

BAFFINLAND IRON MINES CORP - MARY RIVER PROJECT				DOC. NO. H337697-PX701-D118219	
		EQUIPMENT DATA SHEET			
		Packaged Incinerator			
Item	Item	UOM	Notes	Supplier Data	Operation Data
A.1	Warranty	Years	Vendor Specified		
A.2	Quality Management - ISO 9001:2008 Certified	Yes/No	Vendor Specified		
IDENTIFICATION					
B.1	Equipment Name	-	Vendor Specified		
B.2	Type of Equipment	-	Vendor Specified		
B.3	Equipment Number	-	Vendor Specified		
CAPACITY and DESIGN SPECIFICATIONS					
C.1	Total Capacity	tonnes/day	Vendor Specified		
C.2	Incinerator Type	-	Batch		
C.3	Camber Configuration	-	Dual Chamber		
C.4	Secondary Chamber Temperature	°C	1000		
C.5	Secondary Chamber Residual Time	sec	2		
C.6	Skin Temperature	°C	82		
C.7	Fuel Type	-	Diesel		
C.8	Incinerator bear CSA label	Yes/No	Not Specified		
C.9	Continuous Emission Monitoring System	Yes/No	Vendor Specified		
FREIGHT INFORMATION					
D.1	Primary Chamber Shipment Size	mm (L x W x H)	Vendor Specified		
D.2	Primary Chamber Shipment Weight	kg	Vendor Specified		
D.3	Secondary Chamber Shipment Size	mm (L x W x H)	Vendor Specified		
D.4	Secondary Chamber Shipment Weight	kg	Vendor Specified		
D.5	Additional Accessories Shipment Size	mm (L x W x H)	Vendor Specified		
D.6	Additional Accessories Shipment Weight	kg	Vendor Specified		
D.7	Buidling Shipment Size	mm (L x W x H)	Vendor Specified		
D.8	Buidling Shipment Weight	kg	Vendor Specified		
D.9	Weigh of Heaviest Lift	kg	Vendor Specified		
D.10	Total weight of complete incinerator unit	kg	Vendor Specified		
D.11	Total shipping volume per incinerator unit	m ³	Vendor Specified		
SITE CONDITIONS					
E.1	Operable in General Site Conditions S003120	-	See General Site Conditions S003120		
DESIGN AND OPERATING PARAMETERS					
F.1	Est. Waste Bulk Density in Bid	kg/m ³	Assume 160-240m ³		
F.2	Heating Value (as Fired)	MJ/kg	Vendor Specified		
F.3	Primary Chamber Burn Rate	kg/h	Vendor Specified		
F.4	Batch Capacity	m ³	Vendor Specified		
F.5	No. of Batches/cycle	-	Vendor Specified		
F.6	Total Air Exchanges	%	Vendor Specified		
F.7	Primary Chamber Specific Heat Release	MJ/h/m ³	Vendor Specified		
F.8	Refractory Thickness	mm	Vendor Specified		
F.9	Insulation Thickness	mm	Vendor Specified		
F.10	Outershell Thickness	mm	Vendor Specified		
F.11	Refractory Anchor Material	Stainless Steel	Vendor Specified		
F.12	Off Time per Cycle	hr	Vendor Specified		
F.13	Fuel Mixing Ratio with Waste Oil (if applicable)	-	Vendor Specified		
F.14	Capability to burn waste oil with loading rate	l/hr	Vendor Specified		
F.15	Burner Efficiency	%	Vendor Specified		
F.16	Destruction Efficiency	%	Vendor Specified		
F.17	Stack Material Construction	-	Galvanized		
F.18	Spark Arrester Open Area	m ²	Vendor Specified		
F.19	Spark Arrester Finish	-	Galvanized		
F.20	Burner System Type/Manufacturer	-	Vendor Specified		
F.21	Valve Train	-	Vendor Specified		
F.22	Charging System	-	Vendor Specified		
F.23	Chargin Chute Size	Not Required	Not Required		
F.24	Top Loading	-	Vendor Specified		
F.25	Building Enclosure Type and Description	-	Vendor Specified		
MATERIALS OF CONSTRUCTION					
G.1	External Casing	-	Carbon steel plate and adequately reinforced with structural steel members.		
G.2	Spark Arrester	-	Vendor Specified		
G.3	Insulation in Primary Chamber (materials and thickness)	-	Vendor Specified		
G.4	Insulation in Secondary Chamber (materials and thickness)	-	Vendor Specified		
G.5	Insulation in Stack (materials and thickness)	-	Vendor Specified		
G.6	Charging Chute	-	Not Required		
G.7	Paint System Used	-	Heat resistant		
G.8	Dry Film Thickness of Paint	mm	Vendor Specified		
G.9	Primary Chamber Burner Rating	GJ/hr	Vendor Specified		
G.10	Secondary Chamber Burner Rating	GJ/hr	Vendor Specified		
BLOWERS					
H.1	Blower Manufacturer		Vendor Specified		
H.2	Primary Chamber Blower Capacity	m ³ /hr	Vendor Specified		
H.3	Primary Blower Pressure	kPag	Vendor Specified		
H.4	Primary Chamber Blower HP/RPM	RPM	Vendor Specified		

H.5	Secondary Chamber Blow Capacity (m3/hr)	m ³ /hr	Vendor Specified		
H.6	Secondary Blower Pressure (kPag)	kPag	Vendor Specified		
H.7	Secondary Chamber Blower HP/ RPM	-	Vendor Specified		
FOOTPRINTS AND WEIGHTS					
I.1	Primary Chamber Outside Dimensions (H x W x L)	m	Vendor Specified		
I.2	Primary Chamber Approx. Weight	kg	Vendor Specified		
I.3	Secondary Chamber Outside Dimensions (H x W x L)	m	Vendor Specified		
I.4	Secondary Chamber Approx. Weight	tonne	Vendor Specified		
I.5	Operating Weight (with avg building)	tonne	Vendor Specified		
POWER AND FUEL REQUIREMENTS					
J.1	Power Capacity	volts/cycle/phase	Vendor Specified		
J.2	Turndown Capacity	%	Vendor Specified		
J.3	Diesel	L/h	Vendor Specified		
J.4	Fuel Tank Size	Litre	5 Days		
J.5	Waste Oil Tank Size	Litre	Vendor Specified		
SYSTEM PERFORMANCE					
K.1	Combustion Air (Total)	sm ³ /min	Vendor Specified		
K.2	Air Emissions Exit	-	Secondary Chamber Outlet		
K.3	Primary Chamber Temperature	°C	Vendor Specified		
K.4	Secondary Chamber Temperature	°C	Vendor Specified		
K.5	Secondary Chamber Residual Time	sec	Vendor Specified		
K.6	Skin Temperature	°C	Vendor Specified		
K.7	Stack Inside Diameter	m	Vendor Specified		
K.8	Stack Flow Rate	m ³ /min	Vendor Specified		
K.9	Velocity	m/s	Vendor Specified		
K.10	Flue Gas Temperature (max)	°C	Vendor Specified		
K.11	Flue Gas Flow Rate	sm ³ /min	Vendor Specified		
K.12	CO ₂ (dry basis)	% volume	Vendor Specified		
K.13	O ₂ (dry basis)	% volume	Vendor Specified		
K.14	Moisture (wet basis)	% volume	Vendor Specified		
K.15	Ash Generation	kg/d	Vendor Specified		
REGULATORY COMPLIANCE (IFC WASTE FACILITY INCINERATOR GUIDELINES , 2007)					
L.1	Particulate Matter (PM)	mg/dsm ³	70		
L.2	Opacity	%	10		
L.3	Sulphur Dioxide(SO ₂)	ppmv	20		
L.4	Nitrogen Oxides (NOx)	ppmv	388		
L.5	Hydrochloric Acid (HCl)	ppmv	62		
L.6	Dioxin/Furan Level	ng TEQ/dsm ³	0.41		
L.7	Carbon Monoxide (CO)	ppmv	157		
L.8	Cadmium (Cd)	µg/dscm ³	4		
L.9	Lead (Pb)	µg/dscm ³	40		
L.10	Mercury (Hg)	µg/dsm ³	470		
PROCESS DESCRIPTION					
M.1	Written Description of Process (500 words max.)				
Date	Rev	Status	Prepared by	Checked by	Approved by
9/26/2011	B	Approved for Enquiry	A.Grzegorzcyk	R. Kapadia	J.Cleland
8/12/2011	A	Approved for Enquiry	A.Grzegorzcyk	T. Mackay	J.Cleland