

APPENDIX 33 SOCIO-ECONOMIC MONITORING PROGRAM

Agnico Kivalliq Projects Socio-Economic Monitoring Program

Version 4.0 – 2022

Introduction

The Agnico Kivalliq Projects Socio-Economic Monitoring Program (SEMP) provides the framework for socio-economic monitoring of Agnico Eagle’s mineral projects in the Kivalliq Region of Nunavut. This includes monitoring against the predicted impacts described in the Final Environmental Impact Statements (FEIS) of each project, as well as the concerns and priorities identified by the Kivalliq Socio-Economic Monitoring Committee (Kivalliq SEMC). This program supersedes the project-specific SEMP for the Meadowbank Gold Mine. By integrating multiple projects within a single monitoring framework, this program aims to promote consideration of cumulative impacts and streamline development and review of monitoring reports, while respecting the unique regulatory requirements of individual projects.

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Document control and change log

VERSION	WG APPROVAL	NATURE OF REVIEW / CHANGE
1.0	Feb-2018	Initial version
2.0	May -2019	2019 SEMP Update results including: Whale Tail Project, Additional data, WG Recommendations & 2019 SEMC
3.0	March-2021	Addition of VSEC 11 and respective indicators on gender in response to amended Whale Tail Expansion Project updated Project Certificate
4.0		Reorganization of SEMP and SEMR in consultation with the SEWG; additional indicators on housing, food security, and traditional lifestyle incorporated

About the SEMP

Newly included information based on the 2022 update (4.0) are noted with the symbol: .

Legislative and regulatory basis

The Agnico Kivalliq Projects SEMP is designed to meet the intent of Article 12, Part 7 of the *Nunavut Land Claims Agreement (NLCA)*. From a socio-economic monitoring point of view, the Program addresses sections 12.7.2(a) and 12.7.2(d):

“(a) to measure the relevant effects of projects on.... socio-economic environments of the Nunavut Settlement Area;”
“(d) to assess the accuracy of the predictions contained in the project impacts statements”

This umbrella program – encompassing all Agnico Eagle mining projects in the Kivalliq region – is being put forth to supersede the existing Meadowbank Socio-Economic Monitoring Program. It is designed to meet the intent of Article 12.7.5 of the *NLCA*:

“Any monitoring program established for a project under Section 12.7.1 shall be designed so as to avoid duplication of duties and to facilitate coordination of monitoring activities, and may, in addition to any other relevant matters, provide for the variables to be monitored and the program specifications.”

Project-specific monitoring requirements established in the Terms and Conditions contained within individual Project Certificates are provided in Appendix A: Projects List.

The SEMP is also designed to meet the intent of Section 135 of the *Nunavut Planning and Project Assessment Act*. This includes meeting the purpose of monitoring programs outlined in subsection 135(3):

“The purpose of a monitoring program is to(a) measure the impact of the project on the ecosystemic and socio-economic environments of the designated area; (b) determine whether the project is carried out in accordance with the terms and conditions imposed under subsection 152(6) or set out in the original or amended project certificate; (c) provide the information necessary for regulatory authorities to enforce the terms and conditions of licences, permits or other authorizations that they issue in relation to the project; and (d) assess the accuracy of the predictions contained in the project impact statement.”



Program objectives

The objectives of the Agnico Kivalliq Projects Socio-Economic Monitoring Program are to:

- Collect and analyze monitoring data to verify the accuracy of socio-economic impact predictions made in projects' Final Environmental Impact Statements as well as the socio-economic priorities and concerns identified by the SEMC.
- Assess the effectiveness of current practices to mitigate adverse effects and enhance positive effects of the Projects.
- Obtain early warning should mitigation for adverse effects or measures to enhance positive effects not be achieving their intended outcomes.
- Provide timely detection of unanticipated outcomes.
- Report and communicate on observed socio-economic trends and impacts to the SEMC, communities and other interested parties.

Working group

The *Agnico Kivalliq Projects Socio-Economic Working Group (SEWG)* was established to support the design and implementation of the SEMP. Specifically, the SEWG aims to support the development of the Program framework and undertake collaborative monitoring to identify and access priority data that will be useful in improving the socio-economic performance of the Projects. This will involve combining Project-specific performance data with data generated or provided by other members of the SEWG to support adaptive management measures implemented by the member agencies to minimize adverse effects and maximize benefits from the Projects.

Monitoring Committee

In 2007, the Government of Nunavut established three regional socio-economic monitoring committees (SEMCs) to monitor the socio-economic impacts of projects in each of the Territory's regions against Project Certificate Terms and Conditions specified by the Nunavut Impact Review Board (NIRB). The SEMC's Terms of Reference state that the committees will assist proponents in developing project monitoring programs, prepare reports, and publish information on the impacts of major development projects on communities and residents in the region.

The Kivalliq SEMC reviews the annual SEMP results (presented in a Socio-Economic Monitoring Program Report), taking into consideration areas of mutual interest and socio-economic monitoring priorities identified by the SEWG. They also support a collaborative monitoring framework by providing data to support socio-economic impacts monitoring, recommending the prioritization of identified areas for monitoring and mitigation, and providing recommendations for additional areas of monitoring and mitigation.

Annual Report

Agnico Eagle will prepare an annual Socio-Economic Monitoring Program Report (SEMR), presenting performance data for all Agnico Eagle projects in the Kivalliq region to the SEWG and SEMC for review, prior to submitting it to the NIRB. In 2019, with the approval of the SEWG, the report submission date was moved to March 31st of each year. The report will be submitted with the Nunavut Impact Review Board (NIRB) Annual report and will present all available data for the previous calendar year (January to December). The report will include both project-specific and regional project data sourced from Agnico Eagle and public sources, including the Nunavut Bureau of Statistics and Statistics Canada, among others. The report will also describe Agnico's activities related to socio-economic performance, and participation in collaborative monitoring processes including the Kivalliq SEMC. Key sections of this report and associated public materials (e.g. presentations) will be provided in both Inuktitut and English.



Additional **resources and inputs** that will inform the report discussion include:

- The Inuit Workforce Barriers Study (IWBS)
- The Kivalliq Labour Market Analysis (KLMA)
- The annual reports of the Community Liaison Committee (CLC)
- Agnico Eagle’s Inuit and Nunavummiut Employee Survey
- The input from the annual SEMC meetings

Adaptive management and mitigation

Agnico Eagle will use an adaptive management approach to improving socio-economic performance throughout the lifecycle of each project. Given the complexity of socio-economic phenomena (i.e. multiple factors at play), there are limitations in establishing causal relationships between mining activity and some socio-economic indicators outlined in the Program. The SEWG will continually strive to improve data (in both government and Agnico Eagle data sets) and analysis, and to be responsive to the priorities and concerns identified by the Kivalliq SEMC and the CLC.

Agnico Eagle will use the results of this monitoring program to inform the implementation of existing – and creation of new – socio-economic management and mitigation measures. This is both for anticipated and unanticipated impacts, as findings from this Program can alert Agnico and the SEMC to the emergence of unanticipated effects. Updated descriptions of existing and new management measures will be included in each annual report. Further, each report will include a discussion of the management response to changing circumstances and findings from both current and previous reports.

Reporting approach

The SEMP addresses 11 valued socio-economic components (VSECs). Annual SEMRs will report on the VSECs and associated indicators presented in the following section (noting constraints in some baseline data). Reporting will provide project-specific data to ensure the requirements of individual project certificates are adequately met. Additionally, whenever possible, the SEMRs will provide a cumulative / regional lens to better identify and assess the effects of Agnico’s projects on the Kivalliq region. The annual report will aim to reconcile the complexity of presenting multi-project data with the need for clear, accurate and actionable reporting outcomes. For each VSEC, the report will identify existing Agnico programs and practices that are relevant to performance (enhancing benefits or mitigating impacts) for indicators associated with that VSEC. For each indicator, the report will address the following:

Prediction	· Provide the prediction from the projects’ FEIS against which the indicator will be assessed. This will include directionality and magnitude as well as specific targets/levels, where available.
Data and Trends	· Present and describe the indicator data in a clear manner using charts, tables and text.
Interpretation	· Analyse the data and assess trends against the specific indicator prediction and impact / goal statements. Where possible, examine changes in trends over time, recognizing that isolating the effects of individual projects will become challenging with multiple operations in the region.
Management and Mitigation	· Identify existing Agnico measures that address and respond to the relevant indicator.



VSECs, Indicators & Metrics

Each of the 11 VSECs has a corresponding impact / goal statement. These statements – presented in the table below – provide a high-level rationale for the inclusion of the VSEC and help inform and direct the interpretation of indicators. Each VSEC includes a number of indicators, which are further divided into specific metrics that will be measured and reported.

Table 1: Valued socio-economic components and corresponding impact / goal statements


VSEC	IMPACT / GOAL STATEMENT
Population Demographics	<ul style="list-style-type: none"> Understand what changes are occurring in Kivalliq migration, if any
Nunavut Economy	<ul style="list-style-type: none"> Increased economic activity (GDP) and benefits to Inuit organizations and the Government of Nunavut through royalties and taxes
Contracting and Business Opportunities	<ul style="list-style-type: none"> Increased opportunities for Inuit-owned and local businesses
Employment	<ul style="list-style-type: none"> Increased and stable employment for Inuit across Kivalliq communities
Gender	<ul style="list-style-type: none"> Contribute to success and wellbeing of women in the workplace and Kivalliq communities
Income	<ul style="list-style-type: none"> Increased income in Kivalliq communities
Education and Training	<ul style="list-style-type: none"> Improved educational attainment in Kivalliq communities Increasing mining-related skill level of Kivalliq workforce Enhanced skill profile and promotion of Inuit employees
Health and Safety	<ul style="list-style-type: none"> Strong health and safety culture. Zero workplace accidents
Community Infrastructure and Services	<ul style="list-style-type: none"> Community infrastructure (transportation, energy, water, services) is maintained Social assistance costs are reduced during and beyond the life of the mine
Individual and Community Wellness	<ul style="list-style-type: none"> Contribute and collaborate to enhance individual and community wellness
Culture and Traditional Lifestyle	<ul style="list-style-type: none"> Respect and support for Inuit culture, language, and traditional lifestyle in the workplace and in communities



Notes and Considerations

- Indicator level.** Different indicators provide data at the project, community, regional and / or territorial level. The level of each indicator is reflected in titles of the metric. Additionally, data that is provided by project is indicated through a checkmark in the rightmost column of the tables below. For example, 'project employment' is employment data broken down by project, while 'project Inuit employment by Kivalliq community' is employment data broken down by project and community. Data from the government (e.g. Nunavut Bureau of Statistics – NBS) is typically available at the territorial level (Nunavut), at the regional level (Kivalliq in this case), and sometimes at the community level (for each of the seven Kivalliq communities).
- Data availability and constraints.** Some of the indicators presented below are subject to data constraints outside of Agnico Eagle's control. These include the release dates for NBS and Statistics Canada (StatsCan) data, Census / Aboriginal Peoples Survey data, and the historical availability of project data.

1. Population demographics

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
1.1 Employee migration			
Project Agnico Eagle Inuit employees residing outside Nunavut	· Employees	· Agnico Eagle	X
Project contractor Inuit employees residing outside Nunavut 	· Contractors	· Agnico Eagle	X
1.2 Population estimates in Kivalliq communities			
Population estimates in Kivalliq communities (Inuit & non-Inuit)	· Residents	· StatsCan / NBS	

2. Nunavut economy

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
2.1 Royalties and taxes			
Project payments, royalties, and taxes	· Dollars	· Agnico Eagle	X
2.2 Trade balance			
Nunavut Trade Balance	· Dollars	· StatsCan	
2.3 Nunavut GDP			
Nunavut GDP (all industries), Nunavut GDP (mining, quarrying and oil & gas)	· Dollars	· StatsCan	

3. Contracting and business opportunities

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
3.1 Contract expenditures			



Contract expenditures on Nunavut Tunngavik Incorporated (NTI) registered businesses	· Dollars · Percent of total	· Agnico Eagle	X
NTI-registered business expenditures by Nunavut community	· Dollars	· Agnico Eagle	X
Contract expenditures on Nunavut-based businesses	· Dollars · Percent of total	· Agnico Eagle	X
Project contracts on Nunavut-based businesses by business location	· Contracts · Percent of total	· Agnico Eagle	X

4. Employment

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
4.1 Total project employment (Agnico Eagle & contractors)			
Project employment (permanent, temporary & contractor)	· Employees · Person-hours	· Agnico Eagle	X
4.2 Project Inuit employment (Agnico Eagle & contractors)			
Project employment (Inuit & non-Inuit)	· Employees · Person-hours	· Agnico Eagle	X
Project contractor employment (Inuit & non-Inuit)	· Employees · Person-hours	· Agnico Eagle	X
4.3 Project employment by Kivalliq community			
Project Inuit employment by Kivalliq community	· Employees · Person-hours	· Agnico Eagle	X
Project contractor employment by Kivalliq community (Inuit & non-Inuit)	· Employees · Person-hours	· Agnico Eagle	X
4.4 Employee turnover			
Agnico Eagle Inuit turnover by reason	· Employees	· Agnico Eagle	X
Turnover rates (Inuit & non-Inuit)	· Employees · Rate	· Agnico Eagle	X
Turnover rate by Kivalliq community	· Employees	· Agnico Eagle	X

5. Gender

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
5.1 Gender-specific initiatives			



Overview and assessment of gender-specific initiatives	· Varied / Qualitative	· Agnico Eagle	
5.2 Project employment by gender			
Project employment (gender; Inuit & non-Inuit)	· Employees · Rates	· Agnico Eagle	X
Contractor employment (gender; Inuit & non-Inuit)	· Employees · Rates	· Agnico Eagle	X
5.3 Project employment by gender and skill level			
Agnico Eagle female employment by skill level	· Employees	· Agnico Eagle	X
Proportion of skills levels held by female employees	· Rates	· Agnico Eagle	

6. Income

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
6.1 Income paid to project's Inuit employees			
Income paid to Agnico Eagle project Inuit employees	· Dollars	· Agnico Eagle	X
6.2 Income by Kivalliq community			
Median employment income of tax filers by community	· Dollars	· StatsCan / NBS	

7. Education and training

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
7.1 Investment in education-based initiatives			
Agnico Eagle investments in education-based initiatives	· Dollars	· Agnico Eagle	
Enrollment in Agnico Eagle summer student program (Inuit & non-Inuit)	· Students	· Agnico Eagle	X
7.2 Secondary school graduation by region			
Secondary school graduation rate by region	· Graduate rate	· GN Department of Education / NBS	
7.3 Project training and education			
Agnico Eagle investments in mine training and education initiatives	· Dollars	· Agnico Eagle	



Average specific training hours (Inuit & non-Inuit)	· Mean hours / employee	· Agnico Eagle	X
Participation in career and skills programs	· Enrollees · Graduates	· Agnico Eagle	
Inuit Participation in pre-apprenticeship and apprenticeship programs by type	· Enrollees · Graduates	· Agnico Eagle	X
7.4 Project employment by skill level			
Agnico Eagle Inuit employees by skill level	· Employees	· Agnico Eagle	X
Agnico Eagle employees by skill level (Inuit and non-Inuit)	· Employees	· Agnico Eagle	X
7.5 Trade certificates / apprenticeships in Nunavut			
Trade certificates / Apprenticeships by community	· Apprenticeships	· Department of Family Services / NBS	

8. Health and safety

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
8.1 Health and safety training			
Average mandatory training hours provided to Agnico Eagle employees (Inuit & non-Inuit)	· Mean hours / employee	· Agnico Eagle	X
8.2 Health and safety on-site			
Visits by project employees to Agnico Eagle clinic for work-related and other reasons	· Visits	· Agnico Eagle	X
Project combined lost-time and light duty accident frequency (per 200,000 person-hours)	· Incident rate	· Agnico Eagle	X



9. Community infrastructure and services

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
9.1 Use of GN health services			
Kivalliq community health centre visits per capita	· Visits	· GN Department of Health	
Employees referred to community health care centre for personal or work-related reasons	· Referrals	· Agnico Eagle	X
Incidents requiring use of GN emergency health services	· Incidents	· Agnico Eagle	X






9.2 Use of public infrastructure			
Estimates of use of public physical infrastructure directly related to Project (airports, port, meeting facilities, roads)	· Varied / Qualitative	· Agnico Eagle	X
9.3 Social assistance			
Per capita social assistance expenditures by Kivalliq community	· Dollars	· GN Department of Family Services / StatsCan	
Percentage of households receiving social assistance by Kivalliq community	· Percentage of households	· GN Department of Family Services / StatsCan	



10. Individual and community wellness

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
10.1 AEM programs			
Agnico Eagle wellness program offerings & utilization by project employees and community members	· Varied / Qualitative	· Agnico Eagle	X
10.2 Perceptions of health & wellness			
Self-reported effect of project on health & wellness	· Qualitative / semi-quantitative survey results	· Agnico Eagle	
10.3 Criminal violations			
Criminal violations per hundred people by community	· Violations	· StatsCan / NBS	
Criminal violations per hundred people by type and community	· Violations	· StatsCan / NBS	
10.4 Health centre visits			
Kivalliq community health centre visits by reason	· Visits	· StatsCan / NBS	
10.5 Housing			
Persons on waitlist for public housing by community	· Individuals	· Nunavut Housing Corporation / NBS	
Housing needs by community as a percentage of housing stock 	· Rates	· Nunavut Housing Corporation	
Number of people in core housing need by type and community 	· Individuals · Rates	· StatsCan	



Self-reported home ownership aspirations by community 	· Qualitative / semi-quantitative survey results	· Agnico Eagle	
10.6 Food security			
Self-reported concerns on food availability by community	· Qualitative / semi-quantitative survey results	· Agnico Eagle	
Cost of the revised Northern Food Basket 	· Dollars	· Nutrition North Canada	
Agnico Eagle investments in food security initiatives 	· Dollars	· Agnico Eagle	
10.7 Suicide			
Suicides per 10,000 people by region	· Suicides	· Department of Justice	

11. Culture and traditional lifestyle

INDICATORS / METRICS	UNIT(S)	SOURCE	PROJECT-SPECIFIC
11.1 Perceptions of culture and traditional lifestyle			
Self-reported effect of project on overall communities and on cultural and traditional activities	· Qualitative / semi-quantitative survey results	· Agnico Eagle	
11.2 Culture and traditional lifestyle			
Population identifying Inuktitut as their mother tongue, by Kivalliq community	· Percentage of population	· StatsCan	
Number of Agnico employees identifying Inuktitut as their first language	· Percentage of employees	· Agnico Eagle	X
Self-reported effect of project on use of Inuktitut	· Qualitative / semi-quantitative survey results	· Agnico Eagle	
Use of AWAR by community	· Trips	· Agnico Eagle	X
Number of consultations with Elder's Advisory Committee on integrating Inuit knowledge 	· Consultations	· Agnico Eagle	
Agnico Eagle investments to support community traditional activities 	· Dollars	· Agnico Eagle	
11.3 Country food use at project			
Country food kitchen usage	· Employees	· Agnico Eagle	X
Country food night events attendance	· Employees	· Agnico Eagle	X



Appendix A: Project List

PROJECT	PROJECT CERTIFICATE CONDITION
<p>Meadowbank Gold Mine</p>	<p>Meadowbank Project Certificate, Condition 64</p> <p>“Cumberland¹ shall work with the GN and INAC to develop the terms of reference for a socio-economic monitoring program for the Meadowbank Project, including the carrying out of monitoring and research activities in a manner which will provide project specific data which will be useful in cumulative effects monitoring (upon request of Government or NPC) and consulting and cooperating with agencies undertaking such programs. Cumberland shall submit draft terms of reference for the socio-economic monitoring program to the Meadowbank SEMC for review and comment within six (6) months of the issuance of a Project Certificate, with a copy to NIRB’s Monitoring Office.”</p>
<p>Meliadine Gold Mine</p>	<p>Meliadine Project Certificate, Condition 89</p> <p>“The Proponent shall develop the Meliadine Socio-economic Monitoring Program to monitor the predicted impacts outlined in the FEIS as well as regional concerns identified by the Kivalliq Socio-economic Monitoring Committee (SEMC). Where possible, the Proponent is encouraged to work in collaboration with all other socio-economic stakeholders such as the KIA, GN, AANDC and the communities of the Kivalliq region in developing this program, which should include a process for adaptive management and mitigation in the event unanticipated impacts are identified. Details of the Meliadine Socio-economic Monitoring Program are to be provided to the NIRB upon finalization, and within one year of issuance of the Project Certificate.”</p>
<p>Whale Tail Pit</p>	<p>Whale Tail Project Certificate, Condition 46</p> <p>“The Proponent should develop a Project-specific Whale Tail Pit Socio- Economic Monitoring Program designed to:</p> <ul style="list-style-type: none"> • Monitor for project-induced effects, including the impacts predicted in the Environmental Impact Statement through indicators presented in the Whale Tail Pit Socio-Economic Monitoring Plan; • Reflect regional socio-economic concerns identified by the Kivalliq Socio-Economic Monitoring Committee (KivSEMC); • Work in collaboration with all other socio-economic stakeholders such as the Kivalliq Inuit Association, the Government of Nunavut, and Indigenous and Northern Affairs Canada, and the communities of the Kivalliq region to develop the program; • Include a process for adaptive management and mitigation to respond if unanticipated impacts are identified; • Monitor the success of existing and newly implemented gender-specific initiatives to determine their success and why they were considered successful or to identify any challenges to their implementation”

¹ Agnico Eagle acquired the Meadowbank property from Cumberland in 2007

