

Appendix 1-A: Evaluation of Change Associated with Operational Update

Scope Activity	Evaluation of:				Is the Operational Update activity included in the previous approved scope of the Hope Bay Belt Project assessment?	Is there an Existing NIRB Certificate Requirement Related to the Optimization? Are amendments to Project Certificate required for optimization to proceed?	Is this a Type A Water Licence:		
	Type of Change <i>Is the modification or change a new type of work or activity compared to the permitted works and activities?</i>	Location of Change ^(a) <i>Is the modification or change (whether work or activity) outside of the location previously assessed?</i>	Area (ha) of Change ^(b) <i>What is the percentage of the area change?</i>	Cumulative Effect <i>Are the changes, when considered cumulatively as well as individually, likely to substantively alter the residual impact predictions previously assessed by NIRB under Project Certificate No. 003 or No. 009?</i>			Requirement for NWB Written Notification of Project Modification under Part G of the Type A Water Licence	Requirement for NWB Written Notification of Design Details under Part D of the Type A Water Licence	Requirement for NWB Amendment of existing Type A Water Licence Terms and Conditions for Optimization to Proceed ^(c)
Waste Infrastructure and Management									
Processing Ore at Doris Mill	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Refined mill design, increase throughput.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 26, 34. These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	No
Tailings Storage at Doris Tailings Impoundment Area	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Transition to Dry-Stacked/Filtered Tailings, as permitted under PC003, T&C 6, including a thickener and paste plant. All tailings will report to TIA and none will be going underground (except for the alternative of paste backfill). Remain within permitted TIA capacity.	No. The activity is within the previously assessed PDA and LSA. The activity will have a minor extension outside the assessed PDA (Figure 2.1-1)	The total increase in the PDA (for the Operational Update) is non-significant (about a 64 ha increase or 1.49% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 6. These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	Yes. Notification to NWB as per 2AM-DOH1335, Part G, Item 1 (Note – design report to be submitted with notification)	No	No
Underground mine portals	No. This is not a new type of work or permitted activity.	No. The activity is within the previously assessed PDA and LSA. The activity will have a manifestly insignificant extension outside the assessed PDA (Figure 2.1-1)	The total increase in the PDA (for the Operational Update) is non-significant (about a 0.031 ha increase or 0.001% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 37 PC No.009, T&C 11 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No.	No.	Yes
Waste Rock Stockpiles	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had waste rock stockpiles at Doris, Madrid, and Boston. There will be a temporary increase of stockpiles (during operations) at Doris and Madrid; at closure some waste rock will remain on surface at closure.	No. The activity is within the previously assessed PDA and LSA. The activity will have a minor extension outside the assessed PDA (Figure 2.1-1)	The total increase in the PDA (for the Operational Update) is non-significant (about a 12.4 ha increase or 0.29% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 5, 6 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	Yes. Notification to NWB as per 2AM-DOH1335, Part D, Item 1	Yes
Overburden Stockpiles	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had overburden stockpiles at Doris, Madrid, and Boston. There will be an increase in stockpiles but the closure of this facility will remain consistent	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 5, 6 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	Yes. Notification to NWB as per 2AM-DOH1335, Part D, Item 1	Yes

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Ore Stockpiles	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had ore stockpiles at Doris, Madrid, and Boston. There will be an increase of temporary storage but the ore stockpiles are temporary and w the closure of this facility will remain consistent	No. The activity is within the previously assessed PDA and LSA. The activity will have a minor extension outside the assessed PDA (Figure 2.1-1)	The total increase in the PDA (for the Operational Update) is non-significant (about a 5.3 ha increase or 0.12% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 5, 6 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	Yes. Notification to NWB as per 2AM-DOH1335, Part D, Item 1	Yes.
Water Infrastructure and Management									
Discharge to Roberts Bay	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had marine outfall at Roberts Bay. There will be a second discharge outfall (following the existing line corridor) but effects to water quality will not change.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 38, 39, 50 PC No.009, T&C 33 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	Yes
Contact Water Ponds	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had contact water ponds at Doris, Madrid, and Boston. There will be an optimization to the configuration of ponds.	No. The activity is within the previously assessed PDA and LSA. The activity will have a minor extension outside the assessed PDA (Figure 2.1-1)	The total increase in the PDA (for the Operational Update) is non-significant (about a 4.5 ha increase or 0.11% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 10 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	Yes. Notification to NWB as per 2AM-DOH1335, Part G, Item 1 (Note – design report to be submitted with notification)	No	Yes
Saline Water Ponds	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had contact water ponds at Doris, Madrid, and Boston. There will be an optimization to the configuration of ponds.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 10 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	Yes. Notification to NWB as per 2AM-DOH1335, Part G, Item 1 (Note – design report to be submitted with notification)	No	Yes
Freshwater Withdrawal	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal had withdrawal from Doris Lake, Windy Lake, Patch Lake, and Aimaokatalok Lake. There will be an increase in water use but optimization to minimize effects.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 10 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	Yes

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General Site Activities									
Marine Transport	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal has shipping annually in Roberts Bay. There is an increase to 12 cargo and 8 fuel ships annually. Shipping at Roberts Bay could begin from the early summer (June 1 to August) when Dolphin and Union caribou are on Victoria Island and Roberts Bay is commonly ice free, with only broken ice remaining in the Queen Maud Gulf and Dease Strait	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 29, 30, 31, 32, 33 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	No
Blasting Activities	No. This is not a new type of work or permitted activity.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No. 009, T&C 4, 14, 21, 22 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	No
Quarrying Activities	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal has multiple approved Quarry sources. No new quarries will be developed; selected approved quarries will be expanded.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 18 PC No. 009, T&C 5 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	No
Camp Accommodations	No. This is not a new type of work or permitted activity.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	N/A	No	No	No
All weather Access Road and Traffic	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal has vehicle traffic along the Roberts Bay to Doris AWR and the Windy Road (Doris to Madrid). There will be an increase in traffic. The Windy Road will be widened but effects will be optimized with the continuation of the Wildlife Mitigation and Monitoring Plan. Fuel will be transferred to Doris by truck; however, a fuel line may be used in the future.	No. The activity is within the previously assessed PDA and LSA. The activity will have a minor extension outside the assessed PDA (Figure 2.1-1)	The total increase in the PDA (for the Operational Update) is non-significant (about a 46 ha increase or 1.07% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 25 PC No.009, T&C 6, 20, 22 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	Yes. Notification to NWB as per 2AM-DOH1335, Part D, Item 1	Yes

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Diesel Generators	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal has diesel generators throughout the Hope Bay Belt. There will be an increase of power; however, wind turbines will help to reduce reliance on diesel fuel.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 30 PC No.009, T&C 1 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	No
Installation of Wind Turbines	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal has six wind turbines approved throughout the Hope Bay Belt. The locations will be optimized to centralize at Doris and Madrid.	No. The activity is within the previously assessed PDA and LSA. The activity will have a minor extension outside the assessed PDA (Figure 2.1-1)	No. The total increase in the PDA (for the Operational Update) is non-significant (about a 15 ha increase or 0.35% change).	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.009, T&C 2, 25, 28 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	No	No	No
Fuel Storage	No. This is not a new type of work or permitted activity. <u>Optimization:</u> Original project proposal has fuel storage throughout the Hope Bay Belt. There will be increased storage at Doris, Madrid, and Roberts Bay.	No. The activity is within the previously assessed PDA and LSA.	N/A	The combined residual effect, when added to the previous assessment, does not alter the residual impacts previously assessed.	Yes	Yes; PC No.003, T&C 20, 32, 33 PC No.009, T&C 52 These terms and conditions will continue to be applied by Agnico Eagle to this activity per current requirements.	Yes. Notification to NWB as per 2AM-DOH1335, Part G, Item 1 (Note – design report to be submitted with notification)	No	Yes

(a) The LSA is as defined in the terrestrial EA: “The wildlife LSA remains the same as that used for the Madrid-Boston FEIS, and is defined by a combination of sub-watershed boundaries and buffers surrounding proposed Project components including infrastructure and connecting roads”. “The PDA includes engineering buffers around the footprints of structures to allow for flexibility in the final placement of a structure through later design and construction phases, reflecting the certainty of design and construction”

(b) Area (ha) is related to change to the Project Development Area (PDA). The total area of the Operational Update PDA is 229 ha. In addition to the areas associated with an activity as presented in the table, approximately 82 ha are attributed to pads and associated infrastructure (e.g., berms) on the scope activity.

(c) Appendices 3-A to 4-G provided technical studies to support the Operational Update

Note: LSA = local study area; PC = Project Certificate; PDA = Project Development Area; T&C = Term and Condition; TIA = Tailings Impoundment Area; tpd = tonnes per day

Hope Bay Operational Update Scope

✓✓ Assessed and no changes for this Operational Update
 ✓ Optimization of assessed scope activity

Scope Activities	Project Certificate No. 003 (September 2016)	Project Certificate No. 009 (December 2017)	Operational Update
Waste Infrastructure and Management			
Processing facilities	Doris Mill: 2,000 tpd	Addition of Doris Concentrator Handling Facility Madrid Concentrator: 1,200 tpd Boston Process Plant: 2,400 tpd	✓ Doris Mill: Upgrade to 8,000 tpd
Tailings management	Doris Tailings Impoundment Area (TIA) - 2.5 Mt (construction of North and South Dams)	Expansion of Doris TIA to 18 Mt (South Dam raise, construction of West Dam); installation of tailings pipeline from Madrid North concentrator to Doris TIA; construction of waste rock pad, concentrator, and Dry-Stacked tailings management area (TMA) at Boston	✓✓ Phased transition from slurry to Dry Stacked/Filtered Tailings in Doris TIA
Underground Portals	Doris: Doris Portal	Madrid North: Madrid North Portal, Naartok East Portal (approved under Water Licence 2AM-DOH1335) Madrid South: Madrid South Portal Boston: Boston Portal	✓✓ Madrid South: Has been relocated to Patch 7
Waste rock piles	Doris: 1 waste rock pile	Madrid North: 2 waste rock piles (Naartok East waste rock pile approved under Water Licence 2AM-DOH1335) Madrid South: 1 waste rock pile Boston: 1 waste rock pile	✓ Waste rock piles at Doris, Madrid North, Madrid South
Overburden stockpiles	Doris: 1 overburden stockpile	Boston: 1 overburden stockpile	✓ Overburden piles at Doris and Madrid
Ore stockpiles	Doris: 1 ore stockpile	Madrid North: 1 ore stockpiles Madrid South: 1 ore stockpile Boston: 1 waste rock pile	✓ Temporary ore stock piles at Doris and Madrid
Water Infrastructure and Management			
Discharge to Roberts Bay	1 marine outfall (diffuser and piping) to Roberts Bay		✓ Add second marine outfall diffuser to Roberts Bay within marine outfall corridor
Contact water ponds	Doris: 2 contact water ponds	Madrid North: 2 contact water ponds Madrid South: 1 contact water pond Boston: 2 contact water ponds	✓ Contact water ponds at Doris and Madrid
Freshwater Withdrawal	Doris Lake: 480,000 m ³ /year	Doris Lake: 1,930,000 m ³ /year Windy Lake: 43,800 m ³ /year Patch Lake: 60,000 m ³ /year TOTAL = 2,033,000 m ³ /year Boston: Aimaokatalok Lake (483,000 m ³ /year)	✓ Doris Lake, Windy Lake, and Patch Lake: Total freshwater withdrawals 2,916,855 m ³ /year
General Site Activities			
Marine transport	1 charter (1 tug + 5 1500 series barges) to Roberts Bay annually	4 cargo ships + 3 fuel tankers to Roberts Bay annually	✓ 12 cargo ships + 8 fuel tankers to Roberts Bay annually
Blasting	Doris: 700,000 kg/year	Madrid: 2,248,000 kg/year Boston: 1,685,000 kg/year	✓✓ Doris, Madrid and Boston: Total 3,650,000 kg/year
Quarries	Quarry 1, 2, 3, and 4	Quarry G, H, L, M, N, O, P, Q, R, S, T, U, V, W, X, AJ, AA, AB, AE, AF, AH and AI (Quarry D approved under Water Licence 2AM-DOH1335)	✓✓ Expand Quarry AF and Quarry AI
Camp and associated support facilities	Doris camp: 280 people	Doris camp: 400 ppl Boston camp: 300 ppl	✓✓ Doris camp: 800 people Madrid camp: 250 people
All weather access road (AWR) and Traffic	Roberts Bay to Doris AWR: 300 fuel tanker trucks/year	Doris to Madrid AWR: 9.5 m wide, 129 trucks/day (ore haulage)	✓ Roberts Bay to Doris AWR: 430 fuel tanker trucks/year. Fuel will be transferred to Doris by truck; however, a fuel line may be used in the future Doris to Madrid AWR: 30 m wide, 160 trucks/day (ore haulage)
Diesel generators	Doris: 8 x 1.2 MW	Madrid North: 3 x 1.2 MW Madrid South: 2 x 725 kW + 1 x 350 kW (standby) Boston: 8 x 1.2 MW + 1 x 725 kW (standby)	✓ Doris: Add 7 x 5.6 MW Madrid North: Update to 3 x 1.8 MW
Wind turbines		Doris: 2 wind turbines Madrid: 2 wind turbines Boston: 2 wind turbines	✓ Doris & Madrid: Move 2 approved wind turbines from Boston
Infrastructure at Roberts Bay	Jetty and fuel storage (5 ML)	Off-loading fuel and cargo dock, road connecting cargo dock to facilities at Roberts Bay, Permitted capacity 45 ML	✓ Diesel: Add 33 ML of diesel fuel storage (Total Volume of 77 ML) Jet-A: Add 2 ML of Jet A fuel storage (Total Volume of 2.5 ML)
Fuel tank farm	Doris: 7.5 ML tank farm	Madrid North: 4.5 ML tank farm Madrid South: 75,000 L tank farm Boston: 5 x 1.5 ML tank farm	✓ Doris: Add 5 ML of diesel fuel storage (Total Volume at Doris of 12.5 ML) Madrid: Add 10 ML of diesel fuel storage (Total Volume at Madrid of 14.5 ML)