

## APPENDIX 10

### GREENHOUSE GAS SCOPE 1 EMISSIONS

FACILITY ENERGY & EMISSIONS CALCULATOR

Facility name (optional)	Yalylaup Mineral Sands Mine	Operational Control	Full year	365
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TRANSPORT FUEL COMBUSTION	Amount	Unit	Greenhouse gasses			Total scope 1 emissions (t CO <sub>2</sub> -e)	Total energy (GJ) (Gigajoules)
			CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O		
Select fuels below	Enter amount below						
Diesel oil	4119.523	kl	11,115	16	80	11,210	159,014
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Total Scope 1 transport emissions (t CO <sub>2</sub> -e) and energy consumed (GJ)						11,210	159,014

  

NON-TRANSPORT FUEL COMBUSTION	Amount	Unit	Greenhouse gasses			Total scope 1 emissions (t CO <sub>2</sub> -e)	Total energy (GJ) (Gigajoules)
			CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O		
Select fuels below	Enter amount below						
Diesel oil	283.137	kl	764	1	2	767	10,929
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Total Scope 1 non-transport emissions (t CO <sub>2</sub> -e) and energy consumed (GJ)						767	10,929

  

PURCHASED ELECTRICITY	Amount	Unit	Emission factor EF	Total scope 2 emissions (t CO <sub>2</sub> -e)	Total energy (GJ) (Gigajoules)
-	-	kWh			
-	-	kWh			
Total Scope 2 emissions (t CO <sub>2</sub> -e) and energy consumed (GJ)				0	0

  

CONSUMED WITHOUT COMBUSTION	Amount	Unit	Total energy (GJ) (Gigajoules)
-	-	-	-
-	-	-	-
-	-	-	-
Total energy consumed (GJ)			0

  

ELECTRICITY/ENERGY PRODUCED	Amount	Unit	Total energy (GJ) (Gigajoules)
-	-	-	-
-	-	-	-
-	-	-	-
Total energy produced (GJ)			0

  

FUGITIVE EMISSIONS (DIRECT ENTRY)	Greenhouse gasses (t CO <sub>2</sub> -e)			Total scope 1 emissions (t CO <sub>2</sub> -e)
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	
	Enter gas below			
-	0.000	0.000	0.000	0
-	0.000	0.000	0.000	0
Total Scope 1 emissions (t CO <sub>2</sub> -e)				0

  

FACILITY SUMMARY	Reported emissions		Calculated full-year emissions	
	Total Scope 1 emissions	11,978 t CO <sub>2</sub> -e	11,978 t CO <sub>2</sub> -e	
Total Scope 2 emissions	0 t CO <sub>2</sub> -e	0 t CO <sub>2</sub> -e		
<b>TOTAL EMISSIONS</b>	<b>11,978 t CO<sub>2</sub>-e</b>	<b>11,978 t CO<sub>2</sub>-e</b>		
<b>TOTAL ENERGY CONSUMED</b>	<b>169,943 GJ</b>	<b>169,943 GJ</b>		
<b>TOTAL ENERGY PRODUCED</b>	<b>0 GJ</b>	<b>0 GJ</b>		

  

ANNUAL FACILITY REPORTING THRESHOLDS			
Total emissions threshold	0 t CO <sub>2</sub> -e	119,776.68	25,000 t CO <sub>2</sub> -e
Energy consumption threshold	0 GJ	169,942.69	100,000 GJ
Energy production threshold	0 GJ		100,000 GJ