

RIO TINTO FER & TITANE INC. BERTH, Port of Sorel, Quebec (The following information is provided by RIO TINTO, is to be used as a guide only and is subject to change without notice.) Revised MAY 04, 2022 Longitude: 73 08' 06" Location: SECTION 21, 20 WEST & Latitude: 46 02' 28" SECTION 20 EAST (NEW) 803'00" or 245 Meters Maximum lenght of vessel: Maximum beam of vessel: Up to 105 feet or 32 meters Wider vessels to be discussed with RIO TINTO's traffic department. BOW THRUSTER: The use of Bow thruster is not allowed at Rio Tinto Fer & Titane Berth. Section 21 - 8.80 meters and Section 20 West - 9.40 meters Depth alongside: Full fresh,no tide, at "0" chart datum Section 20 East (NEW) (vessel requires 30cm or 1 foot under-keel when maneouvring, as per pilotage regulations) "0" chart datum) \*\*DEDUCT 0.30METERS FOR MANEOUVRING ++IMPORTANT++ VESSEL MUST RESPECT AN UNDERKEEL CLEARANCE FOR THE ST-LAWRENCE RIVER SUBJECT TO COASTGUARD GUIDELINES. CHANNEL DEPTH IS ABOUT 11.3 METERS. MAX. SAILING/ARRIVAL DRAFT IS 11.3 M. AT "0" CHART DATUM MINUS VESSEL'S APPLICABLE REQUIRED UNDER-KEEL CLEARANCE, PER COAST GUARD GUIDELINES, OF ABOUT 0.92 METERS. THEREFORE, MAXIMUM ARRIVAL/SAILING DRAFT IS ABT. 10.38M, AT "0" CHART DATUM AND DEPENDING ON VSL BEAM. DEPTH CAN BE LESS AT LOW TIDE, BETWEEN QUEBEC AND TROIS-RIVIERES. MAXIMUM Air draft: COAL, ILMENITE & PIG IRON: About 46'09" or 14.28 meters at "0" chart datum SLAGS & "UGS" CARGOS: About 62'00" or 18.8 meters at "0" chart datum MINIMUM HOLD/HATCH LENGTH : 7 METERS, TO ACCOMODATE THE LOADING SKIP. (FOR PIG IRON ONLY) 24 hours/day, 7 days/week Working hours: Discharging rate: COAL (bulkers): ABOUT 350-500 Mts / hour with one shore tower / clam ILMENITE (bulkers): ABOUT 500 Mts / hour with one shore tower / clam Loading rates: Pig iron: ABOUT 225-275 Mts/hr \*\* Pig Iron is loaded with one shore tower / skip, traveling abt.130 Meters along the berth "SoreIslag"ABOUT 300-500 Mts/hr "UGS" & " RTCS" ABOUT 500 Mts/hr slag: other slags: -"Sorelslag", "UGS"&"Slag C" Titanium Slag are loaded with one shore tower chute/conveyor system which travels abt.100 Meters along the berth No tidal influence. WATER LEVEL AFFECTED BY ATMOSPHERIC CONDITIONS Tide: Water: Full fresh Fresh water (not guaranty for consumption ) Fresh water supply: Deliver by truck. Ask the agent for the price. Titanium Slag: Angle of repose: About 33-39 Degree (Sorelslag, UGS, Slag "C" ) Humidity: 3 % (approx) (non-hazardous and inert material) Stowage factor: About 17 CBF/long ton. Beneficiated Ilmenite Ore: Angle of repose: About 38 Degree Humidity: 2 % (approx) Stowage factor: About 11.5 CBF/long ton. (non-hazardous and inert material) Pia Iron: Angle of repose: About 35-40 Degree Stowage factor:About 15 CBF/long ton. Dimensions (L x W x H):About 11" x 5" x 2.5" per ingots (non-hazardous and inert material) Size can vary depending on grade. The Port of Sorel Anchorage CAUTION !!! : Facilities to supply bunkers, water, repairs, spares, doctor, dentist, VESSEL PERSONNEL, VISITORS etc., are available in the vicinity of vessel's berth, upon request and with certain AND SUPPLIERS ARE NOT conditions. Bunkers at section 20West & 20East must be approved by RIO TINTO first. Note: For Sect.21.Vessels fitted with cranes on port side, docking STBD no bunkering permitted. Acces to RIO TITO's installations are regulated by RIO TINTO's safety and ISPS Plan. PERMITTED TO WALK OUTSIDE OF THE DOCKSIDE AREA AND All deliveries to vessels must be coordinated with RIO TINTO or the local agent RIO TINTO PROVIDES TRANSPORTATION NO HEAVY VEHICLES ARE PERMITTED ON THE BERTH TO EXIT AND RETURN TO THE VESSEL DEPTH 9.40m DEPTH 10.40M at "0" datum at "0" datum - old dock new d SIGNAL LIGHT PLAN OF SECT. 21, 20 WEST & 20 EAST: dock -->>>>> <<<<< river current St-Lawrence River (Section 21) (Section 20 West) (Section 20 East) Travel of tower #27 is Abt. 80 M along berth Travel of towers #26 & #55 is Abt. 436' or 133 M along Section 20 West for Pig Iron plus abt. 650feet or ABT.198meters along Section 20 East for or ilmenite ore and coal imports. SLAG & "UGS" LOADING PIG IRON LOADING & COAL DISCHARGING COAL AND ILMENITE ORE, ONLY DEPTH 8.80M DEPTH 9.40M **DEPTH 10.40M** Tower #26 Tower #55 Tower #27 Coal SIGNAL LIGHT

TOTAL LENGTH OF RIO TINTO BERTH: @550METERS OR @1805 FEET

LENGTH: S.20 EAST @215M OR 705 FEET

Hopper

TOTAL LENGTH OF SECTION 20 WEST & 21: @335M OR @1100 FEET