

Table ECM - 2  
Environmental Component Follow-up  
Monitoring

**Whites Point Quarry and Marine Terminal**  
**Table ECM - 2 SUMMARY TABLE**  
**Environmental Component Follow-up Monitoring**

Environmental Component	Project Phase		Frequency	Description/EIS Paragraph	Regulatory Requirement
	Construction	Operation			
<i>Physical Environment</i>					
<b>Climate</b> Precipitation	Yes	Yes	Monthly	•On-site precipitation measurement ( <b>para. 9.1.1.4</b> )	No
<b>Geology</b> Basalt Rock	No	No	NA		N/A
<b>Hydrogeology</b> Groundwater Quality Groundwater Level	Yes Yes	Yes Yes	Annually Monthly	•Bacteriology, chemistry, trace metals ( <b>para. 9.1.3.4</b> ) •Groundwater level measurement at 6 monitoring well locations ( <b>para. 9.1.3.4</b> )	Yes-NSDEL No
<b>Surficial Geology &amp; Soils</b> Soil	No	Yes	5 Years	•Soil testing for reclamation ( <b>para. 9.1.4.4</b> )	No
<b>Little River Watershed</b> Drainage	Yes	Yes	Annually	•Off-site surface water drainage ( <b>para. 9.1.5.4</b> )	No
<b>On-Site Surface Water</b> <b>Drainage</b> Water Quality Water Quantity	Yes Yes	Yes Yes	Weekly Monthly	•Total suspended solids and pH from sediment pond outfalls ( <b>para. 9.1.6.4</b> ) •General chemistry ( <b>para. 9.1.6.4</b> ) and flow when measurable ( <b>para. 9.2.2.4</b> )	Yes-NSDEL No
<b>Physical Oceanography</b> Water Quality	Yes	No	Monthly	•Turbidity measurements if required during marine construction ( <b>para. 9.1.7.4</b> )	No
<b>Air Quality</b> Particulate Emissions	Yes	Yes	Daily	•Suspended particulate matter measurements if required at quarry property line ( <b>para. 9.1.8.4</b> )	Yes-NSDEL

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<b>Noise &amp; Vibration</b>					
Blasting - Land	Yes	Yes	Weekly	•Concussion and ground vibration measurements at 3 land monitoring stations ( <b>para. 9.1.9.4</b> )	Yes-NSDEL
Plant Operations - Land	No	Yes	Daily	•Sound level measurements at property line ( <b>para. 9.1.10.4</b> )	Yes-NSDEL
<b>Light</b>					
Night Light	Yes	Yes	Monthly	•Visual observations by a CLC member ( <b>para. 9.1.12.4</b> )	No
<b>Biological Environment</b>					
<b>Terrestrial Ecology</b>					
Flora Species at Risk					
<i>Glaucous Rattle-snake Root</i>	Yes	Yes	Annually	•Visual population appraisal and photographic documentation ( <b>para. 9.2.1.4</b> )	No
<i>Mountain Sandwort</i>	Yes	Yes	Annually	•Visual population appraisal and photographic documentation ( <b>para. 9.2.1.4</b> )	No
<i>Hemlock Parsley</i>	Yes	Yes	5 Years	•Visual population appraisal and photographic documentation ( <b>para. 9.2.1.4</b> )	No
Invasive Plants	No	Yes	5 Years	•Visual population appraisal and photographic documentation ( <b>para. 9.2.1.4</b> )	No
Vertebrate Fauna	No	Yes	5 Years	•On-site vertebrate survey including a breeding bird survey ( <b>para. 9.2.1.4</b> )	No
Odonata/Wetlands	No	Yes	5 Years	•Visual odonata population appraisal and wetland habitat appraisal ( <b>para. 9.2.1.4</b> )	No
Lepidoptera	No	Yes	5 Years	•Visual lepidoptera and host plant appraisal ( <b>para. 9.2.1.4</b> )	No
<b>Aquatic Ecology</b>					
Marine Intertidal Zone	Yes	No	Monthly	•Visual monitoring and turbidity measurements if required during marine construction ( <b>para. 9.2.3.4</b> )	No
Coastal-Nearshore	Yes	No	Daily	•Visual monitoring and turbidity measurements if required during marine construction ( <b>para. 9.2.4.4</b> )	No
Fish Habitat Compensation	No	Yes	Annually - 5 yrs	•Video documentation of pre & post compensation conditions, biological sampling ( <b>para. 9.2.4.4</b> )	Yes-DFO
Fish and Fish Habitat-Blasting	Yes	No	Initial Blast	•Peak pressure and ground vibration at 3 stations in marine environment ( <b>para. 9.2.9.4</b> )	Yes-DFO
Marine Mammals-Blasting	Yes	No	Initial Blast	•Peak pressure & ground vibration at 3 stations in marine environment ( <b>para. 9.2.11.4</b> )	No
Marine Mammals-Blasting	Yes	Yes	Initial Blast	•Noise measurement and video documentation of seal colony at Crowells Cove ( <b>para. 9.2.11.4</b> ).	No
Noise and Vibration-Marine	Yes	Yes	Weekly	•Noise and vibration in water column at marine terminal ( <b>para. 9.2.15.4</b> )	No

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<i>Human Environment</i>					
<b>Heritage Resources</b> Land Archaeology	Yes	Yes	NA	•Visual investigation if land disturbances within 250m of Hersey house foundation ( <b>para. 9.3.2.4</b> )	Yes - NS Museum
<b>Aesthetics</b> Reclamation	Yes	Yes	5 years	•Inspection of environmental preservation zone and reclamation procedures ( <b>para. 9.3.6.4</b> )	No
<b>Transportation</b> Marine	Yes	Yes	Annually	•Lobster fishermen monitor trap or gear loss resulting from shipping activities ( <b>para. 9.3.8.4</b> )	No
<b>Fishery</b> Intertidal	Yes	Yes	Daily	•Registration at the quarry office when harvesting in the coastal zone ( <b>para. 9.3.12.4</b> )	No
Nearshore	Yes	Yes	Daily	•Recording of frequency and duration of vessels at marine terminal ( <b>para 9.3.13.4</b> )	No
<b>Tourism</b> Bay of Fundy	Yes	Yes	Monthly	•Tourism representative to participate on Community Liaison Committee ( <b>para. 9.3.14.4</b> )	No
<b>Recreation</b> Outdoor	Yes	Yes	Daily	•Registration at the quarry office when accessing the coastal zone ( <b>para. 9.3.16.4</b> )	No
<b>Human Health</b> Drinking Water Quality Country Foods	Yes No	Yes Yes	Annually 5 years	•Chemical, physical, and bacteriology parameters ( <b>para. 9.3.18.4</b> ) •Metal content in periwinkles and wild raspberries ( <b>para. 9.3.21.4</b> )	Yes - HC No