APPENDIX 3B
KEY FACTS TABLE
ERP AND APPROVED PROJECT

Appendix 3B Key Facts Table

Table 1: Key Project Facts Table – General Information							
Project Site	Land Tenure	Potential Development Area (PDA)	ERP Footprint of Facilities	Ultimate Foot print of Facilities	Aggregate required for site development	Source of Aggregate	Water Crossings
Milne Port	IOL Lease	224 ha		70 ha	600,000 m^3	Quarries Q1, Q2, Q3, Q4, Q5, Q6 and Q7	No water courses
Tote Road	IOL Lease and Crown Lease	865 ha		787 ha	2,000,000 m^3	multiple quarries along Tote Road	Total of 115 stream crossings - 4 bridges - 75 culvert replacements - 40 culvert extensions Design as per 2008 Tote Road upgrade report(1)
Mine Site	IOL Lease	2,740 ha		47	5,000,000 m^3	QMR2 and waste rock from mine	Two water crossings Two bridges
Railway	Crown Lease	1,310 ha	5 ha	47	16,000,000 m^3	multiple quarries	Total of 483 stream crossings - 30 bridges - 208 large culverts - 215 temporary crossings
Steensby Port	Crown Lease	2,485 ha	5 ha	213 ha	12,500,000 m^3	QS2 and rock cut	Two small stream crossing (culverts)
References: 1. Knight Piesold: Document NB102-00181/10-1, Rev 0, Bulk Sampling Program – Road Upgrade Design Summary							

Appendix 3B Key Facts Table (Cont'd)

Ore Production and Shipment												
Year		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 +
Project Phase		Approved Project Construction Phase										
				Early Revenue Phase				18 Mt/a Production Phase				
Ore Movement												
Mine Operation	Ore Mined - Mt		0.5 Mt	2.7 Mt	3.5 Mt	3.5 Mt	3.5 Mt	4.8 Mt	20 Mt	21.5 Mt	21.5 Mt	21.5 Mt
	Truck Loading Stockpile at Mine		0.2 Mt	0.2 Mt	0.2 Mt	0.2 Mt	0.2 Mt	0.2 Mt				
	Run of Mine	-	-	-	-	-	0.4 Mt	0.4 Mt	0.4 Mt	0.4 Mt	0.4 Mt	0.4 Mt
	Crushed Ore Stockpile	-	-	-	-	-	-	1.4 Mt	1.4 Mt	1.4 Mt	1.4 Mt	1.4 Mt
	Waste Rock /Overburden		0.03 Mt	0.5 Mt	0.8 Mt	0.85 Mt	0.85 Mt	3.2 Mt	40Mt	54 Mt	54 Mt	60 Mt
Tote Road	Ore transported		0.5 Mt	2.0 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt
	Truck fleet and size	140 t haul trucks (20 tractors with two 70 tonne trailers)										
	Number of ore trucks trip per day (average)		11	43	76	76	76	76	76	76	76	76
	Ore truck transit per day		22	86	152	152	152	152	152	152	152	152
	Non ore truck vehicle traffic/day	30	30	30	30	30	30	20	10	10	10	10
Milne Port	Shipping season	July 1st to October 1st annually; two tug boats will be chartered for a period of 135 days per year										
	Ore carrier type	Panamax, Supramax and Post Panamax at approximately 50,000 DWT to 110,000 DWT										
	Ore shipped - Mt/a	-	0.5 Mt	2.0 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt
	Number of sailings (approx.)		7	30	55	55	55	55	55	55	55	55
	Ore stockpile - Mt		0.5 Mt	2 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt	3.5 Mt
Railway	Ore transported	-	-	-	-	-	-	1.3 Mt	16.5 Mt	18 Mt	18 Mt	18 Mt
	Railway trip/day							1	4	4	4	4
	Service road traffic vehicle/day	-	-	30	50	50	50	Service road decommissioned				
	Ice Road traffic vehicle/day	-	-	50	Ice road no longer required							
Steensby Port	Shipping	Year around shipping; 4 Ice Management Vessels anchored at Steensby Port to enable winter shipping										
	Ore carriers type	Ten dedicated icebreaker ore carriers - 160,000 DWT to 190,000 DWT										
	ore shipped -Mt/a	-	-	-	-	-	-	1.3 Mt	16.5 Mt	18 Mt	18 Mt	18 Mt
	Number of sailings	-	-	-	-	-	-	9	110	120	120	120
	Fine ore Stockpile	-	-	-	-	-	1.4 Mt	1.4 Mt	1.4 Mt	1.4 Mt	1.4 Mt	1.4 Mt
	Coarse ore stockpile	-	-	-	-	-	3.2 Mt	3.2 Mt	3.2 Mt	3.2 Mt	3.2 Mt	3.2 Mt

Appendix 3B Key Facts Table (Cont'd)

Freight and Fuel Delivery												
Year		**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023 +**
Project Phase		Approved Project Construction Phase										
				Early Revenue Phase			18 Mt/a Production Phase					
Freight Delivery to Site												
Milne Port	Vessels	14	10									
	Cargo tonnage (t)	200,000	150,000	165,000	95,000	43,000	46,000					
Steensby Port	Vessels	-	-	22	20	7	4	approximately 3 per annum				
	Cargo tonnage (t)	-	-	206,000	150,000	107,000	80,000	approximately 60,000 per annum				
Fuel Consumption - Mtonnes												
Milne Port	ERP Construction	12	14.2	2.9								
	ERP Operation		1.9	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
Mine Site	ERP Construction	3.5	8.7									
	ERP Operation		0.65	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
On Site Fuel Storage Capacity												
Milne Port	Arctic diesel - ML	2 x 5 ML 2 x 12 ML	2 steel tanks at 5 ML plus 3 steel tanks at 12 ML storage capacity									
	Jet-A - ML	1 steel tank at 1.5 ML capacity										
	Marine diesel	Two tanks 100,000L each within tank farm secondary containment										
	Isocontainers (other fuel)	One double wall isocontainer for gasoline; two isocontainers for propane or other fuel.										
Mine Site	Arctic diesel - ML	4 x 0.5 ML isocontainers		3 steel tanks at 5 ML (total storage capacity of 15 ML)								
	Jet-A - ML	1 x 50,000 L isocontainer		2 steel tanks at 1.5 ML (total storage capacity of 3 ML)								
	Isocontainers (other fuel)	2	2	4	4	4	4	4	4	4	4	4
Steensby Port	Arctic diesel – ML (steel tank)	-	-	15 x 1 ML 20 ML barge	15 tanks at 1 ML 2 tanks at 40 ML		4 steel tanks at 40 ML each					
	Jet-A - ML	-	-	5 x 1 ML steel tanks								
	Marine diesel	-	-	-	-	-	-	1 tank at 7.5 ML plus 2 tanks at 25 ML				
	Isocontainers (other fuel)			4	4	4	4	4	4	4	4	4
Quarries	Isocontainers - diesel	8	8	isocontainers at various quarry sites along railway					No requirements			
Tote Road & Railway Const.	Isocontainers - diesel	as required	as required	one x 100,000 L isocontainer at each railway camp and at tunnel construction sites					One isocontainer at each refuge station			
Water Crossings	Isocontainers - diesel	1	1	isocontainers at major bridge construction sites					No requirements			
Fuel Delivery (Open water season – July 1st to October 1st)												
Milne Port	Fuel tankers	2	2	2	2	2	2	2				
	Diesel (ERP) - ML	35	50	36	36	36	36	36				
	Marine diesel (tugs)		0.2	0.2	0.2	0.2	0.2	0.2				
	Diesel (Const) - ML			15	15	15	15					
	Jet-A - ML	3	6	3	3	3	3	3				
Steensby Port	Fuel tankers	-	-	2	4	4	3	3 to 6 tankers per annum				
	Arctic diesel - ML			40	35	35	120	160	160	160	160	160
	Marine diesel - ML	-	-				50	50	50	50	50	50
	Jet-A - ML	-	-	3	3	3	3	3	3	3	3	3

Appendix 3B Key Facts Table (Cont'd)

Workforce and Camps												
Year		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 +
Project Phase		Approved Project Construction Phase										
				ERP Production				18 Mt/a Production Phase				
Estimated Workforce (all Project sites)												
Construction ERP	On-site	550	500									
	Payroll	825	750									
Operation ERP	On-site		210	210	210	210	210	210	210	210	210	210
	Payroll		420	420	420	420	420	420	420	420	420	420
Construction 18 MT Phase	On-site			570	1,800	1,600	1,600	900				
	Payroll			800	2,700	2,400	2,400	1,350				
Operation 18 MT Phase	On-site						450	950	950	950	950	950
	Payroll											
Air Traffic (estimated flights per year)												
Milne Port	Dash 8/ATR	210		210	210	105	105					
Mine Site	B737 / C130	300	300	550	550	550	550	365	365	365	365	365
Steensby Port	B737 / C130			185	185	185	185	185	185	185	185	185
Camp Capacity (persons per camp)												
Milne	Construction	225	225	110	110	110	110	110	Camp is Downsized			
	Operation			60	60	60	60	60	60	60	60	60
Mine Site	Exploration camp	150	150	150	150	150	150	150	150	150	150	150
	Construction	400	400	900	900	900	900	900				
	ERP Operation			150	150	150	150	60	60	60	60	60
	Approved project Operation							250	500	500	500	500
	Mine Site total beds	**550**	**550**	**1,200**	**1,200**	**1,200**	**1,200**	**1,220**	**710**	**710**	**710**	**710**
Steensby	Tent Camp	40	40	40	Tent camp decommissioned							
	Floating camp	-	-	600	600	600	600	Removed				
	Hardwall camp	-	-	600	600	600	600	300	300	300	300	300
Railway	Mid-rail	-	-	-	200	200	200	Decommissioned				
	Ravn River	-	-	-	400	400	400	Decommissioned				
	S. Cockburn	-	-	-	300	300	300	Decommissioned				
	N. Cockburn	-	-	-	200	200	200	Decommissioned				

Appendix 3B Key Facts Table (Cont'd)

Water Consumption and Sewage Discharge												
Year		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 +
Project Phase		Approved Project Construction Phase										
				ERP Production				18 Mt/a Production Phase				
Expected Water Consumption – Type A Water Licence – annual volumes: Camp lake = 240,000 m^3/year; Philips Creek/32 km Lake =25,000 m^3/year												
Milne Port	Phillips Creek (summer) km 32 Lake (winter)	30,200	30,200	24,000	24,000	24,000	24,000	24,000	12,000	12,000	12,000	12,000
Mine Site	Camp Lake	58,000	73,000	240,000	240,000	240,000	240,000	240,000	135,000	135,000	135,000	135,000
Steensby Port	ST 347 Lake (3 km Lake	1,500	1,500	155,000	155,000	155,000	155,000	155,000	155,000	155,000	155,000	155,000
Railway Construction	Ravn Camp Lake			53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000
	Nivek Lake			29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000
	Cockburn Lake			37,000	37,000	37,000	37,000	37,000	37,000	37,000	37,000	37,000
	Cockburn Lake			41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000
Sewage Discharge Volumes – m^3/day (Authorized under Type A Water Licence)												
Milne Port	Generated, m^3/d	55	55	55	55	55	55	55	55	55	55	55
	Holding pond size	PWSP #1= 575 m^3										
Mine Site Exploration Camp	Generated, m^3/d	36	36	36	36	36	36	36	36	36	36	36
	Holding pond size	Three PWSP – total capacity of 9,400 m^3										
	Sheardown Lake Discharge (90 days)	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day	60 m^3/day
Mine Site Main Camp	Generated, m^3/d			315	315	315	315	315	168	168	168	168
	Holding pond size	110,000 m^3 - PWSP sized to hold 10 months of sewage effluent										
	Mary River Discharge (90 day period)	365 m^3/day	365 m^3/day	1,740 m^3/d	1,740 m^3/d	1,740 m^3/d	1,740 m^3/d	1,740 m^3/d	672 m^3/d	672 m^3/d	672 m^3/d	672 m^3/d
Steensby Port	Land Based Camp			310	310	310	310	102	102	102	102	102
	Floatel			310	310	310	310	Removed				
	Discharge			Ocean discharge of treated sewage effluent via outfall								
Ravn Camp	Trucked to Mine			120	120	120	120	Camp and sewage plant decommissioned				
	Holding pond size			48,000 m^3 - 1 year of sewage effluent				Decommissioned & site reclamation				
Mid-Rail Camp	Trucked to Mine			60	60	60	60	Camp and sewage plant decommissioned				
	Holding pond size			24,000 m^3 - 1 year of sewage effluent				Decommissioned & site reclamation				
N. Cockburn	Trucked to Mine			60	60	60	60	Camp and sewage plant decommissioned				
	Holding pond size			24,000 m^3 - 1 year of sewage effluent				Decommissioned & site reclamation				
S. Cockburn	Trucked to Mine			90	90	90	90	Camp and sewage plant decommissioned				
	Holding pond size			36,000 m^3 - 1 year of sewage effluent				Decommissioned & site reclamation				

Appendix 3B Key Facts Table (Cont'd)

Quantities of Wastes and Explosives												
Year		**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023 +**
Project Phase		Approved Project Construction Phase										
				ERP Production				18 Mt/a Production Phase				
Quantities of Waste												
Milne	To Landfill – t/year	596	596									
	To incinerator – t/y	135	135	135	135	135	135					
	Shipped off-site – t/y	150	150	200	300	300	200					
	Hazardous waste – t/y	150	150	255	255	255	255					
Mine Site	To Landfill – t/year	100	100	4,335	4,335	4,335	4,335	1,765	1,765	1,765	1,765	1,765
	To incinerator – t/y	400	400	980	980	980	980	980	980	980	980	980
Steensby	To Landfill – m^3/year			2,166	2,166	2,166	2,166	650	550	550	550	550
	To incinerator – t/y			490	490	490	490	490	200	200	200	200
	Shipped off-site – t/y							135	135	135	135	135
	Hazardous waste – t/y							150	150	150	150	150
Quantities of Explosives												
Mine Site	AN Stored on site											
	Emulsion used											
	Explosive Manufacture	Mobile / portable Emulsion Plant plus magazines						Permanent Emulsion Plant				
Steensby Port	AN Stored on site											
	Emulsion Used	Mobile / portable Emulsion Plant										
	Explosive Manufacture											
Power												
Milne	Demand	5,300 kW										
	Installed Power	five diesel generating sets – four for normal operation and one for emergency purposes										
Mine	Demand - ERP	5,250 kW										
	Installed Power - ERP	five diesel generating sets – four for normal operation and one for emergency purposes										
	Railway Proj. - Demand			Annual consumption = 114,000 MWh								
	Generators			Installed power = 15.8 MW; 5 units at 5.6 MW each (2 emergency standby units)								
Steensby	Demand			Annual consumption = 114,000 MWh								
	Installed Power			Running Load/Installed power = 11 MW/22MW; 3 units at 5.6 MW each (2 emergency standby units)								
Other Sites (Quarries, etc.)		Mobile genset as required used during construction period										