01	2%	—	—
			TSPmetals	3.34E-01	1%	3.34E-01	1%
			TSPdiesel	2.88E-02	2%	—	—
RS-9	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS9_1 – RS9_10	TSP	7.84E-01	<1%	—	—
			PM ₁₀	2.32E-01	<1%	—	—
			PM _{2.5}	2.90E-02	<1%	—	—
			NO _x	1.86E-01	<1%	—	—
			SO ₂	2.44E-05	<1%	—	—
			CO	1.16E-01	<1%	—	—
			HC	2.70E-02	<1%	—	—
			TSPmetals	7.78E-02	<1%	7.78E-02	<1%
			TSPdiesel	6.70E-03	<1%	—	—
RS-10	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS10_1 – RS10_19	TSP	4.00E+00	2%	—	—
			PM ₁₀	1.18E+00	2%	—	—
			PM _{2.5}	1.48E-01	1%	—	—
			NO _x	9.48E-01	2%	—	—
			SO ₂	1.24E-04	<1%	—	—
			CO	5.91E-01	2%	—	—
			HC	1.37E-01	2%	—	—
			TSPmetals	3.96E-01	1%	3.96E-01	1%
			TSPdiesel	3.41E-02	2%	—	—



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
RS-11	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS11_1 – RS11_12	TSP	1.47E+00	<1%	—	—
			PM ₁₀	4.35E-01	<1%	—	—
			PM _{2.5}	5.44E-02	<1%	—	—
			NO _x	3.49E-01	<1%	—	—
			SO ₂	4.57E-05	<1%	—	—
			CO	2.18E-01	<1%	—	—
			HC	5.05E-02	<1%	—	—
			TSPmetals	1.46E-01	<1%	1.46E-01	<1%
TSPdiesel	1.25E-02	<1%	—	—			
RS-12	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS12_1 – RS12_61	TSP	1.98E+01	10%	—	—
			PM ₁₀	5.85E+00	9%	—	—
			PM _{2.5}	7.32E-01	7%	—	—
			NO _x	4.69E+00	10%	—	—
			SO ₂	6.14E-04	<1%	—	—
			CO	2.93E+00	10%	—	—
			HC	6.80E-01	11%	—	—
			TSPmetals	1.96E+00	7%	1.96E+00	7%
TSPdiesel	1.69E-01	11%	—	—			
RS-17	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS17_1 – RS17_16	TSP	5.41E-01	<1%	—	—
			PM ₁₀	1.60E-01	<1%	—	—
			PM _{2.5}	2.00E-02	<1%	—	—
			NO _x	1.28E-01	<1%	—	—
			SO ₂	1.68E-05	<1%	—	—
			CO	8.01E-02	<1%	—	—
			HC	1.86E-02	<1%	—	—
			TSPmetals	5.36E-02	<1%	5.36E-02	<1%
TSPdiesel	4.62E-03	<1%	—	—			



EMRB-1-1 – Tables

Table EMRB-1-1: Canadian Malartic Source Summary Table

Source Description	Emission Source Type	Model Source ID	Contaminant	Emission Data for HHERA		Emission Data for OCA	
				Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]	Daily Emission Rate [g/s]	Percentage of Overall Emissions [%]
RS-18	Unpaved Road Segments Fugitive Dust and Tailpipe Exhaust	RS18_1 – RS18_9	TSP	7.50E-01	<1%	—	—
			PM ₁₀	2.22E-01	<1%	—	—
			PM _{2.5}	2.78E-02	<1%	—	—
			NO _x	1.78E-01	<1%	—	—
			SO ₂	2.33E-05	<1%	—	—
			CO	1.11E-01	<1%	—	—
			HC	2.58E-02	<1%	—	—
			TSPmetals	7.44E-02	<1%	7.44E-02	<1%
			TSPdiesel	6.41E-03	<1%	—	—

Made By: NCH
Checked By: RLP

n:\active\2013\1118\13-1118-0010 osisko-hammond reef - ea support\004 information requests\final eis-ea irs\02 addendum attachments\attachment 5\01 emrb 1-1 canadian malartic source summary table.docx